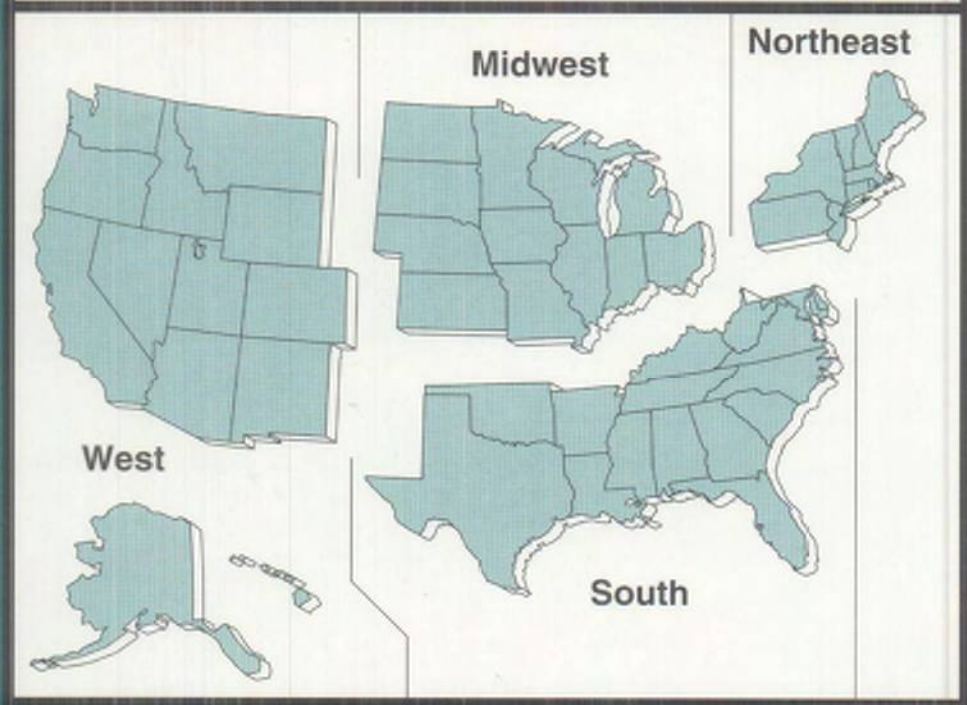
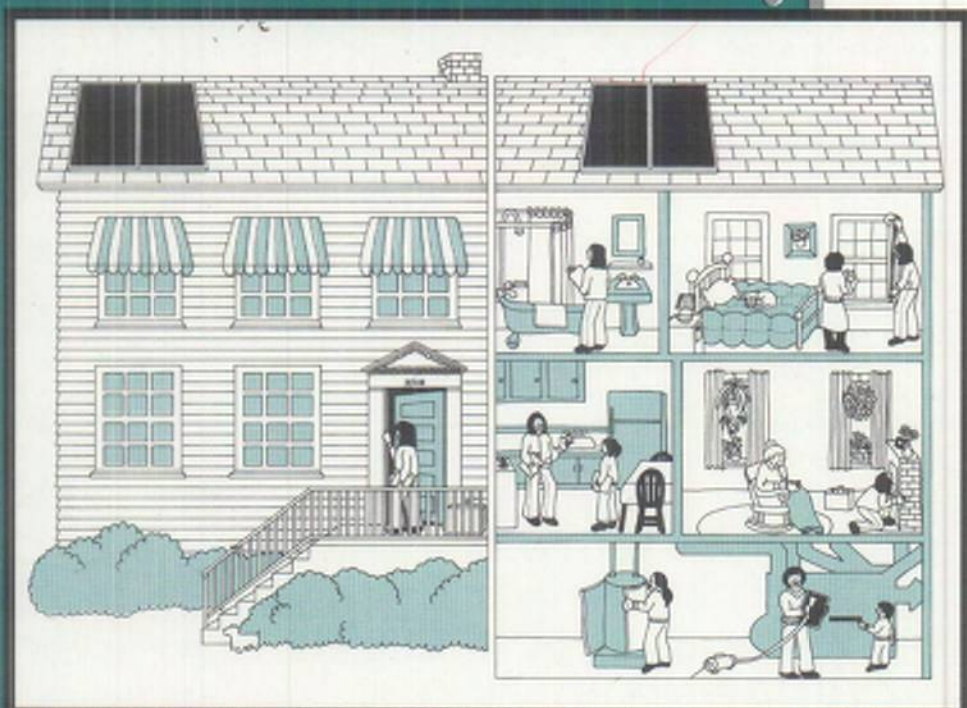


# Household Energy Consumption and Expenditures 1990

## Supplement: Regional

February 1993



Residential Energy Consumption Survey

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*The cover design displays a single-family home, which is one type of housing unit sampled in the Residential Energy Consumption Survey. The family inside the home is doing various things to make the home more energy efficient. The map represents data collection via the four regions of the United States.*

This report covers information on energy consumption and expenditures of households in the residential sector at the regional level. Similar national information was published in the main report, *Household Energy Consumption and Expenditures 1990*.

# **Household Energy Consumption and Expenditures 1990**

## **Supplement: Regional**

**February 1993**

**Energy Information Administration**  
Office of Energy Markets and End Use  
U.S. Department of Energy  
Washington, DC 20585

**This report was prepared by the Energy Information Administration, the independent statistical and analytical agency within the Department of Energy. The information contained herein should not be construed as advocating or reflecting any policy position of the Department of Energy or any other organization.**

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Support was received from the U.S. Department of Health and Human Services, Administration for Children and Families (ACF), and the Office of Minority Economic Impact in the U.S. Department of Energy for special components of the survey. See Appendix A of the companion report, *Household Energy Consumption and Expenditures 1990*, for a description of the information collected for the ACF.

As part of EIA's mission to provide meaningful data, the consumption surveys have ongoing user needs efforts to ascertain the requirements of its users. If you have any suggestions to make the data in this report more useful to your needs, please contact Dr. Wendel Thompson, RECS Manager, at 202-586-1119 or at the address below.

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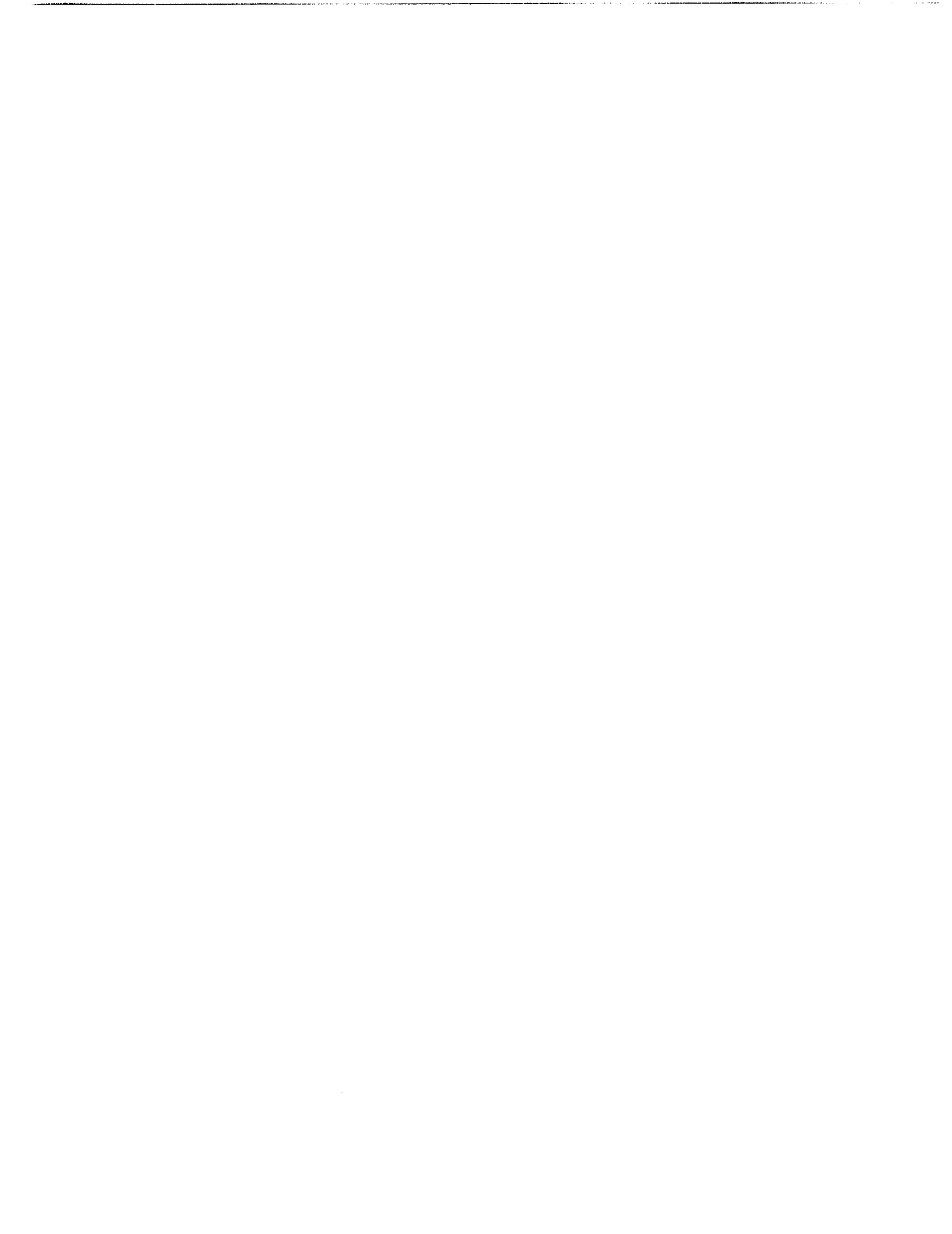
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# Introduction

The purpose of this supplement to the *Household Energy Consumption and Expenditures 1990* report is to provide information on the use of energy in residential housing units, specifically at the four Census regions and nine Census division levels. This report includes household energy consumption, expenditures, and prices for natural gas, electricity, fuel oil, liquefied petroleum gas (LPG), and kerosene as well as household wood consumption. For national-level data, see the main report, *Household Energy Consumption and Expenditures 1990*.

The Energy Information Administration (EIA) is mandated by Congress to be the agency that collects, analyzes, and disseminates impartial and comprehensive data about energy--how much is produced, who uses it, and the purposes for which it is used. To comply with that Congressional mandate, EIA collects energy data from a variety of sources covering a range of topics.<sup>1</sup>

## Background

The data reported here were collected on the 1990 Residential Energy Consumption Survey (RECS) Forms EIA-457A through G. EIA conducts this national sample survey of residential housing units and their energy suppliers on a triennial basis. The RECS is the only comprehensive source of national-level data on energy-related information for the residential sector. The 1990 RECS is the eighth residential energy consumption survey conducted by EIA. Previous RECS were conducted annually from 1978 to 1982 and in 1984.

The RECS is a national multistage probability sample survey. Housing unit and household characteristics data are collected via a personal interview with the householder. Householders are asked to sign authorization forms allowing their suppliers of energy to release billing information about their household. A mail survey is used to collect household energy consumption and expenditure information from the energy suppliers.

This supplement and the main report, *Household Energy Consumption and Expenditures 1990*, are based on data from both the household interviews from the 1990 RECS, conducted in the fall of 1990 and on the billing records collected during the mail survey for the 12-month period of January through December 1990. Information on the physical characteristics of the housing units, the appliances utilized, the occupants, the types of fuels being used, and other characteristics that relate to energy use was published in an earlier report, *Housing Characteristics 1990*.

Data in this supplement are presented in the form of aggregate totals and household averages. Also included are estimates of consumption and expenditures for the five end uses of residential energy: space heating, air conditioning, water heating, appliances, and refrigerators. The values presented for the end-use estimates are based on the 1990 RECS and are disaggregations of actual bills using a nonlinear regression technique. (See Appendix D, "End-Use Estimation Methodology," of the main report, *Household Energy Consumption and Expenditures 1990*, for details on the procedures used to calculate the end-use estimates.) Measures of energy use are also presented in the form of heating and air-conditioning intensities. (See the box on page 12 of the *Household Energy Consumption and Expenditures 1990* for a description of the intensities.)

<sup>1</sup>The EIA conducts numerous energy-related surveys. In general, the surveys can be divided into two broad groups. One group of surveys is directed to the suppliers and marketers of specific energy sources. These surveys--called supply surveys--measure the quantities of specific fuels produced and/or supplied to the market. The results of the supply surveys are combined and published in the *Monthly Energy Review* and other EIA publications. The second group--the consumption surveys--gathers information on the types of energy used by the end users along with the characteristics of those end users that can be associated with energy use. The RECS belongs to the consumption survey group because it collects information directly from the end user--the household. There are important differences between the supply and consumption surveys that need to be taken into account in any analysis that uses both data sources. For a summary of the differences in the residential sector, see Appendix C of Energy Information Administration, *Energy Consumption by End-Use Sector, A Comparison of Measures by Consumption and Supply Surveys*, DOE/EIA-0533 (Washington, DC, April 6, 1990).

The data are published to provide objective, accurate energy information for a wide audience including Congress, Federal and State agencies, industry, and the general public. The data presented were collected and published by the EIA to fulfill its responsibilities as specified in the Federal Energy Administration Act of 1974 (Public Law 93-275), as amended.

The EIA gratefully acknowledges the cooperation of the respondents in supplying the information used to produce the estimates presented here.

## Organization of the Supplement

National data are presented in *Household Energy Consumption and Expenditures 1990*, which is the principal volume to this publication. The energy consumption and expenditure data in this supplement are presented at the Census region and division levels. See "Quick-Reference Guide" in the "Detailed Tables" section for a listing of the major topics covered by Tables 1 through 106. Appendix A is a list of 1990 RECS Forms EIA-457 A through G titles. Appendix B contains the Census regions and divisions and climate zones maps.

For background information on the RECS, see the following *Household Energy Consumption and Expenditures 1990* sections:

- Appendix A: How the Survey was Conducted
- Appendix B: Quality of the Data
- Appendix C: RECS Coverage Related to EIA Supply Surveys
- Appendix D: End-Use Methodology
- Appendix E: Survey Forms
- Appendix F: U.S. Climate Zone and Census Regions and Division Maps
- Appendix G: Related EIA Publications on Energy Consumption
- Glossary

## Electronic Data Sets

The regional-level tables from the "Detailed Tables" section of this supplement are available on diskette. In addition, the public use data from the 1990 Residential Energy Consumption Survey will be available on diskette. See the "Detailed Tables" section and the inside back cover of this report for ordering information.

## Statistics Reported

### New Data for the 1990 RECS

Several new data questions were added to the 1990 RECS. New areas introduced were lighting inside the housing unit, participation in demand-side management programs, shade trees and other methods of helping to cool a house other than air conditioning, and the collection of air-conditioning nameplate data to obtain more information on their energy efficiencies. More information was collected on refrigerators and their usage, enabling refrigerators to be estimated as a separate end use (previously refrigerators were included in the appliance end use).

## **Housing Units**

The RECS is a sample of all housing units in the United States. For RECS, a housing unit is considered as a house, an apartment, a mobile home, a group of rooms, or a single room, if it is either occupied, or intended for occupancy, as separate living quarters by a family, an individual, or a group of one to nine unrelated persons. The housing unit must be the primary residence that is occupied for most of the year; seasonal units are not included. Group quarters for ten or more persons, such as a prison or nursing home, are not included in the RECS. Hotel and motel rooms are considered housing units if occupied as the usual or permanent place of residence.

## **Type of Housing Unit**

As stated above, the RECS publishes information on housing units in several types of structures: single-family houses (both detached and attached), mobile homes, and small (two to four units) and large (five or more units) multifamily or apartment buildings.

## **Energy Consumption and Conditional Energy Intensities**

Consumption is reported on a net basis in terms of energy delivered on site; no adjustment was made for the primary fuels consumed to produce electricity. Energy intensities reported are in terms of conditional intensities. Refer to the box on page 12 in the main report, *Household Energy Consumption and Expenditures 1990*, for information on how the intensities are calculated.

## **End-Use Estimates**

There are two types of data reported in the "Detailed Tables" section of this report. The first is the energy consumption and expenditure data that were obtained from the energy suppliers to the households. The second is the nonlinear regression estimates of household energy consumption and expenditures by five end uses--space heating, air conditioning, water heating, appliances, and refrigerators. Appendix D, "End-Use Estimation Methodology," in *Household Energy Consumption and Expenditures 1990*, provides details on the regression equations used.

## **Survey Estimates**

The statistics published in this supplement are based on a random sample selected from the population of occupied housing units in the United States as of November 1990. As a result, all the numbers are estimates rather than exact measures for the population. The 1990 RECS represents 94.0 million households in the 50 States and the District of Columbia. As described in Appendix B, "Quality of the Data," in *Household Energy Consumption and Expenditures 1990*, the accuracy of each estimate is indicated by the RSE. No estimates were published that were based on data from fewer than 10 sampled households or that had an RSE greater than 50 percent. All of the estimates, except those for the energy end-use estimates, include corresponding RSE's that can be calculated using row/column RSE factors.



# Detailed Tables

The following tables present detailed energy consumption and expenditures of households in the residential sector at the four Census regions and nine Census division levels. The data are from the 1990 RECS. These regional data are designed as a supplement to the national-level data presented in the main report, *Household Energy Consumption and Expenditures 1990*. See the "Glossary" in that main report for definitions of terms used in the tables.

## Table Organization

### Overall Organization

Tables are sequenced by each Census region, and within the region, by Census division. Generally, there will be one page for the total region followed by one page for each Census division within that region. All 27 tables for a region are grouped together. The order of the regions addressed is the Northeast (Tables 1 through 27), Midwest (Tables 28 through 55), South (Tables 56 through 83) and West (Tables 84 through 106). The tables are grouped within region by topics to facilitate finding related information. The Quick-Reference Guide (Figure 1) indicates, by region, the broad topic and relevant table number. See Appendix B, "U.S. Census Region and Division Map" for the States included in each region and division.

### Row Stubs

There is a standard set of row categories (stubs) which appears in all tables. Depending on the specific table topic, the standard stub may be augmented with selected variables pertinent to that topic. The standard stub items always appear in the same order, with any additional stub items interspersed adjacent to the related standard stub items.

### Consumption and Expenditures Tables

The first ten tables in each regional grouping provide household energy consumption and expenditure data that were obtained from the energy suppliers to the households. Data are presented for a total of all energy sources, followed by tables specifically by energy source. Statistics are provided both by all households and per household averages.

### End-Use Tables

The last 17 tables in each regional grouping contain nonlinear regression estimates of energy consumption and expenditures by five end uses--space heating, air conditioning, water heating, appliances, and refrigerators. Details concerning the methodology used for the end-use estimates are in Appendix D, "End-Use Estimation Methodology," of the main report, *Household Energy Consumption and Expenditures 1990*. Data are presented for a total of all energy sources, followed by tables specifically by energy source. Statistics are provided both by all households and per household averages.

**Figure 1. Quick-Reference Guide to the Detailed Tables**

| Topic  | Northeast | Midwest | South | West |
|--|-----------|---------|-------|------|
| <b>Energy Consumption and Expenditures</b>                 |           |         |       |      |
| Average of All Major Sources                               | 1         | 28      | 56    | 84   |
| Consumption by Each Major Source                           | 2         | 29      | 57    | 85   |
| Expenditures by Each Major Source                          | 3         | 30      | 58    | 86   |
| Electricity, per Household                                 | 4         | 31      | 59    | 87   |
| Natural Gas, per Household                                 | 5         | 32      | 60    | 88   |
| Fuel Oil, per Household                                    | 6         | 33      | 61    | 1/   |
| Kerosene, per Household                                    | 7         | 34      | 62    | 1/   |
| Liquefied Petroleum Gas (LPG), per Household               | 8         | 35      | 63    | 89   |
| Wood Consumption   | 9         | 36      | 64    | 90   |
| Average Expenditures by Each Major Source                  | 10        | 37      | 65    | 91   |
| <b>Energy End Use</b>                                      |           |         |       |      |
| Consumption and Expenditures by End Uses                   | 11        | 38      | 66    | 92   |
| Per Household Consumption by End Uses                      | 12        | 39      | 67    | 93   |
| Per Household Expenditures by End Uses                     | 13        | 40      | 68    | 94   |
| <b>Space-Heating Consumption and Expenditures</b>          |           |         |       |      |
| Electricity and Natural Gas                                | 14        | 41      | 69    | 95   |
| Fuel Oil, Kerosene, and LPG                                | 15        | 42      | 70    | 1/   |
| Per Household Electricity                                  | 16        | 43      | 71    | 96   |
| Per Household Natural Gas                                  | 17        | 44      | 72    | 97   |
| Per Household Fuel Oil                                     | 18        | 45      | 73    | 1/   |
| Per Household LPG  | 1/        | 46      | 74    | 1/   |
| <b>Air-Conditioning (A/C) Consumption and Expenditures</b> |           |         |       |      |
| Electricity for All A/C and Central A/C                    | 19        | 47      | 75    | 98   |
| Electricity for Room A/C                                   | 20        | 48      | 76    | 99   |



**Figure 1. Quick-Reference Guide to the Detailed Tables (Continued)**

| Topic   | Northeast | Midwest | South | West              |
|---|-----------|---------|-------|-------------------|
| <b>Water-Heating Consumption and Expenditures</b>             |           |         |       |                   |
| Electricity and Natural Gas                                   | 21        | 49      | 77    | 100               |
| Fuel Oil and LPG  | 22        | 50      | 78    | 101 <sup>2/</sup> |
| Per Household Electricity and Natural Gas                     | 23        | 51      | 79    | 102               |
| Per Household Fuel Oil and LPG                                | 24        | 52      | 80    | 103 <sup>2/</sup> |
| <b>Appliance Consumption and Expenditures</b>                 |           |         |       |                   |
| Electricity, Natural Gas, and LPG                             | 25        | 53      | 81    | 104               |
| Per Household Electricity (both Appliances and Refrigerators) | 26        | 54      | 82    | 105               |
| Per Household Natural Gas and LPG                             | 27        | 55      | 83    | 106               |

<sup>1</sup>Energy source data are not presented since the energy source is used in such small quantities in that region.

<sup>2</sup>Fuel oil data are not presented since fuel oil is used in such small quantities in that region.

Source: Energy Information Administration, Office of Energy Markets and End Use, 1990 Residential Energy Consumption Survey.

## Electronic Data Sets

The regional-level tables (1-106) presented in this supplement are also available on diskette. The electronic files on the diskette are flat ASCII files. There is one file for each of these tables. The diskette containing the files also contains a README DOS text file with a Table of Contents. See the inside back cover for details on obtaining the diskettes.

## Row and Column Factors

The tables in this supplement present estimates for occupied residential housing units and their related consumption and expenditures in the United States. Since the estimates are based on the sample surveyed, they are subject to sampling error. To help the reader compute an approximate Relative Standard Error (RSE) for each of the estimates in the tables, row and column factors are displayed on the top line and in the far right column of each table, except for the end-use estimation tables.

To calculate the RSE for a specific estimate, multiply the row factor by the column factor. The use of the row and column RSE factors is illustrated in Figure 2, which includes a table from this supplement. Using the second column of the table labeled "Electricity" and the row labeled "Single Family" under "Type of Housing Unit" gives an estimate of 30.5 Dollars per Million Btu for the average electricity expenditures for households in single-family units in the Northeast. The RSE row factor is 2.6 and the RSE column factor is 0.7. The approximate RSE for the estimate is, therefore,

$$\text{RSE}_{\text{Average Electricity Expenditures in Single-Family Units}} = (2.6) (0.7) = 1.82 \text{ percent.}$$

The standard error derived from the row and column factors can be used to construct confidence intervals, as in Figure 2, to perform hypothesis tests by standard statistical methods. However, because the generalized variance procedure gives only approximate RSE's, such confidence intervals and statistical tests must also be regarded as only approximate.

For more details about the derivation of the row and column RSE factors, see Appendix B, "Quality of the Data," in the main report, *Household Energy Consumption and Expenditures 1990*.

**Figure 2. Use of RSE Row and Column Factors**

**Table 10. Average Expenditures for Major Energy Sources in Northeast Region Households, 1990**  
(Dollars per Million Btu)

| Characteristics                             | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
| RSE Column Factors:                         | 0.8                               | 0.7         | 0.8         | 0.5      | 1.3      | 3.4                     |                 |
| Northeast Region                            |                                   |             |             |          |          |                         |                 |
| Total Region .....                          | 12.3                              | 31.1        | 7.1         | 7.8      | 9.3      | 14.3                    | 2.1             |
| <b>Climate Zone<sup>2</sup></b>             |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 12.0                              | 28.9        | 6.6         | 7.9      | 9.3      | 14.2                    | 2.5             |
| Under 5,500 HDD .....                       | 12.9                              | 36.1        | 7.8         | 7.7      | 9.8      | Q                       | 3.5             |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                                | NC          | NC          | NC       | NC       | NC                      | NC              |
| <b>Type of Housing Unit</b>                 |                                   |             |             |          |          |                         |                 |
| Single-Family .....                         | 12.4                              | 30.5        | 6.7         | 8.0      | 9.5      | 14.7                    | 2.6             |
| Mobile Home .....                           | 14.2                              | 23.8        | Q           | 8.3      | 9.4      | 12.6                    | 6.9             |
| Multifamily (2 or more units) ...           | 11.9                              | 34.6        | 7.9         | 7.2      | Q        | Q                       | 3.0             |
| <b>Heated Floorspace (square feet)</b>      |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                      | 12.5                              | 32.2        | 7.7         | 7.3      | 9.3      | 14.4                    | 3.3             |
| 1,000 to 1,999 .....                        | 12.3                              | 30.2        | 7.1         | 8.0      | 9.4      | 13.4                    | 2.6             |
| 2,000 or More .....                         | 12.3                              | 31.5        | 6.8         | 7.9      | 9.2      | 15.8                    | 3.5             |
| <b>Ownership of Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Owned .....                                 | 12.4                              | 30.8        | 6.9         | 8.0      | 9.4      | 14.2                    | 2.4             |
| Rented .....                                | 12.0                              | 32.4        | 7.6         | 7.3      | 9.2      | Q                       | 2.8             |

Row Factor (Single-Family Unit) = 2.6  
 Column Factor (Electricity) = 0.7

Approximate RSE (Average Electricity Expenditure in the Single-Family Unit) = (2.6) \* (0.7)  
 = 1.82 percent

Approximate Standard Error  
 (Average Electricity Expenditure in the Single-Family Unit) = (.0182) \* (30.5)  
 = 0.56 Dollars per Million Btu

Approximate 2 Standard Errors (95 percent confidence interval) = (1.96) \* (0.56)  
 = 1.1 Dollars per Million Btu

Therefore, with 95 percent confidence, the average electricity expenditure in a Northeast Single-Family Unit is between 29.4 and 31.6 Dollars per Million Btu (30.5 ± 1.1)

Source: Energy Information Administration, Office of Energy Markets and End Use, the 1990 Residential Energy Consumption Survey.

**Table 1. Consumption and Expenditures in Northeast Region Households, 1990**

| Characteristics   | RSE Column Factors: | Average of Major Energy Sources <sup>1</sup> |                        |                                     |                            |                                |                             |                          |                        |                 |               | RSE Row Factors |
|---|---------------------|--|------------------------|-------------------------------------|----------------------------|--------------------------------|-----------------------------|--------------------------|------------------------|-----------------|---------------|-----------------|
|   |                     | Residential Buildings                        |                        |                                     | Consumption                |                                |                             |                          | Expenditures (dollars) |                 |               |                 |
|   |                     | Total Households (million)                   | Total Number (million) | Total Floor-space (billion sq. ft.) | per Building (million Btu) | per Square Foot (thousand Btu) | per Household (million Btu) | per Member (million Btu) | per Building           | per Square Foot | per Household |                 |
| Northeast Region  |                     |  |                        |                                     |                            |                                |                             |                          |                        |                 |               |                 |
| Total Region  | 19.2                | 13.9   | 40.3                   | 166                                 | 57                         | 119.6                          | 45                          | 2,038                    | 0.70                   | 1,471           | 556           | 2.5             |
| <b>Climate Zone<sup>2</sup></b>                           |                     |  |                        |                                     |                            |                                |                             |                          |                        |                 |               |                 |
| Under 2,000 CDD and Over 5,500 HDD                        | 12.3                | 9.6  | 27.7                   | 156                                 | 54                         | 121.9                          | 47                          | 1,869                    | .65                    | 1,458           | 561           | 3.2             |
| Under 5,500 HDD and 2,000 CDD or More and Under 4,000 HDD | 6.9                 | 4.3  | 12.7                   | 187                                 | 63                         | 115.4                          | 42                          | 2,419                    | .81                    | 1,495           | 549           | 6.0             |
| NC  | NC                  | NC   | NC                     | NC                                  | NC                         | NC                             | NC                          | NC                       | NC                     | NC              | NC            | NC              |
| <b>Type of Housing Unit</b>                               |                     |  |                        |                                     |                            |                                |                             |                          |                        |                 |               |                 |
| Single-Family   | 11.9                | 11.9   | 32.3                   | 138                                 | 51                         | 137.6                          | 47                          | 1,707                    | .63                    | 1,707           | 588           | 3.1             |
| Mobile Home   | .5                  | .5   | .5                     | 83                                  | 90                         | 83.1                           | 29                          | 1,177                    | 1.27                   | 1,177           | 412           | 16.3            |
| Multifamily (2 or more units)                             | 6.8                 | 1.5  | 7.5                    | 420                                 | 83                         | 91.0                           | 42                          | 4,999                    | .98                    | 1,084           | 498           | 3.9             |
| <b>Heated Floorspace (square feet)</b>                    |                     |  |                        |                                     |                            |                                |                             |                          |                        |                 |               |                 |
| Fewer than 1,000  | 5.1                 | 1.8  | 3.8                    | 216                                 | 102                        | 75.6                           | 38                          | 2,695                    | 1.28                   | 945             | 477           | 5.3             |
| 1,000 to 1,999  | 7.1                 | 5.8  | 13.0                   | 142                                 | 63                         | 115.4                          | 42                          | 1,737                    | .77                    | 1,415           | 517           | 3.1             |
| 2,000 or More   | 7.0                 | 6.3  | 23.5                   | 173                                 | 47                         | 155.6                          | 51                          | 2,126                    | .57                    | 1,908           | 630           | 4.4             |
| <b>Overship of Unit</b>                                   |                     |  |                        |                                     |                            |                                |                             |                          |                        |                 |               |                 |
| Owned   | 13.0                | 11.7   | 33.6                   | 150                                 | 52                         | 134.5                          | 48                          | 1,858                    | .65                    | 1,669           | 598           | 2.9             |
| Rented  | 6.2                 | 2.2  | 6.8                    | 252                                 | 80                         | 88.1                           | 38                          | 3,011                    | .96                    | 1,054           | 451           | 4.4             |
| <b>Year of Construction</b>                               |                     |  |                        |                                     |                            |                                |                             |                          |                        |                 |               |                 |
| 1949 or Before  | 8.9                 | 5.9  | 17.8                   | 191                                 | 64                         | 127.7                          | 47                          | 2,183                    | .73                    | 1,457           | 532           | 3.8             |
| 1950 to 1979  | 8.8                 | 6.6  | 19.2                   | 158                                 | 55                         | 119.2                          | 47                          | 2,005                    | .69                    | 1,514           | 594           | 4.1             |
| 1980 or After <sup>3</sup>                                | 1.6                 | 1.3  | 3.4                    | 91                                  | 36                         | 76.4                           | 29                          | 1,563                    | .62                    | 1,317           | 495           | 8.5             |
| <b>1990 Family Income</b>                                 |                     |  |                        |                                     |                            |                                |                             |                          |                        |                 |               |                 |
| Less than \$10,000  | 2.9                 | 1.4  | 3.8                    | 196                                 | 71                         | 95.0                           | 47                          | 2,149                    | .78                    | 1,044           | 513           | 8.3             |
| \$10,000 to \$19,999                                      | 3.4                 | 2.1  | 5.4                    | 166                                 | 65                         | 104.1                          | 48                          | 1,879                    | .73                    | 1,177           | 548           | 5.0             |
| \$20,000 to \$34,999                                      | 4.5                 | 3.4  | 8.8                    | 144                                 | 56                         | 108.0                          | 39                          | 1,835                    | .71                    | 1,373           | 497           | 4.0             |
| \$35,000 or More  | 8.5                 | 7.0  | 22.3                   | 170                                 | 53                         | 140.2                          | 47                          | 2,162                    | .68                    | 1,785           | 598           | 3.7             |
| <b>Below Poverty Line</b>                                 |                     |  |                        |                                     |                            |                                |                             |                          |                        |                 |               |                 |
| 100 Percent   | 2.2                 | 1.1  | 3.0                    | 212                                 | 76                         | 100.9                          | 37                          | 2,370                    | .85                    | 1,128           | 412           | 7.5             |
| 125 Percent   | 3.0                 | 1.5  | 4.3                    | 204                                 | 71                         | 102.4                          | 39                          | 2,300                    | .80                    | 1,155           | 435           | 7.2             |
| <b>Age of Householder</b>                                 |                     |  |                        |                                     |                            |                                |                             |                          |                        |                 |               |                 |
| Under 35 Years  | 5.3                 | 3.2  | 8.2                    | 177                                 | 69                         | 107.0                          | 36                          | 2,236                    | .87                    | 1,351           | 453           | 4.7             |
| 35 to 59 Years  | 8.3                 | 6.6  | 19.9                   | 162                                 | 53                         | 127.8                          | 43                          | 2,057                    | .68                    | 1,627           | 545           | 3.3             |
| 60 Years and Over   | 5.6                 | 4.1  | 12.3                   | 163                                 | 55                         | 119.2                          | 65                          | 1,854                    | .62                    | 1,353           | 743           | 4.3             |
| <b>Household Size</b>                                     |                     |  |                        |                                     |                            |                                |                             |                          |                        |                 |               |                 |
| 1 Person  | 4.5                 | 2.5  | 6.4                    | 147                                 | 58                         | 81.6                           | 82                          | 1,747                    | .68                    | 968             | 968           | 5.4             |
| 2 to 4 Persons  | 12.5                | 9.5  | 28.2                   | 169                                 | 57                         | 128.0                          | 47                          | 2,065                    | .69                    | 1,588           | 571           | 2.3             |
| 5 or More Persons   | 2.2                 | 1.9  | 5.7                    | 175                                 | 58                         | 150.6                          | 27                          | 2,290                    | .75                    | 1,969           | 357           | 6.4             |

See footnotes at end of table.

**NORTHEAST**

Table 1. Consumption and Expenditures in Northeast Region Households, 1990 (Continued)

| Characteristics                        | Residential Buildings      |     |                                     |     | Average of Major Energy Sources <sup>1</sup> |                                |                             |                                |                        |                 |               |                  | RSE Row Factors |  |  |
|--|----------------------------|-----|-------------------------------------|-----|--|--------------------------------|-----------------------------|--------------------------------|------------------------|-----------------|---------------|------------------|-----------------|--|--|
|  | Total Households (million) |     | Total Floor-space (billion sq. ft.) |     | Consumption                                  |                                |                             |                                | Expenditures (dollars) |                 |               |                  |                 |  |  |
|  | Total Number (million)     | Q   | Total Floor-space (billion sq. ft.) | Q   | per Building (million Btu)                   | per Square Foot (thousand Btu) | per Household (million Btu) | per House Member (million Btu) | per Building           | per Square Foot | per Household | per House Member |                 |  |  |
| RSE Column Factors:                    | 1.4                        | 1.7 | 1.8                                 | 0.9 | 0.8  | 0.8                            | 0.9                         | 0.9                            | 0.9                    | 0.8             | 0.7           | 0.7              | 0.7             |  |  |
| <b>New England Division</b>            | 4.5                        | 3.2 | 9.3                                 | 164 | 56   | 113.9                          | 45                          | 2,028                          | 0.69                   | 1,408           | 562           | 3.1              |                 |  |  |
| <b>Climate Zone<sup>2</sup></b>        |                            |     |                                     |     |  |                                |                             |                                |                        |                 |               |                  |                 |  |  |
| Under 2,000 HDD                        | 4.5                        | 3.1 | 9.2                                 | 164 | 56   | 113.9                          | 45                          | 2,030                          | .69                    | 1,406           | 561           | 3.1              |                 |  |  |
| Over 5,500 HDD                         | Q                          | Q   | Q                                   | Q   | Q  | Q                              | Q                           | Q                              | Q                      | Q               | Q             | NF               |                 |  |  |
| Under 5,500 HDD                        |                            |     |                                     |     |  |                                |                             |                                |                        |                 |               |                  |                 |  |  |
| 2,000 HDD or More and                  | NC                         | NC  | NC                                  | NC  | NC   | NC                             | NC                          | NC                             | NC                     | NC              | NC            | NC               |                 |  |  |
| Under 4,000 HDD                        |                            |     |                                     |     |  |                                |                             |                                |                        |                 |               |                  |                 |  |  |
| <b>Type of Housing Unit</b>            |                            |     |                                     |     |  |                                |                             |                                |                        |                 |               |                  |                 |  |  |
| Single-Family                          | 2.5                        | 2.5 | 7.2                                 | 132 | 47   | 132.5                          | 49                          | 1,662                          | .59                    | 1,662           | 614           | 4.2              |                 |  |  |
| Mobile Home                            | .2                         | .2  | .1                                  | 88  | 91   | 87.7                           | 29                          | 1,363                          | 1.41                   | 1,363           | 446           | 10.2             |                 |  |  |
| Multifamily (2 or more units)          | 1.9                        | .5  | 2.0                                 | 360 | 86   | 90.8                           | 41                          | 4,225                          | 1.00                   | 1,065           | 486           | 6.2              |                 |  |  |
| <b>Heated Floorspace (square feet)</b> |                            |     |                                     |     |  |                                |                             |                                |                        |                 |               |                  |                 |  |  |
| Fewer than 1,000                       | 1.4                        | .5  | 1.1                                 | 204 | 97   | 75.1                           | 35                          | 2,635                          | 1.25                   | 969             | 446           | 4.7              |                 |  |  |
| 1,000 to 1,999                         | 1.6                        | 1.3 | 3.2                                 | 148 | 59   | 116.1                          | 45                          | 1,838                          | .73                    | 1,443           | 564           | 5.6              |                 |  |  |
| 2,000 or More                          | 1.5                        | 1.3 | 4.9                                 | 164 | 44   | 149.8                          | 54                          | 1,970                          | .53                    | 1,802           | 648           | 4.3              |                 |  |  |
| <b>Ownership of Unit</b>               |                            |     |                                     |     |  |                                |                             |                                |                        |                 |               |                  |                 |  |  |
| Owned                                  | 2.9                        | 2.5 | 7.6                                 | 144 | 49   | 127.4                          | 49                          | 1,788                          | .60                    | 1,579           | 608           | 4.1              |                 |  |  |
| Rented                                 | 1.7                        | .6  | 1.7                                 | 247 | 87   | 90.5                           | 38                          | 3,030                          | 1.06                   | 1,111           | 472           | 6.3              |                 |  |  |
| <b>Year of Construction</b>            |                            |     |                                     |     |  |                                |                             |                                |                        |                 |               |                  |                 |  |  |
| 1949 or Before                         | 2.1                        | 1.3 | 3.9                                 | 195 | 66   | 123.7                          | 50                          | 2,187                          | .74                    | 1,387           | 558           | 5.2              |                 |  |  |
| 1950 to 1979                           | 1.9                        | 1.4 | 4.2                                 | 151 | 51   | 110.6                          | 45                          | 1,973                          | .66                    | 1,450           | 584           | 6.5              |                 |  |  |
| 1980 or After <sup>3</sup>             | .6                         | .4  | 1.2                                 | 114 | 41   | 88.3                           | 33                          | 1,719                          | .62                    | 1,338           | 501           | 12.7             |                 |  |  |
| <b>1990 Family Income</b>              |                            |     |                                     |     |  |                                |                             |                                |                        |                 |               |                  |                 |  |  |
| Less than \$10,000                     | .8                         | .3  | 1.1                                 | 224 | 69   | 94.3                           | 49                          | 2,538                          | .78                    | 1,071           | 560           | 11.9             |                 |  |  |
| \$10,000 to \$19,999                   | .8                         | .5  | 1.2                                 | 165 | 68   | 109.6                          | 48                          | 1,930                          | .79                    | 1,280           | 555           | 6.2              |                 |  |  |
| \$20,000 to \$34,999                   | 1.1                        | .8  | 2.1                                 | 150 | 55   | 102.4                          | 40                          | 1,927                          | .71                    | 1,318           | 512           | 7.0              |                 |  |  |
| \$35,000 or More                       | 1.9                        | 1.5 | 4.9                                 | 158 | 50   | 130.9                          | 47                          | 2,003                          | .63                    | 1,655           | 592           | 4.7              |                 |  |  |
| <b>Below Poverty Line</b>              |                            |     |                                     |     |  |                                |                             |                                |                        |                 |               |                  |                 |  |  |
| 100 Percent                            | .6                         | .3  | .7                                  | 241 | 90   | 103.8                          | 37                          | 2,785                          | 1.04                   | 1,201           | 424           | 9.7              |                 |  |  |
| 125 Percent                            | .8                         | .3  | 1.0                                 | 225 | 75   | 96.5                           | 37                          | 2,678                          | .89                    | 1,150           | 437           | 11.3             |                 |  |  |
| <b>Age of Householder</b>              |                            |     |                                     |     |  |                                |                             |                                |                        |                 |               |                  |                 |  |  |
| Under 35 Years                         | 1.3                        | .7  | 1.8                                 | 198 | 72   | 104.1                          | 39                          | 2,479                          | .90                    | 1,301           | 483           | 5.8              |                 |  |  |
| 35 to 59 Years                         | 1.9                        | 1.5 | 4.1                                 | 153 | 55   | 120.9                          | 41                          | 1,958                          | .70                    | 1,546           | 522           | 4.8              |                 |  |  |
| 60 Years and Over                      | 1.4                        | 1.0 | 3.4                                 | 158 | 48   | 113.5                          | 65                          | 1,840                          | .56                    | 1,320           | 756           | 5.9              |                 |  |  |
| <b>Household Size</b>                  |                            |     |                                     |     |  |                                |                             |                                |                        |                 |               |                  |                 |  |  |
| 1 Person                               | 1.2                        | .7  | 2.0                                 | 155 | 51   | 82.5                           | 83                          | 1,956                          | .65                    | 1,042           | 1,042         | 5.7              |                 |  |  |
| 2 to 4 Persons                         | 3.0                        | 2.2 | 6.6                                 | 166 | 56   | 124.6                          | 45                          | 2,039                          | .69                    | 1,530           | 556           | 3.8              |                 |  |  |
| 5 or More Persons                      | .4                         | .3  | .8                                  | 170 | 63   | 132.6                          | 24                          | 2,111                          | .78                    | 1,645           | 292           | 10.0             |                 |  |  |

See footnotes at end of table.

# ENERGY CONSUMPTION AND EXPENDITURES

**Table 1. Consumption and Expenditures in Northeast Region Households, 1990 (Continued)**

| Characteristics                         | Average of Major Energy Sources <sup>1</sup> |                        |                                     |                            |                                |                             |                                    |                        |                           |                         | RSE Row Factors |                                |
|---|--|------------------------|-------------------------------------|----------------------------|--------------------------------|-----------------------------|------------------------------------|------------------------|---------------------------|-------------------------|-----------------|--------------------------------|
|   | Residential Buildings                        |                        |                                     | Consumption                |                                |                             |                                    | Expenditures (dollars) |                           |                         |                 |                                |
|   | Total Households (million)                   | Total Number (million) | Total Floor-space (billion sq. ft.) | per Building (million Btu) | per Square Foot (thousand Btu) | per Household (million Btu) | per Household Member (million Btu) | per Building (dollars) | per Square Foot (dollars) | per Household (dollars) |                 | per Household Member (dollars) |
| RSE Column Factors:                     | 1.4  | 1.7                    | 1.8                                 | 0.9                        | 0.8                            | 0.8                         | 0.9                                | 0.9                    | 0.8                       | 0.7                     | 0.7             |                                |
| Middle Atlantic Division                | 14.7   | 10.7                   | 31.1                                | 166                        | 57                             | 121.3                       | 45                                 | 2,041                  | 0.70                      | 1,491                   | 555             | 2.8                            |
| <b>Climate Zone<sup>2</sup></b>         |  |                        |                                     |                            |                                |                             |                                    |                        |                           |                         |                 |                                |
| Under 2,000 CDD and Over 5,500 HDD      | 7.8  | 6.5                    | 18.5                                | 152                        | 53                             | 126.4                       | 48                                 | 1,791                  | .63                       | 1,488                   | 561             | 4.8                            |
| Under 5,500 HDD and 2,000 CDD or More   | 6.9  | 4.2                    | 12.6                                | 187                        | 63                             | 115.5                       | 42                                 | 2,421                  | .82                       | 1,494                   | 548             | 6.1                            |
| Under 4,000 HDD                         | NC   | NC                     | NC                                  | NC                         | NC                             | NC                          | NC                                 | NC                     | NC                        | NC                      | NC              | NC                             |
| <b>Type of Housing Unit</b>             |  |                        |                                     |                            |                                |                             |                                    |                        |                           |                         |                 |                                |
| Single-Family                           | 9.3  | 9.3                    | 25.1                                | 139                        | 52                             | 139.0                       | 47                                 | 1,719                  | .64                       | 1,719                   | 581             | 3.8                            |
| Mobile Home                             | Q  | Q                      | Q                                   | 81                         | 90                             | 81.2                        | 29                                 | 1,102                  | 1.22                      | 1,102                   | 397             | 19.1                           |
| Multifamily (2 or more units)           | 5.0  | 1.0                    | 5.6                                 | 447                        | 81                             | 91.1                        | 42                                 | 5,357                  | .97                       | 1,091                   | 503             | 5.1                            |
| <b>Heated Floor-space (square feet)</b> |  |                        |                                     |                            |                                |                             |                                    |                        |                           |                         |                 |                                |
| Fewer than 1,000                        | 3.7  | 1.3                    | 2.7                                 | 220                        | 104                            | 75.8                        | 40                                 | 2,721                  | 1.29                      | 935                     | 491             | 7.0                            |
| 1,000 to 1,999                          | 5.4  | 4.5                    | 9.8                                 | 140                        | 64                             | 115.1                       | 41                                 | 1,708                  | .78                       | 1,406                   | 503             | 3.6                            |
| 2,000 or More                           | 5.6  | 5.0                    | 18.6                                | 176                        | 47                             | 157.1                       | 51                                 | 2,168                  | .58                       | 1,936                   | 626             | 5.4                            |
| <b>Ownership of Unit</b>                |  |                        |                                     |                            |                                |                             |                                    |                        |                           |                         |                 |                                |
| Owned                                   | 10.2   | 9.2                    | 26.0                                | 151                        | 53                             | 136.5                       | 48                                 | 1,877                  | .66                       | 1,694                   | 596             | 3.5                            |
| Rented                                  | 4.5  | 1.6                    | 5.1                                 | 253                        | 78                             | 87.2                        | 37                                 | 3,003                  | .93                       | 1,039                   | 443             | 5.7                            |
| <b>Year of Construction</b>             |  |                        |                                     |                            |                                |                             |                                    |                        |                           |                         |                 |                                |
| 1949 or Before                          | 6.8  | 4.6                    | 13.8                                | 190                        | 63                             | 128.9                       | 46                                 | 2,182                  | .72                       | 1,478                   | 525             | 4.6                            |
| 1950 to 1979                            | 6.9  | 5.2                    | 15.0                                | 160                        | 56                             | 121.6                       | 47                                 | 2,014                  | .70                       | 1,531                   | 597             | 4.8                            |
| 1980 or After <sup>3</sup>              | 1.0  | .9                     | 2.2                                 | 80                         | 33                             | 70.1                        | 26                                 | 1,490                  | .62                       | 1,306                   | 491             | 11.5                           |
| <b>1990 Family Income</b>               |  |                        |                                     |                            |                                |                             |                                    |                        |                           |                         |                 |                                |
| Less than \$10,000                      | 2.1  | 1.1                    | 2.8                                 | 187                        | 72                             | 95.2                        | 46                                 | 2,029                  | .78                       | 1,034                   | 497             | 10.5                           |
| \$10,000 to \$19,999                    | 2.6  | 1.6                    | 4.1                                 | 167                        | 64                             | 102.4                       | 49                                 | 1,863                  | .72                       | 1,146                   | 546             | 6.4                            |
| \$20,000 to \$34,999                    | 3.4  | 2.6                    | 6.7                                 | 143                        | 54                             | 109.9                       | 39                                 | 1,808                  | .71                       | 1,391                   | 465             | 4.6                            |
| \$35,000 or More                        | 6.6  | 5.4                    | 17.4                                | 173                        | 54                             | 142.8                       | 47                                 | 2,207                  | .69                       | 1,822                   | 600             | 4.4                            |
| <b>Below Poverty Line</b>               |  |                        |                                     |                            |                                |                             |                                    |                        |                           |                         |                 |                                |
| 100 Percent                             | 1.6  | .8                     | 2.3                                 | 203                        | 71                             | 99.9                        | 37                                 | 2,240                  | .79                       | 1,102                   | 407             | 9.8                            |
| 125 Percent                             | 2.2  | 1.2                    | 3.3                                 | 198                        | 70                             | 104.5                       | 39                                 | 2,191                  | .78                       | 1,157                   | 434             | 8.9                            |
| <b>Age of Householder</b>               |  |                        |                                     |                            |                                |                             |                                    |                        |                           |                         |                 |                                |
| Under 35 Years                          | 4.0  | 2.5                    | 6.4                                 | 171                        | 68                             | 107.9                       | 35                                 | 2,172                  | .86                       | 1,367                   | 445             | 5.9                            |
| 35 to 59 Years                          | 6.4  | 5.1                    | 15.8                                | 164                        | 53                             | 129.8                       | 43                                 | 2,086                  | .67                       | 1,651                   | 551             | 3.9                            |
| 60 Years and Over                       | 4.2  | 3.1                    | 8.9                                 | 165                        | 57                             | 121.1                       | 66                                 | 1,858                  | .65                       | 1,364                   | 738             | 5.2                            |
| <b>Household Size</b>                   |  |                        |                                     |                            |                                |                             |                                    |                        |                           |                         |                 |                                |
| 1 Person                                | 3.3  | 1.9                    | 4.5                                 | 145                        | 60                             | 81.3                        | 81                                 | 1,675                  | .70                       | 940                     | 940             | 7.3                            |
| 2 to 4 Persons                          | 9.5  | 7.3                    | 21.7                                | 169                        | 57                             | 129.0                       | 47                                 | 2,073                  | .70                       | 1,579                   | 576             | 2.8                            |
| 5 or More Persons                       | 1.8  | 1.6                    | 4.9                                 | 176                        | 57                             | 154.1                       | 28                                 | 2,321                  | .75                       | 2,033                   | 370             | 7.2                            |

1 Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.  
 2 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.  
 3 Does not include all new construction for 1990.  
 NC = No cases in sample.  
 Q = Data applicable either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 NF = No applicable RSE row/column factor.  
 Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

# NORTHEAST

ENERGY CONSUMPTION AND EXPENDITURES

NORTHEAST

Table 2. Total Consumption in Northeast Region Households, 1990

| Characteristics                        | Major Energy Sources <sup>1</sup><br>(trillion Btu) | Electricity    |               | Natural Gas    |                      | Fuel Oil       |                   | Kerosene       |                   | Liquefied Petroleum Gas |                   | RSE Row Factors |
|--|---|----------------|---------------|----------------|----------------------|----------------|-------------------|----------------|-------------------|-------------------------|-------------------|-----------------|
|  |   | (trillion Btu) | (billion kWh) | (trillion Btu) | (billion cubic feet) | (trillion Btu) | (billion gallons) | (trillion Btu) | (billion gallons) | (trillion Btu)          | (billion gallons) |                 |
|  |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| RSE Column Factors:                    | 0.5   | 0.5            | 0.5           | 0.8            | 0.8                  | 0.7            | 0.7               | 2.3            | 2.3               | 2.1                     | 2.1               |                 |
| Northeast Region                       |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Total Region                           | 2,298.1   | 467.1          | 136.9         | 1,033.4        | 1,000                | 756.7          | 5.50              | 20.7           | 0.15              | 20.2                    | 0.22              | 9.6             |
| <b>Climate Zone<sup>2</sup></b>        |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 2,000 CDD and Over 5,500 HDD     | 1,502.4   | 321.8          | 94.3          | 631.6          | 610                  | 509.9          | 3.70              | 18.8           | .14               | 20.2                    | .22               | 13.2            |
| Under 5,500 HDD                        | 795.8   | 145.3          | 42.6          | 401.9          | 389                  | 246.7          | 1.80              | 1.9            | .01               | Q                       | Q                 | 19.1            |
| 2,000 CDD or More and Under 4,000 HDD  | NC  | NC             | NC            | NC             | NC                   | NC             | NC                | NC             | NC                | NC                      | NC                | NC              |
| <b>Type of Housing Unit</b>            |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Single-Family                          | 1,632.6   | 354.0          | 103.7         | 699.5          | 676                  | 558.1          | 4.04              | 7.4            | .06               | 13.6                    | .15               | 11.9            |
| Mobile Home                            | 43.9  | 14.8           | 4.3           | Q              | Q                    | Q              | Q                 | Q              | Q                 | 5.4                     | .06               | 49.4            |
| Multifamily (2 or more units)          | 621.7   | 98.4           | 28.8          | 331.8          | 321                  | 187.7          | 1.38              | 1.6            | .01               | Q                       | Q                 | 12.1            |
| <b>Heated Floorspace (square feet)</b> |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Fewer than 1,000                       | 386.0   | 75.2           | 22.0          | 175.8          | 170                  | 118.6          | .87               | Q              | Q                 | 5.4                     | .06               | 16.1            |
| 1,000 to 1,999                         | 816.1   | 169.5          | 49.7          | 397.0          | 384                  | 231.7          | 1.68              | 8.2            | .06               | 9.7                     | .11               | 13.4            |
| 2,000 or More                          | 1,096.0   | 222.5          | 65.2          | 460.6          | 446                  | 406.3          | 2.94              | 1.6            | .01               | 5.1                     | .06               | 15.4            |
| <b>Ownership of Unit</b>               |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Owned                                  | 1,753.2   | 369.8          | 108.4         | 750.0          | 725                  | 599.0          | 4.34              | 15.2           | .11               | 19.2                    | .21               | 11.8            |
| Rented                                 | 545.0   | 97.3           | 28.5          | 283.4          | 274                  | 157.6          | 1.16              | 5.5            | .04               | Q                       | Q                 | 14.4            |
| <b>Year of Construction</b>            |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 1949 or Before                         | 1,130.1   | 175.2          | 51.3          | 577.0          | 558                  | 364.5          | 2.65              | 4.3            | .03               | 9.1                     | .10               | 14.1            |
| 1950 to 1979                           | 1,045.7   | 232.5          | 68.1          | 425.2          | 411                  | 368.5          | 2.67              | Q              | Q                 | 5.8                     | .06               | 15.7            |
| 1980 or After <sup>3</sup>             | 122.3   | 59.5           | 17.4          | 31.2           | 30                   | 23.7           | .17               | Q              | Q                 | 5.3                     | .06               | 31.3            |
| <b>1990 Family Income</b>              |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Less than \$10,000                     | 272.9   | 38.2           | 11.2          | 132.2          | 128                  | 97.7           | .71               | Q              | Q                 | Q                       | Q                 | 19.7            |
| \$10,000 to \$19,999                   | 348.7   | 57.6           | 16.9          | 181.1          | 175                  | 101.4          | .74               | 7.3            | .05               | Q                       | Q                 | 19.1            |
| \$20,000 to \$34,999                   | 490.6   | 111.5          | 32.7          | 192.7          | 187                  | 169.9          | 1.24              | Q              | Q                 | 9.3                     | .10               | 15.4            |
| \$35,000 or More                       | 1,186.0   | 259.8          | 76.1          | 527.4          | 510                  | 387.7          | 2.81              | 2.2            | .02               | 8.8                     | .10               | 14.6            |
| <b>Below Poverty Line</b>              |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 100 Percent                            | 224.1   | 31.9           | 9.3           | 120.2          | 116                  | 67.1           | .49               | Q              | Q                 | Q                       | Q                 | 24.5            |
| 125 Percent                            | 309.4   | 47.6           | 14.0          | 156.8          | 151                  | 98.0           | .72               | Q              | Q                 | Q                       | Q                 | 18.5            |
| <b>Age of Householder</b>              |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 35 Years                         | 563.6   | 118.0          | 34.6          | 256.4          | 248                  | 172.3          | 1.26              | Q              | Q                 | 8.7                     | .09               | 15.7            |
| 35 to 59 Years                         | 1,061.8   | 240.2          | 70.4          | 476.7          | 461                  | 328.7          | 2.38              | 7.8            | .06               | 8.4                     | .09               | 14.0            |
| 60 Years and Over                      | 672.8   | 108.9          | 31.9          | 300.4          | 291                  | 255.6          | 1.86              | Q              | Q                 | 3.2                     | .03               | 10.9            |
| <b>Household Size</b>                  |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 1 Person                               | 371.3   | 69.2           | 20.3          | 151.9          | 147                  | 147.8          | 1.08              | Q              | Q                 | 1.6                     | .02               | 15.6            |
| 2 to 4 Persons                         | 1,600.6   | 323.0          | 94.7          | 739.3          | 715                  | 506.5          | 3.68              | 18.0           | .13               | 13.7                    | .15               | 10.3            |
| 5 or More Persons                      | 326.2   | 74.9           | 22.0          | 142.2          | 138                  | 102.3          | .74               | Q              | Q                 | Q                       | Q                 | 19.6            |

See footnotes at end of table.

**ENERGY CONSUMPTION AND EXPENDITURES**

**Table 2. Total Consumption in Northeast Region Households, 1990 (Continued)**

| Characteristics                             | Major Energy Sources <sup>1</sup><br>(trillion Btu) |       | Electricity<br>(trillion Btu) |       | Natural Gas<br>(billion cubic feet) |       | Fuel Oil<br>(trillion Btu) |     | Kerosene<br>(billion gallons) |     | Liquefied Petroleum Gas<br>(trillion Btu) |      | Liquefied Petroleum Gas<br>(billion gallons) |  | RSE Row Factors |
|---|---|-------|-------------------------------|-------|-------------------------------------|-------|----------------------------|-----|-------------------------------|-----|---|------|--|--|-----------------|
|   | 0.5   | 0.5   | 0.5                           | 0.8   | 0.8                                 | 0.7   | 0.7                        | 2.3 | 2.3                           | 2.1 | 2.1                                       |      |  |  |                 |
| New England Division .....                  | 517.6   | 103.9 | 30.5                          | 155.5 | 150                                 | 243.6 | 1.77                       | 6.8 | 0.05                          | 7.7 | 0.08                                      | 12.7 |  |  |                 |
| <b>Climate Zone<sup>2</sup></b>             |   |       |                               |       |                                     |       |                            |     |                               |     |   |      |  |  |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 515.8   | 103.2 | 30.2                          | 155.5 | 150                                 | 242.5 | 1.76                       | 6.8 | .05                           | 7.7 | .08                                       | 12.7 |  |  |                 |
| Under 5,500 HDD .....                       | Q   | Q     | Q                             | NC    | NC                                  | Q     | Q                          | NC  | NC                            | NC  | NC  | NC   |  |  |                 |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC  | NC    | NC                            | NC    | NC                                  | NC    | NC                         | NC  | NC                            | NC  | NC  | NC   |  |  |                 |
| <b>Type of Housing Unit</b>                 |   |       |                               |       |                                     |       |                            |     |                               |     |   |      |  |  |                 |
| Single-Family .....                         | 335.5   | 71.1  | 20.8                          | 67.3  | 65                                  | 188.1 | 1.36                       | 2.7 | .02                           | 6.2 | .07                                       | 13.8 |  |  |                 |
| Mobile Home .....                           | 13.3  | 3.5   | 1.0                           | NC    | NC                                  | Q     | Q                          | Q   | Q                             | Q   | Q   | 40.2 |  |  |                 |
| Multifamily (2 or more units) .....         | 168.8   | 29.4  | 8.6                           | 88.2  | 85                                  | 50.7  | .37                        | NC  | NC                            | Q   | Q   | 23.2 |  |  |                 |
| <b>Heated Floorspace (square feet)</b>      |   |       |                               |       |                                     |       |                            |     |                               |     |   |      |  |  |                 |
| Fewer than 1,000 .....                      | 108.6   | 22.7  | 6.7                           | 44.7  | 43                                  | 35.0  | .26                        | Q   | Q                             | Q   | Q   | 13.3 |  |  |                 |
| 1,000 to 1,999 .....                        | 190.1   | 40.0  | 11.7                          | 67.0  | 65                                  | 77.7  | .56                        | Q   | Q                             | Q   | Q   | 22.6 |  |  |                 |
| 2,000 or More .....                         | 218.9   | 41.2  | 12.1                          | 43.9  | 42                                  | 130.9 | .95                        | Q   | Q                             | Q   | .03                                       | 16.8 |  |  |                 |
| <b>Ownership of Unit</b>                    |   |       |                               |       |                                     |       |                            |     |                               |     |   |      |  |  |                 |
| Owned .....                                 | 367.0   | 74.3  | 21.8                          | 86.4  | 83                                  | 194.2 | 1.41                       | Q   | Q                             | Q   | 7.2                                       | .08  | 16.2   |  |                 |
| Rented .....                                | 150.6   | 29.7  | 8.7                           | 69.1  | 67                                  | 49.4  | .36                        | Q   | Q                             | Q   | Q   | Q    | 17.8   |  |                 |
| <b>Year of Construction</b>                 |   |       |                               |       |                                     |       |                            |     |                               |     |   |      |  |  |                 |
| 1949 or Before .....                        | 257.8   | 37.8  | 11.1                          | 82.6  | 80                                  | 131.8 | .96                        | Q   | Q                             | Q   | Q   | Q    | 21.9   |  |                 |
| 1950 to 1979 .....                          | 211.1   | 49.2  | 14.4                          | 58.3  | 56                                  | 97.2  | .70                        | 4.6 | .03                           | 1.7 | .02                                       | 22.3 |  |  |                 |
| 1980 or After <sup>3</sup> .....            | 48.7  | 16.9  | 5.0                           | 14.6  | 14                                  | 14.6  | .11                        | Q   | Q                             | Q   | Q   | 47.2 |  |  |                 |
| <b>1990 Family Income</b>                   |   |       |                               |       |                                     |       |                            |     |                               |     |   |      |  |  |                 |
| Less than \$10,000 .....                    | 73.4  | 11.8  | 3.5                           | 24.0  | 23                                  | 36.2  | .26                        | Q   | Q                             | Q   | Q   | 22.6 |  |  |                 |
| \$10,000 to \$19,999 .....                  | 84.2  | 13.7  | 4.0                           | 35.4  | 34                                  | 32.6  | .24                        | Q   | Q                             | Q   | Q   | 25.0 |  |  |                 |
| \$20,000 to \$34,999 .....                  | 115.9   | 24.1  | 7.1                           | 29.5  | 28                                  | 54.8  | .40                        | Q   | Q                             | Q   | Q   | 23.2 |  |  |                 |
| \$35,000 or More .....                      | 244.1   | 54.4  | 15.9                          | 66.6  | 64                                  | 120.0 | .87                        | Q   | Q                             | Q   | .03                                       | 17.7 |  |  |                 |
| <b>Below Poverty Line</b>                   |   |       |                               |       |                                     |       |                            |     |                               |     |   |      |  |  |                 |
| 100 Percent .....                           | 60.6  | 10.1  | 2.9                           | 27.3  | 26                                  | 21.9  | .16                        | Q   | Q                             | Q   | Q   | 23.9 |  |  |                 |
| 125 Percent .....                           | 76.7  | 13.8  | 4.0                           | 29.7  | 29                                  | 31.5  | .23                        | Q   | Q                             | Q   | Q   | 22.2 |  |  |                 |
| <b>Age of Householder</b>                   |   |       |                               |       |                                     |       |                            |     |                               |     |   |      |  |  |                 |
| Under 35 Years .....                        | 130.2   | 27.3  | 8.0                           | 51.7  | 50                                  | 47.2  | .34                        | Q   | Q                             | Q   | Q   | 17.6 |  |  |                 |
| 35 to 59 Years .....                        | 225.9   | 49.0  | 14.4                          | 62.2  | 60                                  | 107.3 | .78                        | 3.5 | .03                           | 3.8 | .04                                       | 16.6 |  |  |                 |
| 60 Years and Over .....                     | 161.5   | 27.6  | 8.1                           | 41.6  | 40                                  | 89.1  | .65                        | Q   | Q                             | 1.6 | .02                                       | 23.5 |  |  |                 |
| <b>Household Size</b>                       |   |       |                               |       |                                     |       |                            |     |                               |     |   |      |  |  |                 |
| 1 Person .....                              | 100.9   | 21.5  | 6.3                           | 20.7  | 20                                  | 57.6  | .42                        | NC  | NC                            | Q   | Q   | 22.3 |  |  |                 |
| 2 to 4 Persons .....                        | 369.0   | 72.9  | 21.4                          | 118.6 | 115                                 | 165.5 | 1.20                       | 6.3 | .05                           | 5.8 | .06                                       | 13.9 |  |  |                 |
| 5 or More Persons .....                     | 47.7  | 9.5   | 2.8                           | 16.2  | 16                                  | 20.5  | .15                        | Q   | Q                             | Q   | Q   | 28.9 |  |  |                 |

See footnotes at end of table.

**NORTHEAST**



Table 2. Total Consumption in Northeast Region Households, 1990 (Continued)

| Characteristics   | Major Energy Sources <sup>1</sup> |                | Electricity    |               | Natural Gas    |                      | Fuel Oil       |                   | Kerosene       |                   | Liquefied Petroleum Gas |                   | RSE Row Factors |
|---|-----------------------------------|----------------|----------------|---------------|----------------|----------------------|----------------|-------------------|----------------|-------------------|-------------------------|-------------------|-----------------|
|   | (trillion Btu)                    | (trillion Btu) | (trillion Btu) | (billion kWh) | (trillion Btu) | (billion cubic feet) | (trillion Btu) | (billion gallons) | (trillion Btu) | (billion gallons) | (trillion Btu)          | (billion gallons) |                 |
|   |                                   |                |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| RSE Column Factors:                                       | 0.5                               | 0.5            | 0.5            | 0.5           | 0.8            | 0.8                  | 0.7            | 0.7               | 2.3            | 2.3               | 2.1                     | 2.1               |                 |
| <b>Middle Atlantic Division</b>                           | 1,780.5                           | 363.2          | 106.4          | 877.9         | 849            | 513.1                | 3.73           | Q                 | Q              | 12.5              | 0.14                    | 10.5              |                 |
| <b>Climate Zone<sup>2</sup></b>                           |                                   |                |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 2,000 CDD and Over 5,500 HDD                        | 986.6                             | 218.7          | 64.1           | 476.1         | 460            | 267.4                | 1.94           | Q                 | Q              | 12.5              | .14                     | 18.1              |                 |
| Under 5,500 HDD and 2,000 CDD or More and Under 4,000 HDD | 793.9                             | 144.5          | 42.4           | 401.9         | 389            | 245.7                | 1.80           | 1.9               | 0.01           | Q                 | Q                       | 19.1              |                 |
|   | NC                                | NC             | NC             | NC            | NC             | NC                   | NC             | NC                | NC             | NC                | NC                      | NC                | NC              |
| <b>Type of Housing Unit</b>                               |                                   |                |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Single-Family   | 1,297.1                           | 282.9          | 82.9           | 632.1         | 611            | 370.0                | 2.68           | 4.7               | .03            | Q                 | Q                       | 14.7              |                 |
| Mobile Home   | Q                                 | Q              | Q              | Q             | Q              | Q                    | Q              | Q                 | Q              | Q                 | Q                       | 100.0             |                 |
| Multifamily (2 or more units)                             | 452.9                             | 69.0           | 20.2           | 243.6         | 236            | 137.1                | 1.01           | Q                 | Q              | Q                 | Q                       | 15.9              |                 |
| <b>Heated Floorspace (square feet)</b>                    |                                   |                |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Fewer than 1,000  | 277.3                             | 52.5           | 15.4           | 131.1         | 127            | 83.6                 | .62            | Q                 | Q              | Q                 | Q                       | 24.0              |                 |
| 1,000 to 1,999  | 626.0                             | 129.5          | 37.9           | 330.1         | 319            | 154.1                | 1.12           | 5.2               | .04            | Q                 | Q                       | 17.1              |                 |
| 2,000 or More   | 877.1                             | 181.2          | 53.1           | 416.7         | 403            | 275.4                | 2.00           | 1.4               | .01            | Q                 | Q                       | 19.3              |                 |
| <b>Ownership of Unit</b>                                  |                                   |                |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Owned   | 1,386.1                           | 295.5          | 86.6           | 663.6         | 642            | 404.8                | 2.93           | Q                 | Q              | Q                 | Q                       | 12.6              |                 |
| Rented  | 394.4                             | 67.7           | 19.8           | 214.4         | 208            | 108.2                | .80            | Q                 | Q              | Q                 | Q                       | 17.7              |                 |
| <b>Year of Construction</b>                               |                                   |                |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 1949 or Before  | 872.3                             | 137.4          | 40.3           | 494.4         | 478            | 232.7                | 1.70           | 4.3               | .03            | Q                 | Q                       | 3.5               |                 |
| 1950 to 1979  | 834.6                             | 183.2          | 53.7           | 366.9         | 355            | 271.3                | 1.97           | Q                 | Q              | Q                 | Q                       | 18.0              |                 |
| 1980 or After <sup>3</sup>                                | 73.6                              | 42.5           | 12.5           | Q             | Q              | Q                    | Q              | Q                 | Q              | Q                 | Q                       | 50.1              |                 |
| <b>1990 Family Income</b>                                 |                                   |                |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Less than \$10,000  | 199.4                             | 26.4           | 7.7            | 108.1         | 104            | 61.5                 | .45            | Q                 | Q              | Q                 | Q                       | 24.4              |                 |
| \$10,000 to \$19,999                                      | 264.5                             | 43.9           | 12.9           | 145.7         | 141            | 68.8                 | .50            | 5.1               | .04            | Q                 | Q                       | 24.0              |                 |
| \$20,000 to \$34,999                                      | 374.7                             | 87.4           | 25.6           | 163.3         | 158            | 115.1                | .84            | Q                 | Q              | Q                 | Q                       | 19.7              |                 |
| \$35,000 or More  | 941.9                             | 205.4          | 60.2           | 460.8         | 446            | 267.7                | 1.94           | 1.7               | .01            | Q                 | Q                       | 17.9              |                 |
| <b>Below Poverty Line</b>                                 |                                   |                |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 100 Percent   | 163.5                             | 21.8           | 6.4            | 92.9          | 90             | 45.2                 | .33            | Q                 | Q              | Q                 | Q                       | 32.7              |                 |
| 125 Percent   | 232.8                             | 33.8           | 9.9            | 127.1         | 123            | 66.5                 | .49            | Q                 | Q              | Q                 | Q                       | 23.0              |                 |
| <b>Age of Householder</b>                                 |                                   |                |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 35 Years  | 433.3                             | 90.7           | 26.6           | 204.6         | 198            | 125.1                | .91            | Q                 | Q              | Q                 | Q                       | 20.0              |                 |
| 35 to 59 Years  | 835.9                             | 191.2          | 56.0           | 414.5         | 401            | 221.4                | 1.61           | 4.3               | .03            | Q                 | Q                       | 16.2              |                 |
| 60 Years and Over   | 511.3                             | 81.3           | 23.8           | 258.8         | 251            | 166.5                | 1.21           | Q                 | Q              | Q                 | Q                       | 11.5              |                 |
| <b>Household Size</b>                                     |                                   |                |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 1 Person  | 270.4                             | 47.7           | 14.0           | 131.1         | 127            | 90.2                 | .66            | Q                 | Q              | Q                 | Q                       | 18.6              |                 |
| 2 to 4 Persons  | 1,231.6                           | 250.1          | 73.3           | 620.7         | 601            | 341.1                | 2.48           | Q                 | Q              | Q                 | Q                       | 10.6              |                 |
| 5 or More Persons   | 278.6                             | 65.4           | 19.2           | 126.1         | 122            | 81.8                 | .59            | Q                 | Q              | Q                 | Q                       | 22.8              |                 |

<sup>1</sup> Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>3</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 3. Total Expenditures in Northeast Region Households, 1990**  
(Billion Dollars)

| Characteristics                             | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|   | 0.5                               | 0.5         | 0.9         | 0.8      | 2.5      | 2.2                     |                 |
| Northeast Region                            |                                   |             |             |          |          |                         |                 |
| <b>Total Region</b> .....                   | 28.28                             | 14.55       | 7.32        | 5.92     | 0.19     | 0.29                    | 8.2             |
| <b>Climate Zone<sup>2</sup></b>             |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 17.97                             | 9.30        | 4.19        | 4.02     | .18      | .29                     | 11.3            |
| Under 5,500 HDD .....                       | 10.30                             | 5.24        | 3.13        | 1.91     | .02      | Q                       | 17.3            |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                                | NC          | NC          | NC       | NC       | NC                      | NC              |
| <b>Type of Housing Unit</b>                 |                                   |             |             |          |          |                         |                 |
| Single-Family .....                         | 20.25                             | 10.79       | 4.70        | 4.48     | .07      | .20                     | 10.7            |
| Mobile Home .....                           | .62                               | .35         | Q           | Q        | Q        | .07                     | 46.0            |
| Multifamily (2 or more units) .....         | 7.40                              | 3.40        | 2.61        | 1.35     | Q        | Q                       | 11.3            |
| <b>Heated Floorspace (square feet)</b>      |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                      | 4.82                              | 2.42        | 1.35        | .87      | Q        | .08                     | 15.3            |
| 1,000 to 1,999 .....                        | 10.01                             | 5.12        | 2.84        | 1.84     | .08      | .13                     | 12.3            |
| 2,000 or More .....                         | 13.44                             | 7.00        | 3.14        | 3.21     | .01      | .08                     | 14.7            |
| <b>Ownership of Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Owned .....                                 | 21.75                             | 11.40       | 5.17        | 4.77     | .14      | .27                     | 10.4            |
| Rented .....                                | 6.52                              | 3.15        | 2.15        | 1.15     | Q        | Q                       | 11.7            |
| <b>Year of Construction</b>                 |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                        | 12.89                             | 5.70        | 4.18        | 2.83     | .04      | .15                     | 12.2            |
| 1950 to 1979 .....                          | 13.28                             | 7.25        | 2.91        | 2.91     | Q        | .07                     | 13.6            |
| 1980 or After <sup>3</sup> .....            | 2.11                              | 1.60        | .23         | .19      | Q        | .07                     | 28.9            |
| <b>1990 Family Income</b>                   |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                    | 3.00                              | 1.23        | .99         | .73      | Q        | Q                       | 18.7            |
| \$10,000 to \$19,999 .....                  | 3.94                              | 1.79        | 1.30        | .77      | .07      | Q                       | 18.2            |
| \$20,000 to \$34,999 .....                  | 6.23                              | 3.34        | 1.39        | 1.32     | .07      | .13                     | 15.2            |
| \$35,000 or More .....                      | 15.10                             | 8.20        | 3.65        | 3.11     | .02      | .13                     | 13.2            |
| <b>Below Poverty Line</b>                   |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                           | 2.51                              | 1.05        | .90         | .50      | Q        | Q                       | 22.5            |
| 125 Percent .....                           | 3.49                              | 1.53        | 1.16        | .73      | Q        | Q                       | 15.9            |
| <b>Age of Householder</b>                   |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                        | 7.12                              | 3.73        | 1.86        | 1.33     | Q        | .12                     | 15.4            |
| 35 to 59 Years .....                        | 13.52                             | 7.41        | 3.32        | 2.61     | .07      | .11                     | 12.1            |
| 60 Years and Over .....                     | 7.63                              | 3.40        | 2.15        | 1.99     | Q        | .06                     | 10.1            |
| <b>Household Size</b>                       |                                   |             |             |          |          |                         |                 |
| 1 Person .....                              | 4.40                              | 2.13        | 1.12        | 1.12     | Q        | .03                     | 13.3            |
| 2 to 4 Persons .....                        | 19.61                             | 10.07       | 5.21        | 3.97     | .17      | .20                     | 8.5             |
| 5 or More Persons .....                     | 4.27                              | 2.35        | 1.00        | .84      | Q        | Q                       | 18.6            |

See footnotes at end of table.

**NORTHEAST**

ENERGY CONSUMPTION AND EXPENDITURES

NORTHEAST

Table 3. Total Expenditures in Northeast Region Households, 1990 (Continued)  
(Billion Dollars)

| Characteristics                             | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|   | RSE Column Factors:               | 0.5         | 0.9         | 0.8      | 2.5      | 2.2                     |                 |
| <b>New England Division</b> .....           | 6.40                              | 3.08        | 1.21        | 1.92     | 0.07     | 0.12                    | 11.8            |
| <b>Climate Zone<sup>2</sup></b>             |                                   |             |             |          |          |                         |                 |
| Under 2,000 HDD and Over 5,500 HDD .....    | 6.37                              | 3.06        | 1.21        | 1.91     | .07      | .12                     | 11.8            |
| Under 5,500 HDD .....                       | Q                                 | Q           | NC          | Q        | NC       | NC                      | NF              |
| 2,000 HDD or More and Under 4,000 HDD ..... | NC                                | NC          | NC          | NC       | NC       | NC                      | NC              |
| <b>Type of Housing Unit</b>                 |                                   |             |             |          |          |                         |                 |
| Single-Family .....                         | 4.21                              | 2.08        | .52         | 1.47     | .03      | .10                     | 12.9            |
| Mobile Home .....                           | .21                               | .11         | NC          | Q        | Q        | Q                       | 40.2            |
| Multifamily (2 or more units) .....         | 1.98                              | .88         | .69         | .40      | NC       | Q                       | 21.8            |
| <b>Heated Floorspace (square feet)</b>      |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                      | 1.40                              | .69         | .35         | .28      | Q        | Q                       | 12.0            |
| 1,000 to 1,999 .....                        | 2.36                              | 1.16        | .52         | .62      | Q        | Q                       | 21.1            |
| 2,000 or More .....                         | 2.63                              | 1.22        | .34         | 1.02     | Q        | .04                     | 15.6            |
| <b>Ownership of Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Owned .....                                 | 4.55                              | 2.20        | .66         | 1.53     | Q        | .11                     | 15.6            |
| Rented .....                                | 1.85                              | .88         | .55         | .39      | Q        | Q                       | 16.6            |
| <b>Year of Construction</b>                 |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                        | 2.89                              | 1.12        | .65         | 1.04     | Q        | Q                       | 19.3            |
| 1950 to 1979 .....                          | 2.77                              | 1.49        | .44         | .76      | .05      | .03                     | 21.2            |
| 1980 or After <sup>3</sup> .....            | .74                               | .48         | .12         | .12      | Q        | Q                       | 44.6            |
| <b>1990 Family Income</b>                   |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                    | .83                               | .35         | .18         | .29      | Q        | Q                       | 21.0            |
| \$10,000 to \$19,999 .....                  | .98                               | .42         | .29         | .25      | Q        | Q                       | 23.7            |
| \$20,000 to \$34,999 .....                  | 1.49                              | .73         | .24         | .43      | Q        | Q                       | 21.7            |
| \$35,000 or More .....                      | 3.09                              | 1.58        | .50         | .95      | Q        | .04                     | 17.5            |
| <b>Below Poverty Line</b>                   |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                           | .70                               | .30         | .21         | .18      | Q        | Q                       | 21.7            |
| 125 Percent .....                           | .91                               | .41         | .23         | .25      | Q        | Q                       | 20.6            |
| <b>Age of Householder</b>                   |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                        | 1.63                              | .81         | .39         | .37      | Q        | Q                       | 16.4            |
| 35 to 59 Years .....                        | 2.89                              | 1.46        | .49         | .85      | .03      | .06                     | 16.0            |
| 60 Years and Over .....                     | 1.88                              | .81         | .33         | .70      | Q        | .03                     | 21.2            |
| <b>Household Size</b>                       |                                   |             |             |          |          |                         |                 |
| 1 Person .....                              | 1.27                              | .64         | .17         | .45      | NC       | Q                       | 21.0            |
| 2 to 4 Persons .....                        | 4.53                              | 2.16        | .91         | 1.30     | .06      | .09                     | 12.7            |
| 5 or More Persons .....                     | .59                               | .28         | .13         | .16      | Q        | Q                       | 28.7            |

See footnotes at end of table.

**Table 3. Total Expenditures in Northeast Region Households, 1990 (Continued)**  
(Billion Dollars)

| Characteristics                             | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|   | 0.5                               | 0.5         | 0.9         | 0.8      | 2.5      | 2.2                     |                 |
| Middle Atlantic Division .....              | 21.88                             | 11.47       | 6.11        | 4.00     | Q        | 0.16                    | 9.1             |
| <b>Climate Zone<sup>2</sup></b>             |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 11.61                             | 6.25        | 2.98        | 2.11     | Q        | .16                     | 15.8            |
| Under 5,500 HDD and 2,000 CDD or More ..... | 10.27                             | 5.22        | 3.13        | 1.90     | 0.02     | Q                       | 17.3            |
| Under 4,000 HDD .....                       | NC                                | NC          | NC          | NC       | NC       | NC                      | NC              |
| <b>Type of Housing Unit</b>                 |                                   |             |             |          |          |                         |                 |
| Single-Family .....                         | 16.04                             | 8.71        | 4.18        | 3.01     | .04      | .10                     | 12.9            |
| Mobile Home .....                           | Q                                 | Q           | Q           | Q        | Q        | Q                       | NP              |
| Multifamily (2 or more units) .....         | 5.42                              | 2.52        | 1.93        | .94      | Q        | Q                       | 14.8            |
| <b>Heated Floorspace (square feet)</b>      |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                      | 3.42                              | 1.73        | 1.00        | .59      | Q        | Q                       | 21.9            |
| 1,000 to 1,999 .....                        | 7.65                              | 3.97        | 2.32        | 1.23     | .05      | .09                     | 15.7            |
| 2,000 or More .....                         | 10.81                             | 5.78        | 2.79        | 2.19     | .01      | Q                       | 18.8            |
| <b>Ownership of Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Owned .....                                 | 17.21                             | 9.20        | 4.51        | 3.24     | Q        | .16                     | 11.1            |
| Rented .....                                | 4.67                              | 2.27        | 1.60        | .76      | Q        | Q                       | 16.2            |
| <b>Year of Construction</b>                 |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                        | 10.00                             | 4.58        | 3.53        | 1.79     | .04      | .06                     | 14.3            |
| 1950 to 1979 .....                          | 10.51                             | 5.77        | 2.47        | 2.14     | Q        | .04                     | 17.0            |
| 1980 or After <sup>3</sup> .....            | 1.37                              | 1.12        | Q           | Q        | Q        | Q                       | 45.4            |
| <b>1990 Family Income</b>                   |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                    | 2.17                              | .88         | .81         | .45      | Q        | Q                       | 29.3            |
| \$10,000 to \$19,999 .....                  | 2.96                              | 1.37        | 1.01        | .52      | .05      | Q                       | 23.2            |
| \$20,000 to \$34,999 .....                  | 4.74                              | 2.61        | 1.15        | .89      | .06      | .06                     | 18.8            |
| \$35,000 or More .....                      | 12.01                             | 6.61        | 3.15        | 2.16     | .02      | .08                     | 16.3            |
| <b>Below Poverty Line</b>                   |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                           | 1.80                              | .75         | .69         | .32      | Q        | Q                       | 30.3            |
| 125 Percent .....                           | 2.58                              | 1.11        | .94         | .48      | Q        | Q                       | 19.9            |
| <b>Age of Householder</b>                   |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                        | 5.49                              | 2.92        | 1.47        | .96      | Q        | .08                     | 19.9            |
| 35 to 59 Years .....                        | 10.63                             | 5.96        | 2.83        | 1.76     | .04      | Q                       | 14.0            |
| 60 Years and Over .....                     | 5.76                              | 2.59        | 1.81        | 1.29     | Q        | Q                       | 10.6            |
| <b>Household Size</b>                       |                                   |             |             |          |          |                         |                 |
| 1 Person .....                              | 3.13                              | 1.50        | .95         | .66      | Q        | Q                       | 15.0            |
| 2 to 4 Persons .....                        | 15.08                             | 7.91        | 4.29        | 2.67     | Q        | .10                     | 8.3             |
| 5 or More Persons .....                     | 3.68                              | 2.06        | .87         | .67      | Q        | Q                       | 21.6            |

1 Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.  
2 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

3 Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NP = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 4. Electricity Consumption and Expenditures in Northeast Region Households, 1990

| Characteristics                             | Households Using Electricity (million) | Average per Household |        |                        |                          | RSE Row Factors |                              |
|---|--|-----------------------|--------|------------------------|--------------------------|-----------------|------------------------------|
|   |  | Consumption           |        | Expenditures (dollars) | Floorspace (square feet) |                 | Expenditures (cents per kWh) |
|   |  | (million Btu)         | (kWh)  |                        |                          |                 |                              |
| RSE Column Factors:                         | 1.5                                    | 1.1                   | 1.1    | 1.0                    | 1.2                      | 0.5             |                              |
| Northeast Region                            |  |                       |        |                        |                          |                 |                              |
| Total Region .....                          | 19.2                                   | 24.3                  | 7,122  | 757                    | 2,099                    | 10.6            |                              |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |        |                        |                          |                 |                              |
| Under 2,000 CDD and Over 5,500 HDD .....    | 12.3                                   | 26.1                  | 7,650  | 755                    | 2,244                    | 9.9             |                              |
| Under 5,500 HDD and 2,000 CDD or More ..... | 6.9                                    | 21.1                  | 6,178  | 761                    | 1,839                    | 12.3            |                              |
| Under 4,000 HDD .....                       | NC                                     | NC                    | NC     | NC                     | NC                       | NC              |                              |
| <b>Type of Housing Unit</b>                 |  |                       |        |                        |                          |                 |                              |
| Single-Family .....                         | 11.9                                   | 29.8                  | 8,742  | 910                    | 2,724                    | 10.4            |                              |
| Mobile Home .....                           | 5                                      | 28.0                  | 8,197  | 665                    | 924                      | 8.1             |                              |
| Multifamily ( 2 or more units) ..           | 6.8                                    | 14.4                  | 4,224  | 498                    | 1,103                    | 11.8            |                              |
| <b>Heated Floorspace (square feet)</b>      |  |                       |        |                        |                          |                 |                              |
| Fewer than 1,000 .....                      | 5.1                                    | 14.7                  | 4,317  | 475                    | 741                      | 11.0            |                              |
| 1,000 to 1,999 .....                        | 7.1                                    | 24.0                  | 7,021  | 724                    | 1,844                    | 10.3            |                              |
| 2,000 or More .....                         | 7.0                                    | 31.6                  | 9,255  | 994                    | 3,339                    | 10.7            |                              |
| <b>Ownership of Unit</b>                    |  |                       |        |                        |                          |                 |                              |
| Owned .....                                 | 13.0                                   | 28.4                  | 8,314  | 874                    | 2,574                    | 10.5            |                              |
| Rented .....                                | 6.2                                    | 15.7                  | 4,611  | 510                    | 1,097                    | 11.1            |                              |
| <b>Year of Construction</b>                 |  |                       |        |                        |                          |                 |                              |
| 1949 or Before .....                        | 8.9                                    | 19.8                  | 5,801  | 644                    | 2,006                    | 11.1            |                              |
| 1950 to 1979 .....                          | 8.8                                    | 26.5                  | 7,767  | 827                    | 2,186                    | 10.6            |                              |
| 1980 or After <sup>2</sup> .....            | 1.6                                    | 37.2                  | 10,889 | 997                    | 2,131                    | 9.2             |                              |
| <b>1990 Family Income</b>                   |  |                       |        |                        |                          |                 |                              |
| Less than \$10,000 .....                    | 2.9                                    | 13.3                  | 3,901  | 428                    | 1,338                    | 11.0            |                              |
| \$10,000 to \$19,999 .....                  | 3.4                                    | 17.2                  | 5,039  | 533                    | 1,605                    | 10.6            |                              |
| \$20,000 to \$34,999 .....                  | 4.5                                    | 24.6                  | 7,196  | 735                    | 1,941                    | 10.2            |                              |
| \$35,000 or More .....                      | 8.5                                    | 30.7                  | 9,001  | 969                    | 2,637                    | 10.8            |                              |
| <b>Below Poverty Line</b>                   |  |                       |        |                        |                          |                 |                              |
| 100 Percent .....                           | 2.2                                    | 14.4                  | 4,206  | 473                    | 1,334                    | 11.3            |                              |
| 125 Percent .....                           | 3.0                                    | 15.8                  | 4,617  | 506                    | 1,438                    | 11.0            |                              |
| <b>Age of Householder</b>                   |  |                       |        |                        |                          |                 |                              |
| Under 35 Years .....                        | 5.3                                    | 22.4                  | 6,563  | 709                    | 1,549                    | 10.8            |                              |
| 35 to 59 Years .....                        | 8.3                                    | 28.9                  | 8,471  | 892                    | 2,396                    | 10.5            |                              |
| 60 Years and Over .....                     | 5.6                                    | 19.3                  | 5,658  | 603                    | 2,175                    | 10.7            |                              |
| <b>Household Size</b>                       |  |                       |        |                        |                          |                 |                              |
| 1 Person .....                              | 4.5                                    | 15.2                  | 4,460  | 469                    | 1,417                    | 10.5            |                              |
| 2 to 4 Persons .....                        | 12.5                                   | 25.8                  | 7,569  | 805                    | 2,257                    | 10.6            |                              |
| 5 or More Persons .....                     | 2.2                                    | 34.6                  | 10,130 | 1083                   | 2,614                    | 10.7            |                              |

See footnotes at end of table.

**ENERGY CONSUMPTION AND EXPENDITURES**

**Table 4. Electricity Consumption and Expenditures in Northeast Region Households, 1990 (Continued)**

| Characteristics                             | Households Using Electricity (million) | Average per Household     |       |                        | Expenditures (cents per kWh) | RSE Row Factors |
|---|--|---------------------------|-------|------------------------|------------------------------|-----------------|
|   |  | Consumption (million Btu) | (kWh) | Expenditures (dollars) |                              |                 |
| RSE Column Factors:                         | 1.5                                    | 1.1                       | 1.1   | 1.0                    | 1.2                          | 0.5             |
| <b>New England Division</b> .....           | 4.5                                    | 22.9                      | 6,704 | 677                    | 2,046                        | 10.1            |
| <b>Climate Zone<sup>1</sup></b>             |  |                           |       |                        |                              |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 4.5                                    | 22.8                      | 6,679 | 675                    | 2,036                        | 10.1            |
| Under 5,500 HDD .....                       | Q                                      | Q                         | Q     | Q                      | Q                            | Q               |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                                     | NC                        | NC    | NC                     | NC                           | NC              |
| <b>Type of Housing Unit</b>                 |  |                           |       |                        |                              |                 |
| Single-Family .....                         | 2.5                                    | 28.1                      | 8,228 | 823                    | 2,833                        | 10.0            |
| Mobile Home .....                           | 2                                      | 22.9                      | 6,700 | 722                    | 969                          | 10.8            |
| Multifamily ( 2 or more units) ..           | 1.9                                    | 15.8                      | 4,628 | 475                    | 1,061                        | 10.3            |
| <b>Heated Floorspace (square feet)</b>      |  |                           |       |                        |                              |                 |
| Fewer than 1,000 .....                      | 1.4                                    | 15.7                      | 4,600 | 480                    | 776                          | 10.4            |
| 1,000 to 1,999 .....                        | 1.6                                    | 24.4                      | 7,162 | 708                    | 1,973                        | 9.9             |
| 2,000 or More .....                         | 1.5                                    | 28.2                      | 8,273 | 838                    | 3,364                        | 10.1            |
| <b>Ownership of Unit</b>                    |  |                           |       |                        |                              |                 |
| Owned .....                                 | 2.9                                    | 25.8                      | 7,560 | 763                    | 2,624                        | 10.1            |
| Rented .....                                | 1.7                                    | 17.8                      | 5,223 | 529                    | 1,044                        | 10.1            |
| <b>Year of Construction</b>                 |  |                           |       |                        |                              |                 |
| 1949 or Before .....                        | 2.1                                    | 18.1                      | 5,309 | 535                    | 1,882                        | 10.1            |
| 1950 to 1979 .....                          | 1.9                                    | 25.8                      | 7,565 | 778                    | 2,189                        | 10.3            |
| 1980 or After <sup>2</sup> .....            | .6                                     | 30.7                      | 8,999 | 863                    | 2,167                        | 9.6             |
| <b>1990 Family Income</b>                   |  |                           |       |                        |                              |                 |
| Less than \$10,000 .....                    | .8                                     | 15.2                      | 4,451 | 451                    | 1,370                        | 10.1            |
| \$10,000 to \$19,999 .....                  | .8                                     | 17.8                      | 5,217 | 541                    | 1,618                        | 10.4            |
| \$20,000 to \$34,999 .....                  | 1.1                                    | 21.3                      | 6,236 | 643                    | 1,857                        | 10.3            |
| \$35,000 or More .....                      | 1.9                                    | 29.1                      | 8,541 | 848                    | 2,618                        | 9.9             |
| <b>Below Poverty Line</b>                   |  |                           |       |                        |                              |                 |
| 100 Percent .....                           | .6                                     | 17.2                      | 5,048 | 517                    | 1,153                        | 10.2            |
| 125 Percent .....                           | .8                                     | 17.4                      | 5,090 | 522                    | 1,286                        | 10.2            |
| <b>Age of Householder</b>                   |  |                           |       |                        |                              |                 |
| Under 35 Years .....                        | 1.3                                    | 21.8                      | 6,384 | 650                    | 1,445                        | 10.2            |
| 35 to 59 Years .....                        | 1.9                                    | 26.2                      | 7,688 | 779                    | 2,207                        | 10.1            |
| 60 Years and Over .....                     | 1.4                                    | 19.4                      | 5,693 | 568                    | 2,361                        | 10.0            |
| <b>Household Size</b>                       |  |                           |       |                        |                              |                 |
| 1 Person .....                              | 1.2                                    | 17.6                      | 5,150 | 520                    | 1,610                        | 10.1            |
| 2 to 4 Persons .....                        | 3.0                                    | 24.6                      | 7,215 | 729                    | 2,217                        | 10.1            |
| 5 or More Persons .....                     | .4                                     | 26.6                      | 7,784 | 786                    | 2,119                        | 10.1            |

See footnotes at end of table.

**NORTHEAST**

Table 4. Electricity Consumption and Expenditures in Northeast Region Households, 1990 (Continued)

| Characteristics                             | Households Using Electricity (million) | Average per Household |        |                        |                          |                              | RSE Row Factors |
|---|--|-----------------------|--------|------------------------|--------------------------|------------------------------|-----------------|
|   |  | Consumption           |        | Expenditures (dollars) | Floorspace (square feet) | Expenditures (cents per kWh) |                 |
|   |  | (million Btu)         | (kWh)  |                        |                          |                              |                 |
| RSE Column Factors:                         | 1.5                                    | 1.1                   | 1.1    | 1.0                    | 1.2                      | 0.5                          |                 |
| <b>Middle Atlantic Division</b> .....       | 14.7                                   | 24.7                  | 7,252  | 782                    | 2,115                    | 10.8                         | 3.0             |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |        |                        |                          |                              |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 7.8                                    | 28.0                  | 8,214  | 801                    | 2,365                    | 9.8                          | 5.2             |
| Under 5,500 HDD .....                       | 6.9                                    | 21.0                  | 6,160  | 760                    | 1,832                    | 12.3                         | 7.2             |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                                     | NC                    | NC     | NC                     | NC                       | NC                           | NC              |
| <b>Type of Housing Unit</b>                 |  |                       |        |                        |                          |                              |                 |
| Single-Family .....                         | 9.3                                    | 30.3                  | 8,881  | 933                    | 2,694                    | 10.5                         | 3.5             |
| Mobile Home .....                           | Q                                      | 30.0                  | 8,801  | 643                    | 906                      | 7.3                          | 21.2            |
| Multifamily ( 2 or more units) .....        | 5.0                                    | 13.9                  | 4,073  | 507                    | 1,119                    | 12.5                         | 5.3             |
| <b>Heated Floorspace (square feet)</b>      |  |                       |        |                        |                          |                              |                 |
| Fewer than 1,000 .....                      | 3.7                                    | 14.4                  | 4,206  | 473                    | 727                      | 11.2                         | 6.5             |
| 1,000 to 1,999 .....                        | 5.4                                    | 23.8                  | 6,979  | 729                    | 1,805                    | 10.4                         | 4.3             |
| 2,000 or More .....                         | 5.6                                    | 32.5                  | 9,513  | 1035                   | 3,327                    | 10.9                         | 4.8             |
| <b>Ownership of Unit</b>                    |  |                       |        |                        |                          |                              |                 |
| Owned .....                                 | 10.2                                   | 29.1                  | 8,528  | 906                    | 2,560                    | 10.6                         | 3.4             |
| Rented .....                                | 4.5                                    | 15.0                  | 4,386  | 502                    | 1,117                    | 11.5                         | 5.1             |
| <b>Year of Construction</b>                 |  |                       |        |                        |                          |                              |                 |
| 1949 or Before .....                        | 6.8                                    | 20.3                  | 5,953  | 677                    | 2,045                    | 11.4                         | 4.0             |
| 1950 to 1979 .....                          | 6.9                                    | 26.7                  | 7,824  | 841                    | 2,185                    | 10.7                         | 4.7             |
| 1980 or After <sup>2</sup> .....            | 1.0                                    | 40.5                  | 11,882 | 1068                   | 2,112                    | 9.0                          | 7.9             |
| <b>1990 Family Income</b>                   |  |                       |        |                        |                          |                              |                 |
| Less than \$10,000 .....                    | 2.1                                    | 12.6                  | 3,697  | 420                    | 1,326                    | 11.4                         | 7.9             |
| \$10,000 to \$19,999 .....                  | 2.6                                    | 17.0                  | 4,986  | 530                    | 1,601                    | 10.6                         | 6.4             |
| \$20,000 to \$34,999 .....                  | 3.4                                    | 25.6                  | 7,515  | 765                    | 1,969                    | 10.2                         | 5.0             |
| \$35,000 or More .....                      | 6.6                                    | 31.2                  | 9,132  | 1003                   | 2,643                    | 11.0                         | 3.4             |
| <b>Below Poverty Line</b>                   |  |                       |        |                        |                          |                              |                 |
| 100 Percent .....                           | 1.6                                    | 13.3                  | 3,906  | 458                    | 1,398                    | 11.7                         | 8.7             |
| 125 Percent .....                           | 2.2                                    | 15.2                  | 4,449  | 500                    | 1,493                    | 11.2                         | 9.7             |
| <b>Age of Householder</b>                   |  |                       |        |                        |                          |                              |                 |
| Under 35 Years .....                        | 4.0                                    | 22.6                  | 6,618  | 727                    | 1,582                    | 11.0                         | 6.0             |
| 35 to 59 Years .....                        | 6.4                                    | 29.7                  | 8,699  | 925                    | 2,450                    | 10.6                         | 3.9             |
| 60 Years and Over .....                     | 4.2                                    | 19.3                  | 5,646  | 614                    | 2,112                    | 10.9                         | 5.5             |
| <b>Household Size</b>                       |  |                       |        |                        |                          |                              |                 |
| 1 Person .....                              | 3.3                                    | 14.4                  | 4,206  | 451                    | 1,346                    | 10.7                         | 6.5             |
| 2 to 4 Persons .....                        | 9.5                                    | 26.2                  | 7,679  | 828                    | 2,270                    | 10.8                         | 2.7             |
| 5 or More Persons .....                     | 1.8                                    | 36.2                  | 10,596 | 1142                   | 2,713                    | 10.8                         | 7.4             |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 5. Natural Gas Consumption and Expenditures in Northeast Region Households, 1990**

| Characteristics                             | Households Using Natural Gas (million) | Average per Household |               |                        |                          | RSE Row Factors |  |
|---|--|-----------------------|---------------|------------------------|--------------------------|-----------------|--|
|   |  | Consumption           |               | Expenditures (dollars) | Floorspace (square feet) |                 | Expenditures (dollars per thousand cf) |
|   |  | (million Btu)         | (thousand cf) |                        |                          |                 |  |
| RSE Column Factors:                         | 1.9                                    | 1.2                   | 1.2           | 1.0                    | 1.1                      | 0.4             |  |
| Northeast Region                            |  |                       |               |                        |                          |                 |  |
| <b>Total Region</b> .....                   | 11.9                                   | 86.8                  | 84.0          | 615                    | 1,982                    | 7.3             | 4.0                                    |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |               |                        |                          |                 |  |
| Under 2,000 CDD and Over 5,500 HDD .....    | 6.3                                    | 100.0                 | 96.6          | 663                    | 2,199                    | 6.9             | 5.2                                    |
| Under 5,500 HDD and 2,000 CDD or More ..... | 5.6                                    | 71.9                  | 69.7          | 561                    | 1,736                    | 8.0             | 5.3                                    |
| Under 4,000 HDD .....                       | NC                                     | NC                    | NC            | NC                     | NC                       | NC              | NC                                     |
| <b>Type of Housing Unit</b>                 |  |                       |               |                        |                          |                 |  |
| Single-Family .....                         | 6.5                                    | 108.4                 | 104.8         | 729                    | 2,672                    | 7.0             | 4.2                                    |
| Mobile Home .....                           | Q                                      | Q                     | Q             | Q                      | Q                        | Q               | NF                                     |
| Multifamily (2 or more units) ...           | 5.4                                    | 61.1                  | 59.1          | 481                    | 1,165                    | 8.1             | 4.3                                    |
| <b>Heated Floorspace (square feet)</b>      |  |                       |               |                        |                          |                 |  |
| Fewer than 1,000 .....                      | 3.4                                    | 52.2                  | 50.5          | 402                    | 726                      | 7.9             | 5.6                                    |
| 1,000 to 1,999 .....                        | 4.3                                    | 92.4                  | 89.3          | 660                    | 1,699                    | 7.4             | 3.2                                    |
| 2,000 or More .....                         | 4.2                                    | 108.6                 | 105.1         | 740                    | 3,285                    | 7.0             | 5.9                                    |
| <b>Ownership of Unit</b>                    |  |                       |               |                        |                          |                 |  |
| Owned .....                                 | 7.3                                    | 102.3                 | 99.0          | 706                    | 2,524                    | 7.1             | 3.8                                    |
| Rented .....                                | 4.6                                    | 62.0                  | 60.0          | 470                    | 1,113                    | 7.8             | 5.4                                    |
| <b>Year of Construction</b>                 |  |                       |               |                        |                          |                 |  |
| 1949 or Before .....                        | 6.6                                    | 87.5                  | 84.7          | 634                    | 1,877                    | 7.5             | 4.8                                    |
| 1950 to 1979 .....                          | 4.9                                    | 86.9                  | 84.1          | 596                    | 2,071                    | 7.1             | 5.2                                    |
| 1980 or After <sup>2</sup> .....            | .4                                     | 74.4                  | 71.9          | 552                    | 2,598                    | 7.7             | 14.5                                   |
| <b>1990 Family Income</b>                   |  |                       |               |                        |                          |                 |  |
| Less than \$10,000 .....                    | 2.0                                    | 64.9                  | 62.6          | 485                    | 1,285                    | 7.7             | 9.6                                    |
| \$10,000 to \$19,999 .....                  | 2.3                                    | 77.8                  | 75.2          | 557                    | 1,591                    | 7.4             | 6.0                                    |
| \$20,000 to \$34,999 .....                  | 2.4                                    | 79.5                  | 77.0          | 571                    | 1,883                    | 7.4             | 5.5                                    |
| \$35,000 or More .....                      | 5.1                                    | 103.2                 | 99.8          | 715                    | 2,485                    | 7.2             | 4.6                                    |
| <b>Below Poverty Line</b>                   |  |                       |               |                        |                          |                 |  |
| 100 Percent .....                           | 1.7                                    | 70.5                  | 68.0          | 529                    | 1,292                    | 7.8             | 9.5                                    |
| 125 Percent .....                           | 2.2                                    | 72.0                  | 69.5          | 534                    | 1,408                    | 7.7             | 8.1                                    |
| <b>Age of Householder</b>                   |  |                       |               |                        |                          |                 |  |
| Under 35 Years .....                        | 3.4                                    | 75.5                  | 73.1          | 548                    | 1,396                    | 7.5             | 4.7                                    |
| 35 to 59 Years .....                        | 5.0                                    | 94.5                  | 91.4          | 658                    | 2,290                    | 7.2             | 6.0                                    |
| 60 Years and Over .....                     | 3.5                                    | 86.7                  | 83.9          | 619                    | 2,107                    | 7.4             | 4.5                                    |
| <b>Household Size</b>                       |  |                       |               |                        |                          |                 |  |
| 1 Person .....                              | 2.7                                    | 56.5                  | 54.6          | 415                    | 1,211                    | 7.6             | 6.7                                    |
| 2 to 4 Persons .....                        | 7.8                                    | 94.6                  | 91.5          | 666                    | 2,156                    | 7.3             | 3.9                                    |
| 5 or More Persons .....                     | 1.4                                    | 101.8                 | 98.5          | 718                    | 2,492                    | 7.3             | 6.3                                    |

See footnotes at end of table.

**NORTHEAST**

**ENERGY CONSUMPTION AND EXPENDITURES**



Table 5. Natural Gas Consumption and Expenditures in Northeast Region Households, 1990 (Continued)

| Characteristics                             | Households Using Natural Gas (million) | Average per Household |               |                        |                          | Expenditures (dollars per thousand cf) | RSE Flow Factors |
|---|--|-----------------------|---------------|------------------------|--------------------------|--|------------------|
|   |  | Consumption           |               | Expenditures (dollars) | Floorspace (square feet) |  |                  |
|   |  | (million Btu)         | (thousand cf) |                        |                          |  |                  |
| RSE Column Factors:                         | 1.9                                    | 1.2                   | 1.2           | 1.0                    | 1.1                      | 0.4                                    |                  |
| <b>New England Division</b> .....           | 2.0                                    | 76.0                  | 73.4          | 592                    | 1,691                    | 8.1                                    | 6.3              |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |               |                        |                          |  |                  |
| Under 2,000 HDD and Over 5,500 HDD .....    | 2.0                                    | 76.0                  | 73.4          | 592                    | 1,691                    | 8.1                                    | 6.3              |
| Under 5,500 HDD .....                       | NC                                     | NC                    | NC            | NC                     | NC                       | NC                                     | NC               |
| 2,000 HDD or More and Under 4,000 HDD ..... | NC                                     | NC                    | NC            | NC                     | NC                       | NC                                     | NC               |
| <b>Type of Housing Unit</b>                 |  |                       |               |                        |                          |  |                  |
| Single-Family .....                         | .7                                     | 93.4                  | 90.3          | 728                    | 2,731                    | 8.1                                    | 6.3              |
| Mobile Home .....                           | NC                                     | NC                    | NC            | NC                     | NC                       | NC                                     | NC               |
| Multifamily (2 or more units) ..            | 1.3                                    | 66.5                  | 64.3          | 518                    | 1,126                    | 8.1                                    | 9.0              |
| <b>Heated Floorspace (square feet)</b>      |  |                       |               |                        |                          |  |                  |
| Fewer than 1,000 .....                      | .8                                     | 53.4                  | 51.6          | 417                    | 754                      | 8.1                                    | 5.0              |
| 1,000 to 1,999 .....                        | .7                                     | 92.3                  | 89.1          | 716                    | 1,726                    | 8.0                                    | 7.2              |
| 2,000 or More .....                         | .5                                     | 90.7                  | 87.5          | 708                    | 3,257                    | 8.1                                    | 11.0             |
| <b>Ownership of Unit</b>                    |  |                       |               |                        |                          |  |                  |
| Owned .....                                 | 1.0                                    | 86.3                  | 83.3          | 661                    | 2,383                    | 7.9                                    | 8.0              |
| Rented .....                                | 1.0                                    | 66.2                  | 63.9          | 526                    | 1,028                    | 8.2                                    | 7.2              |
| <b>Year of Construction</b>                 |  |                       |               |                        |                          |  |                  |
| 1949 or Before .....                        | 1.2                                    | 71.7                  | 69.1          | 564                    | 1,520                    | 8.2                                    | 7.4              |
| 1950 to 1979 .....                          | .7                                     | 80.0                  | 77.5          | 609                    | 1,845                    | 7.9                                    | 10.2             |
| 1980 or After <sup>2</sup> .....            | .2                                     | 88.7                  | 85.6          | 715                    | 2,210                    | 8.4                                    | 18.8             |
| <b>1990 Family Income</b>                   |  |                       |               |                        |                          |  |                  |
| Less than \$10,000 .....                    | .4                                     | 57.3                  | 55.4          | 430                    | 1,019                    | 7.8                                    | 10.1             |
| \$10,000 to \$19,999 .....                  | .4                                     | 86.2                  | 83.3          | 699                    | 1,455                    | 8.4                                    | 10.3             |
| \$20,000 to \$34,999 .....                  | .5                                     | 60.9                  | 58.8          | 494                    | 1,405                    | 8.4                                    | 11.4             |
| \$35,000 or More .....                      | .7                                     | 91.1                  | 87.9          | 689                    | 2,398                    | 7.8                                    | 10.2             |
| <b>Below Poverty Line</b>                   |  |                       |               |                        |                          |  |                  |
| 100 Percent .....                           | .4                                     | 73.3                  | 70.9          | 558                    | 933                      | 7.9                                    | 7.5              |
| 125 Percent .....                           | .4                                     | 69.0                  | 66.7          | 532                    | 963                      | 8.0                                    | 8.9              |
| <b>Age of Householder</b>                   |  |                       |               |                        |                          |  |                  |
| Under 35 Years .....                        | .7                                     | 74.5                  | 72.0          | 560                    | 1,211                    | 7.8                                    | 10.8             |
| 35 to 59 Years .....                        | .7                                     | 83.4                  | 80.5          | 656                    | 1,744                    | 8.1                                    | 5.3              |
| 60 Years and Over .....                     | .6                                     | 68.7                  | 66.3          | 548                    | 2,177                    | 8.3                                    | 14.5             |
| <b>Household Size</b>                       |  |                       |               |                        |                          |  |                  |
| 1 Person .....                              | .5                                     | 42.7                  | 41.2          | 349                    | 1,028                    | 8.5                                    | 8.2              |
| 2 to 4 Persons .....                        | 1.4                                    | 87.6                  | 84.5          | 673                    | 1,907                    | 8.0                                    | 6.2              |
| 5 or More Persons .....                     | .2                                     | 78.6                  | 76.1          | 629                    | 1,838                    | 8.3                                    | 11.6             |

See footnotes at end of table.

**Table 5. Natural Gas Consumption and Expenditures in Northeast Region Households, 1990 (Continued)**

| Characteristics                             | Households Using Natural Gas (million) | Average per Household |               |                        |                           | RSE Row Factors |  |
|---|--|-----------------------|---------------|------------------------|---------------------------|-----------------|--|
|   |  | Consumption           |               | Expenditures (dollars) | Floor-space (square feet) |                 | Expenditures (dollars per thousand cf) |
|   |  | (million Btu)         | (thousand cf) |                        |                           |                 |  |
| RSE Column Factors:                         | 1.9                                    | 1.2                   | 1.2           | 1.0                    | 1.1                       | 0.4             |  |
| <b>Middle Atlantic Division</b> .....       | 9.9                                    | 89.1                  | 86.2          | 620                    | 2,042                     | 7.2             | 4.5                                    |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |               |                        |                           |                 |  |
| Under 2,000 CDD and Over 5,500 HDD .....    | 4.3                                    | 111.5                 | 107.7         | 698                    | 2,443                     | 6.5             | 6.0                                    |
| Under 5,500 HDD .....                       | 5.6                                    | 71.9                  | 69.7          | 561                    | 1,736                     | 8.0             | 5.3                                    |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                                     | NC                    | NC            | NC                     | NC                        | NC              | NC                                     |
| <b>Type of Housing Unit</b>                 |  |                       |               |                        |                           |                 |  |
| Single-Family .....                         | 5.7                                    | 110.3                 | 106.6         | 729                    | 2,665                     | 6.8             | 4.6                                    |
| Mobile Home .....                           | O                                      | O                     | O             | O                      | O                         | O               | NF                                     |
| Multifamily (2 or more units) .....         | 4.1                                    | 59.3                  | 57.5          | 469                    | 1,178                     | 8.2             | 4.8                                    |
| <b>Heated Floorspace (square feet)</b>      |  |                       |               |                        |                           |                 |  |
| Fewer than 1,000 .....                      | 2.5                                    | 51.9                  | 50.2          | 397                    | 717                       | 7.9             | 7.3                                    |
| 1,000 to 1,999 .....                        | 3.6                                    | 92.4                  | 89.3          | 648                    | 1,694                     | 7.3             | 3.7                                    |
| 2,000 or More .....                         | 3.8                                    | 111.0                 | 107.4         | 744                    | 3,286                     | 6.9             | 6.1                                    |
| <b>Ownership of Unit</b>                    |  |                       |               |                        |                           |                 |  |
| Owned .....                                 | 6.3                                    | 104.9                 | 101.5         | 713                    | 2,547                     | 7.0             | 4.0                                    |
| Rented .....                                | 3.5                                    | 60.7                  | 58.8          | 454                    | 1,138                     | 7.7             | 6.7                                    |
| <b>Year of Construction</b>                 |  |                       |               |                        |                           |                 |  |
| 1949 or Before .....                        | 5.4                                    | 90.9                  | 87.9          | 649                    | 1,952                     | 7.4             | 5.5                                    |
| 1950 to 1979 .....                          | 4.2                                    | 88.1                  | 85.3          | 594                    | 2,111                     | 7.0             | 5.6                                    |
| 1980 or After <sup>2</sup> .....            | O                                      | 65.2                  | 63.0          | 447                    | 2,849                     | 7.1             | 32.8                                   |
| <b>1990 Family Income</b>                   |  |                       |               |                        |                           |                 |  |
| Less than \$10,000 .....                    | 1.6                                    | 66.9                  | 64.5          | 499                    | 1,353                     | 7.7             | 11.9                                   |
| \$10,000 to \$19,999 .....                  | 1.9                                    | 75.9                  | 73.5          | 527                    | 1,621                     | 7.2             | 7.0                                    |
| \$20,000 to \$34,999 .....                  | 1.9                                    | 84.1                  | 81.5          | 591                    | 2,002                     | 7.2             | 6.4                                    |
| \$35,000 or More .....                      | 4.4                                    | 105.2                 | 101.8         | 719                    | 2,499                     | 7.1             | 4.8                                    |
| <b>Below Poverty Line</b>                   |  |                       |               |                        |                           |                 |  |
| 100 Percent .....                           | 1.3                                    | 69.7                  | 67.3          | 521                    | 1,393                     | 7.7             | 12.5                                   |
| 125 Percent .....                           | 1.7                                    | 72.8                  | 70.2          | 535                    | 1,518                     | 7.6             | 9.9                                    |
| <b>Age of Householder</b>                   |  |                       |               |                        |                           |                 |  |
| Under 35 Years .....                        | 2.7                                    | 75.8                  | 73.3          | 544                    | 1,444                     | 7.4             | 5.1                                    |
| 35 to 59 Years .....                        | 4.3                                    | 96.4                  | 93.2          | 658                    | 2,385                     | 7.1             | 6.7                                    |
| 60 Years and Over .....                     | 2.9                                    | 90.5                  | 87.7          | 634                    | 2,092                     | 7.2             | 4.4                                    |
| <b>Household Size</b>                       |  |                       |               |                        |                           |                 |  |
| 1 Person .....                              | 2.2                                    | 59.5                  | 57.5          | 430                    | 1,251                     | 7.5             | 7.5                                    |
| 2 to 4 Persons .....                        | 6.5                                    | 96.0                  | 93.0          | 664                    | 2,208                     | 7.1             | 4.4                                    |
| 5 or More Persons .....                     | 1.2                                    | 105.8                 | 102.3         | 733                    | 2,605                     | 7.2             | 6.7                                    |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

O = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 6. Fuel Oil Consumption and Expenditures in Northeast Region Households, 1990

| Characteristics                             | Households Using Fuel Oil (million) | Average per Household |           |                        |                          | Expenditures (dollars per gallon) | RSE Row Factors |
|---|-------------------------------------|-----------------------|-----------|------------------------|--------------------------|-----------------------------------|-----------------|
|   |                                     | Consumption           |           | Expenditures (dollars) | Floorspace (square feet) |                                   |                 |
|   |                                     | (million Btu)         | (gallons) |                        |                          |                                   |                 |
| RSE Column Factors:                         | 2.0                                 | 1.1                   | 1.1       | 1.2                    | 1.3                      | 0.3                               |                 |
| Northeast Region                            |                                     |                       |           |                        |                          |                                   |                 |
| <b>Total Region</b> .....                   | 8.0                                 | 94.7                  | 688       | 741                    | 2,200                    | 1.08                              | 3.1             |
| <b>Climate Zone<sup>1</sup></b>             |                                     |                       |           |                        |                          |                                   |                 |
| Under 2,000 HDD and Over 5,500 HDD .....    | 5.1                                 | 100.7                 | 730       | 793                    | 2,401                    | 1.09                              | 3.5             |
| Under 5,500 HDD and 2,000 HDD or More ..... | 2.9                                 | 84.3                  | 616       | 651                    | 1,853                    | 1.06                              | 8.1             |
| Under 4,000 HDD .....                       | NC                                  | NC                    | NC        | NC                     | NC                       | NC                                | NC              |
| <b>Type of Housing Unit</b>                 |                                     |                       |           |                        |                          |                                   |                 |
| Single-Family .....                         | 4.9                                 | 113.6                 | 822       | 913                    | 2,851                    | 1.11                              | 3.4             |
| Mobile Home .....                           | Q                                   | 49.2                  | 360       | 409                    | 858                      | 1.14                              | 22.6            |
| Multifamily (2 or more units) .....         | 2.9                                 | 65.7                  | 484       | 471                    | 1,185                    | .97                               | 4.8             |
| <b>Heated Floorspace (square feet)</b>      |                                     |                       |           |                        |                          |                                   |                 |
| Fewer than 1,000 .....                      | 2.1                                 | 57.7                  | 424       | 421                    | 749                      | .99                               | 5.4             |
| 1,000 to 1,999 .....                        | 2.7                                 | 86.3                  | 627       | 687                    | 1,945                    | 1.10                              | 4.0             |
| 2,000 or More .....                         | 3.2                                 | 125.1                 | 906       | 989                    | 3,330                    | 1.09                              | 3.8             |
| <b>Ownership of Unit</b>                    |                                     |                       |           |                        |                          |                                   |                 |
| Owned .....                                 | 5.6                                 | 107.6                 | 780       | 857                    | 2,666                    | 1.10                              | 3.3             |
| Rented .....                                | 2.4                                 | 65.0                  | 478       | 475                    | 1,133                    | .99                               | 4.4             |
| <b>Year of Construction</b>                 |                                     |                       |           |                        |                          |                                   |                 |
| 1949 or Before .....                        | 3.8                                 | 95.0                  | 691       | 737                    | 2,090                    | 1.07                              | 6.4             |
| 1950 to 1979 .....                          | 3.8                                 | 96.0                  | 697       | 758                    | 2,278                    | 1.09                              | 5.2             |
| 1980 or After <sup>2</sup> .....            | .3                                  | 74.9                  | 543       | 587                    | 2,596                    | 1.08                              | 11.3            |
| <b>1990 Family Income</b>                   |                                     |                       |           |                        |                          |                                   |                 |
| Less than \$10,000 .....                    | 1.3                                 | 77.1                  | 562       | 577                    | 1,572                    | 1.03                              | 14.1            |
| \$10,000 to \$19,999 .....                  | 1.3                                 | 80.5                  | 588       | 611                    | 1,573                    | 1.04                              | 6.3             |
| \$20,000 to \$34,999 .....                  | 2.0                                 | 84.5                  | 615       | 654                    | 2,072                    | 1.06                              | 4.0             |
| \$35,000 or More .....                      | 3.5                                 | 112.3                 | 814       | 899                    | 2,734                    | 1.11                              | 4.3             |
| <b>Below Poverty Line</b>                   |                                     |                       |           |                        |                          |                                   |                 |
| 100 Percent .....                           | .9                                  | 74.3                  | 543       | 554                    | 1,472                    | 1.02                              | 12.4            |
| 125 Percent .....                           | 1.3                                 | 73.6                  | 537       | 547                    | 1,607                    | 1.02                              | 9.3             |
| <b>Age of Householder</b>                   |                                     |                       |           |                        |                          |                                   |                 |
| Under 35 Years .....                        | 2.1                                 | 81.9                  | 598       | 632                    | 1,694                    | 1.06                              | 6.6             |
| 35 to 59 Years .....                        | 3.2                                 | 102.6                 | 745       | 814                    | 2,556                    | 1.09                              | 3.4             |
| 60 Years and Over .....                     | 2.7                                 | 95.3                  | 692       | 740                    | 2,196                    | 1.07                              | 6.0             |
| <b>Household Size</b>                       |                                     |                       |           |                        |                          |                                   |                 |
| 1 Person .....                              | 2.0                                 | 73.4                  | 535       | 554                    | 1,547                    | 1.03                              | 7.2             |
| 2 to 4 Persons .....                        | 5.1                                 | 99.6                  | 724       | 781                    | 2,348                    | 1.08                              | 3.2             |
| 5 or More Persons .....                     | .9                                  | 114.7                 | 832       | 936                    | 2,833                    | 1.13                              | 6.5             |

See footnotes at end of table.

ENERGY CONSUMPTION AND EXPENDITURES

Table 6. Fuel Oil Consumption and Expenditures in Northeast Region Households, 1990 (Continued)

| Characteristics                        | Households Using Fuel Oil (million) | Average per Household     |           |                        |                          | RSE Row Factors |                                   |
|--|-------------------------------------|---------------------------|-----------|------------------------|--------------------------|-----------------|-----------------------------------|
|  |                                     | Consumption (million Btu) | (gallons) | Expenditures (dollars) | Floorspace (square feet) |                 | Expenditures (dollars per gallon) |
| RSE Column Factors:                    | 2.0                                 | 1.1                       | 1.1       | 1.2                    | 1.3                      | 0.3             |                                   |
| <b>New England Division</b>            | 2.4                                 | 103.3                     | 750       | 813                    | 2,376                    | 1.08            | 2.4                               |
| <b>Climate Zone<sup>1</sup></b>        |                                     |                           |           |                        |                          |                 |                                   |
| Under 2,000 CDD and Over 5,500 HDD     | 2.3                                 | 103.2                     | 749       | 812                    | 2,374                    | 1.08            | 2.4                               |
| Under 5,500 HDD                        | Q                                   | Q                         | Q         | Q                      | Q                        | Q               | NF                                |
| 2,000 CDD or More and Under 4,000 HDD  | NC                                  | NC                        | NC        | NC                     | NC                       | NC              | NC                                |
| <b>Type of Housing Unit</b>            |                                     |                           |           |                        |                          |                 |                                   |
| Single-Family                          | 1.6                                 | 115.5                     | 837       | 906                    | 2,893                    | 1.08            | 2.8                               |
| Mobile Home                            | Q                                   | Q                         | Q         | Q                      | Q                        | Q               | NF                                |
| Multifamily (2 or more units)          | .7                                  | 77.4                      | 567       | 616                    | 1,238                    | 1.09            | 6.4                               |
| <b>Heated Floorspace (square feet)</b> |                                     |                           |           |                        |                          |                 |                                   |
| Fewer than 1,000                       | .5                                  | 65.0                      | 474       | 515                    | 881                      | 1.09            | 7.4                               |
| 1,000 to 1,999                         | .8                                  | 99.1                      | 720       | 788                    | 2,239                    | 1.10            | 5.1                               |
| 2,000 or More                          | 1.0                                 | 126.4                     | 916       | 987                    | 3,259                    | 1.08            | 4.2                               |
| <b>Ownership of Unit</b>               |                                     |                           |           |                        |                          |                 |                                   |
| Owned                                  | 1.7                                 | 113.3                     | 820       | 890                    | 2,823                    | 1.08            | 2.9                               |
| Rented                                 | .6                                  | 76.7                      | 562       | 609                    | 1,187                    | 1.08            | 7.3                               |
| <b>Year of Construction</b>            |                                     |                           |           |                        |                          |                 |                                   |
| 1949 or Before                         | 1.3                                 | 104.5                     | 759       | 822                    | 2,178                    | 1.08            | 3.7                               |
| 1950 to 1979                           | .9                                  | 104.4                     | 757       | 820                    | 2,601                    | 1.08            | 5.1                               |
| 1980 or After <sup>2</sup>             | .2                                  | 86.0                      | 639       | 703                    | 2,825                    | 1.10            | 18.0                              |
| <b>1990 Family Income</b>              |                                     |                           |           |                        |                          |                 |                                   |
| Less than \$10,000                     | .4                                  | 88.4                      | 644       | 699                    | 1,865                    | 1.08            | 12.3                              |
| \$10,000 to \$19,999                   | .4                                  | 88.3                      | 641       | 687                    | 1,895                    | 1.07            | 6.9                               |
| \$20,000 to \$34,999                   | .6                                  | 93.4                      | 678       | 728                    | 2,201                    | 1.07            | 6.1                               |
| \$35,000 or More                       | 1.0                                 | 120.9                     | 876       | 957                    | 2,870                    | 1.09            | 3.8                               |
| <b>Below Poverty Line</b>              |                                     |                           |           |                        |                          |                 |                                   |
| 100 Percent                            | .2                                  | 93.1                      | 679       | 745                    | 1,578                    | 1.10            | 8.7                               |
| 125 Percent                            | .4                                  | 82.2                      | 601       | 656                    | 1,765                    | 1.09            | 12.0                              |
| <b>Age of Householder</b>              |                                     |                           |           |                        |                          |                 |                                   |
| Under 35 Years                         | .5                                  | 87.1                      | 634       | 684                    | 1,754                    | 1.08            | 5.4                               |
| 35 to 59 Years                         | 1.0                                 | 110.2                     | 800       | 873                    | 2,538                    | 1.09            | 5.5                               |
| 60 Years and Over                      | .8                                  | 105.7                     | 767       | 827                    | 2,590                    | 1.08            | 5.6                               |
| <b>Household Size</b>                  |                                     |                           |           |                        |                          |                 |                                   |
| 1 Person                               | .6                                  | 90.0                      | 655       | 707                    | 1,990                    | 1.08            | 9.4                               |
| 2 to 4 Persons                         | 1.5                                 | 108.9                     | 790       | 859                    | 2,523                    | 1.09            | 4.2                               |
| 5 or More Persons                      | .2                                  | 103.2                     | 750       | 807                    | 2,500                    | 1.08            | 9.5                               |

See footnotes at end of table.

NORTHEAST

Table 6. Fuel Oil Consumption and Expenditures in Northeast Region Households, 1990 (Continued)

| Characteristics                             | Households Using Fuel Oil (million) | Average per Household |           |                        |                          | Expenditures (dollars per gallon) | RSE Row Factors |
|---|-------------------------------------|-----------------------|-----------|------------------------|--------------------------|-----------------------------------|-----------------|
|   |                                     | Consumption           |           | Expenditures (dollars) | Floorspace (square feet) |                                   |                 |
|   |                                     | (million Btu)         | (gallons) |                        |                          |                                   |                 |
| RSE Column Factors:                         | 2.0                                 | 1.1                   | 1.1       | 1.2                    | 1.3                      | 0.3                               |                 |
| Middle Atlantic Division .....              | 5.6                                 | 91.1                  | 662       | 711                    | 2,126                    | 1.07                              | 4.4             |
| <b>Climate Zone<sup>1</sup></b>             |                                     |                       |           |                        |                          |                                   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 2.7                                 | 98.5                  | 713       | 776                    | 2,425                    | 1.09                              | 6.2             |
| Under 5,500 HDD .....                       | 2.9                                 | 84.2                  | 615       | 650                    | 1,849                    | 1.06                              | 8.1             |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                                  | NC                    | NC        | NC                     | NC                       | NC                                | NC              |
| <b>Type of Housing Unit</b>                 |                                     |                       |           |                        |                          |                                   |                 |
| Single-Family .....                         | 3.3                                 | 112.6                 | 815       | 916                    | 2,830                    | 1.12                              | 4.9             |
| Mobile Home .....                           | Q                                   | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| Multifamily (2 or more units) ...           | 2.2                                 | 62.2                  | 459       | 429                    | 1,169                    | .93                               | 5.8             |
| <b>Heated Floorspace (square feet)</b>      |                                     |                       |           |                        |                          |                                   |                 |
| Fewer than 1,000 .....                      | 1.5                                 | 55.1                  | 406       | 388                    | 702                      | .95                               | 6.5             |
| 1,000 to 1,999 .....                        | 1.9                                 | 81.0                  | 589       | 645                    | 1,824                    | 1.10                              | 5.1             |
| 2,000 or More .....                         | 2.2                                 | 124.4                 | 902       | 989                    | 3,363                    | 1.10                              | 5.3             |
| <b>Ownership of Unit</b>                    |                                     |                       |           |                        |                          |                                   |                 |
| Owned .....                                 | 3.9                                 | 105.1                 | 762       | 843                    | 2,595                    | 1.11                              | 4.6             |
| Rented .....                                | 1.8                                 | 60.8                  | 448       | 426                    | 1,113                    | .95                               | 5.4             |
| <b>Year of Construction</b>                 |                                     |                       |           |                        |                          |                                   |                 |
| 1949 or Before .....                        | 2.6                                 | 90.3                  | 658       | 695                    | 2,047                    | 1.06                              | 9.5             |
| 1950 to 1979 .....                          | 2.9                                 | 93.4                  | 678       | 738                    | 2,174                    | 1.09                              | 7.0             |
| 1980 or After <sup>2</sup> .....            | Q                                   | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| <b>1990 Family Income</b>                   |                                     |                       |           |                        |                          |                                   |                 |
| Less than \$10,000 .....                    | .9                                  | 71.7                  | 523       | 519                    | 1,432                    | .99                               | 21.0            |
| \$10,000 to \$19,999 .....                  | .9                                  | 77.3                  | 566       | 579                    | 1,440                    | 1.02                              | 8.8             |
| \$20,000 to \$34,999 .....                  | 1.4                                 | 80.8                  | 589       | 624                    | 2,019                    | 1.06                              | 5.5             |
| \$35,000 or More .....                      | 2.5                                 | 108.8                 | 788       | 876                    | 2,679                    | 1.11                              | 6.0             |
| <b>Below Poverty Line</b>                   |                                     |                       |           |                        |                          |                                   |                 |
| 100 Percent .....                           | .7                                  | 67.6                  | 495       | 486                    | 1,435                    | .98                               | 16.0            |
| 125 Percent .....                           | .9                                  | 70.1                  | 512       | 503                    | 1,543                    | .98                               | 11.9            |
| <b>Age of Householder</b>                   |                                     |                       |           |                        |                          |                                   |                 |
| Under 35 Years .....                        | 1.6                                 | 80.1                  | 586       | 613                    | 1,673                    | 1.05                              | 9.4             |
| 35 to 59 Years .....                        | 2.2                                 | 99.3                  | 721       | 788                    | 2,535                    | 1.09                              | 4.2             |
| 60 Years and Over .....                     | 1.8                                 | 90.5                  | 657       | 700                    | 2,016                    | 1.07                              | 8.6             |
| <b>Household Size</b>                       |                                     |                       |           |                        |                          |                                   |                 |
| 1 Person .....                              | 1.4                                 | 65.6                  | 479       | 482                    | 1,341                    | 1.01                              | 9.5             |
| 2 to 4 Persons .....                        | 3.6                                 | 95.7                  | 696       | 748                    | 2,273                    | 1.08                              | 4.3             |
| 5 or More Persons .....                     | .7                                  | 117.9                 | 855       | 973                    | 2,929                    | 1.14                              | 7.6             |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

ENERGY CONSUMPTION AND EXPENDITURES

Table 7. Kerosene Consumption and Expenditures in Northeast Region Households, 1990

| Characteristics                             | Average per Household               |                           |           |                        |                          | RSE Row Factors |
|---|-------------------------------------|---------------------------|-----------|------------------------|--------------------------|-----------------|
|   | Households Using Kerosene (million) | Consumption (million Btu) | (gallons) | Expenditures (dollars) | Floorspace (square feet) |                 |
| RSE Column Factors:                         | 1.3                                 | 1.7                       | 1.7       | 1.7                    | 0.7                      | 0.2             |
| Northeast Region                            |                                     |                           |           |                        |                          |                 |
| <b>Total Region</b> .....                   | 1.2                                 | 17.3                      | 128       | 161                    | 2,038                    | 1.26            |
| New England Division .....                  | .2                                  | 28.9                      | 214       | 285                    | 1,700                    | 1.33            |
| Middle Atlantic Division .....              | 1.0                                 | 14.4                      | 107       | 131                    | 2,121                    | 1.23            |
| <b>Climate Zone<sup>1</sup></b>             |                                     |                           |           |                        |                          |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 1.0                                 | 19.4                      | 144       | 181                    | 1,930                    | 1.25            |
| Under 5,500 HDD .....                       | .2                                  | 8.1                       | 60        | 80                     | 2,494                    | 1.33            |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                                  | NC                        | NC        | NC                     | NC                       | NC              |
| <b>Type of Housing Unit</b>                 |                                     |                           |           |                        |                          |                 |
| Single-Family .....                         | .8                                  | 8.9                       | 66        | 85                     | 2,489                    | 1.28            |
| Mobile Home .....                           | .3                                  | 41.7                      | 309       | 394                    | 859                      | 1.27            |
| Multifamily (2 or more units) ..            | Q                                   | Q                         | Q         | Q                      | Q                        | Q               |
| <b>Heated Floorspace (square feet)</b>      |                                     |                           |           |                        |                          |                 |
| Fewer than 1,000 .....                      | .3                                  | 37.8                      | 280       | 353                    | 836                      | 1.26            |
| 1,000 to 1,999 .....                        | .5                                  | 18.0                      | 133       | 169                    | 1,834                    | 1.27            |
| 2,000 or More .....                         | .5                                  | 3.4                       | 25        | 31                     | 3,008                    | 1.24            |
| <b>Ownership of Unit</b>                    |                                     |                           |           |                        |                          |                 |
| Owned .....                                 | 1.0                                 | 15.1                      | 112       | 142                    | 2,182                    | 1.27            |
| Rented .....                                | .2                                  | 29.0                      | 214       | 266                    | 1,274                    | 1.24            |
| <b>Year of Construction</b>                 |                                     |                           |           |                        |                          |                 |
| 1949 or Before .....                        | .4                                  | 10.6                      | 78        | 98                     | 2,495                    | 1.25            |
| 1950 to 1979 .....                          | .6                                  | 21.5                      | 159       | 202                    | 1,816                    | 1.27            |
| 1980 or After <sup>2</sup> .....            | Q                                   | Q                         | Q         | Q                      | Q                        | Q               |
| <b>1990 Family Income</b>                   |                                     |                           |           |                        |                          |                 |
| Less than \$10,000 .....                    | .2                                  | Q                         | Q         | Q                      | 1,293                    | 1.27            |
| \$10,000 to \$19,999 .....                  | .2                                  | 30.0                      | 222       | 270                    | 1,667                    | 1.22            |
| \$20,000 to \$34,999 .....                  | .4                                  | Q                         | Q         | 190                    | 1,682                    | 1.32            |
| \$35,000 or More .....                      | .4                                  | 5.2                       | 38        | 46                     | 2,806                    | 1.20            |
| <b>Below Poverty Line</b>                   |                                     |                           |           |                        |                          |                 |
| 100 Percent .....                           | .2                                  | 25.7                      | 191       | 249                    | 1,535                    | 1.30            |
| 125 Percent .....                           | .2                                  | 30.0                      | 222       | 262                    | 1,423                    | 1.27            |
| <b>Age of Householder</b>                   |                                     |                           |           |                        |                          |                 |
| Under 35 Years .....                        | .4                                  | 19.6                      | 145       | 188                    | 1,548                    | 1.29            |
| 35 to 59 Years .....                        | .6                                  | 13.4                      | 100       | 125                    | 2,273                    | 1.26            |
| 60 Years and Over .....                     | .2                                  | 23.6                      | 175       | 211                    | 2,392                    | 1.21            |
| <b>Household Size</b>                       |                                     |                           |           |                        |                          |                 |
| 1 Person .....                              | Q                                   | Q                         | Q         | Q                      | Q                        | Q               |
| 2 to 4 Persons .....                        | .9                                  | 19.3                      | 143       | 179                    | 1,989                    | 1.26            |
| 5 or More Persons .....                     | .2                                  | 9.8                       | 73        | 99                     | 2,611                    | 1.36            |
|   |                                     |                           |           |                        |                          | NF              |
|   |                                     |                           |           |                        |                          | 14.4            |
|   |                                     |                           |           |                        |                          | 25.6            |

1. Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

2. Does not include all new construction for 1990.

NC = No cases in sample.  
Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the New England and Middle Atlantic Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

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Table 8. Liquefied Petroleum Gas Consumption and Expenditures in Northeast Region Households, 1990

| Characteristics                             | Average per Household          |               |           |                        |                          | RSE Row Factors |                                   |
|---|--------------------------------|---------------|-----------|------------------------|--------------------------|-----------------|-----------------------------------|
|   | Households Using LPG (million) | Consumption   |           | Expenditures (dollars) | Floorspace (square feet) |                 | Expenditures (dollars per gallon) |
|   |                                | (million Btu) | (gallons) |                        |                          |                 |                                   |
| RSE Column Factors:                         | 1.2                            | 1.4           | 1.4       | 1.3                    | 0.6                      | 0.5             |                                   |
| Northeast Region                            |                                |               |           |                        |                          |                 |                                   |
| <b>Total Region</b> .....                   | 1.2                            | 16.8          | 184       | 240                    | 1,920                    | 1.30            |                                   |
| New England Division .....                  | .6                             | 13.7          | 150       | 219                    | 2,013                    | 1.46            |                                   |
| Middle Atlantic Division .....              | .6                             | 19.6          | 215       | 259                    | 1,837                    | 1.21            |                                   |
| <b>Climate Zone<sup>1</sup></b>             |                                |               |           |                        |                          |                 |                                   |
| Under 2,000 CDD and Over 5,500 HDD .....    | 1.2                            | 17.0          | 186       | 242                    | 1,905                    | 1.30            |                                   |
| Under 5,500 HDD .....                       | Q                              | Q             | Q         | Q                      | Q                        | Q               |                                   |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                             | NC            | NC        | NC                     | NC                       | NC              |                                   |
| <b>Type of Housing Unit</b>                 |                                |               |           |                        |                          |                 |                                   |
| Single-Family .....                         | .8                             | 16.2          | 178       | 239                    | 2,339                    | 1.35            |                                   |
| Mobile Home .....                           | .2                             | Q             | Q         | 289                    | 892                      | 1.15            |                                   |
| Multifamily (2 or more units) ..            | Q                              | Q             | Q         | Q                      | Q                        | Q               |                                   |
| <b>Heated Floorspace (square feet)</b>      |                                |               |           |                        |                          |                 |                                   |
| Fewer than 1,000 .....                      | .3                             | 15.7          | 172       | 226                    | 790                      | 1.32            |                                   |
| 1,000 to 1,999 .....                        | .5                             | 18.3          | 200       | 245                    | 1,962                    | 1.22            |                                   |
| 2,000 or More .....                         | .3                             | 15.6          | 171       | 246                    | 3,055                    | 1.44            |                                   |
| <b>Ownership of Unit</b>                    |                                |               |           |                        |                          |                 |                                   |
| Owned .....                                 | 1.1                            | 17.6          | 193       | 250                    | 2,039                    | 1.29            |                                   |
| Rented .....                                | Q                              | Q             | Q         | Q                      | Q                        | Q               |                                   |
| <b>Year of Construction</b>                 |                                |               |           |                        |                          |                 |                                   |
| 1949 or Before .....                        | .6                             | 15.9          | 174       | 257                    | 2,111                    | 1.48            |                                   |
| 1950 to 1979 .....                          | .4                             | 13.6          | 148       | 164                    | 1,654                    | 1.11            |                                   |
| 1980 or After <sup>2</sup> .....            | .2                             | 26.4          | 289       | 351                    | 1,938                    | 1.21            |                                   |
| <b>1990 Family Income</b>                   |                                |               |           |                        |                          |                 |                                   |
| Less than \$10,000 .....                    | Q                              | Q             | Q         | Q                      | Q                        | Q               |                                   |
| \$10,000 to \$19,999 .....                  | Q                              | Q             | Q         | Q                      | Q                        | Q               |                                   |
| \$20,000 to \$34,999 .....                  | .4                             | 22.1          | 242       | 301                    | 1,714                    | 1.24            |                                   |
| \$35,000 or More .....                      | .5                             | 16.3          | 178       | 231                    | 2,377                    | 1.30            |                                   |
| <b>Below Poverty Line</b>                   |                                |               |           |                        |                          |                 |                                   |
| 100 Percent .....                           | Q                              | Q             | Q         | Q                      | Q                        | Q               |                                   |
| 125 Percent .....                           | Q                              | Q             | Q         | Q                      | Q                        | Q               |                                   |
| <b>Age of Householder</b>                   |                                |               |           |                        |                          |                 |                                   |
| Under 35 Years .....                        | .4                             | 23.6          | 258       | 318                    | 1,932                    | 1.23            |                                   |
| 35 to 59 Years .....                        | .5                             | 17.0          | 186       | 227                    | 1,938                    | 1.22            |                                   |
| 60 Years and Over .....                     | .3                             | 9.3           | 102       | 175                    | 1,881                    | 1.72            |                                   |
| <b>Household Size</b>                       |                                |               |           |                        |                          |                 |                                   |
| 1 Person .....                              | .2                             | 7.2           | 79        | 125                    | 1,434                    | 1.59            |                                   |
| 2 to 4 Persons .....                        | .9                             | 15.4          | 169       | 222                    | 1,983                    | 1.31            |                                   |
| 5 or More Persons .....                     | Q                              | Q             | Q         | Q                      | Q                        | Q               |                                   |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the New England and Middle Atlantic Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and D of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 9. Wood Consumption in Northeast Region Households,  
December 1989 Through November 1990**

| Characteristics                                | Households Using Wood      |                           |                          |                  | Wood Used as Main Space-Heating Fuel |                                    |                           |                    | RSE<br>Flow<br>Fac-<br>tors |         |      |
|--|----------------------------|---------------------------|--------------------------|------------------|--------------------------------------|------------------------------------|---------------------------|--------------------|-----------------------------|---------|------|
|  | Consumption                |                           | Average per<br>Household | Consumption      |                                      | Average per<br>Household           |                           |                    |                             |         |      |
|  | Total                      | Households                |                          | Total            | Households                           |                                    |                           |                    |                             |         |      |
| RSE Column Factors:                            | 0.5                        | 1.0                       | 1.0                      | 0.8              | 0.8                                  | 1.5                                | 1.9                       | 1.9                | 0.7                         | 0.7     |      |
|  | Households (mil-<br>lions) | (quad-<br>rillion<br>Btu) | (million<br>cords)       | (million<br>Btu) | (cords)                              | House-<br>holds<br>(mil-<br>lions) | (quad-<br>rillion<br>Btu) | (million<br>cords) | (million<br>Btu)            | (cords) |      |
| Northeast Region                               |                            |                           |                          |                  |                                      |                                    |                           |                    |                             |         |      |
| <b>Total Region</b> .....                      | 3.9                        | 0.12                      | 6.0                      | 30.7             | 1.5                                  | 0.5                                | 0                         | 0                  | 133.3                       | 6.7     | 29.6 |
| New England Division .....                     | 1.1                        | .04                       | 2.0                      | 36.0             | 1.8                                  | .2                                 | 0.02                      | 0.8                | 101.5                       | 5.1     | 15.4 |
| Middle Atlantic Division .....                 | 2.8                        | .08                       | 4.0                      | 28.6             | 1.4                                  | 0                                  | 0                         | 0                  | 149.5                       | 7.5     | 40.0 |
| <b>Climate Zone<sup>1</sup></b>                |                            |                           |                          |                  |                                      |                                    |                           |                    |                             |         |      |
| Under 2,000 CDD and<br>Over 5,500 HDD .....    | 3.0                        | .11                       | 5.5                      | 36.2             | 1.8                                  | .5                                 | 0                         | 0                  | 135.4                       | 6.8     | 31.0 |
| Under 5,500 HDD .....                          | .9                         | .01                       | .6                       | 12.3             | .6                                   | 0                                  | 0                         | 0                  | 0                           | 0       | 42.5 |
| 2,000 CDD or More and<br>Under 4,000 HDD ..... | NC                         | NC                        | NC                       | NC               | NC                                   | NC                                 | NC                        | NC                 | NC                          | NC      | NC   |
| <b>Type of Housing Unit</b>                    |                            |                           |                          |                  |                                      |                                    |                           |                    |                             |         |      |
| Single-Family .....                            | 3.7                        | .12                       | 5.9                      | 31.9             | 1.6                                  | .5                                 | 0                         | 0                  | 133.5                       | 6.7     | 29.6 |
| Mobile Home .....                              | 0                          | 0                         | 0                        | 0                | 0                                    | NC                                 | NC                        | NC                 | NC                          | NC      | NF   |
| Multifamily (2 or more units) ...              | .2                         | 0                         | 0                        | 0                | 0                                    | 0                                  | 0                         | 0                  | 0                           | 0       | 95.0 |
| <b>Heated Floorspace<br/>(square feet)</b>     |                            |                           |                          |                  |                                      |                                    |                           |                    |                             |         |      |
| Fewer than 1,000 .....                         | 0                          | 0                         | 0                        | 0                | 0                                    | 0                                  | 0                         | 0                  | 0                           | 0       | NF   |
| 1,000 to 1,999 .....                           | 1.3                        | 0                         | 0                        | 33.0             | 1.6                                  | 0                                  | 0                         | 0                  | 162.5                       | 8.1     | 54.1 |
| 2,000 or More .....                            | 2.5                        | .08                       | 3.8                      | 30.2             | 1.5                                  | .3                                 | .04                       | 1.8                | 119.2                       | 6.0     | 21.9 |
| <b>Ownership of Unit</b>                       |                            |                           |                          |                  |                                      |                                    |                           |                    |                             |         |      |
| Owned .....                                    | 3.8                        | .12                       | 5.9                      | 31.0             | 1.6                                  | .5                                 | 0                         | 0                  | 136.8                       | 6.8     | 31.1 |
| Rented .....                                   | .2                         | 0                         | 0                        | 0                | 0                                    | 0                                  | 0                         | 0                  | 0                           | 0       | 41.8 |
| <b>Year of Construction</b>                    |                            |                           |                          |                  |                                      |                                    |                           |                    |                             |         |      |
| 1949 or Before .....                           | 1.3                        | .06                       | 2.9                      | 43.8             | 2.2                                  | 0                                  | 0                         | 0                  | 156.6                       | 7.8     | 41.0 |
| 1950 to 1979 .....                             | 2.1                        | .05                       | 2.4                      | 22.8             | 1.1                                  | 0                                  | 0                         | 0                  | 132.2                       | 6.6     | 30.4 |
| 1980 or After? .....                           | .5                         | .01                       | .7                       | 29.1             | 1.5                                  | 0                                  | 0                         | 0                  | 0                           | 0       | 39.2 |
| <b>1990 Family Income</b>                      |                            |                           |                          |                  |                                      |                                    |                           |                    |                             |         |      |
| Less than \$10,000 .....                       | 0                          | 0                         | 0                        | 0                | 0                                    | 0                                  | 0                         | 0                  | 0                           | 0       | NF   |
| \$10,000 to \$19,999 .....                     | .3                         | 0                         | 0                        | 0                | 0                                    | 0                                  | 0                         | 0                  | 0                           | 0       | 87.0 |
| \$20,000 to \$34,999 .....                     | .8                         | .04                       | 2.2                      | 54.6             | 2.7                                  | 0                                  | 0                         | 0                  | 152.7                       | 7.6     | 40.6 |
| \$35,000 or More .....                         | 2.7                        | .05                       | 2.7                      | 19.7             | 1.0                                  | .2                                 | .02                       | 1.0                | 93.9                        | 4.7     | 19.6 |
| <b>Below Poverty Line</b>                      |                            |                           |                          |                  |                                      |                                    |                           |                    |                             |         |      |
| 100 Percent .....                              | 0                          | 0                         | 0                        | 0                | 0                                    | 0                                  | 0                         | 0                  | 0                           | 0       | NF   |
| 125 Percent .....                              | 0                          | 0                         | 0                        | 0                | 0                                    | 0                                  | 0                         | 0                  | 0                           | 0       | NF   |
| <b>Age of Householder</b>                      |                            |                           |                          |                  |                                      |                                    |                           |                    |                             |         |      |
| Under 35 Years .....                           | .5                         | 0                         | 0                        | 44.7             | 2.2                                  | 0                                  | 0                         | 0                  | 0                           | 0       | 46.1 |
| 35 to 59 Years .....                           | 2.6                        | .08                       | 3.8                      | 29.3             | 1.5                                  | 0                                  | 0                         | 0                  | 133.6                       | 6.7     | 35.9 |
| 60 Years and Over .....                        | .8                         | .02                       | 1.1                      | 27.1             | 1.4                                  | 0                                  | 0                         | 0                  | 0                           | 0       | 15.0 |
| <b>Household Size</b>                          |                            |                           |                          |                  |                                      |                                    |                           |                    |                             |         |      |
| 1 Person .....                                 | .5                         | .01                       | .4                       | 14.3             | .7                                   | 0                                  | 0                         | 0                  | 0                           | 0       | 37.2 |
| 2 to 4 Persons .....                           | 2.9                        | .09                       | 4.5                      | 30.6             | 1.5                                  | .4                                 | 0                         | 0                  | 113.4                       | 5.7     | 26.6 |
| 5 or More Persons .....                        | .5                         | 0                         | 0                        | 0                | 0                                    | 0                                  | 0                         | 0                  | 0                           | 0       | 42.3 |

See footnotes at end of table.

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**ENERGY CONSUMPTION AND EXPENDITURES**



**Table 9. Wood Consumption in Northeast Region Households, December 1989 Through November 1990 (Continued)**

| Characteristics                                | Households Using Wood  |                    |                 |                       |         | Wood Used as Main Space-Heating Fuel |                    |                 |                       |         | RSE Row Factors |
|--|------------------------|--------------------|-----------------|-----------------------|---------|--------------------------------------|--------------------|-----------------|-----------------------|---------|-----------------|
|  | Households (mil-lions) | Consumption        |                 |                       |         | Households (mil-lions)               | Consumption        |                 |                       |         |                 |
|  |                        | Total              |                 | Average per Household |         |                                      | Total              |                 | Average per Household |         |                 |
|  |                        | (quad-rillion Btu) | (million cords) | (million Btu)         | (cords) |                                      | (quad-rillion Btu) | (million cords) | (million Btu)         | (cords) |                 |
| RSE Column Factors:                            | 0.5                    | 1.0                | 1.0             | 0.8                   | 0.8     | 1.5                                  | 1.9                | 1.9             | 0.7                   | 0.7     |                 |
| <b>Northeast Region</b>                        |                        |                    |                 |                       |         |                                      |                    |                 |                       |         |                 |
| <b>Main Heating Fuel</b>                       |                        |                    |                 |                       |         |                                      |                    |                 |                       |         |                 |
| Natural Gas .....                              | 1.3                    | 0.01               | 0.7             | 10.9                  | 0.5     | --                                   | --                 | --              | --                    | --      | 32.1            |
| Electricity .....                              | .4                     | .01                | .3              | 12.5                  | .6      | --                                   | --                 | --              | --                    | --      | 31.3            |
| Fuel Oil or Kerosene .....                     | 1.7                    | .03                | 1.7             | 20.7                  | 1.0     | --                                   | --                 | --              | --                    | --      | 19.6            |
| Wood .....                                     | .5                     | Q                  | Q               | 133.3                 | 6.7     | 0.5                                  | Q                  | Q               | 133.3                 | 6.7     | 35.9            |
| Heating Stove .....                            | Q                      | Q                  | Q               | 135.4                 | 6.8     | Q                                    | Q                  | Q               | 135.4                 | 6.8     | 38.9            |
| Fireplace .....                                | NC                     | NC                 | NC              | NC                    | NC      | NC                                   | NC                 | NC              | NC                    | NC      | NC              |
| Furnace/Other .....                            | Q                      | Q                  | Q               | Q                     | Q       | Q                                    | Q                  | Q               | Q                     | Q       | NF              |
| LPG .....                                      | Q                      | Q                  | Q               | Q                     | Q       | --                                   | --                 | --              | --                    | --      | NF              |
| Other .....                                    | Q                      | Q                  | Q               | Q                     | Q       | --                                   | --                 | --              | --                    | --      | NF              |
| <b>Secondary Heating Equipment Used</b>        |                        |                    |                 |                       |         |                                      |                    |                 |                       |         |                 |
| .....  | 3.8                    | .11                | 5.3             | 27.5                  | 1.4     | .4                                   | Q                  | Q               | 136.1                 | 6.8     | 31.3            |
| <b>Amount of Wood Burned in Past 12 Months</b> |                        |                    |                 |                       |         |                                      |                    |                 |                       |         |                 |
| Less than one-half Cord .....                  | 2.0                    | .01                | .3              | 3.4                   | .2      | Q                                    | Q                  | Q               | Q                     | Q       | 9.9             |
| One-half to Less than 1 .....                  | .6                     | .01                | .4              | 11.8                  | .6      | NC                                   | NC                 | NC              | NC                    | NC      | 11.1            |
| 1 to Less than 2 .....                         | .5                     | .01                | .6              | 25.5                  | 1.3     | NC                                   | NC                 | NC              | NC                    | NC      | 14.7            |
| 2 to 4 Cords .....                             | .5                     | .03                | 1.4             | 58.2                  | 2.9     | .2                                   | 0.01               | 0.6             | 63.6                  | 3.2     | 14.5            |
| More than 4 Cords .....                        | .4                     | Q                  | Q               | 172.5                 | 8.6     | Q                                    | Q                  | Q               | 186.1                 | 9.3     | 32.2            |
| <b>Hours Wood Burned in Winter</b>             |                        |                    |                 |                       |         |                                      |                    |                 |                       |         |                 |
| Less than 1 Hour per week ....                 | 1.3                    | .01                | .4              | 5.9                   | .3      | Q                                    | Q                  | Q               | Q                     | Q       | 32.7            |
| Less than 1 Hour per day .....                 | 1.0                    | .01                | .5              | 10.4                  | .5      | NC                                   | NC                 | NC              | NC                    | NC      | 20.8            |
| 1 to 4 Hours per day .....                     | .5                     | .01                | .6              | 23.3                  | 1.2     | NC                                   | NC                 | NC              | NC                    | NC      | 20.8            |
| More than 4 Hours per day ....                 | .4                     | .02                | .8              | 35.7                  | 1.8     | Q                                    | Q                  | Q               | Q                     | Q       | 28.1            |
| Almost Continuously .....                      | .7                     | Q                  | Q               | 109.3                 | 5.5     | .5                                   | Q                  | Q               | 134.7                 | 6.7     | 36.0            |
| <b>Purchased Firewood</b>                      |                        |                    |                 |                       |         |                                      |                    |                 |                       |         |                 |
| Yes .....                                      | 1.3                    | Q                  | Q               | 38.0                  | 1.9     | Q                                    | Q                  | Q               | 149.0                 | 7.5     | 43.3            |
| No .....                                       | 2.6                    | .07                | 3.4             | 26.1                  | 1.3     | .3                                   | .03                | 1.7             | 124.4                 | 6.2     | 23.5            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

-- = Data not applicable.

NF = No applicable RSE row/column factor.

Notes: • Data in the New England and Middle Atlantic Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, and C of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 10. Average Expenditures for Major Energy Sources in  
Northeast Region Households, 1990**  
(Dollars per Million Btu)

| Characteristics                                    | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|--|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|  | RSE Column Factors:               | 0.8         | 0.7         | 0.8      | 0.5      | 1.3                     |                 |
| <b>Northeast Region</b>                            |                                   |             |             |          |          |                         |                 |
| <b>Total Region</b> .....                          | 12.3                              | 31.1        | 7.1         | 7.8      | 9.3      | 14.3                    | 2.1             |
| <b>Climate Zone<sup>2</sup></b>                    |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and Over 5,500 HDD .....           | 12.0                              | 28.9        | 6.6         | 7.9      | 9.3      | 14.2                    | 2.5             |
| Under 5,500 HDD .....                              | 12.9                              | 36.1        | 7.8         | 7.7      | 9.8      | Q                       | 3.5             |
| 2,000 CDD or More and Under 4,000 HDD .....        | NC                                | NC          | NC          | NC       | NC       | NC                      | NC              |
| <b>Type of Housing Unit<sup>3</sup></b>            |                                   |             |             |          |          |                         |                 |
| Single-Family .....                                | 12.4                              | 30.5        | 6.7         | 8.0      | 9.5      | 14.7                    | 2.6             |
| Mobile Home .....                                  | 14.2                              | 23.8        | Q           | 8.3      | 9.4      | 12.6                    | 6.9             |
| Multifamily (2 or more units) ...                  | 11.9                              | 34.6        | 7.9         | 7.2      | Q        | Q                       | 3.0             |
| <b>Heated Floorspace (square feet)<sup>4</sup></b> |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                             | 12.5                              | 32.2        | 7.7         | 7.3      | 9.3      | 14.4                    | 3.3             |
| 1,000 to 1,999 .....                               | 12.3                              | 30.2        | 7.1         | 8.0      | 9.4      | 13.4                    | 2.6             |
| 2,000 or More .....                                | 12.3                              | 31.5        | 6.8         | 7.9      | 9.2      | 15.8                    | 3.5             |
| <b>Ownership of Unit<sup>5</sup></b>               |                                   |             |             |          |          |                         |                 |
| Owned .....  | 12.4                              | 30.8        | 6.9         | 8.0      | 9.4      | 14.2                    | 2.4             |
| Rented .....                                       | 12.0                              | 32.4        | 7.6         | 7.3      | 9.2      | Q                       | 2.8             |
| <b>Year of Construction<sup>6</sup></b>            |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                               | 11.4                              | 32.5        | 7.2         | 7.8      | 9.3      | 16.2                    | 2.8             |
| 1950 to 1979 .....                                 | 12.7                              | 31.2        | 6.9         | 7.9      | 9.4      | 12.1                    | 3.3             |
| 1980 or After <sup>7</sup> .....                   | 17.2                              | 26.8        | 7.4         | 7.8      | Q        | 13.3                    | 5.2             |
| <b>1990 Family Income<sup>8</sup></b>              |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                           | 11.0                              | 32.2        | 7.5         | 7.5      | 9.4      | Q                       | 4.3             |
| \$10,000 to \$19,999 .....                         | 11.3                              | 31.0        | 7.2         | 7.6      | 9.0      | Q                       | 3.4             |
| \$20,000 to \$34,999 .....                         | 12.7                              | 29.9        | 7.2         | 7.7      | 9.8      | 13.6                    | 2.8             |
| \$35,000 or More .....                             | 12.7                              | 31.5        | 6.9         | 8.0      | 8.9      | 14.2                    | 2.9             |
| <b>Below Poverty Line<sup>9</sup></b>              |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                                  | 11.2                              | 33.0        | 7.5         | 7.5      | 9.7      | Q                       | 4.7             |
| 125 Percent .....                                  | 11.3                              | 32.1        | 7.4         | 7.4      | 9.4      | Q                       | 3.7             |
| <b>Age of Householder<sup>10</sup></b>             |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                               | 12.6                              | 31.7        | 7.3         | 7.7      | 9.6      | 13.5                    | 2.9             |
| 35 to 59 Years .....                               | 12.7                              | 30.9        | 7.0         | 7.9      | 9.3      | 13.4                    | 2.9             |
| 60 Years and Over .....                            | 11.3                              | 31.2        | 7.1         | 7.8      | 9.0      | 18.8                    | 2.7             |
| <b>Household Size<sup>11</sup></b>                 |                                   |             |             |          |          |                         |                 |
| 1 Person .....                                     | 11.9                              | 30.8        | 7.4         | 7.5      | Q        | 17.4                    | 2.4             |
| 2 to 4 Persons .....                               | 12.3                              | 31.2        | 7.0         | 7.8      | 9.3      | 14.4                    | 2.2             |
| 5 or More Persons .....                            | 13.1                              | 31.3        | 7.0         | 8.2      | 10.1     | Q                       | 3.8             |

See footnotes at end of table.

**NORTHEAST**

**Table 10. Average Expenditures for Major Energy Sources in Northeast Region Households, 1990 (Continued)**  
(Dollars per Million Btu)

| Characteristics                                   | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|   | 0.8                               | 0.7         | 0.8         | 0.5      | 1.3      | 3.4                     |                 |
| <b>RSE Column Factors:</b>                        |                                   |             |             |          |          |                         |                 |
| <b>New England Division</b> .....                 | 12.4                              | 29.6        | 7.8         | 7.9      | 9.9      | 16.0                    | 1.9             |
| <b>Climate Zone<sup>2</sup></b>                   |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and Over 5,500 HDD .....          | 12.3                              | 29.6        | 7.8         | 7.9      | 9.9      | 16.0                    | 1.9             |
| Under 5,500 HDD .....                             | Q                                 | Q           | NC          | Q        | NC       | NC                      | NF              |
| Under 2,000 CDD or More and Under 4,000 HDD ..... | NC                                | NC          | NC          | NC       | NC       | NC                      | NC              |
| <b>Type of Housing Unit</b>                       |                                   |             |             |          |          |                         |                 |
| Single-Family .....                               | 12.5                              | 29.3        | 7.8         | 7.8      | 9.7      | 15.8                    | 2.1             |
| Mobile Home .....                                 | 15.5                              | 31.6        | NC          | Q        | Q        | 17.9                    | 5.3             |
| Multifamily (2 or more units) ..                  | 11.7                              | 30.1        | 7.8         | 7.9      | NC       | Q                       | 2.3             |
| <b>Heated Floorspace (square feet)</b>            |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                            | 12.9                              | 30.6        | 7.8         | 7.9      | Q        | 16.7                    | 2.3             |
| 1,000 to 1,999 .....                              | 12.4                              | 29.0        | 7.8         | 7.9      | Q        | 15.1                    | 2.8             |
| 2,000 or More .....                               | 12.0                              | 29.7        | 7.8         | 7.8      | Q        | 16.2                    | 2.4             |
| <b>Ownership of Unit</b>                          |                                   |             |             |          |          |                         |                 |
| Owned .....                                       | 12.4                              | 29.6        | 7.7         | 7.9      | 10.0     | 15.9                    | 2.7             |
| Rented .....                                      | 12.3                              | 29.7        | 7.9         | 7.9      | Q        | Q                       | 2.5             |
| <b>Year of Construction</b>                       |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                              | 11.2                              | 29.5        | 7.9         | 7.9      | Q        | 15.7                    | 2.3             |
| 1950 to 1979 .....                                | 13.1                              | 30.2        | 7.6         | 7.9      | 10.2     | 16.3                    | 3.4             |
| 1980 or After <sup>3</sup> .....                  | 15.1                              | 28.1        | 8.1         | 8.0      | Q        | Q                       | 7.3             |
| <b>1990 Family Income</b>                         |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                          | 11.4                              | 29.7        | 7.5         | 7.9      | Q        | Q                       | 3.5             |
| \$10,000 to \$19,999 .....                        | 11.7                              | 30.4        | 8.1         | 7.8      | Q        | Q                       | 3.6             |
| \$20,000 to \$34,999 .....                        | 12.9                              | 30.2        | 8.1         | 7.8      | Q        | 14.9                    | 2.9             |
| \$35,000 or More .....                            | 12.6                              | 29.1        | 7.6         | 7.9      | Q        | 17.2                    | 2.0             |
| <b>Below Poverty Line</b>                         |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                                 | 11.6                              | 30.0        | 7.6         | 8.0      | Q        | Q                       | 2.9             |
| 125 Percent .....                                 | 11.9                              | 30.0        | 7.7         | 8.0      | Q        | Q                       | 2.5             |
| <b>Age of Householder</b>                         |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                              | 12.5                              | 29.8        | 7.5         | 7.9      | Q        | 16.2                    | 2.9             |
| 35 to 59 Years .....                              | 12.8                              | 29.7        | 7.9         | 7.9      | 9.7      | 15.7                    | 2.2             |
| 60 Years and Over .....                           | 11.6                              | 29.2        | 8.0         | 7.8      | Q        | 16.5                    | 2.3             |
| <b>Household Size</b>                             |                                   |             |             |          |          |                         |                 |
| 1 Person .....                                    | 12.6                              | 29.6        | 8.2         | 7.9      | NC       | Q                       | 3.0             |
| 2 to 4 Persons .....                              | 12.3                              | 29.6        | 7.7         | 7.9      | 9.9      | 16.1                    | 2.1             |
| 5 or More Persons .....                           | 12.4                              | 29.6        | 8.0         | 7.8      | Q        | Q                       | 3.7             |

See footnotes at end of table.

**Table 10. Average Expenditures for Major Energy Sources in Northeast Region Households, 1990 (Continued)**  
(Dollars per Million Btu)

| Characteristics                                | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|--|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|  | RSE Column Factors:               | 0.8         | 0.7         | 0.8      | 0.5      | 1.3                     |                 |
| <b>Middle Atlantic Division</b> .....          | 12.3                              | 31.6        | 7.0         | 7.8      | 9.1      | 13.2                    | 2.6             |
| <b>Climate Zone<sup>2</sup></b>                |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and<br>Over 5,500 HDD .....    | 11.8                              | 28.6        | 6.3         | 7.9      | 9.0      | 13.2                    | 3.3             |
| Under 5,500 HDD .....                          | 12.9                              | 36.1        | 7.8         | 7.7      | 9.8      | Q                       | 3.5             |
| 2,000 CDD or More and<br>Under 4,000 HDD ..... | NC                                | NC          | NC          | NC       | NC       | NC                      | NC              |
| <b>Type of Housing Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Single-Family .....                            | 12.4                              | 30.8        | 6.6         | 8.1      | 9.4      | 13.9                    | 3.5             |
| Mobile Home .....                              | 13.6                              | 21.4        | Q           | Q        | Q        | Q                       | 29.0            |
| Multifamily (2 or more units) ...              | 12.0                              | 36.5        | 7.9         | 6.9      | Q        | Q                       | 4.2             |
| <b>Heated Floorspace<br/>(square feet)</b>     |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                         | 12.3                              | 33.0        | 7.6         | 7.0      | 9.0      | Q                       | 5.5             |
| 1,000 to 1,999 .....                           | 12.2                              | 30.6        | 7.0         | 8.0      | 9.2      | 12.8                    | 3.4             |
| 2,000 or More .....                            | 12.3                              | 31.9        | 6.7         | 8.0      | 9.1      | Q                       | 4.1             |
| <b>Ownership of Unit</b>                       |                                   |             |             |          |          |                         |                 |
| Owned .....                                    | 12.4                              | 31.1        | 6.8         | 8.0      | 9.1      | 13.1                    | 2.8             |
| Rented .....                                   | 11.9                              | 33.6        | 7.5         | 7.0      | Q        | Q                       | 3.9             |
| <b>Year of Construction</b>                    |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                           | 11.5                              | 33.3        | 7.1         | 7.7      | 9.2      | 17.2                    | 3.7             |
| 1950 to 1979 .....                             | 12.6                              | 31.5        | 6.7         | 7.9      | 9.0      | 10.3                    | 4.1             |
| 1980 or After <sup>3</sup> .....               | 18.6                              | 26.3        | 6.9         | Q        | Q        | Q                       | 12.6            |
| <b>1990 Family Income</b>                      |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                       | 10.9                              | 33.3        | 7.5         | 7.2      | Q        | Q                       | 6.3             |
| \$10,000 to \$19,999 .....                     | 11.2                              | 31.2        | 6.9         | 7.5      | 8.9      | Q                       | 6.0             |
| \$20,000 to \$34,999 .....                     | 12.7                              | 29.9        | 7.0         | 7.7      | 9.3      | 12.4                    | 3.1             |
| \$35,000 or More .....                         | 12.8                              | 32.2        | 6.8         | 8.1      | 8.8      | 12.9                    | 3.9             |
| <b>Below Poverty Line</b>                      |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                              | 11.0                              | 34.3        | 7.5         | 7.2      | Q        | Q                       | 7.1             |
| 125 Percent .....                              | 11.1                              | 33.0        | 7.4         | 7.2      | 9.4      | Q                       | 5.3             |
| <b>Age of Householder</b>                      |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                           | 12.7                              | 32.2        | 7.2         | 7.7      | 9.3      | 12.5                    | 3.5             |
| 35 to 59 Years .....                           | 12.7                              | 31.2        | 6.8         | 7.9      | 9.0      | 11.4                    | 3.7             |
| 60 Years and Over .....                        | 11.3                              | 31.9        | 7.0         | 7.7      | 8.8      | Q                       | 3.4             |
| <b>Household Size</b>                          |                                   |             |             |          |          |                         |                 |
| 1 Person .....                                 | 11.6                              | 31.4        | 7.2         | 7.3      | Q        | Q                       | 3.5             |
| 2 to 4 Persons .....                           | 12.2                              | 31.6        | 6.9         | 7.8      | 9.0      | 13.1                    | 2.7             |
| 5 or More Persons .....                        | 13.2                              | 31.6        | 6.9         | 8.3      | Q        | Q                       | 4.2             |

<sup>1</sup> Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>3</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 11. Total Consumption and Expenditures by End Uses in Northeast Region Households, 1990**

| Characteristics                             | Space Heating              |                                | Air Conditioning           |                                | Water Heating              |                                | Refrigerator               |                                | Appliances                 |                                | RSE Row Factors |
|---|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|-----------------|
|   | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) |                 |
|   | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             |                 |
| <b>Northeast Region</b>                     |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| <b>Total Region</b> .....                   | 1,435.3                    | 11.41                          | 31.2                       | 1.03                           | 398.8                      | 3.86                           | 84.8                       | 2.78                           | 348.1                      | 9.18                           | 3.6             |
| <b>Climate Zone<sup>1</sup></b>             |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 2,000 HDD and Over 5,500 HDD .....    | 963.8                      | 7.61                           | 14.9                       | .44                            | 244.2                      | 2.54                           | 53.2                       | 1.58                           | 226.2                      | 5.80                           | 5.7             |
| Under 5,500 HDD and 2,000 HDD or More ..... | 471.4                      | 3.81                           | 16.3                       | .59                            | 154.6                      | 1.32                           | 31.6                       | 1.20                           | 121.8                      | 3.39                           | 11.4            |
| Under 4,000 HDD .....                       | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC              |
| <b>Type of Housing Unit</b>                 |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Single-Family .....                         | 1,041.7                    | 8.23                           | 23.8                       | .78                            | 250.1                      | 2.53                           | 60.0                       | 1.90                           | 257.0                      | 6.81                           | 6.1             |
| Mobile Home .....                           | 27.9                       | .25                            | Q                          | Q                              | 5.7                        | .13                            | Q                          | .04                            | 8.1                        | .19                            | 42.7            |
| Multifamily (2 or more units) .....         | 365.7                      | 2.93                           | 6.8                        | .24                            | 143.0                      | 1.20                           | 23.2                       | .85                            | 82.9                       | 2.18                           | 7.4             |
| <b>Heated Floorspace (square feet)</b>      |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Fewer than 1,000 .....                      | 221.4                      | 1.86                           | 4.9                        | .17                            | 90.7                       | .88                            | 15.5                       | .53                            | 53.4                       | 1.38                           | 10.2            |
| 1,000 to 1,999 .....                        | 496.5                      | 3.98                           | 10.3                       | .32                            | 148.7                      | 1.46                           | 30.7                       | .98                            | 129.9                      | 3.26                           | 6.7             |
| 2,000 or More .....                         | 717.3                      | 5.57                           | 16.0                       | .55                            | 159.4                      | 1.52                           | 38.6                       | 1.27                           | 164.7                      | 4.54                           | 10.6            |
| <b>Ownership of Unit</b>                    |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Owned .....                                 | 1,113.4                    | 8.81                           | 25.6                       | .85                            | 277.0                      | 2.75                           | 64.4                       | 2.08                           | 272.8                      | 7.27                           | 5.1             |
| Rented .....                                | 321.9                      | 2.60                           | 5.6                        | .18                            | 121.8                      | 1.11                           | 20.4                       | .71                            | 75.3                       | 1.92                           | 7.4             |
| <b>Year of Construction</b>                 |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1949 or Before .....                        | 740.1                      | 5.59                           | 8.3                        | .28                            | 188.9                      | 1.72                           | 36.8                       | 1.26                           | 156.0                      | 4.04                           | 6.6             |
| 1950 to 1979 .....                          | 633.1                      | 5.11                           | 18.6                       | .63                            | 187.3                      | 1.75                           | 41.3                       | 1.34                           | 165.3                      | 4.44                           | 8.0             |
| 1980 or After <sup>2</sup> .....            | 62.1                       | .71                            | 4.3                        | .12                            | 22.5                       | .39                            | 6.7                        | .19                            | 26.8                       | .70                            | 19.2            |
| <b>1990 Family Income</b>                   |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Less than \$10,000 .....                    | 179.3                      | 1.38                           | 1.4                        | .04                            | 49.1                       | .41                            | 9.7                        | .33                            | 33.3                       | .83                            | 13.3            |
| \$10,000 to \$19,999 .....                  | 229.1                      | 1.77                           | 2.9                        | .09                            | 59.6                       | .55                            | 12.0                       | .40                            | 45.2                       | 1.13                           | 10.9            |
| \$20,000 to \$34,999 .....                  | 297.0                      | 2.46                           | 5.6                        | .17                            | 91.0                       | .99                            | 18.9                       | .60                            | 78.0                       | 2.02                           | 9.0             |
| \$35,000 or More .....                      | 729.9                      | 5.80                           | 21.3                       | .73                            | 199.2                      | 1.91                           | 44.1                       | 1.46                           | 191.5                      | 5.21                           | 7.4             |
| <b>Below Poverty Line</b>                   |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 100 Percent .....                           | 138.7                      | 1.07                           | .8                         | .03                            | 47.7                       | .41                            | 7.1                        | .25                            | 29.8                       | .75                            | 15.5            |
| 125 Percent .....                           | 194.2                      | 1.49                           | 1.6                        | .05                            | 61.3                       | .55                            | 10.2                       | .35                            | 42.1                       | 1.05                           | 11.7            |
| <b>Age of Householder</b>                   |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 35 Years .....                        | 328.7                      | 2.70                           | 7.9                        | .27                            | 119.9                      | 1.19                           | 20.0                       | .67                            | 87.1                       | 2.29                           | 10.0            |
| 35 to 59 Years .....                        | 634.6                      | 5.03                           | 16.5                       | .55                            | 191.2                      | 1.85                           | 39.8                       | 1.29                           | 179.7                      | 4.79                           | 6.3             |
| 60 Years and Over .....                     | 472.0                      | 3.68                           | 6.7                        | .21                            | 87.8                       | .82                            | 25.0                       | .82                            | 81.2                       | 2.10                           | 5.8             |
| <b>Household Size</b>                       |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1 Person .....                              | 256.0                      | 2.10                           | 5.1                        | .16                            | 52.9                       | .52                            | 15.7                       | .52                            | 41.6                       | 1.09                           | 7.0             |
| 2 to 4 Persons .....                        | 994.2                      | 7.82                           | 21.8                       | .72                            | 281.0                      | 2.69                           | 58.0                       | 1.90                           | 245.6                      | 6.48                           | 3.6             |
| 5 or More Persons .....                     | 185.1                      | 1.50                           | 4.4                        | .15                            | 64.9                       | .65                            | 11.0                       | .36                            | 60.9                       | 1.61                           | 12.6            |

See footnotes at end of table.

Table 11. Total Consumption and Expenditures by End Uses in Northeast Region Households, 1990 (Continued)

| Characteristics                             | Space Heating              |                                | Air Conditioning           |                                | Water Heating              |                                | Refrigerator               |                                | Appliances                 |                                | RSE Row Factors |
|---|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|-----------------|
|   | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) |                 |
| RSE Column Factors:                         | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             |                 |
| <b>New England Division</b> .....           | 335.4                      | 2.86                           | 4.3                        | 0.13                           | 89.3                       | 0.99                           | 17.3                       | 0.52                           | 71.3                       | 1.89                           | 7.0             |
| <b>Climate Zone<sup>1</sup></b>             |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 334.2                      | 2.85                           | 4.3                        | .13                            | 89.0                       | .99                            | 17.2                       | .52                            | 71.0                       | 1.88                           | 7.1             |
| Under 5,500 HDD .....                       | Q                          | Q                              | NC                         | NC                             | Q                          | Q                              | Q                          | Q                              | Q                          | Q                              | NF              |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC              |
| <b>Type of Housing Unit</b>                 |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Single-Family .....                         | 227.1                      | 1.92                           | 2.9                        | .09                            | 47.3                       | .59                            | 11.1                       | .33                            | 47.1                       | 1.29                           | 7.9             |
| Mobile Home .....                           | 8.9                        | .08                            | Q                          | Q                              | 1.7                        | .04                            | .4                         | .01                            | 2.3                        | .07                            | 28.3            |
| Multifamily (2 or more units) .....         | 99.4                       | .87                            | 1.3                        | .04                            | 40.3                       | .36                            | 5.9                        | .18                            | 21.9                       | .54                            | 13.5            |
| <b>Heated Floorspace (square feet)</b>      |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Fewer than 1,000 .....                      | 61.3                       | .57                            | .8                         | .02                            | 27.1                       | .28                            | 4.2                        | .13                            | 15.3                       | .40                            | 8.2             |
| 1,000 to 1,999 .....                        | 121.2                      | 1.03                           | 1.6                        | .05                            | 32.7                       | .38                            | 6.5                        | .19                            | 28.0                       | .72                            | 13.8            |
| 2,000 or More .....                         | 152.9                      | 1.27                           | 1.9                        | .06                            | 29.5                       | .34                            | 6.7                        | .20                            | 28.0                       | .78                            | 12.4            |
| <b>Ownership of Unit</b>                    |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Owned .....                                 | 245.4                      | 2.05                           | 3.0                        | .09                            | 55.8                       | .66                            | 11.9                       | .36                            | 50.9                       | 1.39                           | 9.5             |
| Rented .....                                | 90.0                       | .81                            | 1.3                        | .04                            | 33.6                       | .34                            | 5.4                        | .16                            | 20.4                       | .50                            | 9.7             |
| <b>Year of Construction</b>                 |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1949 or Before .....                        | 174.0                      | 1.41                           | 1.2                        | .03                            | 42.9                       | .43                            | 7.7                        | .23                            | 32.0                       | .79                            | 12.8            |
| 1950 to 1979 .....                          | 133.3                      | 1.17                           | 2.3                        | .07                            | 36.9                       | .42                            | 7.8                        | .24                            | 30.7                       | .86                            | 13.5            |
| 1980 or After <sup>2</sup> .....            | 28.1                       | .28                            | .8                         | .02                            | 9.4                        | .14                            | 1.7                        | .05                            | 8.6                        | .24                            | 27.4            |
| <b>1990 Family Income</b>                   |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Less than \$10,000 .....                    | 48.5                       | .41                            | .3                         | .01                            | 13.6                       | .12                            | 2.6                        | .08                            | 8.4                        | .21                            | 14.8            |
| \$10,000 to \$19,999 .....                  | 56.9                       | .48                            | .4                         | .01                            | 13.9                       | .15                            | 2.8                        | .09                            | 10.2                       | .26                            | 13.7            |
| \$20,000 to \$34,999 .....                  | 73.1                       | .63                            | 1.0                        | .03                            | 20.7                       | .25                            | 4.0                        | .12                            | 17.1                       | .46                            | 14.1            |
| \$35,000 or More .....                      | 156.8                      | 1.34                           | 2.5                        | .07                            | 41.1                       | .47                            | 8.0                        | .24                            | 35.7                       | .96                            | 10.9            |
| <b>Below Poverty Line</b>                   |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 100 Percent .....                           | 36.0                       | .31                            | .2                         | .01                            | 14.3                       | .13                            | 2.0                        | .06                            | 8.1                        | .20                            | 12.2            |
| 125 Percent .....                           | 46.4                       | .40                            | .4                         | .01                            | 16.9                       | .16                            | 2.7                        | .08                            | 10.2                       | .26                            | 14.1            |
| <b>Age of Householder</b>                   |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 35 Years .....                        | 75.6                       | .66                            | 1.4                        | .04                            | 29.2                       | .30                            | 4.2                        | .13                            | 19.8                       | .50                            | 10.2            |
| 35 to 59 Years .....                        | 142.6                      | 1.22                           | 1.7                        | .05                            | 40.4                       | .47                            | 7.4                        | .22                            | 33.8                       | .92                            | 8.4             |
| 60 Years and Over .....                     | 117.3                      | .98                            | 1.1                        | .03                            | 19.7                       | .23                            | 5.7                        | .17                            | 17.7                       | .47                            | 15.1            |
| <b>Household Size</b>                       |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1 Person .....                              | 71.5                       | .67                            | 1.0                        | .03                            | 13.8                       | .16                            | 4.1                        | .13                            | 10.6                       | .29                            | 11.2            |
| 2 to 4 Persons .....                        | 236.4                      | 1.97                           | 3.1                        | .09                            | 64.9                       | .72                            | 12.0                       | .36                            | 52.6                       | 1.40                           | 7.8             |
| 5 or More Persons .....                     | 27.4                       | .22                            | .3                         | .01                            | 10.5                       | .11                            | 1.2                        | .04                            | 8.2                        | .21                            | 19.0            |

See footnotes at end of table.

**Table 11. Total Consumption and Expenditures by End Uses  
in Northeast Region Households, 1990 (Continued)**

| Characteristics                                | Space Heating              |                                | Air Conditioning           |                                | Water Heating              |                                | Refrigerator               |                                | Appliances                 |                                | RSE<br>Row<br>Factors |
|--|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|-----------------------|
|  | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) |                       |
| RSE Column Factors:                            | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             |                       |
| <b>Middle Atlantic Division</b> .....          | 1,099.9                    | 8.55                           | 26.9                       | 0.91                           | 309.5                      | 2.87                           | 67.5                       | 2.26                           | 276.8                      | 7.29                           | 4.5                   |
| <b>Climate Zone<sup>1</sup></b>                |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                       |
| Under 2,000 CDD and<br>Over 5,500 HDD .....    | 629.6                      | 4.76                           | 10.6                       | .32                            | 155.2                      | 1.55                           | 35.9                       | 1.06                           | 155.2                      | 3.91                           | 9.0                   |
| Under 5,500 HDD .....                          | 470.3                      | 3.79                           | 16.3                       | .59                            | 154.3                      | 1.31                           | 31.5                       | 1.20                           | 121.6                      | 3.38                           | 11.4                  |
| 2,000 CDD or More and<br>Under 4,000 HDD ..... | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                    |
| <b>Type of Housing Unit</b>                    |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                       |
| Single-Family .....                            | 814.6                      | 6.31                           | 20.8                       | .69                            | 202.8                      | 1.94                           | 48.9                       | 1.57                           | 209.9                      | 5.53                           | 7.2                   |
| Mobile Home .....                              | Q                          | Q                              | Q                          | Q                              | Q                          | .08                            | Q                          | Q                              | Q                          | .12                            | 54.2                  |
| Multifamily (2 or more units) .....            | 266.3                      | 2.06                           | 5.5                        | .21                            | 102.7                      | .84                            | 17.3                       | .67                            | 61.1                       | 1.64                           | 9.6                   |
| <b>Heated Floorspace<br/>(square feet)</b>     |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                       |
| Fewer than 1,000 .....                         | 160.2                      | 1.29                           | 4.1                        | .14                            | 63.6                       | .60                            | 11.3                       | .41                            | 38.2                       | .99                            | 13.4                  |
| 1,000 to 1,999 .....                           | 375.3                      | 2.95                           | 8.7                        | .28                            | 116.0                      | 1.08                           | 24.2                       | .79                            | 101.9                      | 2.55                           | 8.2                   |
| 2,000 or More .....                            | 564.5                      | 4.31                           | 14.1                       | .49                            | 129.9                      | 1.19                           | 31.9                       | 1.07                           | 136.7                      | 3.76                           | 12.7                  |
| <b>Ownership of Unit</b>                       |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                       |
| Owned .....                                    | 868.0                      | 6.76                           | 22.5                       | .76                            | 221.3                      | 2.09                           | 52.4                       | 1.72                           | 221.9                      | 5.88                           | 5.8                   |
| Rented .....                                   | 231.9                      | 1.79                           | 4.4                        | .15                            | 88.2                       | .78                            | 15.0                       | .54                            | 54.9                       | 1.41                           | 10.2                  |
| <b>Year of Construction</b>                    |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                       |
| 1949 or Before .....                           | 566.1                      | 4.18                           | 7.1                        | .25                            | 146.0                      | 1.29                           | 29.1                       | 1.03                           | 124.0                      | 3.25                           | 8.5                   |
| 1950 to 1979 .....                             | 499.8                      | 3.94                           | 16.4                       | .56                            | 150.4                      | 1.33                           | 33.4                       | 1.10                           | 134.7                      | 3.58                           | 9.3                   |
| 1980 or After <sup>2</sup> .....               | 34.0                       | .43                            | 3.4                        | .10                            | 13.1                       | .25                            | 4.9                        | .14                            | 18.1                       | .46                            | 24.3                  |
| <b>1990 Family Income</b>                      |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                       |
| Less than \$10,000 .....                       | 130.8                      | .97                            | 1.1                        | .03                            | 35.5                       | .29                            | 7.1                        | .25                            | 25.0                       | .62                            | 17.5                  |
| \$10,000 to \$19,999 .....                     | 172.1                      | 1.29                           | 2.4                        | .08                            | 45.7                       | .40                            | 9.3                        | .31                            | 35.0                       | .87                            | 13.5                  |
| \$20,000 to \$34,999 .....                     | 223.9                      | 1.83                           | 4.6                        | .14                            | 70.2                       | .74                            | 14.9                       | .48                            | 61.0                       | 1.55                           | 11.3                  |
| \$35,000 or More .....                         | 573.1                      | 4.46                           | 18.7                       | .65                            | 158.1                      | 1.43                           | 36.2                       | 1.22                           | 155.8                      | 4.25                           | 8.7                   |
| <b>Below Poverty Line</b>                      |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                       |
| 100 Percent .....                              | 102.7                      | .76                            | .6                         | .02                            | 33.4                       | .28                            | 5.0                        | .19                            | 21.7                       | .55                            | 21.1                  |
| 125 Percent .....                              | 147.8                      | 1.09                           | 1.2                        | .04                            | 44.4                       | .39                            | 7.5                        | .27                            | 31.9                       | .79                            | 15.3                  |
| <b>Age of Householder</b>                      |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                       |
| Under 35 Years .....                           | 253.1                      | 2.04                           | 6.5                        | .22                            | 90.6                       | .89                            | 15.8                       | .54                            | 67.3                       | 1.79                           | 13.0                  |
| 35 to 59 Years .....                           | 492.0                      | 3.81                           | 14.8                       | .50                            | 150.7                      | 1.39                           | 32.4                       | 1.07                           | 145.9                      | 3.87                           | 7.4                   |
| 60 Years and Over .....                        | 354.8                      | 2.70                           | 5.5                        | .18                            | 68.1                       | .59                            | 19.3                       | .65                            | 63.5                       | 1.63                           | 6.2                   |
| <b>Household Size</b>                          |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                       |
| 1 Person .....                                 | 184.5                      | 1.43                           | 4.1                        | .14                            | 39.0                       | .36                            | 11.6                       | .40                            | 31.1                       | .80                            | 8.6                   |
| 2 to 4 Persons .....                           | 757.8                      | 5.85                           | 18.7                       | .63                            | 216.1                      | 1.98                           | 46.0                       | 1.54                           | 193.0                      | 5.09                           | 4.3                   |
| 5 or More Persons .....                        | 157.6                      | 1.27                           | 4.1                        | .14                            | 54.4                       | .53                            | 9.8                        | .33                            | 52.7                       | 1.40                           | 14.2                  |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Consumption and Expenditure data are for major energy sources which include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 12. Consumption by End Uses, per Northeast Region Household, 1990

| Characteristics     | All Uses             |                           | Space Heating        |                           | Air Conditioning     |                           | Water Heating        |                           | Refrigerator         |                           | Appliances           |                           | RSE Row Factors |
|---------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|-----------------|
|                     | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) |                 |
| RSE Column Factors: | 1.1                  | 0.7                       | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        |                 |

## Northeast Region

|  |      |       |      |       |      |     |      |      |      |     |      |      |      |
|--|------|-------|------|-------|------|-----|------|------|------|-----|------|------|------|
| <b>Total Region</b> .....              | 19.2 | 119.6 | 19.0 | 75.5  | 10.1 | 3.1 | 19.1 | 20.9 | 19.1 | 4.4 | 19.2 | 18.1 | 3.5  |
| <b>Climate Zone<sup>1</sup></b>        |      |       |      |       |      |     |      |      |      |     |      |      |      |
| Under 2,000 CDD and                    |      |       |      |       |      |     |      |      |      |     |      |      |      |
| Over 5,500 HDD .....                   | 12.3 | 121.9 | 12.1 | 79.3  | 5.6  | 2.7 | 12.3 | 19.9 | 12.2 | 4.3 | 12.3 | 18.3 | 4.8  |
| Under 5,500 HDD .....                  | 6.9  | 115.4 | 6.9  | 68.8  | 4.6  | 3.6 | 6.8  | 22.6 | 6.9  | 4.6 | 6.9  | 17.7 | 7.0  |
| 2,000 CDD or More and                  |      |       |      |       |      |     |      |      |      |     |      |      |      |
| Under 4,000 HDD .....                  | NC   | NC    | NC   | NC    | NC   | NC  | NC   | NC   | NC   | NC  | NC   | NC   | NC   |
| <b>Type of Housing Unit</b>            |      |       |      |       |      |     |      |      |      |     |      |      |      |
| Single-Family .....                    | 11.9 | 137.6 | 11.7 | 88.9  | 6.4  | 3.7 | 11.8 | 21.2 | 11.8 | 5.1 | 11.9 | 21.7 | 3.9  |
| Mobile Home .....                      | .5   | 83.1  | .5   | 52.7  | Q    | 2.6 | .5   | 10.7 | .5   | 3.1 | .5   | 15.4 | 28.7 |
| Multifamily (2 or more units) ...      | 6.8  | 91.0  | 6.8  | 54.2  | 3.5  | 2.0 | 6.8  | 21.1 | 6.7  | 3.4 | 6.8  | 12.1 | 5.7  |
| <b>Heated Floorspace (square feet)</b> |      |       |      |       |      |     |      |      |      |     |      |      |      |
| Fewer than 1,000 .....                 | 5.1  | 75.6  | 5.0  | 44.1  | 2.5  | 1.9 | 5.0  | 18.0 | 5.0  | 3.1 | 5.1  | 10.5 | 7.1  |
| 1,000 to 1,999 .....                   | 7.1  | 115.4 | 7.0  | 71.1  | 3.6  | 2.9 | 7.1  | 21.1 | 7.0  | 4.4 | 7.1  | 18.4 | 3.9  |
| 2,000 or More .....                    | 7.0  | 155.6 | 7.0  | 102.4 | 4.0  | 4.0 | 7.0  | 22.8 | 7.0  | 5.5 | 7.0  | 23.4 | 5.8  |
| <b>Ownership of Unit</b>               |      |       |      |       |      |     |      |      |      |     |      |      |      |
| Owned .....                            | 13.0 | 134.5 | 12.9 | 86.4  | 7.5  | 3.4 | 13.0 | 21.3 | 13.0 | 4.9 | 13.0 | 20.9 | 3.4  |
| Rented .....                           | 6.2  | 88.1  | 6.1  | 52.7  | 2.7  | 2.1 | 6.1  | 19.9 | 6.1  | 3.4 | 6.2  | 12.2 | 5.6  |
| <b>Year of Construction</b>            |      |       |      |       |      |     |      |      |      |     |      |      |      |
| 1949 or Before .....                   | 8.9  | 127.7 | 8.7  | 84.8  | 3.7  | 2.2 | 8.8  | 21.5 | 8.8  | 4.2 | 8.9  | 17.6 | 4.9  |
| 1950 to 1979 .....                     | 8.8  | 119.2 | 8.7  | 72.9  | 5.5  | 3.4 | 8.7  | 21.5 | 8.7  | 4.7 | 8.8  | 18.8 | 4.6  |
| 1980 or After <sup>2</sup> .....       | 1.6  | 76.4  | 1.6  | 39.2  | .9   | 4.6 | 1.6  | 14.1 | 1.6  | 4.2 | 1.6  | 16.7 | 11.8 |
| <b>1990 Family Income</b>              |      |       |      |       |      |     |      |      |      |     |      |      |      |
| Less than \$10,000 .....               | 2.9  | 95.0  | 2.8  | 63.0  | .8   | 1.7 | 2.8  | 17.3 | 2.8  | 3.5 | 2.9  | 11.6 | 9.6  |
| \$10,000 to \$19,999 .....             | 3.4  | 104.1 | 3.3  | 69.6  | 1.5  | 2.0 | 3.3  | 18.0 | 3.3  | 3.6 | 3.4  | 13.5 | 6.6  |
| \$20,000 to \$34,999 .....             | 4.5  | 108.0 | 4.5  | 66.3  | 2.2  | 2.5 | 4.5  | 20.1 | 4.5  | 4.2 | 4.5  | 17.2 | 6.0  |
| \$35,000 or More .....                 | 8.5  | 140.2 | 8.4  | 87.0  | 5.6  | 3.8 | 8.4  | 23.6 | 8.5  | 5.2 | 8.5  | 22.6 | 4.3  |
| <b>Below Poverty Line</b>              |      |       |      |       |      |     |      |      |      |     |      |      |      |
| 100 Percent .....                      | 2.2  | 100.9 | 2.2  | 63.0  | .6   | 1.4 | 2.2  | 21.6 | 2.2  | 3.2 | 2.2  | 13.4 | 9.3  |
| 125 Percent .....                      | 3.0  | 102.4 | 3.0  | 64.9  | .9   | 1.8 | 3.0  | 20.5 | 2.9  | 3.5 | 3.0  | 13.9 | 8.2  |
| <b>Age of Householder</b>              |      |       |      |       |      |     |      |      |      |     |      |      |      |
| Under 35 Years .....                   | 5.3  | 107.0 | 5.2  | 63.1  | 2.7  | 2.9 | 5.3  | 22.8 | 5.2  | 3.9 | 5.3  | 16.5 | 6.0  |
| 35 to 59 Years .....                   | 8.3  | 127.8 | 8.3  | 76.9  | 4.4  | 3.8 | 8.2  | 23.2 | 8.3  | 4.8 | 8.3  | 21.6 | 4.5  |
| 60 Years and Over .....                | 5.6  | 119.2 | 5.5  | 85.2  | 3.0  | 2.2 | 5.6  | 15.7 | 5.6  | 4.4 | 5.6  | 14.4 | 5.6  |
| <b>Household Size</b>                  |      |       |      |       |      |     |      |      |      |     |      |      |      |
| 1 Person .....                         | 4.5  | 81.6  | 4.5  | 57.3  | 2.4  | 2.1 | 4.5  | 11.8 | 4.5  | 3.5 | 4.5  | 9.1  | 6.4  |
| 2 to 4 Persons .....                   | 12.5 | 128.0 | 12.4 | 80.4  | 6.7  | 3.3 | 12.4 | 22.6 | 12.4 | 4.7 | 12.5 | 19.6 | 2.4  |
| 5 or More Persons .....                | 2.2  | 150.6 | 2.2  | 85.4  | 1.0  | 4.2 | 2.2  | 30.1 | 2.2  | 5.1 | 2.2  | 28.1 | 8.0  |

See footnotes at end of table.



Table 12. Consumption by End Uses, per Northeast Region Household, 1990 (Continued)

| Characteristics                        | All Uses             |                           | Space Heating        |                           | Air Conditioning     |                           | Water Heating        |                           | Refrigerator         |                           | Appliances           |                           | RSE Row Factors |
|--|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|-----------------|
|  | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) |                 |
|  |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| RSE Column Factors:                    | 1.1                  | 0.7                       | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        |                 |
| <b>New England Division</b>            | 4.5                  | 113.9                     | 4.5                  | 74.5                      | 2.0                  | 2.1                       | 4.5                  | 19.8                      | 4.5                  | 3.8                       | 4.5                  | 15.7                      | 4.1             |
| <b>Climate Zone<sup>1</sup></b>        |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 2,000 HDD                        | 4.5                  | 113.9                     | 4.5                  | 74.6                      | 2.0                  | 2.1                       | 4.5                  | 19.8                      | 4.5                  | 3.8                       | 4.5                  | 15.7                      | 4.1             |
| Over 5,500 HDD                         | Q                    | Q                         | Q                    | Q                         | NC                   | NC                        | Q                    | Q                         | Q                    | Q                         | Q                    | Q                         | NF              |
| Under 5,500 HDD and 2,000 CDD or More  | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC              |
| Under 4,000 HDD                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC              |
| <b>Type of Housing Unit</b>            |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Single-Family                          | 2.5                  | 132.5                     | 2.5                  | 90.7                      | 1.1                  | 2.6                       | 2.5                  | 18.8                      | 2.5                  | 4.4                       | 2.5                  | 18.6                      | 4.9             |
| Mobile Home                            | .2                   | 87.7                      | .2                   | 58.4                      | Q                    | Q                         | .2                   | 11.1                      | .2                   | 2.5                       | .2                   | 15.3                      | 16.8            |
| Multifamily (2 or more units)          | 1.9                  | 90.8                      | 1.8                  | 54.0                      | .9                   | 1.5                       | 1.8                  | 21.9                      | 1.8                  | 3.2                       | 1.9                  | 11.8                      | 7.4             |
| <b>Heated Floorspace (square feet)</b> |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Fewer than 1,000                       | 1.4                  | 75.1                      | 1.4                  | 42.6                      | .6                   | 1.3                       | 1.4                  | 19.0                      | 1.4                  | 3.0                       | 1.4                  | 10.6                      | 5.4             |
| 1,000 to 1,999                         | 1.6                  | 116.1                     | 1.6                  | 75.3                      | .7                   | 2.3                       | 1.6                  | 20.0                      | 1.6                  | 3.9                       | 1.6                  | 17.1                      | 8.3             |
| 2,000 or More                          | 1.5                  | 149.8                     | 1.5                  | 105.3                     | .7                   | 2.6                       | 1.4                  | 20.3                      | 1.5                  | 4.6                       | 1.5                  | 19.1                      | 6.6             |
| <b>Ownership of Unit</b>               |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Owned                                  | 2.9                  | 127.4                     | 2.9                  | 86.0                      | 1.3                  | 2.3                       | 2.9                  | 19.4                      | 2.9                  | 4.1                       | 2.9                  | 17.7                      | 5.4             |
| Rented                                 | 1.7                  | 90.5                      | 1.6                  | 54.6                      | .7                   | 1.8                       | 1.6                  | 20.4                      | 1.6                  | 3.3                       | 1.7                  | 12.3                      | 6.3             |
| <b>Year of Construction</b>            |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1949 or Before                         | 2.1                  | 123.7                     | 2.1                  | 84.5                      | .8                   | 1.5                       | 2.1                  | 20.8                      | 2.0                  | 3.8                       | 2.1                  | 15.3                      | 7.1             |
| 1950 to 1979                           | 1.9                  | 110.6                     | 1.9                  | 70.6                      | 1.0                  | 2.2                       | 1.9                  | 19.5                      | 1.9                  | 4.1                       | 1.9                  | 16.1                      | 8.5             |
| 1980 or After <sup>2</sup>             | .6                   | 86.3                      | .6                   | 50.9                      | .2                   | 4.1                       | .6                   | 17.1                      | .6                   | 3.1                       | .6                   | 15.6                      | 18.0            |
| <b>1990 Family Income</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Less than \$10,000                     | .8                   | 94.3                      | .8                   | 63.0                      | .3                   | 1.3                       | .8                   | 17.9                      | .7                   | 3.5                       | .8                   | 10.7                      | 10.5            |
| \$10,000 to \$19,999                   | .8                   | 109.6                     | .8                   | 74.1                      | .3                   | 1.6                       | .8                   | 18.1                      | .8                   | 3.6                       | .8                   | 13.3                      | 11.4            |
| \$20,000 to \$34,999                   | 1.1                  | 102.4                     | 1.1                  | 65.1                      | .5                   | 2.0                       | 1.1                  | 18.3                      | 1.1                  | 3.5                       | 1.1                  | 15.1                      | 8.9             |
| \$35,000 or More                       | 1.9                  | 130.9                     | 1.8                  | 85.3                      | 1.0                  | 2.5                       | 1.9                  | 22.2                      | 1.9                  | 4.3                       | 1.9                  | 19.1                      | 6.6             |
| <b>Below Poverty Line</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 100 Percent                            | .6                   | 103.8                     | .6                   | 61.7                      | .2                   | 1.3                       | .6                   | 24.4                      | .6                   | 3.5                       | .6                   | 13.9                      | 11.2            |
| 125 Percent                            | .8                   | 96.5                      | .8                   | 59.1                      | .2                   | 1.5                       | .8                   | 21.7                      | .8                   | 3.5                       | .8                   | 12.9                      | 10.8            |
| <b>Age of Householder</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 35 Years                         | 1.3                  | 104.1                     | 1.2                  | 60.8                      | .6                   | 2.3                       | 1.2                  | 23.6                      | 1.2                  | 3.4                       | 1.3                  | 15.8                      | 7.0             |
| 35 to 59 Years                         | 1.9                  | 120.9                     | 1.9                  | 77.0                      | .7                   | 2.4                       | 1.9                  | 21.6                      | 1.9                  | 4.0                       | 1.9                  | 18.1                      | 6.8             |
| 60 Years and Over                      | 1.4                  | 113.5                     | 1.4                  | 83.5                      | .7                   | 1.7                       | 1.4                  | 14.0                      | 1.4                  | 4.1                       | 1.4                  | 12.5                      | 8.9             |
| <b>Household Size</b>                  |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1 Person                               | 1.2                  | 82.5                      | 1.2                  | 58.9                      | .5                   | 1.8                       | 1.2                  | 11.5                      | 1.2                  | 3.4                       | 1.2                  | 8.6                       | 7.5             |
| 2 to 4 Persons                         | 3.0                  | 124.6                     | 2.9                  | 80.8                      | 1.4                  | 2.2                       | 3.0                  | 21.9                      | 2.9                  | 4.1                       | 3.0                  | 17.8                      | 5.1             |
| 5 or More Persons                      | .4                   | 132.6                     | .4                   | 76.4                      | .1                   | 2.1                       | .3                   | 30.3                      | .4                   | 3.5                       | .4                   | 22.7                      | 10.1            |

See footnotes at end of table.

Table 12. Consumption by End Uses, per Northeast Region Household, 1990 (Continued)

| Characteristics                        | All Uses             |                           | Space Heating        |                           | Air Conditioning     |                           | Water Heating        |                           | Refrigerator         |                           | Appliances           |                           | RSE Row Factors |
|--|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|-----------------|
|  | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) |                 |
|  | RSE Column Factors:  | 1.1                       | 0.7                  | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        |                 |
| <b>Middle Atlantic Division</b> .....  | 14.7                 | 121.3                     | 14.5                 | 75.8                      | 8.1                  | 3.3                       | 14.6                 | 21.2                      | 14.6                 | 4.6                       | 14.7                 | 18.9                      | 2.7             |
| <b>Climate Zone<sup>1</sup></b>        |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 2,000 CDD and                    |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Over 5,500 HDD .....                   | 7.8                  | 126.4                     | 7.7                  | 82.1                      | 3.5                  | 3.0                       | 7.8                  | 20.0                      | 7.7                  | 4.6                       | 7.8                  | 19.9                      | 7.7             |
| Under 5,500 HDD .....                  | 6.9                  | 115.5                     | 6.8                  | 68.8                      | 4.6                  | 3.6                       | 6.8                  | 22.6                      | 6.9                  | 4.6                       | 6.9                  | 17.7                      | 7.0             |
| 2,000 CDD or More and                  |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 4,000 HDD .....                  | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC              |
| <b>Type of Housing Unit</b>            |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Single-Family .....                    | 9.3                  | 139.0                     | 9.2                  | 88.4                      | 5.3                  | 3.9                       | 9.3                  | 21.9                      | 9.3                  | 5.3                       | 9.3                  | 22.5                      | 4.7             |
| Mobile Home .....                      | Q                    | 81.2                      | Q                    | 50.5                      | Q                    | Q                         | Q                    | 10.6                      | Q                    | 3.3                       | Q                    | 15.5                      | 36.1            |
| Multifamily (2 or more units) .....    | 5.0                  | 91.1                      | 4.9                  | 54.2                      | 2.6                  | 2.1                       | 4.9                  | 20.8                      | 4.9                  | 3.5                       | 5.0                  | 12.3                      | 7.7             |
| <b>Heated Floorspace (square feet)</b> |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Fewer than 1,000 .....                 | 3.7                  | 75.8                      | 3.6                  | 44.7                      | 1.9                  | 2.1                       | 3.6                  | 17.6                      | 3.6                  | 3.1                       | 3.7                  | 10.4                      | 9.5             |
| 1,000 to 1,999 .....                   | 5.4                  | 115.1                     | 5.4                  | 69.9                      | 2.9                  | 3.0                       | 5.4                  | 21.4                      | 5.4                  | 4.5                       | 5.4                  | 18.7                      | 4.7             |
| 2,000 or More .....                    | 5.6                  | 157.1                     | 5.6                  | 101.7                     | 3.3                  | 4.3                       | 5.5                  | 23.4                      | 5.6                  | 5.7                       | 5.6                  | 24.5                      | 7.0             |
| <b>Ownership of Unit</b>               |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Owned .....                            | 10.2                 | 136.5                     | 10.0                 | 86.5                      | 6.1                  | 3.7                       | 10.1                 | 21.9                      | 10.2                 | 5.2                       | 10.2                 | 21.8                      | 4.0             |
| Rented .....                           | 4.5                  | 87.2                      | 4.5                  | 51.9                      | 2.0                  | 2.2                       | 4.5                  | 19.8                      | 4.4                  | 3.4                       | 4.5                  | 12.1                      | 7.5             |
| <b>Year of Construction</b>            |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1949 or Before .....                   | 6.8                  | 128.9                     | 6.7                  | 84.9                      | 2.9                  | 2.4                       | 6.7                  | 21.8                      | 6.7                  | 4.3                       | 6.8                  | 18.3                      | 6.2             |
| 1950 to 1979 .....                     | 6.9                  | 121.6                     | 6.8                  | 73.5                      | 4.5                  | 3.7                       | 6.8                  | 22.0                      | 6.8                  | 4.9                       | 6.9                  | 19.6                      | 5.4             |
| 1980 or After <sup>2</sup> .....       | 1.0                  | 70.1                      | 1.0                  | 32.9                      | .7                   | 4.7                       | 1.0                  | 12.5                      | 1.0                  | 4.7                       | 1.0                  | 17.3                      | 15.4            |
| <b>1990 Family Income</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Less than \$10,000 .....               | 2.1                  | 95.2                      | 2.1                  | 63.1                      | .6                   | 1.8                       | 2.1                  | 17.1                      | 2.1                  | 3.4                       | 2.1                  | 11.9                      | 12.9            |
| \$10,000 to \$19,999 .....             | 2.6                  | 102.4                     | 2.5                  | 68.3                      | 1.2                  | 2.0                       | 2.5                  | 18.0                      | 2.5                  | 3.6                       | 2.6                  | 13.5                      | 7.9             |
| \$20,000 to \$34,999 .....             | 3.4                  | 109.9                     | 3.4                  | 66.7                      | 1.7                  | 2.7                       | 3.4                  | 20.7                      | 3.4                  | 4.4                       | 3.4                  | 17.9                      | 7.5             |
| \$35,000 or More .....                 | 6.6                  | 142.8                     | 6.5                  | 87.5                      | 4.6                  | 4.1                       | 6.6                  | 24.0                      | 6.6                  | 5.5                       | 6.6                  | 23.6                      | 5.1             |
| <b>Below Poverty Line</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 100 Percent .....                      | 1.6                  | 99.9                      | 1.6                  | 63.5                      | .4                   | 1.4                       | 1.6                  | 20.7                      | 1.6                  | 3.1                       | 1.6                  | 13.3                      | 12.0            |
| 125 Percent .....                      | 2.2                  | 104.5                     | 2.2                  | 66.9                      | .6                   | 1.9                       | 2.2                  | 20.1                      | 2.2                  | 3.5                       | 2.2                  | 14.3                      | 10.7            |
| <b>Age of Householder</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 35 Years .....                   | 4.0                  | 107.9                     | 4.0                  | 63.8                      | 2.1                  | 3.1                       | 4.0                  | 22.6                      | 3.9                  | 4.0                       | 4.0                  | 16.8                      | 7.6             |
| 35 to 59 Years .....                   | 6.4                  | 129.8                     | 6.4                  | 76.8                      | 3.7                  | 4.0                       | 6.4                  | 23.6                      | 6.4                  | 5.0                       | 6.4                  | 22.7                      | 5.3             |
| 60 Years and Over .....                | 4.2                  | 121.1                     | 4.1                  | 85.9                      | 2.3                  | 2.4                       | 4.2                  | 16.3                      | 4.2                  | 4.6                       | 4.2                  | 15.1                      | 7.1             |
| <b>Household Size</b>                  |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1 Person .....                         | 3.3                  | 81.3                      | 3.3                  | 56.7                      | 1.9                  | 2.2                       | 3.3                  | 11.9                      | 3.3                  | 3.5                       | 3.3                  | 9.3                       | 8.5             |
| 2 to 4 Persons .....                   | 9.5                  | 129.0                     | 9.4                  | 80.3                      | 5.3                  | 3.5                       | 9.5                  | 22.8                      | 9.5                  | 4.8                       | 9.5                  | 20.2                      | 2.9             |
| 5 or More Persons .....                | 1.8                  | 154.1                     | 1.8                  | 87.2                      | .9                   | 4.5                       | 1.8                  | 30.1                      | 1.8                  | 5.4                       | 1.8                  | 29.2                      | 9.1             |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Consumption and Expenditure data are for major energy sources which include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 13. Expenditures by End Uses, per Northeast Region Household, 1990

| Characteristics                        | All Uses             |                        | Space Heating        |                        | Air Conditioning     |                        | Water Heating        |                        | Refrigerator         |                        | Appliances           |                        | RSE Row Factors |
|--|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|-----------------|
|  | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) |                 |
|  | 1.1                  | 0.6                    | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     |                 |
| Northeast Region                       |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| <b>Total Region</b> .....              | 19.2                 | 1,471                  | 19.0                 | 601                    | 10.1                 | 102                    | 19.1                 | 202                    | 19.1                 | 146                    | 19.2                 | 478                    | 3.6             |
| <b>Climate Zone<sup>1</sup></b>        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 2,000 CDD and                    |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Over 5,500 HDD .....                   | 12.3                 | 1,458                  | 12.1                 | 626                    | 5.6                  | 80                     | 12.3                 | 207                    | 12.2                 | 129                    | 12.3                 | 470                    | 4.6             |
| Under 5,500 HDD .....                  | 6.9                  | 1,495                  | 6.9                  | 555                    | 4.6                  | 129                    | 6.8                  | 193                    | 6.9                  | 175                    | 6.9                  | 491                    | 7.8             |
| 2,000 CDD or More and                  |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 4,000 HDD .....                  | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC              |
| <b>Type of Housing Unit</b>            |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Single-Family .....                    | 11.9                 | 1,707                  | 11.7                 | 702                    | 6.4                  | 121                    | 11.8                 | 214                    | 11.8                 | 160                    | 11.9                 | 574                    | 3.9             |
| Mobile Home .....                      | .5                   | 1,177                  | .5                   | 481                    | Q                    | 47                     | .5                   | 242                    | .5                   | 72                     | .5                   | 363                    | 31.3            |
| Multifamily (2 or more units)          | 6.8                  | 1,084                  | 6.8                  | 434                    | 3.5                  | 70                     | 6.8                  | 178                    | 6.7                  | 126                    | 6.8                  | 319                    | 5.8             |
| <b>Heated Floorspace (square feet)</b> |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Fewer than 1,000 .....                 | 5.1                  | 945                    | 5.0                  | 371                    | 2.5                  | 65                     | 5.0                  | 174                    | 5.0                  | 106                    | 5.1                  | 271                    | 7.0             |
| 1,000 to 1,999 .....                   | 7.1                  | 1,415                  | 7.0                  | 571                    | 3.6                  | 90                     | 7.1                  | 207                    | 7.0                  | 139                    | 7.1                  | 461                    | 3.9             |
| 2,000 or More .....                    | 7.0                  | 1,908                  | 7.0                  | 795                    | 4.0                  | 136                    | 7.0                  | 218                    | 7.0                  | 181                    | 7.0                  | 644                    | 6.4             |
| <b>Ownership of Unit</b>               |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Owned .....                            | 13.0                 | 1,669                  | 12.9                 | 684                    | 7.5                  | 113                    | 13.0                 | 211                    | 13.0                 | 159                    | 13.0                 | 558                    | 3.3             |
| Rented .....                           | 6.2                  | 1,054                  | 6.1                  | 426                    | 2.7                  | 70                     | 6.1                  | 182                    | 6.1                  | 116                    | 6.2                  | 310                    | 5.5             |
| <b>Year of Construction</b>            |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1949 or Before .....                   | 8.9                  | 1,457                  | 8.7                  | 641                    | 3.7                  | 76                     | 8.8                  | 196                    | 8.8                  | 144                    | 8.9                  | 456                    | 4.7             |
| 1950 to 1979 .....                     | 8.8                  | 1,514                  | 8.7                  | 589                    | 5.5                  | 115                    | 8.7                  | 201                    | 8.7                  | 153                    | 8.8                  | 506                    | 4.6             |
| 1980 or After <sup>2</sup> .....       | 1.6                  | 1,317                  | 1.6                  | 445                    | .9                   | 128                    | 1.6                  | 245                    | 1.6                  | 117                    | 1.6                  | 440                    | 11.2            |
| <b>1990 Family Income</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Less than \$10,000 .....               | 2.9                  | 1,044                  | 2.8                  | 486                    | .8                   | 52                     | 2.8                  | 146                    | 2.8                  | 116                    | 2.9                  | 289                    | 9.0             |
| \$10,000 to \$19,999 .....             | 3.4                  | 1,177                  | 3.3                  | 538                    | 1.5                  | 63                     | 3.3                  | 167                    | 3.3                  | 120                    | 3.4                  | 337                    | 7.1             |
| \$20,000 to \$34,999 .....             | 4.5                  | 1,373                  | 4.5                  | 549                    | 2.2                  | 76                     | 4.5                  | 218                    | 4.5                  | 133                    | 4.5                  | 444                    | 5.6             |
| \$35,000 or More .....                 | 8.5                  | 1,785                  | 8.4                  | 692                    | 5.6                  | 130                    | 8.4                  | 226                    | 8.5                  | 172                    | 8.5                  | 616                    | 4.2             |
| <b>Below Poverty Line</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 100 Percent .....                      | 2.2                  | 1,128                  | 2.2                  | 488                    | .6                   | 50                     | 2.2                  | 184                    | 2.2                  | 113                    | 2.2                  | 337                    | 9.4             |
| 125 Percent .....                      | 3.0                  | 1,155                  | 3.0                  | 498                    | .9                   | 59                     | 3.0                  | 183                    | 2.9                  | 119                    | 3.0                  | 347                    | 8.0             |
| <b>Age of Householder</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 35 Years .....                   | 5.3                  | 1,351                  | 5.2                  | 519                    | 2.7                  | 97                     | 5.3                  | 226                    | 5.2                  | 130                    | 5.3                  | 434                    | 6.1             |
| 35 to 59 Years .....                   | 8.3                  | 1,627                  | 8.3                  | 610                    | 4.4                  | 126                    | 8.2                  | 225                    | 8.3                  | 156                    | 8.3                  | 577                    | 4.1             |
| 60 Years and Over .....                | 5.6                  | 1,353                  | 5.5                  | 664                    | 3.0                  | 71                     | 5.6                  | 146                    | 5.6                  | 146                    | 5.6                  | 373                    | 5.9             |
| <b>Household Size</b>                  |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1 Person .....                         | 4.5                  | 968                    | 4.5                  | 471                    | 2.4                  | 68                     | 4.5                  | 116                    | 4.5                  | 116                    | 4.5                  | 240                    | 6.1             |
| 2 to 4 Persons .....                   | 12.5                 | 1,568                  | 12.4                 | 632                    | 6.7                  | 108                    | 12.4                 | 216                    | 12.4                 | 153                    | 12.5                 | 518                    | 2.3             |
| 5 or More Persons .....                | 2.2                  | 1,969                  | 2.2                  | 690                    | 1.0                  | 146                    | 2.2                  | 300                    | 2.2                  | 167                    | 2.2                  | 743                    | 8.6             |

See footnotes at end of table.

Table 13. Expenditures by End Uses, per Northeast Region Household, 1990 (Continued)

| Characteristics                                | All Uses             |                        | Space Heating        |                        | Air Conditioning     |                        | Water Heating        |                        | Refrigerator         |                        | Appliances           |                        | RSE Row Factors |
|--|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|-----------------|
|  | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) |                 |
| RSE Column Factors:                            | 1.1                  | 0.6                    | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     |                 |
| <b>New England Division</b> .....              | 4.5                  | 1,408                  | 4.5                  | 636                    | 2.0                  | 63                     | 4.5                  | 220                    | 4.5                  | 115                    | 4.5                  | 416                    | 4.3             |
| <b>Climate Zone<sup>1</sup></b>                |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 2,000 CDD and<br>Over 5,500 HDD .....    | 4.5                  | 1,406                  | 4.5                  | 635                    | 2.0                  | 63                     | 4.5                  | 220                    | 4.5                  | 115                    | 4.5                  | 416                    | 4.3             |
| Under 5,500 HDD .....                          | Q                    | Q                      | Q                    | Q                      | NC                   | NC                     | Q                    | Q                      | Q                    | Q                      | Q                    | Q                      | NF              |
| 2,000 CDD or More and<br>Under 4,000 HDD ..... | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC              |
| <b>Type of Housing Unit</b>                    |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Single-Family .....                            | 2.5                  | 1,662                  | 2.5                  | 765                    | 1.1                  | 76                     | 2.5                  | 233                    | 2.5                  | 130                    | 2.5                  | 509                    | 5.1             |
| Mobile Home .....                              | .2                   | 1,363                  | .2                   | 530                    | Q                    | Q                      | .2                   | 295                    | .2                   | 77                     | .2                   | 446                    | 14.7            |
| Multifamily (2 or more units) ..               | 1.9                  | 1,065                  | 1.8                  | 470                    | .9                   | 45                     | 1.8                  | 196                    | 1.8                  | 98                     | 1.9                  | 288                    | 7.0             |
| <b>Heated Floorspace<br/>(square feet)</b>     |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Fewer than 1,000 .....                         | 1.4                  | 969                    | 1.4                  | 397                    | .6                   | 40                     | 1.4                  | 195                    | 1.4                  | 92                     | 1.4                  | 275                    | 4.3             |
| 1,000 to 1,999 .....                           | 1.6                  | 1,443                  | 1.6                  | 638                    | .7                   | 67                     | 1.6                  | 230                    | 1.6                  | 117                    | 1.6                  | 439                    | 7.3             |
| 2,000 or More .....                            | 1.5                  | 1,802                  | 1.5                  | 871                    | .7                   | 78                     | 1.4                  | 233                    | 1.5                  | 137                    | 1.5                  | 531                    | 7.3             |
| <b>Ownership of Unit</b>                       |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Owned .....                                    | 2.9                  | 1,579                  | 2.9                  | 720                    | 1.3                  | 67                     | 2.9                  | 229                    | 2.9                  | 124                    | 2.9                  | 482                    | 5.7             |
| Rented .....                                   | 1.7                  | 1,111                  | 1.6                  | 492                    | .7                   | 54                     | 1.6                  | 204                    | 1.6                  | 100                    | 1.7                  | 303                    | 5.3             |
| <b>Year of Construction</b>                    |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1949 or Before .....                           | 2.1                  | 1,387                  | 2.1                  | 686                    | .8                   | 43                     | 2.1                  | 207                    | 2.0                  | 112                    | 2.1                  | 377                    | 6.6             |
| 1950 to 1979 .....                             | 1.9                  | 1,450                  | 1.9                  | 621                    | 1.0                  | 67                     | 1.9                  | 223                    | 1.9                  | 126                    | 1.9                  | 451                    | 8.0             |
| 1980 or After <sup>2</sup> .....               | .6                   | 1,338                  | .6                   | 505                    | .2                   | 117                    | .6                   | 257                    | .6                   | 90                     | .6                   | 442                    | 16.9            |
| <b>1990 Family Income</b>                      |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Less than \$10,000 .....                       | .8                   | 1,071                  | .8                   | 531                    | .3                   | 41                     | .8                   | 163                    | .7                   | 104                    | .8                   | 273                    | 10.2            |
| \$10,000 to \$19,999 .....                     | .8                   | 1,280                  | .8                   | 624                    | .3                   | 46                     | .8                   | 191                    | .8                   | 111                    | .8                   | 338                    | 10.6            |
| \$20,000 to \$34,999 .....                     | 1.1                  | 1,318                  | 1.1                  | 561                    | .5                   | 59                     | 1.1                  | 220                    | 1.1                  | 108                    | 1.1                  | 407                    | 9.3             |
| \$35,000 or More .....                         | 1.9                  | 1,655                  | 1.8                  | 731                    | 1.0                  | 75                     | 1.9                  | 255                    | 1.9                  | 126                    | 1.9                  | 514                    | 6.6             |
| <b>Below Poverty Line</b>                      |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 100 Percent .....                              | .6                   | 1,201                  | .6                   | 530                    | .2                   | 40                     | .6                   | 215                    | .6                   | 105                    | .6                   | 340                    | 11.0            |
| 125 Percent .....                              | .8                   | 1,150                  | .8                   | 513                    | .2                   | 45                     | .8                   | 204                    | .8                   | 106                    | .8                   | 326                    | 10.3            |
| <b>Age of Householder</b>                      |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 35 Years .....                           | 1.3                  | 1,301                  | 1.2                  | 532                    | .6                   | 68                     | 1.2                  | 240                    | 1.2                  | 103                    | 1.3                  | 399                    | 6.2             |
| 35 to 59 Years .....                           | 1.9                  | 1,546                  | 1.9                  | 661                    | .7                   | 70                     | 1.9                  | 251                    | 1.9                  | 120                    | 1.9                  | 493                    | 6.8             |
| 60 Years and Over .....                        | 1.4                  | 1,320                  | 1.4                  | 696                    | .7                   | 49                     | 1.4                  | 162                    | 1.4                  | 120                    | 1.4                  | 331                    | 8.9             |
| <b>Household Size</b>                          |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1 Person .....                                 | 1.2                  | 1,042                  | 1.2                  | 552                    | .5                   | 53                     | 1.2                  | 135                    | 1.2                  | 104                    | 1.2                  | 235                    | 6.9             |
| 2 to 4 Persons .....                           | 3.0                  | 1,530                  | 2.9                  | 673                    | 1.4                  | 66                     | 3.0                  | 242                    | 2.9                  | 121                    | 3.0                  | 471                    | 5.2             |
| 5 or More Persons .....                        | .4                   | 1,645                  | .4                   | 620                    | .1                   | 65                     | .3                   | 329                    | .4                   | 104                    | .4                   | 580                    | 10.3            |

See footnotes at end of table.

Table 13. Expenditures by End Uses, per Northeast Region Household, 1990 (Continued)

| Characteristics                        | All Uses             |                        | Space Heating        |                        | Air Conditioning     |                        | Water Heating        |                        | Refrigerator         |                        | Appliances           |                        | RSE Row Factors |
|--|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|-----------------|
|  | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) |                 |
| RSE Column Factors:                    | 1.1                  | 0.6                    | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     |                 |
| <b>Middle Atlantic Division</b> .....  | 14.7                 | 1,491                  | 14.5                 | 590                    | 8.1                  | 112                    | 14.6                 | 197                    | 14.6                 | 155                    | 14.7                 | 497                    | 2.7             |
| <b>Climate Zone<sup>1</sup></b>        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 2,000 CDD and                    |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Over 5,500 HDD .....                   | 7.8                  | 1,488                  | 7.7                  | 621                    | 3.5                  | 89                     | 7.8                  | 200                    | 7.7                  | 137                    | 7.8                  | 502                    | 7.4             |
| Under 5,500 HDD .....                  | 6.9                  | 1,494                  | 6.8                  | 554                    | 4.6                  | 129                    | 6.8                  | 193                    | 6.9                  | 175                    | 6.9                  | 491                    | 7.8             |
| 2,000 CDD or More and                  |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 4,000 HDD .....                  | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC              |
| <b>Type of Housing Unit</b>            |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Single-Family .....                    | 9.3                  | 1,719                  | 9.2                  | 685                    | 5.3                  | 131                    | 9.3                  | 209                    | 9.3                  | 169                    | 9.3                  | 592                    | 4.7             |
| Mobile Home .....                      | Q                    | 1,102                  | Q                    | 462                    | Q                    | Q                      | Q                    | Q                      | Q                    | 69                     | Q                    | Q                      | 33.2            |
| Multifamily (2 or more units) ..       | 5.0                  | 1,091                  | 4.9                  | 420                    | 2.6                  | 78                     | 4.9                  | 171                    | 4.9                  | 136                    | 5.0                  | 331                    | 7.9             |
| <b>Heated Floorspace (square feet)</b> |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Fewer than 1,000 .....                 | 3.7                  | 935                    | 3.6                  | 361                    | 1.9                  | 73                     | 3.6                  | 165                    | 3.6                  | 112                    | 3.7                  | 269                    | 9.5             |
| 1,000 to 1,999 .....                   | 5.4                  | 1,406                  | 5.4                  | 550                    | 2.9                  | 96                     | 5.4                  | 200                    | 5.4                  | 146                    | 5.4                  | 468                    | 4.8             |
| 2,000 or More .....                    | 5.6                  | 1,936                  | 5.6                  | 775                    | 3.3                  | 148                    | 5.5                  | 214                    | 5.6                  | 192                    | 5.6                  | 674                    | 7.7             |
| <b>Ownership of Unit</b>               |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Owned .....                            | 10.2                 | 1,694                  | 10.0                 | 673                    | 6.1                  | 124                    | 10.1                 | 206                    | 10.2                 | 169                    | 10.2                 | 579                    | 3.8             |
| Rented .....                           | 4.5                  | 1,033                  | 4.5                  | 401                    | 2.0                  | 75                     | 4.5                  | 175                    | 4.4                  | 122                    | 4.5                  | 312                    | 7.5             |
| <b>Year of Construction</b>            |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1949 or Before .....                   | 6.8                  | 1,478                  | 6.7                  | 627                    | 2.9                  | 86                     | 6.7                  | 192                    | 6.7                  | 153                    | 6.8                  | 481                    | 6.0             |
| 1950 to 1979 .....                     | 6.9                  | 1,531                  | 6.8                  | 580                    | 4.5                  | 126                    | 6.8                  | 195                    | 6.8                  | 160                    | 6.9                  | 522                    | 5.4             |
| 1980 or After <sup>2</sup> .....       | 1.0                  | 1,306                  | 1.0                  | 413                    | .7                   | 131                    | 1.0                  | 238                    | 1.0                  | 131                    | 1.0                  | 439                    | 14.0            |
| <b>1990 Family Income</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Less than \$10,000 .....               | 2.1                  | 1,034                  | 2.1                  | 469                    | .6                   | 57                     | 2.1                  | 140                    | 2.1                  | 121                    | 2.1                  | 295                    | 12.2            |
| \$10,000 to \$19,999 .....             | 2.6                  | 1,146                  | 2.5                  | 511                    | 1.2                  | 67                     | 2.5                  | 159                    | 2.5                  | 123                    | 2.6                  | 337                    | 8.8             |
| \$20,000 to \$34,999 .....             | 3.4                  | 1,391                  | 3.4                  | 545                    | 1.7                  | 81                     | 3.4                  | 217                    | 3.4                  | 141                    | 3.4                  | 456                    | 6.9             |
| \$35,000 or More .....                 | 6.6                  | 1,822                  | 6.5                  | 681                    | 4.6                  | 142                    | 6.6                  | 218                    | 6.6                  | 185                    | 6.6                  | 644                    | 4.9             |
| <b>Below Poverty Line</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 100 Percent .....                      | 1.6                  | 1,102                  | 1.6                  | 473                    | .4                   | 53                     | 1.6                  | 173                    | 1.6                  | 115                    | 1.6                  | 335                    | 12.0            |
| 125 Percent .....                      | 2.2                  | 1,157                  | 2.2                  | 493                    | .6                   | 63                     | 2.2                  | 176                    | 2.2                  | 124                    | 2.2                  | 355                    | 10.6            |
| <b>Age of Householder</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 35 Years .....                   | 4.0                  | 1,367                  | 4.0                  | 515                    | 2.1                  | 106                    | 4.0                  | 222                    | 3.9                  | 138                    | 4.0                  | 445                    | 7.7             |
| 35 to 59 Years .....                   | 6.4                  | 1,651                  | 6.4                  | 595                    | 3.7                  | 137                    | 6.4                  | 217                    | 6.4                  | 166                    | 6.4                  | 601                    | 4.7             |
| 60 Years and Over .....                | 4.2                  | 1,364                  | 4.1                  | 654                    | 2.3                  | 78                     | 4.2                  | 140                    | 4.2                  | 155                    | 4.2                  | 387                    | 7.5             |
| <b>Household Size</b>                  |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1 Person .....                         | 3.3                  | 940                    | 3.3                  | 440                    | 1.9                  | 72                     | 3.3                  | 109                    | 3.3                  | 120                    | 3.3                  | 242                    | 8.2             |
| 2 to 4 Persons .....                   | 9.5                  | 1,579                  | 9.4                  | 619                    | 5.3                  | 118                    | 9.5                  | 208                    | 9.5                  | 162                    | 9.5                  | 533                    | 2.7             |
| 5 or More Persons .....                | 1.8                  | 2,033                  | 1.8                  | 704                    | .9                   | 157                    | 1.8                  | 295                    | 1.8                  | 180                    | 1.8                  | 775                    | 9.8             |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Consumption and Expenditure data are for major energy sources which include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

SPACE-HEATING CONSUMPTION/EXPENDITURES

Table 14. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in Northeast Region Households, 1990

| Characteristics                             | Electricity          |                |               |                                      | Natural Gas          |                |                      |                                      | RSE Row Factors |
|---|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|-----------------|
|   | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                 |
|   |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |                 |
| RSE Column Factors:                         | 0.8                  | NF             | NF            | NF                                   | 0.8                  | NF             | NF                   | NF                                   |                 |
| Northeast Region                            |                      |                |               |                                      |                      |                |                      |                                      |                 |
| <b>Total Region</b> .....                   | 4.8                  | 40.8           | 12.0          | 1.09                                 | 8.9                  | 715.6          | 692                  | 4.92                                 | 9.0             |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 2,000 HDD and Over 5,500 HDD .....    | 3.6                  | 31.3           | 9.2           | .82                                  | 5.1                  | 451.0          | 436                  | 2.94                                 | 12.8            |
| Under 5,500 HDD .....                       | 1.2                  | 9.5            | 2.8           | .27                                  | 3.8                  | 264.6          | 256                  | 1.98                                 | 21.7            |
| 2,000 HDD or More and Under 4,000 HDD ..... | NC                   | NC             | NC            | NC                                   | NC                   | NC             | NC                   | NC                                   | NC              |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Single-Family .....                         | 3.2                  | 30.7           | 9.0           | .80                                  | 5.5                  | 506.3          | 489                  | 3.34                                 | 12.3            |
| Mobile Home .....                           | Q                    | Q              | Q             | Q                                    | Q                    | Q              | Q                    | Q                                    | NF              |
| Multifamily (2 or more units) .....         | 1.5                  | 8.9            | 2.6           | .27                                  | 3.4                  | 207.4          | 201                  | 1.56                                 | 13.3            |
| <b>Heated Floorspace (Square Feet)</b>      |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Fewer than 1,000 .....                      | 1.3                  | 8.8            | 2.6           | .26                                  | 2.1                  | 105.8          | 102                  | .78                                  | 15.9            |
| 1,000 to 1,999 .....                        | 1.6                  | 14.4           | 4.2           | .36                                  | 3.5                  | 272.2          | 263                  | 1.91                                 | 14.3            |
| 2,000 or More .....                         | 2.0                  | 17.6           | 5.2           | .47                                  | 3.3                  | 337.7          | 327                  | 2.23                                 | 14.8            |
| <b>Ownership of Unit</b>                    |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Owned .....                                 | 3.4                  | 30.2           | 8.9           | .78                                  | 5.8                  | 534.6          | 517                  | 3.60                                 | 10.5            |
| Rented .....                                | 1.4                  | 10.6           | 3.1           | .31                                  | 3.1                  | 181.1          | 175                  | 1.31                                 | 12.1            |
| <b>Year of Construction</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1949 or Before .....                        | 1.6                  | 6.3            | 1.9           | .19                                  | 4.6                  | 402.9          | 390                  | 2.80                                 | 13.6            |
| 1950 to 1979 .....                          | 2.3                  | 22.3           | 6.5           | .59                                  | 3.8                  | 289.0          | 280                  | 1.95                                 | 13.3            |
| 1980 or After <sup>2</sup> .....            | .9                   | 12.2           | 3.6           | .31                                  | .4                   | 23.8           | 23                   | .17                                  | 31.7            |
| <b>1990 Family Income</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Less than \$10,000 .....                    | .5                   | 3.1            | .9            | .09                                  | 1.3                  | 88.9           | 86                   | .63                                  | 23.9            |
| \$10,000 to \$19,999 .....                  | .9                   | 4.6            | 1.4           | .13                                  | 1.7                  | 127.4          | 123                  | .88                                  | 18.2            |
| \$20,000 to \$34,999 .....                  | 1.2                  | 11.9           | 3.5           | .31                                  | 1.8                  | 130.1          | 126                  | .91                                  | 14.3            |
| \$35,000 or More .....                      | 2.3                  | 21.2           | 6.2           | .57                                  | 4.0                  | 369.2          | 357                  | 2.50                                 | 10.3            |
| <b>Below Poverty Line</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 100 Percent .....                           | 4                    | 2.3            | .7            | .07                                  | 1.1                  | 76.6           | 74                   | .54                                  | 24.0            |
| 125 Percent .....                           | .5                   | 3.2            | .9            | .09                                  | 1.4                  | 102.8          | 99                   | .72                                  | 21.3            |
| <b>Age of Householder</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 35 Years .....                        | 1.4                  | 11.9           | 3.5           | .33                                  | 2.3                  | 160.4          | 155                  | 1.12                                 | 13.1            |
| 35 to 59 Years .....                        | 2.2                  | 18.9           | 5.5           | .50                                  | 4.0                  | 330.2          | 319                  | 2.24                                 | 13.5            |
| 60 Years and Over .....                     | 1.3                  | 10.1           | 3.0           | .26                                  | 2.6                  | 225.0          | 218                  | 1.56                                 | 12.3            |
| <b>Household Size</b>                       |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1 Person .....                              | 1.3                  | 11.2           | 3.3           | .31                                  | 1.8                  | 112.4          | 109                  | .79                                  | 15.4            |
| 2 to 4 Persons .....                        | 3.0                  | 25.1           | 7.4           | .66                                  | 6.0                  | 512.5          | 496                  | 3.51                                 | 10.4            |
| 5 or More Persons .....                     | .5                   | 4.5            | 1.3           | .12                                  | 1.0                  | 90.7           | 88                   | .62                                  | 18.4            |

See footnotes at end of table.

NORTHEAST

SPACE-HEATING CONSUMPTION/EXPENDITURES

NORTHEAST

Table 14. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in Northeast Region Households, 1990 (Continued)

| Characteristics                             | Electricity          |                |               |                                      | Natural Gas          |                |                      |                                      | RSE Row Factors |
|---|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|-----------------|
|   | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                 |
|   |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |                 |
|   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| RSE Column Factors:                         | 0.8                  | NF             | NF            | 0.8                                  | NF                   | NF             | NF                   | NF                                   |                 |
| <b>New England Division</b> .....           | 1.5                  | 10.6           | 3.1           | 0.30                                 | 1.4                  | 98.7           | 95                   | 0.76                                 | 12.6            |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 1.5                  | 10.3           | 3.0           | .29                                  | 1.4                  | 98.7           | 95                   | .76                                  | 12.7            |
| Under 5,500 HDD .....                       | Q                    | Q              | Q             | Q                                    | NC                   | NC             | NC                   | NC                                   | NF              |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                   | NC             | NC            | NC                                   | NC                   | NC             | NC                   | NC                                   | NC              |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Single-Family .....                         | .8                   | 6.5            | 1.9           | .18                                  | .5                   | 46.9           | 45                   | .36                                  | 16.9            |
| Mobile Home .....                           | NC                   | NC             | NC            | NC                                   | NC                   | NC             | NC                   | NC                                   | NC              |
| Multifamily (2 or more units) .....         | .7                   | 4.1            | 1.2           | .12                                  | .8                   | 51.8           | 50                   | .40                                  | 18.8            |
| <b>Heated Floorspace (square feet)</b>      |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Fewer than 1,000 .....                      | .5                   | 3.6            | 1.1           | .11                                  | .5                   | 23.7           | 23                   | .18                                  | 18.5            |
| 1,000 to 1,999 .....                        | .5                   | 3.3            | 1.0           | .09                                  | .6                   | 45.1           | 44                   | .35                                  | 27.4            |
| 2,000 or More .....                         | .4                   | 3.7            | 1.1           | .10                                  | .3                   | 29.9           | 29                   | .23                                  | 16.1            |
| <b>Ownership of Unit</b>                    |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Owned .....                                 | .9                   | 6.0            | 1.8           | .17                                  | .7                   | 57.0           | 55                   | .43                                  | 13.2            |
| Rented .....                                | .6                   | 4.6            | 1.4           | .14                                  | .7                   | 41.8           | 40                   | .33                                  | 16.1            |
| <b>Year of Construction</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1949 or Before .....                        | .5                   | 2.1            | .6            | .06                                  | .7                   | 50.6           | 49                   | .38                                  | 22.9            |
| 1950 to 1979 .....                          | .7                   | 5.9            | 1.7           | .17                                  | .5                   | 37.3           | 36                   | .28                                  | 22.0            |
| 1980 or After <sup>2</sup> .....            | .3                   | Q              | Q             | Q                                    | .2                   | 10.9           | 10                   | .09                                  | 45.1            |
| <b>1990 Family Income</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Less than \$10,000 .....                    | .3                   | 1.5            | .4            | .05                                  | .2                   | 13.5           | 13                   | .10                                  | 24.5            |
| \$10,000 to \$19,999 .....                  | .2                   | 1.4            | .4            | .04                                  | .3                   | 28.9           | 28                   | .19                                  | 26.7            |
| \$20,000 to \$34,999 .....                  | .3                   | 1.8            | .5            | .05                                  | .3                   | 17.5           | 17                   | .14                                  | 22.7            |
| \$35,000 or More .....                      | .7                   | 5.9            | 1.7           | .17                                  | .5                   | 43.8           | 42                   | .33                                  | 13.5            |
| <b>Below Poverty Line</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 100 Percent .....                           | .2                   | 1.3            | .4            | .04                                  | .2                   | 15.0           | 15                   | .11                                  | 24.2            |
| 125 Percent .....                           | .3                   | 1.7            | .5            | .05                                  | .2                   | 16.3           | 16                   | .12                                  | 22.2            |
| <b>Age of Householder</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 35 Years .....                        | .5                   | 3.4            | 1.0           | .10                                  | .4                   | 29.0           | 28                   | .21                                  | 20.1            |
| 35 to 59 Years .....                        | .5                   | 4.4            | 1.3           | .12                                  | .6                   | 39.6           | 38                   | .31                                  | 17.3            |
| 60 Years and Over .....                     | .5                   | 2.9            | .9            | .08                                  | .4                   | 30.1           | 29                   | .24                                  | 23.6            |
| <b>Household Size</b>                       |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1 Person .....                              | .5                   | 5.3            | 1.5           | .15                                  | .2                   | 13.2           | 13                   | .10                                  | 19.6            |
| 2 to 4 Persons .....                        | .9                   | 5.0            | 1.5           | .14                                  | 1.0                  | 77.0           | 74                   | .59                                  | 14.6            |
| 5 or More Persons .....                     | Q                    | Q              | Q             | Q                                    | .1                   | 8.5            | 8                    | .07                                  | 25.0            |

See footnotes at end of table.

SPACE-HEATING CONSUMPTION/EXPENDITURES

Table 14. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in Northeast Region Households, 1990 (Continued)

| Characteristics                        | Electricity          |                |               |                                      |                      |                | Natural Gas          |                                      |      |  |  |  | RSE Row Factors |
|--|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|------|--|--|--|-----------------|
|  | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |      |  |  |  |                 |
|  |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |      |  |  |  |                 |
| RSE Column Factors:                    | 0.8                  | NI             | NI            | NI                                   | 0.8                  | NI             | NI                   | NI                                   |      |  |  |  |                 |
| Middle Atlantic Division               | 3.3                  | 30.2           | 8.9           | 0.79                                 | 7.5                  | 616.9          | 597                  | 4.16                                 | 10.7 |  |  |  |                 |
| <b>Climate Zone<sup>1</sup></b>        |                      |                |               |                                      |                      |                |                      |                                      |      |  |  |  |                 |
| Under 2,000 CDD and Over 5,500 HDD     | 2.2                  | 21.0           | 6.2           | .52                                  | 3.7                  | 352.3          | 341                  | 2.18                                 | 17.5 |  |  |  |                 |
| Under 5,500 HDD                        | 1.2                  | Q              | Q             | .26                                  | 3.8                  | 264.6          | 256                  | 1.98                                 | 18.0 |  |  |  |                 |
| 2,000 CDD or More and Under 4,000 HDD  | NC                   | NC             | NC            | NC                                   | NC                   | NC             | NC                   | NC                                   | NC   |  |  |  |                 |
| <b>Type of Housing Unit</b>            |                      |                |               |                                      |                      |                |                      |                                      |      |  |  |  |                 |
| Single-Family                          | 2.4                  | 24.3           | 7.1           | .62                                  | 5.0                  | 459.3          | 444                  | 2.98                                 | 13.8 |  |  |  |                 |
| Mobile Home                            | Q                    | Q              | Q             | Q                                    | Q                    | Q              | Q                    | Q                                    | NI   |  |  |  |                 |
| Multifamily (2 or more units)          | .8                   | 4.8            | 1.4           | .14                                  | 2.5                  | 155.6          | 151                  | 1.17                                 | 18.7 |  |  |  |                 |
| <b>Heated Floorspace (square feet)</b> |                      |                |               |                                      |                      |                |                      |                                      |      |  |  |  |                 |
| Fewer than 1,000                       | .7                   | 5.2            | 1.5           | .15                                  | 1.6                  | 82.0           | 79                   | .60                                  | 21.9 |  |  |  |                 |
| 1,000 to 1,999                         | 1.1                  | 11.1           | 3.3           | .27                                  | 3.0                  | 227.0          | 220                  | 1.56                                 | 16.8 |  |  |  |                 |
| 2,000 or More                          | 1.5                  | 13.9           | 4.1           | .36                                  | 3.0                  | 307.8          | 298                  | 2.01                                 | 16.6 |  |  |  |                 |
| <b>Ownership of Unit</b>               |                      |                |               |                                      |                      |                |                      |                                      |      |  |  |  |                 |
| Owned                                  | 2.5                  | 24.2           | 7.1           | .61                                  | 5.1                  | 477.6          | 462                  | 3.17                                 | 12.0 |  |  |  |                 |
| Rented                                 | .8                   | 6.0            | 1.8           | .17                                  | 2.4                  | 139.3          | 135                  | .99                                  | 17.3 |  |  |  |                 |
| <b>Year of Construction</b>            |                      |                |               |                                      |                      |                |                      |                                      |      |  |  |  |                 |
| 1949 or Before                         | 1.1                  | 4.3            | 1.2           | .13                                  | 4.0                  | 352.3          | 341                  | 2.41                                 | 17.4 |  |  |  |                 |
| 1950 to 1979                           | 1.6                  | 16.5           | 4.8           | .42                                  | 3.3                  | 251.7          | 244                  | 1.66                                 | 15.2 |  |  |  |                 |
| 1980 or After                          | .7                   | 9.5            | 2.8           | .24                                  | Q                    | Q              | Q                    | Q                                    | 26.1 |  |  |  |                 |
| <b>1990 Family Income</b>              |                      |                |               |                                      |                      |                |                      |                                      |      |  |  |  |                 |
| Less than \$10,000                     | .2                   | 1.6            | .5            | .04                                  | 1.1                  | 75.4           | 73                   | .53                                  | 27.6 |  |  |  |                 |
| \$10,000 to \$19,999                   | .6                   | 3.2            | .9            | .09                                  | 1.4                  | 103.5          | 100                  | .69                                  | 22.8 |  |  |  |                 |
| \$20,000 to \$34,999                   | 1.0                  | 10.2           | 3.0           | .26                                  | 1.5                  | 112.6          | 109                  | .77                                  | 16.5 |  |  |  |                 |
| \$35,000 or More                       | 1.6                  | 15.2           | 4.5           | .40                                  | 3.5                  | 325.5          | 315                  | 2.17                                 | 12.2 |  |  |  |                 |
| <b>Below Poverty Line</b>              |                      |                |               |                                      |                      |                |                      |                                      |      |  |  |  |                 |
| 100 Percent                            | Q                    | Q              | Q             | Q                                    | 9                    | 61.6           | 59                   | 43                                   | 31.4 |  |  |  |                 |
| 125 Percent                            | .2                   | 1.4            | .4            | .04                                  | 1.2                  | 86.5           | 83                   | .60                                  | 27.3 |  |  |  |                 |
| <b>Age of Householder</b>              |                      |                |               |                                      |                      |                |                      |                                      |      |  |  |  |                 |
| Under 35 Years                         | .9                   | 8.5            | 2.5           | .23                                  | 1.9                  | 131.4          | 127                  | .91                                  | 16.4 |  |  |  |                 |
| 35 to 59 Years                         | 1.6                  | 14.5           | 4.3           | .37                                  | 3.5                  | 290.6          | 281                  | 1.93                                 | 15.3 |  |  |  |                 |
| 60 Years and Over                      | .9                   | 7.2            | 2.1           | .18                                  | 2.2                  | 194.9          | 189                  | 1.32                                 | 14.4 |  |  |  |                 |
| <b>Household Size</b>                  |                      |                |               |                                      |                      |                |                      |                                      |      |  |  |  |                 |
| 1 Person                               | .8                   | 6.0            | 1.7           | .16                                  | 1.5                  | 99.2           | 96                   | .68                                  | 18.3 |  |  |  |                 |
| 2 to 4 Persons                         | 2.2                  | 20.1           | 5.9           | .52                                  | 5.1                  | 435.5          | 422                  | 2.92                                 | 12.2 |  |  |  |                 |
| 5 or More Persons                      | .4                   | 4.1            | 1.2           | .11                                  | .9                   | 82.2           | 79                   | .55                                  | 20.1 |  |  |  |                 |

1 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

2 Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NI = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, E, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

NORTHEAST



SPACE-HEATING CONSUMPTION/EXPENDITURES

NORTHEAST

Table 15. Total Fuel Oil, Kerosene, and LPG Consumption and Expenditures for Space Heating in Northeast Region Households, 1990

| Characteristics                             | Fuel Oil             |                |                   |                                | Kerosene             |                |                   |                                | Liquefied Petroleum Gas |                |                   |                                | RSE Row Factors |
|---|----------------------|----------------|-------------------|--------------------------------|----------------------|----------------|-------------------|--------------------------------|-------------------------|----------------|-------------------|--------------------------------|-----------------|
|   | Households (million) | Total Consumed |                   | Expenditures (billion dollars) | Households (million) | Total Consumed |                   | Expenditures (billion dollars) | Households (million)    | Total Consumed |                   | Expenditures (billion dollars) |                 |
|   |                      | (trillion Btu) | (billion gallons) |                                |                      | (trillion Btu) | (billion gallons) |                                |                         | (trillion Btu) | (billion gallons) |                                |                 |
|   |                      |                |                   |                                |                      |                |                   |                                |                         |                |                   |                                |                 |
| 0.5   | NF                   | NF             | 0.9               | NF                             | NF                   | NF             | 1.4               | NF                             | NF                      | NF             |                   |                                |                 |
| <b>Northeast Region</b>                     |                      |                |                   |                                |                      |                |                   |                                |                         |                |                   |                                |                 |
| <b>Total Region</b> .....                   | 7.8                  | 649.6          | 4.72              | 5.11                           | 1.2                  | 20.6           | 0.15              | 0.19                           | 0.2                     | 8.6            | 0.09              | 0.10                           | 18.4            |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |                   |                                |                      |                |                   |                                |                         |                |                   |                                |                 |
| Under 2,000 HDD and Over 5,500 HDD .....    | 5.0                  | 454.2          | 3.29              | 3.58                           | 1.0                  | 18.7           | .14               | .17                            | .2                      | 8.6            | .09               | .10                            | 21.7            |
| Under 5,500 HDD .....                       | 2.8                  | 195.4          | 1.43              | 1.54                           | Q                    | Q              | Q                 | Q                              | NC                      | NC             | NC                | NC                             | 30.2            |
| 2,000 HDD or More and Under 4,000 HDD ..... | NC                   | NC             | NC                | NC                             | NC                   | NC             | NC                | NC                             | NC                      | NC             | NC                | NC                             | NC              |
| <b>Type of Housing Unit</b>                 |                      |                |                   |                                |                      |                |                   |                                |                         |                |                   |                                |                 |
| Single-Family .....                         | 4.9                  | 492.0          | 3.56              | 3.95                           | .8                   | 7.4            | .06               | .07                            | .2                      | 5.3            | .06               | .07                            | 18.8            |
| Mobile Home .....                           | Q                    | Q              | Q                 | Q                              | .3                   | Q              | Q                 | Q                              | Q                       | Q              | Q                 | Q                              | 49.4            |
| Multifamily (2 or more units) .....         | 2.7                  | 146.8          | 1.08              | 1.08                           | Q                    | Q              | Q                 | Q                              | NC                      | NC             | NC                | NC                             | 22.0            |
| <b>Heated Floorspace (square feet)</b>      |                      |                |                   |                                |                      |                |                   |                                |                         |                |                   |                                |                 |
| Fewer than 1,000 .....                      | 2.0                  | 93.1           | .68               | .69                            | .3                   | Q              | Q                 | Q                              | Q                       | Q              | Q                 | Q                              | 31.6            |
| 1,000 to 1,999 .....                        | 2.5                  | 197.0          | 1.43              | 1.57                           | .5                   | 8.1            | .06               | .08                            | Q                       | Q              | Q                 | Q                              | 21.5            |
| 2,000 or More .....                         | 3.2                  | 359.6          | 2.61              | 2.85                           | .5                   | 1.6            | .01               | .01                            | Q                       | Q              | Q                 | Q                              | 19.7            |
| <b>Ownership of Unit</b>                    |                      |                |                   |                                |                      |                |                   |                                |                         |                |                   |                                |                 |
| Owned .....                                 | 5.6                  | 524.9          | 3.80              | 4.18                           | 1.0                  | 15.1           | .11               | .14                            | .2                      | 8.6            | .09               | .10                            | 19.6            |
| Rented .....                                | 2.3                  | 124.7          | .92               | .93                            | .2                   | 5.5            | .04               | .04                            | NC                      | NC             | NC                | NC                             | 29.3            |
| <b>Year of Construction</b>                 |                      |                |                   |                                |                      |                |                   |                                |                         |                |                   |                                |                 |
| 1949 or Before .....                        | 3.8                  | 324.0          | 2.36              | 2.53                           | .4                   | 4.3            | .03               | .04                            | Q                       | Q              | Q                 | Q                              | 24.5            |
| 1950 to 1979 .....                          | 3.7                  | 305.5          | 2.22              | 2.43                           | .6                   | Q              | Q                 | Q                              | Q                       | Q              | Q                 | Q                              | 21.9            |
| 1980 or After <sup>2</sup> .....            | .3                   | 20.1           | .15               | .16                            | Q                    | Q              | Q                 | Q                              | Q                       | Q              | Q                 | Q                              | 40.5            |
| <b>1990 Family Income</b>                   |                      |                |                   |                                |                      |                |                   |                                |                         |                |                   |                                |                 |
| Less than \$10,000 .....                    | 1.3                  | 83.3           | .61               | .63                            | Q                    | Q              | Q                 | Q                              | NC                      | NC             | NC                | NC                             | 26.1            |
| \$10,000 to \$19,999 .....                  | 1.2                  | 89.3           | .65               | .69                            | .2                   | 7.2            | .05               | .06                            | Q                       | Q              | Q                 | Q                              | 31.4            |
| \$20,000 to \$34,999 .....                  | 1.9                  | 142.5          | 1.04              | 1.11                           | .4                   | Q              | Q                 | .07                            | Q                       | Q              | Q                 | Q                              | 26.2            |
| \$35,000 or More .....                      | 3.5                  | 334.5          | 2.42              | 2.69                           | .4                   | 2.2            | .02               | .02                            | Q                       | Q              | Q                 | Q                              | 23.9            |
| <b>Below Poverty Line</b>                   |                      |                |                   |                                |                      |                |                   |                                |                         |                |                   |                                |                 |
| 100 Percent .....                           | .9                   | 55.4           | .40               | .42                            | .2                   | Q              | Q                 | Q                              | NC                      | NC             | NC                | NC                             | 36.7            |
| 125 Percent .....                           | 1.3                  | 82.0           | .60               | .62                            | .2                   | Q              | Q                 | Q                              | NC                      | NC             | NC                | NC                             | 24.6            |
| <b>Age of Householder</b>                   |                      |                |                   |                                |                      |                |                   |                                |                         |                |                   |                                |                 |
| Under 35 Years .....                        | 2.1                  | 143.7          | 1.05              | 1.12                           | .4                   | Q              | Q                 | Q                              | Q                       | Q              | Q                 | Q                              | 25.7            |
| 35 to 59 Years .....                        | 3.1                  | 274.4          | 1.99              | 2.19                           | .6                   | 7.7            | .06               | .07                            | Q                       | Q              | Q                 | Q                              | 19.0            |
| 60 Years and Over .....                     | 2.6                  | 231.5          | 1.68              | 1.81                           | .2                   | Q              | Q                 | Q                              | Q                       | Q              | Q                 | Q                              | 23.1            |
| <b>Household Size</b>                       |                      |                |                   |                                |                      |                |                   |                                |                         |                |                   |                                |                 |
| 1 Person .....                              | 2.0                  | 131.5          | .96               | 1.00                           | Q                    | Q              | Q                 | Q                              | Q                       | Q              | Q                 | Q                              | 21.8            |
| 2 to 4 Persons .....                        | 5.0                  | 432.7          | 3.14              | 3.41                           | .9                   | 17.9           | .13               | .17                            | Q                       | Q              | Q                 | Q                              | 20.8            |
| 5 or More Persons .....                     | .9                   | 85.4           | .62               | .70                            | .2                   | Q              | Q                 | Q                              | Q                       | Q              | Q                 | Q                              | 35.4            |

See footnotes at end of table.

**Table 15. Total Fuel Oil, Kerosene, and LPG Consumption and Expenditures for Space Heating in Northeast Region Households, 1990 (Continued)**

| Characteristics                        | Fuel Oil              |                |                   |                      | Kerosene       |                   |                      |                | Liquefied Petroleum Gas |                      |                |                   | RSE: Row Factors |
|--|-----------------------|----------------|-------------------|----------------------|----------------|-------------------|----------------------|----------------|-------------------------|----------------------|----------------|-------------------|------------------|
|  | Households (million)  | Total Consumed |                   | Households (million) | Total Consumed |                   | Households (million) | Total Consumed |                         | Households (million) | Total Consumed |                   |                  |
|  |                       | (trillion Btu) | (billion gallons) |                      | (trillion Btu) | (billion gallons) |                      | (trillion Btu) | (billion gallons)       |                      | (trillion Btu) | (billion gallons) |                  |
| RSE Column Factors:                    | 0.5                   | NF             | NF                | NF                   | 0.9            | NF                | NF                   | NF             | 1.4                     | NF                   | NF             | NF                |                  |
| <b>New England Division</b> .....      | 2.3                   | 217.3          | 1.56              | 1.71                 | 0.2            | 6.7               | 0.05                 | 0.07           | Q                       | Q                    | Q              | Q                 | 15.0             |
| <b>Climate Zone<sup>1</sup></b>        |                       |                |                   |                      |                |                   |                      |                |                         |                      |                |                   |                  |
| Under 2,000 HDD .....                  | 2.3                   | 216.4          | 1.57              | 1.70                 | .2             | 6.7               | .05                  | .07            | Q                       | Q                    | Q              | Q                 | 15.0             |
| Over 5,500 HDD .....                   | Q                     | Q              | Q                 | Q                    | NC             | NC                | NC                   | NC             | NC                      | NC                   | NC             | NC                | NF               |
| Under 5,500 HDD .....                  | 2,000 CDD or More and | NC             | NC                | NC                   | NC             | NC                | NC                   | NC             | NC                      | NC                   | NC             | NC                | NC               |
| Under 4,000 HDD .....                  | NC                    | NC             | NC                | NC                   | NC             | NC                | NC                   | NC             | NC                      | NC                   | NC             | NC                | NC               |
| <b>Type of Housing Unit</b>            |                       |                |                   |                      |                |                   |                      |                |                         |                      |                |                   |                  |
| Single-Family .....                    | 1.6                   | 169.0          | 1.22              | 1.32                 | Q              | Q                 | Q                    | Q              | Q                       | Q                    | Q              | Q                 | 15.1             |
| Mobile Home .....                      | Q                     | Q              | Q                 | Q                    | Q              | Q                 | Q                    | Q              | Q                       | Q                    | Q              | Q                 | NF               |
| Multifamily (2 or more units) ..       | .6                    | 43.5           | .32               | .35                  | NC             | NC                | NC                   | NC             | NC                      | NC                   | NC             | NC                | 34.3             |
| <b>Heated Floorspace (square feet)</b> |                       |                |                   |                      |                |                   |                      |                |                         |                      |                |                   |                  |
| Fewer than 1,000 .....                 | .5                    | 29.6           | .22               | .24                  | Q              | Q                 | Q                    | Q              | Q                       | Q                    | Q              | Q                 | 23.6             |
| 1,000 to 1,999 .....                   | .8                    | 69.0           | .50               | .55                  | Q              | Q                 | Q                    | Q              | Q                       | Q                    | Q              | Q                 | 29.9             |
| 2,000 or More .....                    | 1.0                   | 118.7          | .86               | .93                  | Q              | Q                 | Q                    | Q              | Q                       | Q                    | Q              | Q                 | 21.9             |
| <b>Ownership of Unit</b>               |                       |                |                   |                      |                |                   |                      |                |                         |                      |                |                   |                  |
| Owned .....                            | 1.7                   | 175.6          | 1.27              | 1.38                 | .2             | Q                 | Q                    | Q              | Q                       | Q                    | Q              | Q                 | 18.1             |
| Rented .....                           | .6                    | 41.7           | .31               | .33                  | Q              | Q                 | Q                    | Q              | NC                      | NC                   | NC             | NC                | 33.5             |
| <b>Year of Construction</b>            |                       |                |                   |                      |                |                   |                      |                |                         |                      |                |                   |                  |
| 1949 or Before .....                   | 1.3                   | 119.2          | .87               | .94                  | Q              | Q                 | Q                    | Q              | Q                       | Q                    | Q              | Q                 | 22.0             |
| 1950 to 1979 .....                     | .9                    | 85.7           | .62               | .67                  | .2             | 4.5               | .03                  | .05            | NC                      | NC                   | NC             | NC                | 32.7             |
| 1980 or After <sup>2</sup> .....       | .2                    | 12.4           | .09               | .10                  | Q              | Q                 | Q                    | Q              | NC                      | NC                   | NC             | NC                | 49.3             |
| <b>1990 Family Income</b>              |                       |                |                   |                      |                |                   |                      |                |                         |                      |                |                   |                  |
| Less than \$10,000 .....               | .4                    | 32.4           | .24               | .26                  | Q              | Q                 | Q                    | Q              | NC                      | NC                   | NC             | NC                | 38.6             |
| \$10,000 to \$19,999 .....             | .4                    | 29.5           | .21               | .23                  | Q              | Q                 | Q                    | Q              | NC                      | NC                   | NC             | NC                | 31.9             |
| \$20,000 to \$34,999 .....             | .6                    | 48.8           | .36               | .38                  | Q              | Q                 | Q                    | Q              | Q                       | Q                    | Q              | Q                 | 33.3             |
| \$35,000 or More .....                 | 1.0                   | 106.6          | .77               | .84                  | Q              | Q                 | Q                    | Q              | NC                      | NC                   | NC             | NC                | 26.0             |
| <b>Below Poverty Line</b>              |                       |                |                   |                      |                |                   |                      |                |                         |                      |                |                   |                  |
| 100 Percent .....                      | .2                    | 18.7           | .14               | .15                  | Q              | Q                 | Q                    | Q              | NC                      | NC                   | NC             | NC                | 46.1             |
| 125 Percent .....                      | .4                    | 27.1           | .20               | .22                  | Q              | Q                 | Q                    | Q              | NC                      | NC                   | NC             | NC                | 36.4             |
| <b>Age of Householder</b>              |                       |                |                   |                      |                |                   |                      |                |                         |                      |                |                   |                  |
| Under 35 Years .....                   | .5                    | 40.8           | .30               | .32                  | Q              | Q                 | Q                    | Q              | Q                       | Q                    | Q              | Q                 | 17.4             |
| 35 to 59 Years .....                   | 1.0                   | 94.0           | .68               | .75                  | .1             | 3.5               | .03                  | .03            | Q                       | Q                    | Q              | Q                 | 23.6             |
| 60 Years and Over .....                | .8                    | 82.5           | .60               | .64                  | Q              | Q                 | Q                    | Q              | Q                       | Q                    | Q              | Q                 | 26.1             |
| <b>Household Size</b>                  |                       |                |                   |                      |                |                   |                      |                |                         |                      |                |                   |                  |
| 1 Person .....                         | .6                    | 53.0           | .39               | .42                  | NC             | NC                | NC                   | NC             | Q                       | Q                    | Q              | Q                 | 26.0             |
| 2 to 4 Persons .....                   | 1.5                   | 146.4          | 1.06              | 1.15                 | .2             | 6.2               | .05                  | .06            | Q                       | Q                    | Q              | Q                 | 15.9             |
| 5 or More Persons .....                | .2                    | 17.9           | .13               | .14                  | Q              | Q                 | Q                    | Q              | Q                       | Q                    | Q              | Q                 | 41.3             |

See footnotes at end of table.

**NORTHEAST**

Table 15. Total Fuel Oil, Kerosene, and LPG Consumption and Expenditures for Space Heating in Northeast Region Households, 1990 (Continued)

| Characteristics                        | Fuel Oil             |                |                   |                   | Kerosene             |                |                   |                   | Liquefied Petroleum Gas |                |                   |                   | RSE Row Factors |
|--|----------------------|----------------|-------------------|-------------------|----------------------|----------------|-------------------|-------------------|-------------------------|----------------|-------------------|-------------------|-----------------|
|  | Households (million) | Total Consumed |                   |                   | Households (million) | Total Consumed |                   |                   | Households (million)    | Total Consumed |                   |                   |                 |
|  |                      | (trillion Btu) | (billion gallons) | (billion dollars) |                      | (trillion Btu) | (billion gallons) | (billion dollars) |                         | (trillion Btu) | (billion gallons) | (billion dollars) |                 |
|  |                      |                |                   |                   |                      |                |                   |                   |                         |                |                   |                   |                 |
| RSE Column Factors:                    | 0.5                  | NF             | NF                | NF                | 0.9                  | NF             | NF                | NF                | 1.4                     | NF             | NF                | NF                |                 |
| Middle Atlantic Division               | 5.5                  | 432.3          | 3.14              | 3.40              | 1.0                  | Q              | Q                 | Q                 | Q                       | Q              | Q                 | Q                 | 20.8            |
| <b>Climate Zone<sup>1</sup></b>        |                      |                |                   |                   |                      |                |                   |                   |                         |                |                   |                   |                 |
| Under 2,000 HDD                        | 2.7                  | 237.7          | 1.72              | 1.88              | .7                   | Q              | Q                 | Q                 | Q                       | Q              | Q                 | Q                 | 36.5            |
| Over 5,500 HDD                         | 2.8                  | 194.6          | 1.42              | 1.53              | Q                    | Q              | Q                 | Q                 | NC                      | NC             | NC                | NC                | 30.2            |
| 2,000 HDD or More and Under 4,000 HDD  | NC                   | NC             | NC                | NC                | NC                   | NC             | NC                | NC                | NC                      | NC             | NC                | NC                | NC              |
| <b>Type of Housing Unit</b>            |                      |                |                   |                   |                      |                |                   |                   |                         |                |                   |                   |                 |
| Single-Family                          | 3.3                  | 323.0          | 2.34              | 2.62              | .7                   | 4.7            | 0.03              | 0.04              | Q                       | Q              | Q                 | Q                 | 22.2            |
| Mobile Home                            | Q                    | Q              | Q                 | Q                 | Q                    | Q              | Q                 | Q                 | Q                       | Q              | Q                 | Q                 | NF              |
| Multifamily (2 or more units)          | 2.1                  | 103.3          | .76               | .73               | Q                    | Q              | Q                 | Q                 | NC                      | NC             | NC                | NC                | 28.7            |
| <b>Heated Floorspace (square feet)</b> |                      |                |                   |                   |                      |                |                   |                   |                         |                |                   |                   |                 |
| Fewer than 1,000                       | 1.5                  | 63.4           | .47               | .46               | Q                    | Q              | Q                 | Q                 | Q                       | Q              | Q                 | Q                 | 40.2            |
| 1,000 to 1,999                         | 1.8                  | 128.0          | .93               | 1.03              | .4                   | 5.2            | .04               | .05               | Q                       | Q              | Q                 | Q                 | 30.1            |
| 2,000 or More                          | 2.2                  | 240.9          | 1.75              | 1.92              | .4                   | 1.4            | .01               | .01               | Q                       | Q              | Q                 | Q                 | 24.2            |
| <b>Ownership of Unit</b>               |                      |                |                   |                   |                      |                |                   |                   |                         |                |                   |                   |                 |
| Owned                                  | 3.9                  | 349.3          | 2.53              | 2.81              | .8                   | Q              | Q                 | Q                 | Q                       | Q              | Q                 | Q                 | 21.9            |
| Rented                                 | 1.8                  | 83.0           | .61               | .60               | Q                    | Q              | Q                 | Q                 | NC                      | NC             | NC                | NC                | 36.2            |
| <b>Year of Construction</b>            |                      |                |                   |                   |                      |                |                   |                   |                         |                |                   |                   |                 |
| 1949 or Before                         | 2.6                  | 204.8          | 1.49              | 1.59              | .4                   | 4.3            | .03               | .04               | Q                       | Q              | Q                 | Q                 | 30.1            |
| 1950 to 1979                           | 2.8                  | 219.8          | 1.59              | 1.75              | .5                   | Q              | Q                 | Q                 | Q                       | Q              | Q                 | Q                 | NF              |
| 1980 or After <sup>2</sup>             | Q                    | Q              | Q                 | Q                 | Q                    | Q              | Q                 | Q                 | Q                       | Q              | Q                 | Q                 | 100.0           |
| <b>1990 Family Income</b>              |                      |                |                   |                   |                      |                |                   |                   |                         |                |                   |                   |                 |
| Less than \$10,000                     | .9                   | 50.9           | .37               | .37               | Q                    | Q              | Q                 | Q                 | NC                      | NC             | NC                | NC                | 32.0            |
| \$10,000 to \$19,999                   | .8                   | 59.8           | .44               | .46               | .2                   | 5.1            | .04               | .05               | Q                       | Q              | Q                 | Q                 | 40.3            |
| \$20,000 to \$34,999                   | 1.3                  | 93.7           | .68               | .73               | .3                   | Q              | Q                 | Q                 | Q                       | Q              | Q                 | Q                 | 35.3            |
| \$35,000 or More                       | 2.5                  | 227.9          | 1.65              | 1.84              | .4                   | 1.7            | .01               | .02               | Q                       | Q              | Q                 | Q                 | 29.8            |
| <b>Below Poverty Line</b>              |                      |                |                   |                   |                      |                |                   |                   |                         |                |                   |                   |                 |
| 100 Percent                            | .7                   | 36.7           | .27               | .27               | Q                    | Q              | Q                 | Q                 | NC                      | NC             | NC                | NC                | 51.5            |
| 125 Percent                            | .9                   | 54.9           | .40               | .40               | Q                    | Q              | Q                 | Q                 | NC                      | NC             | NC                | NC                | 25.6            |
| <b>Age of Householder</b>              |                      |                |                   |                   |                      |                |                   |                   |                         |                |                   |                   |                 |
| Under 35 Years                         | 1.5                  | 102.9          | .75               | .80               | .4                   | Q              | Q                 | Q                 | Q                       | Q              | Q                 | Q                 | 34.9            |
| 35 to 59 Years                         | 2.1                  | 180.4          | 1.31              | 1.45              | .4                   | 4.3            | .03               | .04               | Q                       | Q              | Q                 | Q                 | 24.5            |
| 60 Years and Over                      | 1.8                  | 149.0          | 1.08              | 1.16              | .2                   | Q              | Q                 | Q                 | Q                       | Q              | Q                 | Q                 | 29.2            |
| <b>Household Size</b>                  |                      |                |                   |                   |                      |                |                   |                   |                         |                |                   |                   |                 |
| 1 Person                               | 1.3                  | 78.6           | .57               | .58               | Q                    | Q              | Q                 | Q                 | Q                       | Q              | Q                 | Q                 | 29.0            |
| 2 to 4 Persons                         | 3.5                  | 286.3          | 2.08              | 2.26              | .7                   | Q              | Q                 | Q                 | Q                       | Q              | Q                 | Q                 | 23.2            |
| 5 or More Persons                      | .7                   | 67.5           | .49               | .56               | Q                    | Q              | Q                 | Q                 | Q                       | Q              | Q                 | Q                 | 45.0            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 16. Electricity Consumption and Expenditures for Main Space Heating, per Northeast Region Household, 1990

| Characteristics                                 | Households (million) | Consumption   |       | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Electricity Space-Heating Intensity     |  | RSE Row Factors |
|---|----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|---|--|-----------------|
|   |                      | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/HDD* 1000 square feet) | Expenditures (cents/HDD* 1000 square feet) |                 |
| RSE Column Factors:                             | 2.2                  | NF            | NF    | NF                     | 1.2                             | 0.4                        | 0.3                          | NF                                      | NF   |                 |
| Northeast Region                                |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| <b>Total Region</b> .....                       | 2.0                  | 17.1          | 5,017 | 444                    | 1,425                           | 5,152                      | 5,978                        | 0.68                                    | 6.0  | 5.3             |
| <b>Climate Zone<sup>1</sup></b>                 |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 2,000 CDD and                             |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Over 5,500 HDD .....                            | 1.5                  | 17.4          | 5,114 | 447                    | 1,370                           | 5,415                      | 6,220                        | .69                                     | 6.0  | 7.3             |
| Under 5,500 HDD .....                           | Q                    | 16.1          | 4,725 | 433                    | 1,592                           | 4,356                      | 5,245                        | .68                                     | 6.3  | 12.2            |
| 2,000 CDD or More and                           |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 4,000 HDD .....                           | NC                   | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                      | NC   | NC              |
| <b>Type of Housing Unit</b>                     |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Single-Family .....                             | 1.1                  | 22.8          | 6,683 | 576                    | 2,028                           | 5,125                      | 5,968                        | .64                                     | 5.5  | 7.2             |
| Mobile Home .....                               | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| Multifamily (2 or more units) ..                | .8                   | 9.3           | 2,732 | 275                    | 640                             | 5,219                      | 6,028                        | .82                                     | 8.2  | 11.0            |
| <b>Heated Floorspace (square feet)</b>          |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Fewer than 1,000 .....                          | .9                   | 9.5           | 2,772 | 278                    | 621                             | 5,216                      | 6,029                        | .86                                     | 8.6  | 9.3             |
| 1,000 to 1,999 .....                            | .7                   | 19.4          | 5,688 | 479                    | 1,479                           | 4,909                      | 5,763                        | .78                                     | 6.6  | 8.6             |
| 2,000 or More .....                             | .5                   | 27.9          | 8,167 | 695                    | 2,814                           | 5,377                      | 6,187                        | .54                                     | 4.6  | 6.3             |
| <b>Ownership of Unit</b>                        |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Owned .....                                     | 1.1                  | 21.9          | 6,416 | 543                    | 1,943                           | 5,145                      | 5,955                        | .64                                     | 5.4  | 6.6             |
| Rented .....                                    | .9                   | 10.9          | 3,201 | 315                    | 753                             | 5,162                      | 6,009                        | .82                                     | 8.1  | 9.3             |
| <b>Year of Construction</b>                     |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 1949 or Before .....                            | .2                   | 15.2          | 4,445 | 463                    | 1,098                           | 5,163                      | 6,012                        | .78                                     | Q  | 18.3            |
| 1950 to 1979 .....                              | 1.0                  | 18.8          | 5,522 | 482                    | 1,345                           | 5,332                      | 6,133                        | .77                                     | 6.7  | 8.5             |
| 1980 or After <sup>2</sup> .....                | .8                   | 15.3          | 4,496 | 386                    | 1,628                           | 4,905                      | 5,758                        | .56                                     | 4.8  | 8.3             |
| <b>1990 Family Income</b>                       |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Less than \$10,000 .....                        | .3                   | 10.5          | 3,069 | 281                    | 609                             | 5,193                      | 5,995                        | .97                                     | 8.9  | 7.8             |
| \$10,000 to \$19,999 .....                      | .3                   | 13.5          | 3,965 | 370                    | 998                             | 5,503                      | 6,319                        | .72                                     | 6.7  | 12.2            |
| \$20,000 to \$34,999 .....                      | .6                   | 17.8          | 5,211 | 450                    | 1,265                           | 5,091                      | 5,872                        | .81                                     | 7.0  | 9.7             |
| \$35,000 or More .....                          | .9                   | 19.8          | 5,805 | 511                    | 1,919                           | 5,068                      | 5,936                        | .60                                     | 5.3  | 6.5             |
| <b>Below Poverty Line</b>                       |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 100 Percent .....                               | .2                   | 10.5          | 3,076 | 293                    | 821                             | 5,017                      | 5,922                        | .75                                     | 7.1  | 12.7            |
| 125 Percent .....                               | .2                   | 10.7          | 3,148 | 302                    | 766                             | 5,289                      | 6,151                        | .78                                     | 7.5  | 10.1            |
| <b>Age of Householder</b>                       |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 35 Years .....                            | .7                   | 14.4          | 4,218 | 397                    | 1,217                           | 5,056                      | 5,892                        | .69                                     | 6.4  | 9.8             |
| 35 to 59 Years .....                            | .8                   | 18.2          | 5,321 | 458                    | 1,649                           | 5,131                      | 5,966                        | .63                                     | 5.4  | 7.2             |
| 60 Years and Over .....                         | .4                   | 19.7          | 5,773 | 495                    | 1,333                           | 5,356                      | 6,148                        | .81                                     | 6.9  | 11.0            |
| <b>Household Size</b>                           |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 1 Person .....                                  | .8                   | 13.8          | 4,047 | 374                    | 1,097                           | 5,276                      | 6,064                        | .70                                     | 6.5  | 8.1             |
| 2 to 4 Persons .....                            | 1.1                  | 18.7          | 5,492 | 470                    | 1,634                           | 5,109                      | 5,967                        | .66                                     | 5.6  | 6.5             |
| 5 or More Persons .....                         | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| <b>Main Heating Equipment Using Electricity</b> |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Central Warm-Air                                |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Furnace .....                                   | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| Built-In Electric                               |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Units .....                                     | 1.3                  | 18.8          | 5,510 | 483                    | 1,366                           | 5,344                      | 6,161                        | .75                                     | 6.6  | 6.5             |
| Heat Pump .....                                 | .5                   | 12.9          | 3,782 | 340                    | 1,588                           | 4,750                      | 5,568                        | .50                                     | 4.5  | 9.1             |
| Other .....                                     | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |

See footnotes at end of table.

Table 16. Electricity Consumption and Expenditures for Main Space Heating, per Northeast Region Household, 1990 (Continued)

| Characteristics   | Households (million) | Consumption   |       | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Electricity Space-Heating Intensity     |  | RSE Row Factors |
|---|----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|---|--|-----------------|
|   |                      | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/HDD* 1000 square feet) | Expenditures (cents/HDD* 1000 square feet) |                 |
|   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| RSE Column Factors:   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
|   | 2.2                  | NF            | NF    | NF                     | 1.2                             | 0.4                        | 0.3                          | NF                                      | NF   |                 |
| Northeast Region  |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| <b>Age of Main Heating Equipment</b>  |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Less than 5 Years .....   | 0.4                  | 13.0          | 3,815 | 354                    | 1,449                           | 4,824                      | 5,669                        | 0.55                                    | 5.1  | 17.9            |
| 5 to 9 Years .....  | .3                   | 18.7          | 5,493 | 484                    | 1,611                           | 5,446                      | 6,296                        | .63                                     | 5.5  | 8.7             |
| 10 to 19 Years .....  | .7                   | 18.1          | 4,726 | 406                    | 1,282                           | 5,190                      | 5,929                        | .71                                     | 6.1  | 12.2            |
| 20 Years or More .....  | .4                   | 26.1          | 7,646 | 652                    | 1,818                           | 5,292                      | 6,195                        | .79                                     | 6.8  | 9.1             |
| Don't Know .....  | .2                   | 8.8           | 2,591 | 281                    | 780                             | 4,955                      | 5,842                        | .67                                     | 7.3  | 19.4            |
| <b>Secondary Heating Fuel (more than one may apply)</b>                     |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| No .....  | 1.2                  | 15.3          | 4,486 | 411                    | 1,156                           | 5,275                      | 6,096                        | .74                                     | 6.7  | 8.6             |
| Yes .....   | .8                   | 19.9          | 5,831 | 494                    | 1,837                           | 4,963                      | 5,797                        | .64                                     | 5.4  | 7.7             |
| Wood .....  | .5                   | 23.7          | 6,956 | 600                    | 2,112                           | 5,068                      | 5,913                        | .65                                     | 5.6  | 6.4             |
| Electricity .....   | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| Natural Gas .....   | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| Kerosene .....  | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| Other .....   | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| <b>Average Electricity Expenditures for Main Space Heat (cents per kWh)</b> |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Less than 6 .....   | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| 6 to Less than 9 .....  | 1.0                  | 19.0          | 5,555 | 448                    | 1,636                           | 5,248                      | 6,030                        | .65                                     | 5.2  | 8.1             |
| 9 or More .....   | .9                   | 14.7          | 4,301 | 444                    | 1,207                           | 5,078                      | 5,955                        | .70                                     | 7.2  | 7.3             |
| <b>Winter Temperature Inside Housing Unit</b>                               |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Prefer .....  |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Usual Temperature .....   | 1.5                  | 17.3          | 5,082 | 451                    | 1,428                           | 5,183                      | 6,005                        | .69                                     | 6.1  | 7.2             |
| Warmer Temperature .....  | .4                   | 16.5          | 4,837 | 420                    | 1,451                           | 5,109                      | 5,957                        | .65                                     | 5.7  | 10.5            |
| Cooler Temperature .....  | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| <b>Adequacy of Insulation</b>   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Well Insulated .....  | .8                   | 16.7          | 4,894 | 434                    | 1,552                           | 5,191                      | 6,007                        | .61                                     | 5.4  | 7.0             |
| Adequately Insulated .....  | .8                   | 16.9          | 4,948 | 423                    | 1,346                           | 5,072                      | 5,884                        | .72                                     | 6.2  | 8.2             |
| Poorly Insulated .....  | .3                   | 21.6          | 6,327 | 586                    | 1,463                           | 5,394                      | 6,271                        | .80                                     | 7.4  | 11.2            |
| Don't Know .....  | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |

See footnotes at end of table.

**Table 16. Electricity Consumption and Expenditures for Main Space Heating, per Northeast Region Household, 1990 (Continued)**

| Characteristics                             | Households (million) | Consumption   |       | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Electricity Space-Heating Intensity     |  | RSE Row Factors |
|---|----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|---|--|-----------------|
|   |                      | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/HDD* 1000 square feet) | Expenditures (cents/HDD* 1000 square feet) |                 |
| RSE Column Factors:                         | 2.2                  | NF            | NF    | NF                     | 1.2                             | 0.4                        | 0.3                          | NF                                      | NF   |                 |
| <b>New England Division</b> .....           | 0.6                  | 14.4          | 4,207 | 406                    | 1,150                           | 5,362                      | 6,229                        | 0.68                                    | 6.6  | 7.0             |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | .6                   | 14.0          | 4,114 | 398                    | 1,122                           | 5,371                      | 6,240                        | .68                                     | 6.6  | 7.2             |
| Under 5,500 HDD .....                       | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                   | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                      | NC   | NC              |
| <b>Type of Housing Unit</b>                 |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Single-Family .....                         | .2                   | 26.9          | 7,896 | 735                    | 2,278                           | 5,376                      | 6,365                        | .64                                     | 6.0  | 9.2             |
| Mobile Home .....                           | NC                   | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                      | NC   | NC              |
| Multifamily (2 or more units) ..            | .4                   | 8.5           | 2,498 | 254                    | 628                             | 5,355                      | 6,166                        | .74                                     | 7.5  | 8.3             |
| <b>Heated Floorspace (square feet)</b>      |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Fewer than 1,000 .....                      | .4                   | 8.4           | 2,472 | 254                    | 565                             | 5,401                      | 6,219                        | .81                                     | 8.3  | 7.6             |
| 1,000 to 1,999 .....                        | .1                   | 19.2          | 5,627 | 520                    | 1,467                           | 5,255                      | 6,273                        | .73                                     | 6.7  | 19.0            |
| 2,000 or More .....                         | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| <b>Ownership of Unit</b>                    |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Owned .....                                 | .3                   | 19.1          | 5,590 | 526                    | 1,646                           | 5,257                      | 6,108                        | .65                                     | 6.1  | 9.4             |
| Rented .....                                | .4                   | 11.0          | 3,237 | 322                    | 802                             | 5,436                      | 6,314                        | .74                                     | 7.4  | 10.2            |
| <b>Year of Construction</b>                 |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 1949 or Before .....                        | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| 1950 to 1979 .....                          | .4                   | 14.2          | 4,174 | 414                    | 1,115                           | 5,554                      | 6,355                        | .67                                     | 6.7  | 11.3            |
| 1980 or After <sup>2</sup> .....            | Q                    | 16.6          | 4,870 | 425                    | 1,627                           | 4,940                      | 5,968                        | .61                                     | 5.3  | 12.1            |
| <b>1990 Family Income</b>                   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Less than \$10,000 .....                    | .2                   | 8.8           | 2,583 | 260                    | 535                             | 5,326                      | 6,091                        | .91                                     | 9.1  | 11.6            |
| \$10,000 to \$19,999 .....                  | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| \$20,000 to \$34,999 .....                  | .1                   | 13.0          | 3,811 | 373                    | 1,077                           | 5,489                      | 6,303                        | .64                                     | 6.3  | 11.8            |
| \$35,000 or More .....                      | .3                   | 16.7          | 4,899 | 465                    | 1,509                           | 5,215                      | 6,137                        | .62                                     | 5.9  | 8.6             |
| <b>Below Poverty Line</b>                   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 100 Percent .....                           | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| 125 Percent .....                           | .2                   | 9.4           | 2,750 | 281                    | 607                             | 5,346                      | 6,216                        | .85                                     | 8.7  | 9.1             |
| <b>Age of Householder</b>                   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 35 Years .....                        | .2                   | 11.5          | 3,372 | 341                    | 973                             | 5,266                      | 6,078                        | .66                                     | 6.7  | 12.0            |
| 35 to 59 Years .....                        | .2                   | 19.2          | 5,621 | 528                    | 1,707                           | 5,400                      | 6,402                        | .61                                     | 5.7  | 15.8            |
| 60 Years and Over .....                     | .2                   | 13.1          | 3,841 | 366                    | 807                             | 5,449                      | 6,250                        | .87                                     | 8.3  | 11.1            |
| <b>Household Size</b>                       |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 1 Person .....                              | .3                   | 14.3          | 4,190 | 406                    | 1,092                           | 5,386                      | 6,219                        | .71                                     | 6.9  | 9.1             |
| 2 to 4 Persons .....                        | .3                   | 14.1          | 4,140 | 401                    | 1,224                           | 5,337                      | 6,247                        | .63                                     | 6.1  | 9.8             |
| 5 or More Persons .....                     | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |

See footnotes at end of table.

Table 16. Electricity Consumption and Expenditures for Main Space Heating, per Northeast Region Household, 1990 (Continued)

| Characteristics                             | Households (million) | Consumption   |       | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Electricity Space-Heating Intensity     |  | RSE Row Factors |
|---|----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|---|--|-----------------|
|   |                      | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/HDD* 1000 square feet) | Expenditures (cents/HDD* 1000 square feet) |                 |
|   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| <b>Middle Atlantic Division</b> .....       | 1.4                  | 18.4          | 5,383 | 460                    | 1,549                           | 5,058                      | 5,865                        | 0.69                                    | 5.9  | 6.5             |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | .9                   | 19.8          | 5,801 | 480                    | 1,541                           | 5,445                      | 6,206                        | .69                                     | 5.7  | 11.6            |
| Under 5,500 HDD .....                       | Q                    | 15.8          | 4,618 | 424                    | 1,565                           | 4,349                      | 5,241                        | .68                                     | 6.2  | 15.2            |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                   | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                      | NC   | NC              |
| <b>Type of Housing Unit</b>                 |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Single-Family .....                         | .9                   | 21.9          | 6,423 | 541                    | 1,974                           | 5,071                      | 5,883                        | .64                                     | 5.4  | 8.6             |
| Mobile Home .....                           | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| Multifamily (2 or more units) ..            | Q                    | 10.1          | 2,972 | 297                    | 653                             | 5,079                      | 5,886                        | .90                                     | Q  | 26.0            |
| <b>Heated Floorspace (square feet)</b>      |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Fewer than 1,000 .....                      | .5                   | 10.3          | 3,019 | 298                    | 667                             | 5,063                      | 5,872                        | .89                                     | 8.8  | 17.4            |
| 1,000 to 1,999 .....                        | .5                   | 19.5          | 5,705 | 468                    | 1,482                           | 4,813                      | 5,622                        | .80                                     | 6.6  | 10.6            |
| 2,000 or More .....                         | .4                   | 26.8          | 7,853 | 650                    | 2,723                           | 5,380                      | 6,183                        | .54                                     | 4.4  | 7.2             |
| <b>Ownership of Unit</b>                    |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Owned .....                                 | .9                   | 22.7          | 6,658 | 547                    | 2,030                           | 5,112                      | 5,910                        | .64                                     | 5.3  | 7.5             |
| Rented .....                                | .5                   | 10.8          | 3,175 | 310                    | 717                             | 4,963                      | 5,787                        | .89                                     | 8.7  | 14.3            |
| <b>Year of Construction</b>                 |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 1949 or Before .....                        | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| 1950 to 1979 .....                          | .7                   | 21.5          | 6,290 | 521                    | 1,475                           | 5,205                      | 6,006                        | .82                                     | 6.8  | 10.5            |
| 1980 or After <sup>2</sup> .....            | .6                   | 15.0          | 4,408 | 376                    | 1,629                           | 4,897                      | 5,709                        | .55                                     | 4.7  | 9.8             |
| <b>1990 Family Income</b>                   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Less than \$10,000 .....                    | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| \$10,000 to \$19,999 .....                  | .2                   | 11.9          | 3,499 | 320                    | 973                             | 5,388                      | 6,167                        | .67                                     | 6.1  | 14.6            |
| \$20,000 to \$34,999 .....                  | .5                   | 19.0          | 5,560 | 469                    | 1,312                           | 4,992                      | 5,764                        | .85                                     | 7.2  | 11.4            |
| \$35,000 or More .....                      | .6                   | 21.4          | 6,275 | 536                    | 2,131                           | 4,992                      | 5,832                        | .59                                     | 5.0  | 8.8             |
| <b>Below Poverty Line</b>                   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 100 Percent .....                           | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| 125 Percent .....                           | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| <b>Age of Householder</b>                   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 35 Years .....                        | .5                   | 15.9          | 4,646 | 424                    | 1,341                           | 4,951                      | 5,799                        | .70                                     | 6.4  | 13.7            |
| 35 to 59 Years .....                        | .7                   | 17.9          | 5,234 | 438                    | 1,633                           | 5,053                      | 5,839                        | .63                                     | 5.3  | 8.0             |
| 60 Years and Over .....                     | .2                   | 24.8          | 7,268 | 594                    | 1,740                           | 5,285                      | 6,069                        | .79                                     | 6.5  | 17.5            |
| <b>Household Size</b>                       |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 1 Person .....                              | .4                   | 13.4          | 3,928 | 348                    | 1,102                           | 5,184                      | 5,934                        | .69                                     | 6.1  | 12.8            |
| 2 to 4 Persons .....                        | .8                   | 20.2          | 5,926 | 492                    | 1,766                           | 5,036                      | 5,878                        | .67                                     | 5.5  | 7.5             |
| 5 or More Persons .....                     | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |

<sup>1</sup> The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 17. Natural Gas Consumption and Expenditures for Main Space Heating, per Northeast Region Household, 1990**

| Characteristics                                 | Consumption          |               |                   | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Natural Gas Space-Heating Intensity           |   | RSE Row Factors |
|---|----------------------|---------------|-------------------|------------------------|---------------------------------|----------------------------|------------------------------|---|---|-----------------|
|   | Households (million) | (million Btu) | (1000 cubic feet) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (cubic feet/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
| RSE Column Factors:                             | 2.5                  | NF            | NF                | NF                     | 1.4                             | 0.3                        | 0.3                          | NF  | NF  |                 |
| <b>Northeast Region</b>                         |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| <b>Total Region</b> .....                       | 8.7                  | 81.5          | 78.8              | 559                    | 1,828                           | 4,905                      | 5,789                        | 8.8   | 6.2                                       | 3.3             |
| <b>Climate Zone<sup>1</sup></b>                 |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Under 2,000 HDD and                             |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Over 5,500 HDD .....                            | 5.0                  | 89.2          | 86.2              | 581                    | 2,019                           | 5,398                      | 6,266                        | 7.9   | 5.3                                       | 3.6             |
| Under 5,500 HDD .....                           | 3.7                  | 71.0          | 68.8              | 531                    | 1,568                           | 4,236                      | 5,141                        | 10.4  | 8.0                                       | 5.0             |
| 2,000 HDD or More and                           |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Under 4,000 HDD .....                           | NC                   | NC            | NC                | NC                     | NC                              | NC                         | NC                           | NC  | NC  | NC              |
| <b>Type of Housing Unit</b>                     |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Single-Family .....                             | 5.4                  | 93.6          | 90.5              | 617                    | 2,302                           | 4,976                      | 5,858                        | 7.9   | 5.4                                       | 3.8             |
| Mobile Home .....                               | Q                    | Q             | Q                 | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |
| Multifamily (2 or more units) ..                | 3.4                  | 61.8          | 59.9              | 467                    | 1,072                           | 4,787                      | 5,673                        | 11.7  | 9.1                                       | 5.1             |
| <b>Heated Floorspace (square feet)</b>          |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Fewer than 1,000 .....                          | 2.1                  | 51.4          | 49.7              | 377                    | 687                             | 4,793                      | 5,675                        | 15.1  | 11.5                                      | 3.8             |
| 1,000 to 1,999 .....                            | 3.5                  | 76.7          | 74.1              | 537                    | 1,401                           | 4,819                      | 5,713                        | 11.0  | 8.0                                       | 3.1             |
| 2,000 or More .....                             | 3.1                  | 106.7         | 103.2             | 704                    | 3,060                           | 5,076                      | 5,948                        | 6.6   | 4.5                                       | 4.6             |
| <b>Ownership of Unit</b>                        |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Owned .....                                     | 5.7                  | 93.7          | 90.6              | 631                    | 2,242                           | 4,947                      | 5,829                        | 8.2   | 5.7                                       | 3.9             |
| Rented .....                                    | 3.1                  | 58.9          | 57.0              | 427                    | 1,061                           | 4,827                      | 5,714                        | 11.1  | 8.3                                       | 3.8             |
| <b>Year of Construction</b>                     |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| 1949 or Before .....                            | 4.6                  | 87.1          | 84.2              | 605                    | 1,765                           | 4,896                      | 5,800                        | 9.7   | 7.0                                       | 3.7             |
| 1950 to 1979 .....                              | 3.8                  | 75.7          | 73.3              | 510                    | 1,906                           | 4,879                      | 5,752                        | 7.9   | 5.5                                       | 4.9             |
| 1980 or After <sup>2</sup> .....                | .3                   | 69.0          | 66.6              | 501                    | 1,806                           | 5,325                      | 6,063                        | 6.9   | 5.2                                       | 11.0            |
| <b>1990 Family Income</b>                       |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Less than \$10,000 .....                        | 1.3                  | 66.8          | 64.4              | 471                    | 1,150                           | 4,892                      | 5,776                        | 11.5  | 8.4                                       | 5.5             |
| \$10,000 to \$19,999 .....                      | 1.7                  | 75.4          | 72.9              | 519                    | 1,486                           | 4,967                      | 5,853                        | 9.9   | 7.0                                       | 5.5             |
| \$20,000 to \$34,999 .....                      | 1.7                  | 74.0          | 71.7              | 517                    | 1,570                           | 4,874                      | 5,805                        | 8.8   | 6.4                                       | 4.3             |
| \$35,000 or More .....                          | 4.0                  | 92.2          | 89.2              | 624                    | 2,266                           | 4,897                      | 5,759                        | 8.0   | 5.6                                       | 4.9             |
| <b>Below Poverty Line</b>                       |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| 100 Percent .....                               | 1.1                  | 68.8          | 66.4              | 488                    | 1,232                           | 4,863                      | 5,764                        | 11.1  | 8.1                                       | 5.7             |
| 125 Percent .....                               | 1.4                  | 72.7          | 70.2              | 511                    | 1,296                           | 4,866                      | 5,764                        | 11.1  | 8.1                                       | 6.1             |
| <b>Age of Householder</b>                       |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Under 35 Years .....                            | 2.3                  | 70.3          | 68.0              | 492                    | 1,289                           | 4,887                      | 5,778                        | 10.8  | 7.8                                       | 4.3             |
| 35 to 59 Years .....                            | 3.9                  | 83.2          | 80.4              | 564                    | 2,062                           | 4,933                      | 5,810                        | 7.9   | 5.5                                       | 5.3             |
| 60 Years and Over .....                         | 2.5                  | 88.9          | 86.1              | 614                    | 1,949                           | 4,879                      | 5,765                        | 9.1   | 6.5                                       | 4.1             |
| <b>Household Size</b>                           |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| 1 Person .....                                  | 1.8                  | 63.1          | 61.0              | 443                    | 1,099                           | 4,887                      | 5,771                        | 11.3  | 8.2                                       | 5.5             |
| 2 to 4 Persons .....                            | 5.9                  | 85.9          | 83.1              | 588                    | 1,964                           | 4,928                      | 5,818                        | 8.6   | 6.1                                       | 5.7             |
| 5 or More Persons .....                         | 1.0                  | 87.6          | 84.7              | 599                    | 2,300                           | 4,808                      | 5,652                        | 7.7   | 5.4                                       | 5.2             |
| <b>Main Heating Equipment Using Natural Gas</b> |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Central Warm-Air                                |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Furnace .....                                   | 4.1                  | 83.4          | 80.5              | 547                    | 1,954                           | 5,061                      | 5,930                        | 8.1   | 5.5                                       | 4.1             |
| Steam or Hot-Water                              |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| System .....                                    | 4.5                  | 80.5          | 78.0              | 575                    | 1,741                           | 4,750                      | 5,647                        | 9.4   | 7.0                                       | 5.0             |
| Floor, Wall, or Pipeless                        |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Furnace .....                                   | Q                    | Q             | Q                 | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |
| Room Heater/Other .....                         | .1                   | 60.9          | 58.8              | 443                    | 1,008                           | 5,201                      | 6,103                        | 11.2  | 8.4                                       | 12.0            |

See footnotes at end of table.

**NORTHEAST**



SPACE-HEATING CONSUMPTION/EXPENDITURES

NORTHEAST

Table 17. Natural Gas Consumption and Expenditures for Main Space Heating, per Northeast Region Household, 1990 (Continued)

| Characteristics   | Households (million) | Consumption   |                   | Heated Floorspace (square feet) | Annual Heating Degree-Days |   | Natural Gas Space-Heating Intensity       |     | RSE Row Factors |
|---|----------------------|---------------|-------------------|---------------------------------|----------------------------|---|---|-----|-----------------|
|   |                      | (million Btu) | (1000 cubic feet) |                                 | 30-Year Average            | Consumption (cubic feet/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |     |                 |
|   |                      |               |                   |                                 |                            |   |   | NF  |                 |
| RSE Column Factors:   |                      |               |                   |                                 |                            |   |   |     |                 |
|   | 2.5                  | NF            | NF                | 1.4                             | 0.3                        | 0.3   | NF  | NF  |                 |
| Northeast Region  |                      |               |                   |                                 |                            |   |   |     |                 |
| <b>Age of Main Heating Equipment</b>  |                      |               |                   |                                 |                            |   |   |     |                 |
| Less than 5 Years .....   | 1.5                  | 81.8          | 79.0              | 1,856                           | 5,082                      | 5,932   | 8.4                                       | 5.8 | 5.0             |
| 5 to 9 Years .....  | 1.1                  | 85.1          | 82.2              | 1,979                           | 4,955                      | 5,766   | 8.4                                       | 5.9 | 8.4             |
| 10 to 19 Years .....  | 1.7                  | 96.3          | 93.3              | 2,298                           | 5,046                      | 5,962   | 8.0                                       | 5.6 | 6.2             |
| 20 Years or More .....  | 2.7                  | 85.5          | 82.7              | 1,849                           | 4,819                      | 5,732   | 9.3                                       | 6.6 | 4.1             |
| Don't Know .....  | 1.8                  | 58.6          | 56.7              | 1,227                           | 4,719                      | 5,600   | 9.8                                       | 7.3 | 6.0             |
| <b>Secondary Heating Fuel (more than one may apply)</b>                           |                      |               |                   |                                 |                            |   |   |     |                 |
| No .....  | 5.9                  | 76.6          | 74.1              | 1,601                           | 4,826                      | 5,705   | 9.6                                       | 7.0 | 3.7             |
| Yes .....   | 2.8                  | 91.6          | 88.7              | 2,300                           | 5,070                      | 5,964   | 7.6                                       | 5.2 | 5.3             |
| Wood .....  | 1.4                  | 97.9          | 94.8              | 2,688                           | 5,110                      | 5,986   | 6.9                                       | 4.6 | 7.7             |
| Electricity .....   | 1.3                  | 97.3          | 94.2              | 2,406                           | 5,027                      | 5,934   | 7.8                                       | 5.4 | 7.0             |
| Kerosene .....  | .4                   | 90.8          | 88.1              | 2,110                           | 4,940                      | 5,924   | 8.5                                       | 5.5 | 16.6            |
| Other .....   | .4                   | 104.0         | 100.4             | 2,251                           | 4,939                      | 5,837   | 9.0                                       | 6.1 | 15.9            |
| <b>Average Natural Gas Expenditures for Main Space Heat (dollars per 1000 cf)</b> |                      |               |                   |                                 |                            |   |   |     |                 |
| Less than 4.50 .....  | NC                   | NC            | NC                | NC                              | NC                         | NC  | NC  | NC  | NC              |
| 4.50 to Less than 6 .....   | 9                    | 101.7         | 98.2              | 2,482                           | 5,411                      | 6,138   | 7.3                                       | 4.2 | 13.8            |
| 6 or More .....   | 7.9                  | 79.2          | 76.6              | 1,754                           | 4,848                      | 5,749   | 9.0                                       | 6.6 | 2.8             |
| <b>Winter Temperature Inside Housing Unit</b>                                     |                      |               |                   |                                 |                            |   |   |     |                 |
| Prefer .....  |                      |               |                   |                                 |                            |   |   |     |                 |
| Usual Temperature .....   | 6.8                  | 82.7          | 80.0              | 1,876                           | 4,884                      | 5,751   | 8.7                                       | 6.2 | 3.7             |
| Warmer Temperature .....  | 1.7                  | 82.4          | 79.6              | 1,733                           | 5,011                      | 5,961   | 9.2                                       | 6.4 | 5.1             |
| Cooler Temperature .....  | .3                   | 44.6          | 43.3              | 1,163                           | 4,771                      | 5,672   | 7.8                                       | 5.8 | 18.5            |
| <b>Adequacy of Insulation</b>   |                      |               |                   |                                 |                            |   |   |     |                 |
| Well Insulated .....  | 2.9                  | 87.6          | 84.7              | 2,136                           | 4,917                      | 5,765   | 8.1                                       | 5.8 | 6.4             |
| Adequately Insulated .....  | 3.9                  | 79.5          | 77.0              | 1,777                           | 4,912                      | 5,806   | 8.8                                       | 6.2 | 3.2             |
| Poorly Insulated .....  | 1.7                  | 75.7          | 73.0              | 1,404                           | 4,950                      | 5,859   | 10.5                                      | 7.4 | 5.5             |
| Don't Know .....  | .2                   | 79.4          | 77.0              | 1,900                           | 4,347                      | 5,315   | 9.3                                       | 6.6 | 14.7            |

See footnotes at end of table.

**Table 17. Natural Gas Consumption and Expenditures for Main Space Heating, per Northeast Region Household, 1990 (Continued)**

| Characteristics                        | Consumption          |               |                   | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Natural Gas Space-Heating Intensity           |   |      | RSE Row Factors |
|--|----------------------|---------------|-------------------|------------------------|---------------------------------|----------------------------|------------------------------|---|---|------|-----------------|
|  | Households (million) | (million Btu) | (1000 cubic feet) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (cubic feet/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |      |                 |
| RSE Column Factors:                    | 2.5                  | NF            | NF                | NF                     | 1.4                             | 0.3                        | 0.3                          | NF  | NF  |      |                 |
| <b>New England Division</b> .....      | 1.3                  | 73.5          | 71.0              | 562                    | 1,546                           | 5,220                      | 6,030                        | 8.8   | 7.0                                       | 4.9  |                 |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |                   |                        |                                 |                            |                              |   |   |      |                 |
| Under 2,000 HDD and                    |                      |               |                   |                        |                                 |                            |                              |   |   |      |                 |
| Over 5,500 HDD .....                   | 1.3                  | 73.5          | 71.0              | 562                    | 1,546                           | 5,220                      | 6,030                        | 8.8   | 7.0                                       | 4.9  |                 |
| Under 5,500 HDD .....                  | NC                   | NC            | NC                | NC                     | NC                              | NC                         | NC                           | NC  | NC  | NC   |                 |
| 2,000 HDD or More and                  |                      |               |                   |                        |                                 |                            |                              |   |   |      |                 |
| Under 4,000 HDD .....                  | NC                   | NC            | NC                | NC                     | NC                              | NC                         | NC                           | NC  | NC  | NC   |                 |
| <b>Type of Housing Unit</b>            |                      |               |                   |                        |                                 |                            |                              |   |   |      |                 |
| Single-Family .....                    | .5                   | 89.1          | 86.1              | 681                    | 2,260                           | 5,163                      | 6,042                        | 7.4   | 5.8                                       | 7.5  |                 |
| Mobile Home .....                      | NC                   | NC            | NC                | NC                     | NC                              | NC                         | NC                           | NC  | NC  | NC   |                 |
| Multifamily (2 or more units) ..       | .8                   | 63.4          | 61.3              | 485                    | 1,087                           | 5,256                      | 6,022                        | 10.7  | 8.5                                       | 6.2  |                 |
| <b>Heated Floorspace (square feet)</b> |                      |               |                   |                        |                                 |                            |                              |   |   |      |                 |
| Fewer than 1,000 .....                 | .5                   | 52.0          | 50.2              | 397                    | 758                             | 5,114                      | 5,888                        | 12.9  | 10.2                                      | 6.1  |                 |
| 1,000 to 1,999 .....                   | .6                   | 75.7          | 73.2              | 584                    | 1,370                           | 5,275                      | 6,077                        | 10.1  | 8.1                                       | 4.8  |                 |
| 2,000 or More .....                    | .3                   | 102.9         | 99.3              | 777                    | 3,160                           | 5,273                      | 6,157                        | 6.0   | 4.7                                       | 7.4  |                 |
| <b>Overship of Unit</b>                |                      |               |                   |                        |                                 |                            |                              |   |   |      |                 |
| Owned .....                            | .7                   | 84.3          | 81.4              | 637                    | 2,133                           | 5,263                      | 6,111                        | 7.3   | 5.7                                       | 6.2  |                 |
| Rented .....                           | .7                   | 62.5          | 60.4              | 486                    | 950                             | 5,176                      | 5,947                        | 12.3  | 9.9                                       | 5.0  |                 |
| <b>Year of Construction</b>            |                      |               |                   |                        |                                 |                            |                              |   |   |      |                 |
| 1949 or Before .....                   | .7                   | 76.8          | 74.1              | 581                    | 1,326                           | 5,312                      | 6,122                        | 10.5  | 8.2                                       | 6.2  |                 |
| 1950 to 1979 .....                     | .5                   | 71.6          | 69.4              | 545                    | 1,764                           | 5,081                      | 5,938                        | 7.7   | 6.1                                       | 10.4 |                 |
| 1980 or After <sup>2</sup> .....       | .2                   | 65.9          | 63.6              | 538                    | 1,732                           | 5,293                      | 5,952                        | 6.9   | 5.9                                       | 11.7 |                 |
| <b>1990 Family Income</b>              |                      |               |                   |                        |                                 |                            |                              |   |   |      |                 |
| Less than \$10,000 .....               | .2                   | 64.8          | 62.6              | 466                    | 1,013                           | 5,127                      | 5,839                        | 12.1  | 9.0                                       | 9.3  |                 |
| \$10,000 to \$19,999 .....             | .3                   | 76.1          | 73.5              | 604                    | 1,228                           | 5,273                      | 6,129                        | 11.4  | 9.3                                       | 8.5  |                 |
| \$20,000 to \$34,999 .....             | .3                   | 56.2          | 54.3              | 446                    | 1,076                           | 5,152                      | 5,979                        | 9.8   | 8.0                                       | 6.0  |                 |
| \$35,000 or More .....                 | .5                   | 86.0          | 83.0              | 647                    | 2,247                           | 5,267                      | 6,078                        | 7.0   | 5.5                                       | 6.9  |                 |
| <b>Below Poverty Line</b>              |                      |               |                   |                        |                                 |                            |                              |   |   |      |                 |
| 100 Percent .....                      | .2                   | 68.1          | 65.9              | 504                    | 996                             | 5,083                      | 5,832                        | 13.0  | 10.0                                      | 7.7  |                 |
| 125 Percent .....                      | .2                   | 68.5          | 66.3              | 514                    | 1,012                           | 5,062                      | 5,825                        | 12.9  | 10.0                                      | 7.2  |                 |
| <b>Age of Householder</b>              |                      |               |                   |                        |                                 |                            |                              |   |   |      |                 |
| Under 35 Years .....                   | .4                   | 69.2          | 66.8              | 511                    | 1,169                           | 5,234                      | 6,003                        | 10.9  | 8.4                                       | 8.1  |                 |
| 35 to 59 Years .....                   | .6                   | 71.7          | 69.2              | 554                    | 1,470                           | 5,158                      | 5,977                        | 9.1   | 7.3                                       | 4.2  |                 |
| 60 Years and Over .....                | .4                   | 81.0          | 78.2              | 630                    | 2,089                           | 5,296                      | 6,139                        | 7.1   | 5.7                                       | 10.9 |                 |
| <b>Household Size</b>                  |                      |               |                   |                        |                                 |                            |                              |   |   |      |                 |
| 1 Person .....                         | .2                   | 54.6          | 52.7              | 430                    | 1,015                           | 5,174                      | 5,948                        | 10.0  | 8.2                                       | 9.3  |                 |
| 2 to 4 Persons .....                   | 1.0                  | 79.5          | 76.7              | 604                    | 1,700                           | 5,230                      | 6,047                        | 8.6   | 6.8                                       | 3.4  |                 |
| 5 or More Persons .....                | .1                   | 64.1          | 62.2              | 499                    | 1,990                           | 5,227                      | 6,053                        | 8.6   | 6.9                                       | 9.4  |                 |

See footnotes at end of table.

**NORTHEAST**

SPACE-HEATING CONSUMPTION/EXPENDITURES

NORTHEAST

Table 17. Natural Gas Consumption and Expenditures for Main Space Heating, per Northeast Region Household, 1990 (Continued)

| Characteristics                             | Households (million) | Consumption   |                   | Expenditures (dollars) | Heated Floor-space (square feet) | Annual Heating Degree-Days |                              | Natural Gas Space-Heating Intensity           |   | RSE Row Factors |
|---|----------------------|---------------|-------------------|------------------------|----------------------------------|----------------------------|------------------------------|---|---|-----------------|
|   |                      | (million Btu) | (1000 cubic feet) |                        |                                  | 1990                       | 30-Year Average <sup>1</sup> | Consumption (cubic feet/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
|   |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| RSE Column Factors:                         |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| Middle Atlantic Division .....              | 7.4                  | 82.9          | 80.2              | 559                    | 1,879                            | 4,848                      | 5,745                        | 8.8   | 6.1                                       | 3.7             |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| Under 2,000 HDD and Over 5,500 HDD .....    | 3.7                  | 94.9          | 91.7              | 587                    | 2,191                            | 5,462                      | 6,352                        | 7.7   | 4.9                                       | 4.4             |
| Under 5,500 HDD .....                       | 3.7                  | 71.0          | 68.8              | 531                    | 1,568                            | 4,236                      | 5,141                        | 10.4  | 8.0                                       | 5.0             |
| 2,000 HDD or More and Under 4,000 HDD ..... | NC                   | NC            | NC                | NC                     | NC                               | NC                         | NC                           | NC  | NC  | NC              |
| <b>Type of Housing Unit</b>                 |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| Single-Family .....                         | 4.8                  | 94.1          | 91.0              | 610                    | 2,307                            | 4,956                      | 5,838                        | 8.0   | 5.3                                       | 4.2             |
| Mobile Home .....                           | Q                    | Q             | Q                 | Q                      | Q                                | Q                          | Q                            | Q   | Q   | NF              |
| Multifamily (2 or more units) ..            | 2.5                  | 61.3          | 59.4              | 460                    | 1,067                            | 4,636                      | 5,560                        | 12.0  | 9.3                                       | 6.4             |
| <b>Heated Floor-space (square feet)</b>     |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| Fewer than 1,000 .....                      | 1.6                  | 51.2          | 49.5              | 372                    | 667                              | 4,701                      | 5,615                        | 15.8  | 11.9                                      | 4.5             |
| 1,000 to 1,999 .....                        | 3.0                  | 76.9          | 74.3              | 528                    | 1,407                            | 4,727                      | 5,640                        | 11.2  | 7.9                                       | 3.5             |
| 2,000 or More .....                         | 2.8                  | 107.1         | 103.6             | 697                    | 3,050                            | 5,056                      | 5,927                        | 6.7   | 4.5                                       | 4.9             |
| <b>Ownership of Unit</b>                    |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| Owned .....                                 | 5.0                  | 94.9          | 91.8              | 630                    | 2,257                            | 4,905                      | 5,791                        | 8.3   | 5.7                                       | 4.3             |
| Rented .....                                | 2.4                  | 58.0          | 56.1              | 411                    | 1,092                            | 4,730                      | 5,649                        | 10.9  | 8.0                                       | 4.7             |
| <b>Year of Construction</b>                 |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| 1949 or Before .....                        | 4.0                  | 88.8          | 85.9              | 608                    | 1,838                            | 4,828                      | 5,746                        | 9.7   | 6.9                                       | 4.2             |
| 1950 to 1979 .....                          | 3.3                  | 76.3          | 73.9              | 504                    | 1,928                            | 4,847                      | 5,723                        | 7.9   | 5.4                                       | 5.5             |
| 1980 or After <sup>2</sup> .....            | Q                    | Q             | Q                 | Q                      | Q                                | Q                          | Q                            | Q   | Q   | NF              |
| <b>1990 Family Income</b>                   |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| Less than \$10,000 .....                    | 1.1                  | 67.2          | 64.8              | 472                    | 1,175                            | 4,848                      | 5,764                        | 11.4  | 8.3                                       | 6.4             |
| \$10,000 to \$19,999 .....                  | 1.4                  | 75.2          | 72.8              | 500                    | 1,545                            | 4,897                      | 5,790                        | 9.6   | 6.6                                       | 6.4             |
| \$20,000 to \$34,999 .....                  | 1.4                  | 77.9          | 75.5              | 533                    | 1,799                            | 4,813                      | 5,767                        | 8.7   | 6.2                                       | 5.0             |
| \$35,000 or More .....                      | 3.5                  | 93.1          | 90.1              | 621                    | 2,269                            | 4,843                      | 5,712                        | 8.2   | 5.7                                       | 5.5             |
| <b>Below Poverty Line</b>                   |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| 100 Percent .....                           | .9                   | 68.9          | 66.5              | 484                    | 1,291                            | 4,808                      | 5,747                        | 10.7  | 7.8                                       | 7.1             |
| 125 Percent .....                           | 1.2                  | 73.5          | 71.0              | 510                    | 1,354                            | 4,827                      | 5,751                        | 10.9  | 7.8                                       | 7.5             |
| <b>Age of Householder</b>                   |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| Under 35 Years .....                        | 1.9                  | 70.5          | 68.3              | 487                    | 1,316                            | 4,808                      | 5,728                        | 10.8  | 7.7                                       | 5.0             |
| 35 to 59 Years .....                        | 3.4                  | 85.1          | 82.2              | 565                    | 2,158                            | 4,896                      | 5,783                        | 7.8   | 5.3                                       | 6.0             |
| 60 Years and Over .....                     | 2.1                  | 90.3          | 87.4              | 612                    | 1,925                            | 4,807                      | 5,701                        | 9.4   | 6.6                                       | 4.4             |
| <b>Household Size</b>                       |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| 1 Person .....                              | 1.5                  | 64.4          | 62.3              | 445                    | 1,113                            | 4,841                      | 5,743                        | 11.6  | 8.3                                       | 6.2             |
| 2 to 4 Persons .....                        | 5.0                  | 87.2          | 84.4              | 585                    | 2,015                            | 4,869                      | 5,773                        | 8.6   | 6.0                                       | 4.3             |
| 5 or More Persons .....                     | .9                   | 91.0          | 87.9              | 613                    | 2,493                            | 4,746                      | 5,594                        | 7.6   | 5.3                                       | 5.9             |

<sup>1</sup> The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1980.

Q = No cases in sample.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 18. Fuel Oil Consumption and Expenditures for Main Space Heating, per Northeast Region Household, 1990**

| Characteristics                              | Households (million) | Consumption               |                       |                        | Expenditures (dollars) | Heated Floor-space (square feet) | Annual Heating Degree-Days       |       |                              | Fuel Oil Space-Heating Intensity           |   | RSE Row Factors |
|--|----------------------|---------------------------|-----------------------|------------------------|------------------------|----------------------------------|----------------------------------|-------|------------------------------|--|---|-----------------|
|  |                      | Consumption (million Btu) | Consumption (gallons) | Expenditures (dollars) |                        |                                  | Heated Floor-space (square feet) | 1990  | 30-Year Average <sup>1</sup> | Consumption (gallons/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
|  |                      |                           |                       |                        |                        |                                  |                                  |       |                              |  |   |                 |
| <b>Northeast Region</b>                      |                      |                           |                       |                        |                        |                                  |                                  |       |                              |  |   |                 |
| <b>Total Region</b> .....                    | 7.4                  | 84.8                      | 616                   | 869                    | 1,880                  | 5,108                            | 5,945                            | 0.064 | 7.0                          | 3.4  |   |                 |
| <b>Climate Zone<sup>1</sup></b>              |                      |                           |                       |                        |                        |                                  |                                  |       |                              |  |   |                 |
| Under 2,000 HDD .....                        | 4.7                  | 92.2                      | 688                   | 728                    | 1,958                  | 5,592                            | 6,397                            | .061  | 6.6                          | 4.2  |   |                 |
| Over 5,500 HDD .....                         | 2.7                  | 71.5                      | 522                   | 566                    | 1,741                  | 4,247                            | 5,139                            | .071  | 7.6                          | 6.5  |   |                 |
| 2,000 HDD or More and Under 4,000 HDD .....  | NC                   | NC                        | NC                    | NC                     | NC                     | NC                               | NC                               | NC    | NC                           | NC   | NC  |                 |
| <b>Type of Housing Unit</b>                  |                      |                           |                       |                        |                        |                                  |                                  |       |                              |  |   |                 |
| Single-Family .....                          | 4.6                  | 102.6                     | 742                   | 825                    | 2,327                  | 5,272                            | 6,103                            | .061  | 6.7                          | 3.6  |   |                 |
| Mobile Home .....                            | Q                    | 52.6                      | 385                   | 438                    | 871                    | 6,137                            | 6,954                            | .072  | 8.2                          | 28.6                                       |   |                 |
| Multifamily (2 or more units) ..             | 2.6                  | 55.1                      | 405                   | 407                    | 1,154                  | 4,732                            | 5,579                            | .074  | 7.5                          | 6.4  |   |                 |
| <b>Heated Floor-space (square feet)</b>      |                      |                           |                       |                        |                        |                                  |                                  |       |                              |  |   |                 |
| Fewer than 1,000 .....                       | 1.9                  | 48.4                      | 355                   | 363                    | 676                    | 4,834                            | 5,688                            | .109  | 11.1                         | 5.6  |   |                 |
| 1,000 to 1,999 .....                         | 2.5                  | 77.0                      | 559                   | 617                    | 1,460                  | 5,202                            | 6,019                            | .074  | 8.1                          | 3.7  |   |                 |
| 2,000 or More .....                          | 3.1                  | 113.2                     | 820                   | 898                    | 2,953                  | 5,201                            | 6,041                            | .053  | 5.9                          | 4.3  |   |                 |
| <b>Ownership of Unit</b>                     |                      |                           |                       |                        |                        |                                  |                                  |       |                              |  |   |                 |
| Owned .....                                  | 5.3                  | 96.0                      | 695                   | 767                    | 2,207                  | 5,198                            | 6,035                            | .061  | 6.7                          | 3.5  |   |                 |
| Rented .....                                 | 2.1                  | 56.6                      | 416                   | 426                    | 1,062                  | 4,884                            | 5,720                            | .080  | 8.2                          | 5.5  |   |                 |
| <b>Year of Construction</b>                  |                      |                           |                       |                        |                        |                                  |                                  |       |                              |  |   |                 |
| 1949 or Before .....                         | 3.7                  | 85.2                      | 620                   | 668                    | 1,712                  | 5,123                            | 5,959                            | .071  | 7.6                          | 5.1  |   |                 |
| 1950 to 1979 .....                           | 3.5                  | 85.7                      | 621                   | 683                    | 2,027                  | 5,027                            | 5,869                            | .061  | 6.7                          | 4.1  |   |                 |
| 1980 or After <sup>2</sup> .....             | .3                   | 66.2                      | 480                   | 521                    | 2,273                  | 5,937                            | 6,717                            | .036  | 3.9                          | 12.5                                       |   |                 |
| <b>1990 Family Income</b>                    |                      |                           |                       |                        |                        |                                  |                                  |       |                              |  |   |                 |
| Less than \$10,000 .....                     | 1.2                  | 66.8                      | 486                   | 510                    | 1,258                  | 5,008                            | 5,823                            | .077  | 8.1                          | 10.4                                       |   |                 |
| \$10,000 to \$19,999 .....                   | 1.1                  | 74.6                      | 544                   | 576                    | 1,387                  | 4,979                            | 5,859                            | .079  | 8.3                          | 6.7  |   |                 |
| \$20,000 to \$34,999 .....                   | 1.8                  | 77.2                      | 561                   | 601                    | 1,799                  | 5,323                            | 6,125                            | .059  | 6.3                          | 5.0  |   |                 |
| \$35,000 or More .....                       | 3.3                  | 99.1                      | 718                   | 799                    | 2,329                  | 5,073                            | 5,921                            | .061  | 6.8                          | 4.3  |   |                 |
| <b>Below Poverty Line</b>                    |                      |                           |                       |                        |                        |                                  |                                  |       |                              |  |   |                 |
| 100 Percent .....                            | .8                   | 62.5                      | 456                   | 478                    | 1,293                  | 4,815                            | 5,631                            | .073  | 7.7                          | 10.5                                       |   |                 |
| 125 Percent .....                            | 1.2                  | 62.4                      | 456                   | 477                    | 1,311                  | 4,950                            | 5,771                            | .070  | 7.4                          | 7.6  |   |                 |
| <b>Age of Householder</b>                    |                      |                           |                       |                        |                        |                                  |                                  |       |                              |  |   |                 |
| Under 35 Years .....                         | 1.9                  | 71.5                      | 522                   | 559                    | 1,563                  | 4,955                            | 5,788                            | .067  | 7.2                          | 5.3  |   |                 |
| 35 to 59 Years .....                         | 3.0                  | 90.0                      | 653                   | 719                    | 2,138                  | 5,109                            | 5,962                            | .060  | 6.6                          | 3.8  |   |                 |
| 60 Years and Over .....                      | 2.5                  | 88.6                      | 643                   | 695                    | 1,819                  | 5,224                            | 6,044                            | .068  | 7.3                          | 5.9  |   |                 |
| <b>Household Size</b>                        |                      |                           |                       |                        |                        |                                  |                                  |       |                              |  |   |                 |
| 1 Person .....                               | 1.9                  | 67.2                      | 490                   | 514                    | 1,326                  | 5,091                            | 5,945                            | .073  | 7.6                          | 6.6  |   |                 |
| 2 to 4 Persons .....                         | 4.7                  | 89.0                      | 646                   | 704                    | 1,993                  | 5,191                            | 6,008                            | .062  | 6.8                          | 3.9  |   |                 |
| 5 or More Persons .....                      | .8                   | 101.0                     | 732                   | 833                    | 2,524                  | 4,675                            | 5,580                            | .062  | 7.1                          | 6.2  |   |                 |
| <b>Main Heating Equipment Using Fuel Oil</b> |                      |                           |                       |                        |                        |                                  |                                  |       |                              |  |   |                 |
| Central Warm-Air Furnace .....               | 2.0                  | 72.8                      | 528                   | 583                    | 1,798                  | 5,552                            | 6,327                            | .053  | 5.8                          | 6.6  |   |                 |
| Steam or Hot-Water System .....              | 5.3                  | 89.4                      | 649                   | 702                    | 1,916                  | 4,943                            | 5,801                            | .069  | 7.4                          | 4.2  |   |                 |
| Other .....                                  | Q                    | Q                         | Q                     | Q                      | Q                      | Q                                | Q                                | Q     | Q                            | NE   |   |                 |

See footnotes at end of table.

**NORTHEAST**

**SPACE-HEATING CONSUMPTION/EXPENDITURES**

SPACE-HEATING CONSUMPTION/EXPENDITURES

NORTHEAST

Table 18. Fuel Oil Consumption and Expenditures for Main Space Heating, per Northeast Region Household, 1990 (Continued)

| Characteristics   | Households (million) | Consumption   |           | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Fuel Oil Space-Heating Intensity           |   | RSE Row Factors |
|---|----------------------|---------------|-----------|------------------------|---------------------------------|----------------------------|------------------------------|--|---|-----------------|
|   |                      | (million Btu) | (gallons) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (gallons/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
|   |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| RSE Column Factors:   |                      |               |           |                        |                                 |                            |                              |  |   |                 |
|   | 2.1                  | NF            | NF        | NF                     | 1.2                             | 0.4                        | 0.3                          | NF   | NF  |                 |
| Northeast Region  |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| <b>Age of Main Heating Equipment</b>  |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| Less than 5 Years .....   | 1.5                  | 91.7          | 664       | 728                    | 1,921                           | 5,484                      | 6,326                        | 0.063                                      | 6.9                                       | 6.1             |
| 5 to 9 Years .....  | .8                   | 97.1          | 702       | 784                    | 2,354                           | 5,479                      | 6,257                        | .054                                       | 6.1                                       | 8.6             |
| 10 to 19 Years .....  | 1.3                  | 91.1          | 662       | 712                    | 2,232                           | 5,192                      | 5,922                        | .057                                       | 6.1                                       | 7.5             |
| 20 Years or More .....  | 2.2                  | 90.4          | 655       | 728                    | 1,841                           | 5,043                      | 5,913                        | .071                                       | 7.8                                       | 5.0             |
| Don't Know .....  | 1.6                  | 59.1          | 434       | 440                    | 1,383                           | 4,599                      | 5,496                        | .068                                       | 6.9                                       | 8.7             |
| <b>Secondary Heating Fuel (more than one may apply)</b>                       |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| No .....  | 4.4                  | 71.2          | 519       | 553                    | 1,573                           | 4,939                      | 5,788                        | .067                                       | 7.1                                       | 4.8             |
| Yes .....   | 3.0                  | 104.5         | 757       | 839                    | 2,329                           | 5,356                      | 6,175                        | .061                                       | 6.7                                       | 4.5             |
| Wood .....  | 1.9                  | 111.6         | 807       | 894                    | 2,706                           | 5,368                      | 6,195                        | .056                                       | 6.2                                       | 5.5             |
| Electricity .....   | 1.2                  | 105.3         | 764       | 853                    | 2,124                           | 5,360                      | 6,173                        | .067                                       | 7.5                                       | 6.9             |
| Kerosene .....  | .3                   | 97.9          | 707       | 787                    | 2,003                           | 5,662                      | 6,422                        | .062                                       | 6.9                                       | 10.5            |
| Other .....   | .3                   | 95.9          | 697       | 731                    | 1,934                           | 5,544                      | 6,415                        | .065                                       | 6.8                                       | 14.5            |
| <b>Average Fuel Oil Expenditures for Main Space Heat (dollars per gallon)</b> |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| Less than .95 .....   | 1.7                  | 45.3          | 331       | 267                    | 1,379                           | 4,679                      | 5,543                        | .051                                       | 4.1                                       | 7.5             |
| .95 to Less than 1.10 .....   | 3.2                  | 90.8          | 662       | 712                    | 1,924                           | 5,286                      | 6,106                        | .065                                       | 7.0                                       | 4.1             |
| 1.10 or More .....  | 2.5                  | 103.8         | 749       | 890                    | 2,166                           | 5,169                      | 6,008                        | .067                                       | 8.0                                       | 5.6             |
| <b>Winter Temperature Inside Housing Unit</b>                                 |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| Prefer  |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| Usual Temperature .....   | 5.9                  | 85.6          | 622       | 672                    | 1,914                           | 5,113                      | 5,943                        | .064                                       | 6.9                                       | 3.7             |
| Warmer Temperature .....  | 1.1                  | 87.5          | 634       | 716                    | 1,882                           | 5,134                      | 5,990                        | .066                                       | 7.4                                       | 6.4             |
| Cooler Temperature .....  | .3                   | 58.1          | 428       | 452                    | 1,232                           | 4,927                      | 5,813                        | .070                                       | 7.4                                       | 18.7            |
| <b>Adequacy of Insulation</b>   |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| Well Insulated .....  | 3.1                  | 81.9          | 595       | 644                    | 2,060                           | 4,998                      | 5,856                        | .058                                       | 6.3                                       | 6.4             |
| Adequately Insulated .....  | 2.9                  | 89.0          | 646       | 706                    | 1,888                           | 5,155                      | 5,995                        | .066                                       | 7.3                                       | 3.9             |
| Poorly Insulated .....  | 1.2                  | 90.0          | 655       | 716                    | 1,635                           | 5,310                      | 6,092                        | .075                                       | 8.3                                       | 5.4             |
| Don't Know .....  | .2                   | 40.9          | 301       | 295                    | 684                             | 4,936                      | 5,729                        | .089                                       | 8.7                                       | 21.4            |

See footnotes at end of table.

**Table 18. Fuel Oil Consumption and Expenditures for Main Space Heating, per Northeast Region Household, 1990 (Continued)**

| Characteristics                        | Households (million) | Consumption   |           | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Fuel Oil Space-Heating Intensity           |   | RSE Flow Factors |
|--|----------------------|---------------|-----------|------------------------|---------------------------------|----------------------------|------------------------------|--|---|------------------|
|  |                      | (million Btu) | (gallons) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (gallons/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                  |
| RSE Column Factors:                    | 2.1                  | NF            | NF        | NF                     | 1.2                             | 0.4                        | 0.3                          | NF   | NF  |                  |
| <b>New England Division</b>            | 2.2                  | 94.7          | 687       | 746                    | 1,909                           | 5,949                      | 6,779                        | 0.060                                      | 6.6                                       | 2.9              |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |           |                        |                                 |                            |                              |  |   |                  |
| Under 2,000 CDD and Over 5,500 HDD     | 2.2                  | 94.7          | 687       | 745                    | 1,911                           | 5,954                      | 6,784                        | .060                                       | 6.6                                       | 2.9              |
| Under 5,500 HDD                        | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q  | Q   | NF               |
| 2,000 CDD or More and Under 4,000 HDD  | NC                   | NC            | NC        | NC                     | NC                              | NC                         | NC                           | NC   | NC  | NC               |
| <b>Type of Housing Unit</b>            |                      |               |           |                        |                                 |                            |                              |  |   |                  |
| Single-Family                          | 1.6                  | 106.1         | 768       | 833                    | 2,257                           | 5,958                      | 6,792                        | .057                                       | 6.2                                       | 3.3              |
| Mobile Home                            | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q  | Q   | NF               |
| Multifamily (2 or more units)          | .6                   | 69.2          | 507       | 550                    | 1,114                           | 5,760                      | 6,584                        | .079                                       | 8.6                                       | 6.6              |
| <b>Heated Floorspace (square feet)</b> |                      |               |           |                        |                                 |                            |                              |  |   |                  |
| Fewer than 1,000                       | .5                   | 58.6          | 427       | 466                    | 679                             | 5,775                      | 6,626                        | .109                                       | 11.9                                      | 6.9              |
| 1,000 to 1,999                         | .8                   | 88.6          | 643       | 703                    | 1,489                           | 5,906                      | 6,722                        | .073                                       | 8.0                                       | 4.6              |
| 2,000 or More                          | 1.0                  | 118.1         | 856       | 923                    | 2,875                           | 6,074                      | 6,903                        | .049                                       | 5.3                                       | 4.0              |
| <b>Ownership of Unit</b>               |                      |               |           |                        |                                 |                            |                              |  |   |                  |
| Owned                                  | 1.6                  | 104.4         | 756       | 821                    | 2,233                           | 6,046                      | 6,873                        | .056                                       | 6.1                                       | 3.1              |
| Rented                                 | .6                   | 68.3          | 500       | 544                    | 1,035                           | 5,690                      | 6,524                        | .085                                       | 9.2                                       | 8.1              |
| <b>Year of Construction</b>            |                      |               |           |                        |                                 |                            |                              |  |   |                  |
| 1949 or Before                         | 1.2                  | 96.2          | 699       | 758                    | 1,682                           | 5,865                      | 6,683                        | .071                                       | 7.7                                       | 4.1              |
| 1950 to 1979                           | .9                   | 95.1          | 689       | 745                    | 2,146                           | 5,924                      | 6,775                        | .054                                       | 5.9                                       | 5.6              |
| 1980 or After                          | .1                   | 79.1          | 574       | 648                    | 2,370                           | 6,793                      | 7,592                        | .036                                       | 4.0                                       | 18.3             |
| <b>1990 Family Income</b>              |                      |               |           |                        |                                 |                            |                              |  |   |                  |
| Less than \$10,000                     | .4                   | 81.0          | 589       | 641                    | 1,283                           | 6,031                      | 6,860                        | .076                                       | 8.3                                       | 8.3              |
| \$10,000 to \$19,999                   | .4                   | 81.4          | 592       | 632                    | 1,530                           | 5,798                      | 6,667                        | .067                                       | 7.1                                       | 8.2              |
| \$20,000 to \$34,999                   | .5                   | 87.5          | 636       | 684                    | 1,834                           | 6,188                      | 6,975                        | .056                                       | 6.0                                       | 7.3              |
| \$35,000 or More                       | .9                   | 109.6         | 794       | 869                    | 2,362                           | 5,834                      | 6,666                        | .058                                       | 6.3                                       | 4.3              |
| <b>Below Poverty Line</b>              |                      |               |           |                        |                                 |                            |                              |  |   |                  |
| 100 Percent                            | .2                   | 82.6          | 602       | 662                    | 1,157                           | 5,861                      | 6,708                        | .089                                       | 9.8                                       | 10.2             |
| 125 Percent                            | .4                   | 72.5          | 530       | 580                    | 1,122                           | 6,048                      | 6,991                        | .078                                       | 8.5                                       | 8.5              |
| <b>Age of Householder</b>              |                      |               |           |                        |                                 |                            |                              |  |   |                  |
| Under 35 Years                         | .5                   | 79.7          | 580       | 629                    | 1,611                           | 5,832                      | 6,665                        | .062                                       | 6.7                                       | 5.9              |
| 35 to 59 Years                         | .9                   | 98.4          | 714       | 781                    | 2,013                           | 5,944                      | 6,780                        | .060                                       | 6.5                                       | 5.0              |
| 60 Years and Over                      | .8                   | 99.4          | 721       | 776                    | 1,970                           | 6,026                      | 6,946                        | .061                                       | 6.5                                       | 5.6              |
| <b>Household Size</b>                  |                      |               |           |                        |                                 |                            |                              |  |   |                  |
| 1 Person                               | .6                   | 85.3          | 620       | 670                    | 1,521                           | 5,919                      | 6,772                        | .069                                       | 7.4                                       | 6.3              |
| 2 to 4 Persons                         | 1.4                  | 99.2          | 720       | 783                    | 2,043                           | 6,004                      | 6,818                        | .059                                       | 6.4                                       | 4.3              |
| 5 or More Persons                      | .2                   | 90.2          | 655       | 703                    | 2,122                           | 5,648                      | 6,517                        | .055                                       | 5.9                                       | 6.1              |

See footnotes at end of table.

SPACE-HEATING CONSUMPTION/EXPENDITURES

NORTHEAST

Table 18. Fuel Oil Consumption and Expenditures for Main Space Heating, per Northeast Region Household, 1990 (Continued)

| Characteristics                        | Households (million) | Consumption   |           | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Fuel Oil Space-Heating Intensity           |   | RSE Row Factors |
|--|----------------------|---------------|-----------|------------------------|---------------------------------|----------------------------|------------------------------|--|---|-----------------|
|  |                      | (million Btu) | (gallons) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (gallons/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
|  |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| RSE Column Factors:                    |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| Middle Atlantic Division               | 5.2                  | 80.4          | 584       | 636                    | 1,868                           | 4,741                      | 5,581                        | 0.066                                      | 7.2                                       | 4.7             |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| Under 2,000 HDD                        |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| Over 5,500 HDD                         | 2.5                  | 90.0          | 651       | 712                    | 2,000                           | 5,267                      | 6,050                        | .062                                       | 6.8                                       | 7.5             |
| Under 5,500 HDD                        | 2.7                  | 71.4          | 521       | 565                    | 1,743                           | 4,246                      | 5,138                        | .070                                       | 7.6                                       | 6.5             |
| 2,000 HDD or More                      |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| Under 4,000 HDD                        | NC                   | NC            | NC        | NC                     | NC                              | NC                         | NC                           | NC   | NC  | NC              |
| <b>Type of Housing Unit</b>            |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| Single-Family                          | 3.1                  | 100.8         | 729       | 821                    | 2,363                           | 4,922                      | 5,752                        | .063                                       | 7.1                                       | 5.1             |
| Mobile Home                            | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q  | Q   | NF              |
| Multifamily (2 or more units)          | 2.0                  | 50.7          | 374       | 363                    | 1,167                           | 4,412                      | 5,266                        | .073                                       | 7.0                                       | 7.9             |
| <b>Heated Floorspace (square feet)</b> |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| Fewer than 1,000                       | 1.4                  | 44.6          | 329       | 326                    | 675                             | 4,486                      | 5,342                        | .108                                       | 10.7                                      | 6.8             |
| 1,000 to 1,999                         | 1.7                  | 71.8          | 521       | 577                    | 1,447                           | 4,883                      | 5,702                        | .074                                       | 8.2                                       | 4.7             |
| 2,000 or More                          | 2.1                  | 110.9         | 803       | 887                    | 2,990                           | 4,792                      | 5,638                        | .056                                       | 6.2                                       | 5.2             |
| <b>Ownership of Unit</b>               |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| Owned                                  | 3.6                  | 92.2          | 668       | 742                    | 2,196                           | 4,817                      | 5,658                        | .063                                       | 7.0                                       | 4.9             |
| Rented                                 | 1.5                  | 51.9          | 382       | 379                    | 1,073                           | 4,559                      | 5,395                        | .078                                       | 7.7                                       | 7.3             |
| <b>Year of Construction</b>            |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| 1949 or Before                         | 2.4                  | 79.8          | 581       | 622                    | 1,726                           | 4,752                      | 5,586                        | .071                                       | 7.6                                       | 7.3             |
| 1950 to 1979                           | 2.6                  | 82.5          | 598       | 662                    | 1,986                           | 4,721                      | 5,559                        | .064                                       | 7.1                                       | 5.3             |
| 1980 or After <sup>2</sup>             | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q  | Q   | NF              |
| <b>1990 Family Income</b>              |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| Less than \$10,000                     | .8                   | 59.7          | 435       | 445                    | 1,245                           | 4,498                      | 5,306                        | .078                                       | 7.9                                       | 14.6            |
| \$10,000 to \$19,999                   | .8                   | 71.4          | 523       | 551                    | 1,322                           | 4,605                      | 5,482                        | .086                                       | 9.0                                       | 9.6             |
| \$20,000 to \$34,999                   | 1.3                  | 72.7          | 529       | 564                    | 1,784                           | 4,945                      | 5,753                        | .060                                       | 6.4                                       | 6.2             |
| \$35,000 or More                       | 2.3                  | 94.9          | 687       | 770                    | 2,315                           | 4,762                      | 5,616                        | .062                                       | 7.0                                       | 5.8             |
| <b>Below Poverty Line</b>              |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| 100 Percent                            | .6                   | 55.1          | 403       | 410                    | 1,344                           | 4,428                      | 5,233                        | .068                                       | 6.9                                       | 11.8            |
| 125 Percent                            | .9                   | 58.0          | 423       | 432                    | 1,393                           | 4,469                      | 5,279                        | .068                                       | 6.9                                       | 9.2             |
| <b>Age of Householder</b>              |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| Under 35 Years                         | 1.4                  | 68.7          | 502       | 535                    | 1,547                           | 4,651                      | 5,484                        | .070                                       | 7.4                                       | 7.4             |
| 35 to 59 Years                         | 2.0                  | 86.1          | 624       | 691                    | 2,195                           | 4,724                      | 5,584                        | .060                                       | 6.7                                       | 4.6             |
| 60 Years and Over                      | 1.7                  | 83.5          | 606       | 656                    | 1,748                           | 4,838                      | 5,658                        | .072                                       | 7.8                                       | 8.2             |
| <b>Household Size</b>                  |                      |               |           |                        |                                 |                            |                              |  |   |                 |
| 1 Person                               | 1.3                  | 58.8          | 429       | 441                    | 1,235                           | 4,704                      | 5,559                        | .074                                       | 7.6                                       | 9.1             |
| 2 to 4 Persons                         | 3.2                  | 84.5          | 614       | 669                    | 1,971                           | 4,829                      | 5,647                        | .064                                       | 7.0                                       | 5.5             |
| 5 or More Persons                      | .6                   | 104.5         | 757       | 875                    | 2,653                           | 4,363                      | 5,279                        | .065                                       | 7.6                                       | 7.1             |

<sup>1</sup> The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 19. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, Northeast Region Households, 1990**

| Characteristics                             | Electricity Used for All Air Conditioning |                                       | Electricity Used for Central Air Conditioning <sup>1</sup> |                        |                                  |       |                 |   |  |                                     |      |          | RSE Fcns |    |
|---|---|---------------------------------------|--|------------------------|----------------------------------|-------|-----------------|---|--|-------------------------------------|------|----------|----------|----|
|   | Total Consumption (million Btu)           | Total Expenditures (billions dollars) | per Household  |                        |                                  |       |                 | Annual Cooling Degree-Days                |  | Electric Air-Conditioning Intensity |      | RSE Fcns |          |    |
|   |   |                                       | Consumption (million Btu)                                  | Expenditures (dollars) | Cooled Floor-space (square feet) | 1990  | 30-Year Average | Con- sumption (kWh/ CDD*1000 square feet) | Ex- pend- itures (cents/ CDD*1000 square feet) |                                     |      |          |          |    |
| RSE Column Factors:                         | 0.9                                       | NF                                    | NF   | NF                     | 1.8                              | NF    | NF              | NF  | 1.0  | 0.4                                 | 0.4  | NF       | NF       | NF |
| <b>Northeast Region</b>                     |   |                                       |  |                        |                                  |       |                 |   |  |                                     |      |          |          |    |
| <b>Total Region</b> .....                   | 10.1                                      | 31.2                                  | 1.03   | 3.0                    | 6.3                              | 1,892 | 203             | 2,369                                     | 870  | 793                                 | 0.89 | 9.9      | 6.5      |    |
| <b>Climate Zone<sup>2</sup></b>             |   |                                       |  |                        |                                  |       |                 |   |  |                                     |      |          |          |    |
| Under 2,000 CDD and Over 5,500 HDD .....    | 5.6                                       | 14.9                                  | .44  | 1.6                    | 5.4                              | 1,592 | 162             | 2,490                                     | 732  | 674                                 | .87  | 8.9      | 7.6      |    |
| Under 5,500 HDD .....                       | 4.6                                       | 16.3                                  | .59  | 1.4                    | 7.2                              | 2,124 | 253             | 2,222                                     | 1,038  | 997                                 | .92  | 11.0     | 12.2     |    |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC  | NC                                    | NC   | NC                     | NC                               | NC    | NC              | NC  | NC   | NC                                  | NC   | NC       | NC       |    |
| <b>Type of Housing Unit</b>                 |   |                                       |  |                        |                                  |       |                 |   |  |                                     |      |          |          |    |
| Single-Family .....                         | 6.4                                       | 23.8                                  | .78  | 2.4                    | 6.7                              | 1,977 | 220             | 2,701                                     | 852  | 771                                 | .86  | 9.6      | 6.6      |    |
| Mobile Home .....                           | Q   | Q                                     | Q  | Q                      | Q                                | Q     | Q               | Q   | Q  | Q                                   | Q    | Q        | NF       |    |
| Multifamily (2 or more units) ..            | 3.5                                       | 6.8                                   | .24  | .5                     | 3.8                              | 1,127 | 132             | 928                                       | 961  | 881                                 | 1.26 | 14.9     | 15.5     |    |
| <b>Heated Floorspace (square feet)</b>      |   |                                       |  |                        |                                  |       |                 |   |  |                                     |      |          |          |    |
| Fewer than 1,000 .....                      | 2.5                                       | 4.9                                   | .17  | .5                     | 4.0                              | 1,174 | 139             | 720                                       | 1,000  | 912                                 | 1.63 | 19.3     | 15.6     |    |
| 1,000 to 1,999 .....                        | 3.6                                       | 10.3                                  | .32  | 1.1                    | 5.4                              | 1,579 | 159             | 1,825                                     | 882  | 808                                 | .98  | 9.9      | 6.7      |    |
| 2,000 or More .....                         | 4.0                                       | 16.0                                  | .55  | 1.4                    | 7.7                              | 2,244 | 259             | 3,329                                     | 819  | 743                                 | .82  | 9.5      | 10.5     |    |
| <b>Ownership of Unit</b>                    |   |                                       |  |                        |                                  |       |                 |   |  |                                     |      |          |          |    |
| Owned .....                                 | 7.5                                       | 25.6                                  | .85  | 2.5                    | 6.7                              | 1,965 | 216             | 2,632                                     | 851  | 775                                 | .87  | 9.7      | 6.2      |    |
| Rented .....                                | 2.7                                       | 5.6                                   | .18  | .5                     | 4.2                              | 1,237 | 139             | 1,102                                     | 961  | 880                                 | 1.17 | 13.2     | 16.1     |    |
| <b>Year of Construction</b>                 |   |                                       |  |                        |                                  |       |                 |   |  |                                     |      |          |          |    |
| 1949 or Before .....                        | 3.7                                       | 8.3                                   | .28  | .4                     | 6.3                              | 1,892 | 186             | 2,163                                     | 742  | 705                                 | 1.14 | 11.6     | 16.3     |    |
| 1950 to 1979 .....                          | 5.5                                       | 18.6                                  | .63  | 1.9                    | 6.6                              | 1,945 | 229             | 2,461                                     | 885  | 794                                 | .89  | 10.5     | 9.2      |    |
| 1980 or After <sup>3</sup> .....            | .9  | 4.3                                   | .12  | .8                     | 5.3                              | 1,559 | 149             | 2,241                                     | 894  | 831                                 | .78  | 7.4      | 11.2     |    |
| <b>1990 Family Income</b>                   |   |                                       |  |                        |                                  |       |                 |   |  |                                     |      |          |          |    |
| Less than \$10,000 .....                    | 8   | 1.4                                   | .04  | Q                      | Q                                | Q     | Q               | Q   | Q  | Q                                   | Q    | Q        | 18.8     |    |
| \$10,000 to \$19,999 .....                  | 1.5                                       | 2.9                                   | .09  | .2                     | 4.0                              | 1,173 | 119             | 1,673                                     | 700  | 704                                 | 1.00 | 10.2     | 20.3     |    |
| \$20,000 to \$34,999 .....                  | 2.2                                       | 5.6                                   | .17  | .6                     | 4.9                              | 1,434 | 135             | 1,889                                     | 898  | 821                                 | .85  | 7.9      | 11.2     |    |
| \$35,000 or More .....                      | 5.6                                       | 21.3                                  | .73  | 2.0                    | 7.1                              | 2,068 | 238             | 2,644                                     | 881  | 792                                 | .89  | 10.2     | 8.1      |    |
| <b>Below Poverty Line</b>                   |   |                                       |  |                        |                                  |       |                 |   |  |                                     |      |          |          |    |
| 100 Percent .....                           | .6  | .8                                    | .03  | Q                      | Q                                | Q     | Q               | Q   | Q  | Q                                   | Q    | Q        | 15.5     |    |
| 125 Percent .....                           | .9  | 1.6                                   | .05  | Q                      | Q                                | Q     | Q               | Q   | Q  | Q                                   | Q    | Q        | 20.7     |    |
| <b>Age of Householder</b>                   |   |                                       |  |                        |                                  |       |                 |   |  |                                     |      |          |          |    |
| Under 35 Years .....                        | 2.7                                       | 7.9                                   | .27  | .7                     | 6.8                              | 2,005 | 224             | 2,172                                     | 921  | 848                                 | 1.00 | 11.2     | 15.0     |    |
| 35 to 59 Years .....                        | 4.4                                       | 16.5                                  | .55  | 1.6                    | 6.6                              | 1,937 | 213             | 2,447                                     | 887  | 804                                 | .89  | 9.8      | 6.5      |    |
| 60 Years and Over .....                     | 3.0                                       | 6.7                                   | .21  | .7                     | 4.9                              | 1,444 | 162             | 2,389                                     | 785  | 718                                 | .77  | 8.6      | 9.4      |    |

See footnotes at end of table.

**NORTHEAST**



Table 19. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, Northeast Region Households, 1990 (Continued)

| Characteristics  | Electricity Used for All Air Conditioning |                                  | Electricity Used for Central Air Conditioning <sup>1</sup> |                      |             |               |                            |                                  |   |  |                                   |      | RSE Row Factors |    |
|--|---|----------------------------------|--|----------------------|-------------|---------------|----------------------------|----------------------------------|---|--|-----------------------------------|------|-----------------|----|
|  | Households (million)                      | Total Consumption (trillion Btu) | Households (million)                                       |                      | Consumption |               | Annual Cooling Degree-Days |                                  | Electric Air-Conditioning Intensity           |  | 30-Year Average <sup>2</sup> 1990 | NF   |                 | NF |
|  |   |                                  | Total Expenditures (billion dollars)                       | Households (million) | (kWh)       | (million Btu) | Expenditures (dollars)     | Cooled Floor-space (square feet) | Con- sumption (kWh/1000 CDD*1000 square feet) | Expenditures (cents/1000 CDD*1000 square feet) |                                   |      |                 |    |
|  |   |                                  |  |                      |             |               |                            |                                  |   |  |                                   |      |                 |    |
| RSE Column Factors:  |   |                                  |  |                      |             |               |                            |                                  |   |  |                                   |      |                 |    |
| <p style="text-align: center;"><b>Northeast Region</b></p>       |   |                                  |  |                      |             |               |                            |                                  |   |  |                                   |      |                 |    |
| <b>Household Size</b>  |   |                                  |  |                      |             |               |                            |                                  |   |  |                                   |      |                 |    |
| 1 Person .....   | 2.4                                       | 5.1                              | 0.16   | 0.6                  | 3.6         | 1,054         | 111                        | 1,417                            | 838   | 777  | 0.89                              | 9.4  | 12.5            |    |
| 2 to 4 Persons .....   | 6.7                                       | 21.8                             | .72  | 2.1                  | 6.6         | 1,942         | 213                        | 2,521                            | 881   | 799  | .87                               | 9.6  | 6.0             |    |
| 5 or More Persons .....  | 1.0                                       | 4.4                              | .15  | .3                   | 9.0         | 2,627         | 316                        | 3,210                            | 856   | 783  | .96                               | 11.5 | 20.5            |    |
| <b>Cooling Degree-Days (CDD)-1990</b>                            |   |                                  |  |                      |             |               |                            |                                  |   |  |                                   |      |                 |    |
| 2,000 or More .....  | NC  | NC                               | NC   | NC                   | NC          | NC            | NC                         | NC                               | NC  | NC   | NC                                | NC   | NC              |    |
| 1,000 to 1,999 .....   | 2.5                                       | 8.9                              | .33  | .7                   | 6.8         | 1,998         | 235                        | 1,954                            | 1,153   | 1,000  | .89                               | 10.4 | 13.5            |    |
| 500 to 999 .....   | 6.7                                       | 20.6                             | .66  | 2.1                  | 6.2         | 1,824         | 200                        | 2,449                            | 817   | 751  | .91                               | 10.0 | 9.1             |    |
| Fewer than 500 .....   | .9  | 1.6                              | .04  | Q                    | Q           | Q             | Q                          | Q                                | Q   | Q  | 1.07                              | 9.7  | 23.1            |    |
| <b>Average Humidity for June, July and August 1990 (percent)</b> |   |                                  |  |                      |             |               |                            |                                  |   |  |                                   |      |                 |    |
| Less than 65 .....   | 5   | 1.6                              | .05  | Q                    | Q           | Q             | Q                          | Q                                | Q   | Q  | .99                               | 10.2 | 7.2             |    |
| 65 to Less than 70 .....   | 7.6                                       | 21.9                             | .71  | 2.2                  | 5.7         | 1,683         | 179                        | 2,295                            | 871   | 806  | .84                               | 8.9  | 7.7             |    |
| 70 or Higher .....   | 2.0                                       | 7.7                              | .27  | .7                   | 7.8         | 2,298         | 285                        | 2,560                            | 889   | 770  | 1.01                              | 12.5 | 22.3            |    |
| <b>Average Electricity Expenditures (cents per kWh)</b>          |   |                                  |  |                      |             |               |                            |                                  |   |  |                                   |      |                 |    |
| Less than 6 .....  | Q   | Q                                | Q  | Q                    | Q           | Q             | Q                          | Q                                | Q   | Q  | Q                                 | Q    | NF              |    |
| 6 to Less than 9 .....   | 1.7                                       | 5.5                              | .13  | .6                   | 5.3         | 1,557         | 127                        | 1,939                            | 843   | 840  | .95                               | 7.8  | 13.1            |    |
| 9 or More .....  | 8.3                                       | 25.1                             | .89  | 2.3                  | 6.5         | 1,908         | 227                        | 2,524                            | 878   | 776  | .86                               | 10.2 | 7.4             |    |
| <b>Number of Rooms Usually Air Conditioned</b>                   |   |                                  |  |                      |             |               |                            |                                  |   |  |                                   |      |                 |    |
| 1 to 3 .....   | 5.8                                       | 9.1                              | .31  | .3                   | 3.5         | 1,029         | 122                        | 784                              | 900   | 817  | 1.46                              | 17.3 | 16.3            |    |
| 4 to 6 .....   | 2.9                                       | 11.6                             | .36  | 1.5                  | 5.3         | 1,559         | 161                        | 1,983                            | 872   | 806  | .90                               | 9.3  | 7.6             |    |
| 7 or More .....  | 1.4                                       | 10.5                             | .36  | 1.2                  | 8.2         | 2,395         | 278                        | 3,286                            | 860   | 769  | .85                               | 9.8  | 11.4            |    |
| <b>Frequency of Use of Air Conditioning<sup>4</sup></b>          |   |                                  |  |                      |             |               |                            |                                  |   |  |                                   |      |                 |    |
| Only a Few Times .....   | 6.2                                       | 9.6                              | .32  | 1.2                  | 3.9         | 1,132         | 123                        | 2,449                            | 807   | 734  | .57                               | 6.2  | 7.9             |    |
| Quite a Bit .....  | 2.2                                       | 9.4                              | .31  | .9                   | 6.5         | 1,892         | 207                        | 2,107                            | 918   | 829  | .98                               | 10.7 | 8.4             |    |
| All Summer .....   | 1.6                                       | 11.7                             | .39  | 1.0                  | 9.0         | 2,634         | 297                        | 2,506                            | 904   | 833  | 1.16                              | 13.1 | 10.7            |    |
| Other .....  | Q   | Q                                | Q  | NC                   | NC          | NC            | NC                         | NC                               | NC  | NC   | NC                                | NC   | NF              |    |
| <b>Age of Air Conditioning Equipment<sup>5</sup></b>             |   |                                  |  |                      |             |               |                            |                                  |   |  |                                   |      |                 |    |
| Less than 5 Years .....  | 4.0                                       | 11.9                             | .38  | 1.1                  | 6.0         | 1,770         | 192                        | 2,576                            | 780   | 723  | .88                               | 9.5  | 9.7             |    |
| 5 to 9 Years .....   | 2.3                                       | 6.8                              | .23  | .6                   | 6.0         | 1,760         | 182                        | 2,349                            | 898   | 824  | .83                               | 8.6  | 9.9             |    |
| 10 or More Years .....   | 3.1                                       | 10.4                             | .35  | 1.0                  | 7.0         | 2,039         | 235                        | 2,339                            | 947   | 862  | .92                               | 10.6 | 12.6            |    |
| Don't Know .....   | .6  | 1.6                              | .05  | .2                   | 4.7         | 1,364         | 164                        | 1,537                            | 869   | 717  | 1.02                              | 12.3 | 18.4            |    |

See footnotes at end of table.

**AIR-CONDITIONING CONSUMPTION/EXPENDITURES**

**Table 19. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, Northeast Region Households, 1990 (Continued)**

| Characteristics                             | Electricity Used for All Air Conditioning |     | Electricity Used for Central Air Conditioning <sup>1</sup> |     |                            |       |                                     |       |     |     | RSE Row Factors |     |      |
|---|---|-----|--|-----|----------------------------|-------|-------------------------------------|-------|-----|-----|-----------------|-----|------|
|   |   |     | per Household  |     |                            |       |                                     |       |     |     |                 |     |      |
|   |   |     | Consumption  |     | Annual Cooling Degree-Days |       | Electric Air-Conditioning Intensity |       |     |     |                 |     |      |
| RSE Column Factors:                         | 0.9                                       | NF  | NF   | 1.8 | NF                         | NF    | NF                                  | 1.0   | 0.4 | 0.4 | NF              | NF  |      |
| <b>New England Division</b> .....           | 2.0                                       | 4.3 | 0.13   | 0.4 | 4.8                        | 1,418 | 144                                 | 2,590 | 777 | 637 | 0.70            | 7.1 | 9.1  |
| <b>Climate Zone<sup>2</sup></b>             |   |     |  |     |                            |       |                                     |       |     |     |                 |     |      |
| Under 2,000 CDD and Over 5,500 HDD .....    | 2.0                                       | 4.3 | .13  | .4  | 4.8                        | 1,418 | 144                                 | 2,590 | 777 | 637 | .70             | 7.1 | 9.1  |
| Under 5,500 HDD and 2,000 CDD or More ..... | NC  | NC  | NC   | NC  | NC                         | NC    | NC                                  | NC    | NC  | NC  | NC              | NC  | NC   |
| Under 4,000 HDD .....                       | NC  | NC  | NC   | NC  | NC                         | NC    | NC                                  | NC    | NC  | NC  | NC              | NC  | NC   |
| <b>Type of Housing Unit</b>                 |   |     |  |     |                            |       |                                     |       |     |     |                 |     |      |
| Single-Family .....                         | 1.1                                       | 2.9 | .09  | .3  | 5.4                        | 1,591 | 164                                 | 2,959 | 779 | 605 | .69             | 7.1 | 10.3 |
| Mobile Home .....                           | Q   | Q   | Q  | Q   | Q                          | Q     | Q                                   | Q     | Q   | Q   | Q               | Q   | NF   |
| Multifamily (2 or more units) ..            | .9  | 1.3 | .04  | .3  | 5.4                        | 1,591 | 164                                 | 2,959 | 779 | 605 | Q               | Q   | 12.8 |
| <b>Heated Floorspace (square feet)</b>      |   |     |  |     |                            |       |                                     |       |     |     |                 |     |      |
| Fewer than 1,000 .....                      | .6  | .8  | .02  | Q   | Q                          | Q     | Q                                   | Q     | Q   | Q   | Q               | Q   | 11.5 |
| 1,000 to 1,999 .....                        | .7  | 1.6 | .05  | 2   | 4.4                        | 1,292 | 131                                 | 1,958 | 791 | 652 | .83             | 8.5 | 14.9 |
| 2,000 or More .....                         | .7  | 1.9 | .06  | .2  | 5.5                        | 1,618 | 165                                 | 3,590 | 736 | 591 | .61             | 6.2 | 15.8 |
| <b>Ownership of Unit</b>                    |   |     |  |     |                            |       |                                     |       |     |     |                 |     |      |
| Owned .....                                 | 1.3                                       | 3.0 | .09  | .3  | 4.7                        | 1,378 | 141                                 | 2,690 | 766 | 622 | .67             | 6.9 | 10.9 |
| Rented .....                                | .7  | 1.3 | .04  | Q   | Q                          | Q     | Q                                   | Q     | Q   | Q   | Q               | Q   | 3.8  |
| <b>Year of Construction</b>                 |   |     |  |     |                            |       |                                     |       |     |     |                 |     |      |
| 1949 or Before .....                        | .8  | 1.2 | .03  | Q   | Q                          | Q     | Q                                   | Q     | Q   | Q   | Q               | Q   | 11.7 |
| 1950 to 1979 .....                          | 1.0                                       | 2.3 | .07  | .2  | 5.0                        | 1,466 | 156                                 | 2,866 | 774 | 614 | .66             | 7.0 | 14.7 |
| 1980 or After <sup>3</sup> .....            | .2  | .8  | .02  | .2  | 5.0                        | 1,468 | 142                                 | 2,595 | 782 | 652 | .73             | 7.0 | 14.6 |
| <b>1990 Family Income</b>                   |   |     |  |     |                            |       |                                     |       |     |     |                 |     |      |
| Less than \$10,000 .....                    | .3  | .3  | .01  | Q   | Q                          | Q     | Q                                   | Q     | Q   | Q   | Q               | Q   | 18.6 |
| \$10,000 to \$19,999 .....                  | .3  | .4  | .01  | Q   | Q                          | Q     | Q                                   | Q     | Q   | Q   | Q               | Q   | 14.6 |
| \$20,000 to \$34,999 .....                  | .5  | 1.0 | .03  | Q   | Q                          | Q     | Q                                   | Q     | Q   | Q   | Q               | Q   | 17.1 |
| \$35,000 or More .....                      | 1.0                                       | 2.5 | .07  | .3  | 5.1                        | 1,504 | 152                                 | 2,857 | 743 | 602 | .71             | 7.2 | 10.3 |
| <b>Below Poverty Line</b>                   |   |     |  |     |                            |       |                                     |       |     |     |                 |     |      |
| 100 Percent .....                           | .2  | .2  | .01  | NC  | NC                         | NC    | NC                                  | NC    | NC  | NC  | NC              | NC  | 12.7 |
| 125 Percent .....                           | .2  | .4  | .01  | NC  | NC                         | NC    | NC                                  | NC    | NC  | NC  | NC              | NC  | 21.0 |
| <b>Age of Householder</b>                   |   |     |  |     |                            |       |                                     |       |     |     |                 |     |      |
| Under 35 Years .....                        | .6  | 1.4 | .04  | .1  | 4.6                        | 1,362 | 138                                 | 1,753 | 851 | 728 | .91             | 9.3 | 10.6 |
| 35 to 59 Years .....                        | .7  | 1.7 | .05  | .1  | 5.8                        | 1,687 | 172                                 | 3,510 | 756 | 583 | .64             | 6.5 | 14.2 |
| 60 Years and Over .....                     | .7  | 1.1 | .03  | Q   | Q                          | Q     | Q                                   | Q     | Q   | Q   | Q               | Q   | 19.0 |
| <b>Household Size</b>                       |   |     |  |     |                            |       |                                     |       |     |     |                 |     |      |
| 1 Person .....                              | .5  | 1.0 | .03  | Q   | Q                          | Q     | Q                                   | Q     | Q   | Q   | Q               | Q   | 11.7 |
| 2 to 4 Persons .....                        | 1.4                                       | 3.1 | .09  | .2  | 5.2                        | 1,529 | 155                                 | 2,757 | 792 | 646 | .70             | 7.1 | 12.6 |
| 5 or More Persons .....                     | .1  | .3  | .01  | Q   | Q                          | Q     | Q                                   | Q     | Q   | Q   | Q               | Q   | 35.7 |

See footnotes at end of table.

**NORTHEAST**

AIR-CONDITIONING CONSUMPTION/EXPENDITURES

NORTHEAST

Table 19. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, Northeast Region Households, 1990 (Continued)

| Characteristics                             | Electricity Used for All Air Conditioning |                                  | Electricity Used for Central Air Conditioning <sup>1</sup> |                      |               |       |                                  |                            |                              |                                     |                                       |                 | RSE Row Factors |
|---|---|----------------------------------|--|----------------------|---------------|-------|----------------------------------|----------------------------|------------------------------|-------------------------------------|---------------------------------------|-----------------|-----------------|
|   | Households (million)                      | Total Consumption (trillion Btu) | Total Expenditures (billion dollars)                       | Households (million) | Consumption   |       | Cooled Floor-space (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity |                                       | RSE Row Factors |                 |
|   |   |                                  |  |                      | (million Btu) | (kWh) |                                  | 1990                       | 30-Year Average <sup>2</sup> | (kWh/1000 square feet)              | Expenditures (cents/1000 square feet) |                 |                 |
|   |   |                                  |  |                      |               |       |                                  |                            |                              |                                     |                                       |                 |                 |
| RSE Column Factors:                         |   |                                  |  |                      |               |       |                                  |                            |                              |                                     |                                       |                 |                 |
|   | 0.9                                       | NF                               | NF   | 1.8                  | NF            | NF    | 1.0                              | 0.4                        | 0.4                          | NF                                  | NF                                    |                 |                 |
| <b>Middle Atlantic Division</b> .....       | 8.1                                       | 26.9                             | 0.91   | 2.6                  | 6.5           | 1,891 | 212                              | 2,337                      | 883                          | 815                                 | 0.92                                  | 10.2            | 7.4             |
| <b>Climate Zone<sup>2</sup></b>             |   |                                  |  |                      |               |       |                                  |                            |                              |                                     |                                       |                 |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 3.5                                       | 10.6                             | .32  | 1.3                  | 5.6           | 1,644 | 168                              | 2,460                      | 719                          | 685                                 | .93                                   | 9.5             | 10.4            |
| Under 5,500 HDD .....                       | 4.6                                       | 16.3                             | .59  | 1.4                  | 7.2           | 2,124 | 253                              | 2,222                      | 1,038                        | 937                                 | .92                                   | 11.0            | 12.2            |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC  | NC                               | NC   | NC                   | NC            | NC    | NC                               | NC                         | NC                           | NC                                  | NC                                    | NC              | NC              |
| <b>Type of Housing Unit</b>                 |   |                                  |  |                      |               |       |                                  |                            |                              |                                     |                                       |                 |                 |
| Single-Family .....                         | 5.3                                       | 20.8                             | .69  | 2.2                  | 6.9           | 2,026 | 227                              | 2,669                      | 861                          | 792                                 | .88                                   | 9.9             | 9.4             |
| Mobile Home .....                           | Q   | Q                                | Q  | Q                    | Q             | Q     | Q                                | Q                          | Q                            | Q                                   | Q                                     | Q               | NF              |
| Multifamily (2 or more units) ..            | 2.6                                       | 5.5                              | .21  | Q                    | 4.0           | 1,170 | 143                              | 748                        | 1,010                        | 923                                 | 1.55                                  | 18.9            | 19.4            |
| <b>Heated Floorspace (square feet)</b>      |   |                                  |  |                      |               |       |                                  |                            |                              |                                     |                                       |                 |                 |
| Fewer than 1,000 .....                      | 1.9                                       | 4.1                              | .14  | .4                   | 4.0           | 1,184 | 141                              | 734                        | 1,002                        | 916                                 | 1.61                                  | 19.2            | 18.2            |
| 1,000 to 1,999 .....                        | 2.9                                       | 8.7                              | .28  | .9                   | 5.6           | 1,636 | 164                              | 1,799                      | 900                          | 838                                 | 1.01                                  | 10.2            | 9.7             |
| 2,000 or More .....                         | 3.3                                       | 14.1                             | .49  | 1.3                  | 7.9           | 2,327 | 271                              | 3,294                      | 830                          | 763                                 | .85                                   | 9.9             | 11.3            |
| <b>Ownership of Unit</b>                    |   |                                  |  |                      |               |       |                                  |                            |                              |                                     |                                       |                 |                 |
| Owned .....                                 | 6.1                                       | 22.5                             | .76  | 2.2                  | 7.0           | 2,043 | 228                              | 2,623                      | 864                          | 798                                 | .90                                   | 10.0            | 9.1             |
| Rented .....                                | 2.0                                       | 4.4                              | .15  | .5                   | 4.1           | 1,191 | 137                              | 1,015                      | 972                          | 895                                 | 1.21                                  | 13.9            | 18.8            |
| <b>Year of Construction</b>                 |   |                                  |  |                      |               |       |                                  |                            |                              |                                     |                                       |                 |                 |
| 1949 or Before .....                        | 2.9                                       | 7.1                              | .25  | .3                   | 6.6           | 1,924 | 196                              | 2,279                      | 739                          | 706                                 | 1.14                                  | 11.6            | 17.4            |
| 1950 to 1979 .....                          | 4.5                                       | 16.4                             | .56  | 1.7                  | 6.8           | 1,998 | 237                              | 2,416                      | 897                          | 814                                 | .92                                   | 10.9            | 10.0            |
| 1980 or After <sup>3</sup> .....            | .7  | 3.4                              | .10  | .6                   | 5.4           | 1,582 | 150                              | 2,153                      | 922                          | 877                                 | .80                                   | 7.6             | 13.8            |
| <b>1990 Family Income</b>                   |   |                                  |  |                      |               |       |                                  |                            |                              |                                     |                                       |                 |                 |
| Less than \$10,000 .....                    | .6  | 1.1                              | .03  | Q                    | Q             | Q     | Q                                | Q                          | Q                            | Q                                   | Q                                     | Q               | 23.9            |
| \$10,000 to \$19,999 .....                  | 1.2                                       | 2.4                              | .08  | Q                    | Q             | Q     | Q                                | Q                          | Q                            | Q                                   | Q                                     | Q               | 22.3            |
| \$20,000 to \$34,999 .....                  | 1.7                                       | 4.6                              | .14  | .6                   | 5.0           | 1,468 | 137                              | 1,880                      | 899                          | 835                                 | .87                                   | 8.1             | 12.9            |
| \$35,000 or More .....                      | 4.6                                       | 18.7                             | .65  | 1.8                  | 7.4           | 2,155 | 251                              | 2,611                      | 902                          | 822                                 | .91                                   | 10.7            | 8.8             |
| <b>Below Poverty Line</b>                   |   |                                  |  |                      |               |       |                                  |                            |                              |                                     |                                       |                 |                 |
| 100 Percent .....                           | .4  | .6                               | .02  | Q                    | Q             | Q     | Q                                | Q                          | Q                            | Q                                   | Q                                     | Q               | 20.0            |
| 125 Percent .....                           | .6  | 1.2                              | .04  | Q                    | Q             | Q     | Q                                | Q                          | Q                            | Q                                   | Q                                     | Q               | 23.9            |
| <b>Age of Householder</b>                   |   |                                  |  |                      |               |       |                                  |                            |                              |                                     |                                       |                 |                 |
| Under 35 Years .....                        | 2.1                                       | 6.5                              | .22  | .6                   | 7.4           | 2,166 | 246                              | 2,276                      | 939                          | 877                                 | 1.01                                  | 11.5            | 17.3            |
| 35 to 59 Years .....                        | 3.7                                       | 14.8                             | .50  | 1.4                  | 6.7           | 1,963 | 217                              | 2,335                      | 901                          | 827                                 | .93                                   | 10.3            | 7.0             |
| 60 Years and Over .....                     | 2.3                                       | 5.5                              | .18  | .6                   | 5.1           | 1,496 | 170                              | 2,394                      | 797                          | 736                                 | .79                                   | 8.9             | 10.5            |

See footnotes at end of table.

**Table 19. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, Northeast Region Households, 1990 (Continued)**

| Characteristics         | Electricity Used for All Air Conditioning |                                  |                                      | Electricity Used for Central Air Conditioning <sup>1</sup> |               |       |                        |                                  |                            |                              |  |   | RSE Row Factors |
|-------------------------|---|----------------------------------|--------------------------------------|--|---------------|-------|------------------------|----------------------------------|----------------------------|------------------------------|--|---|-----------------|
|                         | Households (million)                      | Total Consumption (trillion Btu) | Total Expenditures (billion dollars) | Households (million)                                       | Consumption   |       |                        |                                  | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity    |   |                 |
|                         |   |                                  |                                      |  | (million Btu) | (kWh) | Expenditures (dollars) | Cooled Floor-space (square feet) | 1990                       | 30-Year Average <sup>2</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) |                 |
|                         |   |                                  |                                      |  |               |       |                        |                                  |                            |                              |  |   |                 |
| RSE Column Factors:     | 0.9                                       | NF                               | NF                                   | 1.8  | NF            | NF    | NF                     | 1.0                              | 0.4                        | 0.4                          | NF                                     | NF  |                 |
| <b>Household Size</b>   |   |                                  |                                      |  |               |       |                        |                                  |                            |                              |  |   |                 |
| 1 Person .....          | 1.9                                       | 4.1                              | 0.14                                 | 0.5  | 3.5           | 1,014 | 108                    | 1,317                            | 858                        | 808                          | 0.90                                   | 9.6                                       | 15.2            |
| 2 to 4 Persons .....    | 5.3                                       | 18.7                             | .63                                  | 1.9  | 6.8           | 1,996 | 221                    | 2,490                            | 893                        | 819                          | .90                                    | 9.9                                       | 6.6             |
| 5 or More Persons ..... | .9  | 4.1                              | .14                                  | .3   | 9.7           | 2,838 | 343                    | 3,217                            | 863                        | 803                          | 1.02                                   | 12.4                                      | 20.3            |

<sup>1</sup> An estimated 2.0 million households have a central air conditioner and one or more room air conditioners. These households are included only under central air conditioners and not included under room air conditioners.

<sup>2</sup> The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>3</sup> Does not include all new construction for 1990.

<sup>4</sup> If a household has both a central and room air conditioner then the usage and age of the equipment is presented only for the central unit.

NC = No cases in sample.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • This table reflects only those households that used their air conditioning equipment. See Appendix B, "Quality of the Data," in *Household Energy Consumption and Expenditures 1990* for a discussion of households that had air-conditioning equipment but did not use it. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 20. Electricity Consumption and Expenditures for Room Air Conditioning, per Northeast Region Household, 1990**

| Characteristics                             | House holds (million) | Consumption   |       | Expenditures (dollars) | Cooled Floorspace (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity    |   | RSE Row Factors |
|---|-----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|--|---|-----------------|
|   |                       | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) |                 |
|   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| RSE Column Factors:                         | 1.2                   | NF            | NF    | NF                     | 1.0                             | 0.4                        | 0.4                          | NF                                     | NF  |                 |
| <b>Northeast Region</b>                     |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| <b>Total Region</b> .....                   | 7.1                   | 1.7           | 497   | 58                     | 903                             | 849                        | 742                          | 0.65                                   | 7.6                                       | 5.8             |
| <b>Climate Zone<sup>1</sup></b>             |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 3.9                   | 1.5           | 444   | 45                     | 976                             | 674                        | 575                          | .67                                    | 6.8                                       | 6.3             |
| Under 5,500 HDD .....                       | 3.2                   | 1.9           | 564   | 74                     | 814                             | 1,065                      | 948                          | .65                                    | 8.6                                       | 9.0             |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                    | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                     | NC  | NC              |
| <b>Type of Housing Unit</b>                 |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Single-Family .....                         | 4.0                   | 1.8           | 519   | 58                     | 1,088                           | 838                        | 723                          | .57                                    | 6.4                                       | 5.4             |
| Mobile Home .....                           | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| Multifamily (2 or more units) ..            | 3.0                   | 1.6           | 477   | 59                     | 677                             | 885                        | 779                          | .80                                    | 9.9                                       | 11.7            |
| <b>Heated Floorspace (square feet)</b>      |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Fewer than 1,000 .....                      | 2.1                   | 1.5           | 429   | 49                     | 431                             | 854                        | 758                          | 1.17                                   | 13.3                                      | 8.3             |
| 1,000 to 1,999 .....                        | 2.4                   | 1.6           | 472   | 54                     | 743                             | 866                        | 749                          | .73                                    | 8.5                                       | 5.1             |
| 2,000 or More .....                         | 2.6                   | 2.0           | 576   | 69                     | 1,432                           | 830                        | 721                          | .49                                    | 5.8                                       | 8.4             |
| <b>Ownership of Unit</b>                    |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Owned .....                                 | 5.0                   | 1.7           | 511   | 61                     | 1,091                           | 854                        | 748                          | .55                                    | 6.5                                       | 6.5             |
| Rented .....                                | 2.1                   | 1.6           | 465   | 52                     | 462                             | 839                        | 728                          | 1.20                                   | 13.4                                      | 7.9             |
| <b>Year of Construction</b>                 |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1949 or Before .....                        | 3.4                   | 1.8           | 524   | 65                     | 898                             | 876                        | 761                          | .67                                    | 8.2                                       | 8.2             |
| 1950 to 1979 .....                          | 3.6                   | 1.6           | 480   | 53                     | 897                             | 831                        | 729                          | .64                                    | 7.1                                       | 6.6             |
| 1980 or After <sup>2</sup> .....            | .2                    | 1.1           | 314   | 28                     | 1,175                           | 683                        | 621                          | .39                                    | 3.5                                       | 26.4            |
| <b>1990 Family Income</b>                   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Less than \$10,000 .....                    | .8                    | 1.5           | 444   | 47                     | 478                             | 846                        | 751                          | 1.10                                   | 11.7                                      | 12.5            |
| \$10,000 to \$19,999 .....                  | 1.2                   | 1.6           | 460   | 52                     | 717                             | 810                        | 727                          | .79                                    | 9.0                                       | 9.6             |
| \$20,000 to \$34,999 .....                  | 1.6                   | 1.6           | 457   | 53                     | 861                             | 851                        | 725                          | .62                                    | 7.2                                       | 8.3             |
| \$35,000 or More .....                      | 3.5                   | 1.8           | 541   | 65                     | 1,081                           | 863                        | 752                          | .58                                    | 6.9                                       | 7.7             |
| <b>Below Poverty Line</b>                   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 100 Percent .....                           | .6                    | 1.2           | 360   | 44                     | 471                             | 856                        | 760                          | .89                                    | 10.8                                      | 15.2            |
| 125 Percent .....                           | .8                    | 1.6           | 469   | 52                     | 507                             | 840                        | 739                          | 1.10                                   | 12.2                                      | 11.4            |
| <b>Age of Householder</b>                   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 35 Years .....                        | 2.0                   | 1.6           | 458   | 54                     | 646                             | 865                        | 757                          | .82                                    | 9.7                                       | 6.3             |
| 35 to 59 Years .....                        | 2.8                   | 2.1           | 610   | 74                     | 928                             | 863                        | 749                          | .76                                    | 9.2                                       | 6.9             |
| 60 Years and Over .....                     | 2.3                   | 1.4           | 396   | 42                     | 1,105                           | 817                        | 719                          | .44                                    | 4.7                                       | 8.0             |
| <b>Household Size</b>                       |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1 Person .....                              | 1.8                   | 1.6           | 460   | 52                     | 694                             | 875                        | 789                          | .76                                    | 8.6                                       | 10.6            |
| 2 to 4 Persons .....                        | 4.5                   | 1.6           | 481   | 57                     | 971                             | 824                        | 709                          | .60                                    | 7.1                                       | 6.0             |
| 5 or More Persons .....                     | .7                    | 2.4           | 692   | 79                     | 1,001                           | 941                        | 825                          | .73                                    | 8.4                                       | 11.5            |
| <b>Cooling Degree-Days (CDD)-1990</b>       |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 2,000 or More .....                         | NC                    | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                     | NC  | NC              |
| 1,000 to 1,999 .....                        | 1.7                   | 2.3           | 680   | 93                     | 864                             | 1,198                      | 1,041                        | .66                                    | 8.9                                       | 11.4            |
| 500 to 999 .....                            | 4.6                   | 1.6           | 459   | 50                     | 917                             | 787                        | 680                          | .64                                    | 6.9                                       | 4.4             |
| Fewer than 500 .....                        | .8                    | 1.1           | 311   | 29                     | 911                             | 432                        | 431                          | .79                                    | 7.4                                       | 15.3            |

See footnotes at end of table.

**Table 20. Electricity Consumption and Expenditures for Room Air Conditioning, per Northeast Region Household, 1990 (Continued)**

| Characteristics  | Households (million) | Consumption   |       | Expenditures (dollars) | Cooled Floorspace (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity    |   | RSE Row Factors |
|--|----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|--|---|-----------------|
|  |                      | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) |                 |
| RSE Column Factors:  | 1.2                  | NF            | NF    | NF                     | 1.0                             | 0.4                        | 0.4                          | NF                                     | NF  |                 |
| Northeast Region   |                      |               |       |                        |                                 |                            |                              |  |   |                 |
| <b>Average Humidity for June, July and August 1990 (percent)</b> |                      |               |       |                        |                                 |                            |                              |  |   |                 |
| Less than 65 .....   | 0.4                  | 1.7           | 500   | 52                     | 646                             | 949                        | 781                          | 0.81                                   | 8.5                                       | 16.1            |
| 65 to Less than 70 .....   | 5.4                  | 1.7           | 490   | 57                     | 884                             | 853                        | 761                          | .65                                    | 7.6                                       | 8.5             |
| 70 or Higher .....   | 1.3                  | 1.8           | 529   | 63                     | 1,066                           | 802                        | 650                          | .62                                    | 7.3                                       | 9.9             |
| <b>Average Electricity Expenditures (cents per kWh)</b>          |                      |               |       |                        |                                 |                            |                              |  |   |                 |
| Less than 6 .....  | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| 6 to Less than 9 .....   | 1.1                  | 2.0           | 591   | 47                     | 1,176                           | 742                        | 701                          | .68                                    | 5.4                                       | 9.3             |
| 9 or More .....  | 5.9                  | 1.6           | 483   | 61                     | 859                             | 874                        | 751                          | .64                                    | 8.1                                       | 6.7             |
| <b>Number of Rooms Usually Air Conditioned</b>                   |                      |               |       |                        |                                 |                            |                              |  |   |                 |
| 1 Room .....   | 2.5                  | 1.2           | 339   | 40                     | 359                             | 822                        | 710                          | 1.15                                   | 13.7                                      | 6.1             |
| 2 Rooms .....  | 1.8                  | 1.4           | 420   | 48                     | 673                             | 847                        | 749                          | .74                                    | 8.4                                       | 8.3             |
| 3 or More .....  | 2.9                  | 2.3           | 682   | 80                     | 1,514                           | 874                        | 764                          | .52                                    | 6.0                                       | 7.3             |
| <b>Frequency of Use of Air Conditioning</b>                      |                      |               |       |                        |                                 |                            |                              |  |   |                 |
| Only a Few Times .....   | 5.1                  | 1.0           | 296   | 35                     | 877                             | 833                        | 731                          | .40                                    | 4.8                                       | 5.3             |
| Quite a Bit .....  | 1.4                  | 2.8           | 823   | 95                     | 1,036                           | 879                        | 758                          | .90                                    | 10.4                                      | 8.0             |
| All Summer .....   | .7                   | 4.6           | 1,360 | 157                    | 842                             | 905                        | 779                          | 1.78                                   | 20.6                                      | 11.7            |
| Other .....  | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| <b>Age of Air Conditioning Equipment</b>                         |                      |               |       |                        |                                 |                            |                              |  |   |                 |
| Less than 5 Years .....  | 2.9                  | 1.7           | 507   | 58                     | 893                             | 842                        | 728                          | .67                                    | 7.7                                       | 7.7             |
| 5 to 9 Years .....   | 1.7                  | 1.8           | 529   | 66                     | 896                             | 878                        | 762                          | .67                                    | 8.4                                       | 11.4            |
| 10 or More Years .....   | 2.0                  | 1.6           | 473   | 54                     | 996                             | 855                        | 754                          | .55                                    | 6.4                                       | 8.9             |
| Don't Know .....   | .4                   | 1.5           | 425   | 47                     | 569                             | 756                        | 698                          | .99                                    | 11.0                                      | 12.4            |
| <b>Size of Most-Used Room Air Conditioner</b>                    |                      |               |       |                        |                                 |                            |                              |  |   |                 |
| Small .....  | 2.8                  | 1.5           | 427   | 48                     | 646                             | 831                        | 713                          | .80                                    | 8.9                                       | 7.0             |
| Medium .....   | 3.0                  | 1.6           | 483   | 58                     | 960                             | 862                        | 755                          | .58                                    | 7.0                                       | 7.3             |
| Large .....  | 1.2                  | 2.4           | 716   | 85                     | 1,408                           | 887                        | 795                          | .57                                    | 6.8                                       | 11.6            |
| Don't Know .....   | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| <b>Number of Room Air Conditioners</b>                           |                      |               |       |                        |                                 |                            |                              |  |   |                 |
| 1 .....  | 3.9                  | 1.3           | 373   | 42                     | 628                             | 804                        | 705                          | .74                                    | 8.3                                       | 6.2             |
| 2 .....  | 1.9                  | 1.9           | 560   | 67                     | 986                             | 907                        | 794                          | .63                                    | 7.5                                       | 9.1             |
| 3 or More .....  | 1.3                  | 2.7           | 778   | 92                     | 1,605                           | 899                        | 774                          | .54                                    | 6.4                                       | 9.9             |

See footnotes at end of table.

**AIR-CONDITIONING CONSUMPTION/EXPENDITURES**

**NORTHEAST**

**Table 20. Electricity Consumption and Expenditures for Room Air Conditioning, per Northeast Region Household, 1990 (Continued)**

| Characteristics   | House holds (mil- lion) | Consumption   |       | Expenditures (dollars) | Cooled Floorspace (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity     |  | RSE Row Factors |
|---|-------------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|---|--|-----------------|
|   |                         | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/ CDD*1000 square feet) | Expenditures (cents/ CDD*1000 square feet) |                 |
|   |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| RSE Column Factors:   |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| New England Division .....                                      | 1.7                     | 1.5           | 438   | 44                     | 955                             | 658                        | 497                          | 0.70                                    | 7.0  | 7.5             |
| <b>Climate Zone<sup>1</sup></b>                                 |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 2,000 CDD and Over 5,500 HDD .....                        | 1.7                     | 1.5           | 438   | 44                     | 955                             | 658                        | 497                          | .70                                     | 7.0  | 7.5             |
| Under 5,500 HDD and 2,000 CDD or More and Under 4,000 HDD ..... | NC                      | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                      | NC   | NC              |
| <b>Type of Housing Unit</b>                                     |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| Single-Family .....   | .9                      | 1.7           | 488   | 48                     | 1,349                           | 650                        | 470                          | .56                                     | 5.5  | 9.0             |
| Mobile Home .....   | Q                       | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| Multifamily (2 or more units) ..                                | .8                      | 1.3           | 371   | 39                     | 521                             | 672                        | 534                          | 1.06                                    | 11.1                                       | 9.5             |
| <b>Heated Floorspace (square feet)</b>                          |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| Fewer than 1,000 .....  | .6                      | 1.2           | 352   | 37                     | 433                             | 692                        | 546                          | 1.17                                    | 12.4                                       | 9.8             |
| 1,000 to 1,999 .....  | .5                      | 1.5           | 450   | 45                     | 748                             | 656                        | 487                          | .92                                     | 9.1  | 8.7             |
| 2,000 or More .....   | .5                      | 1.8           | 516   | 51                     | 1,708                           | 624                        | 455                          | .48                                     | 4.8  | 11.2            |
| <b>Ownership of Unit</b>  |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| Owned .....   | 1.0                     | 1.5           | 432   | 43                     | 1,218                           | 638                        | 476                          | .56                                     | 5.6  | 10.1            |
| Rented .....  | .6                      | 1.5           | 446   | 46                     | 532                             | 690                        | 530                          | 1.22                                    | 12.5                                       | 9.4             |
| <b>Year of Construction</b>                                     |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| 1949 or Before .....  | .8                      | 1.4           | 417   | 41                     | 779                             | 656                        | 500                          | .81                                     | 8.0  | 9.6             |
| 1950 to 1979 .....  | .8                      | 1.6           | 463   | 48                     | 1,097                           | 670                        | 507                          | .63                                     | 6.5  | 11.4            |
| 1980 or After <sup>2</sup> .....                                | Q                       | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| <b>1990 Family Income</b>                                       |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| Less than \$10,000 .....  | .2                      | 1.3           | 388   | 41                     | 599                             | 697                        | 550                          | .93                                     | 9.9  | 15.4            |
| \$10,000 to \$19,999 .....                                      | .3                      | 1.4           | 414   | 41                     | 813                             | 633                        | 445                          | .80                                     | 7.9  | 20.4            |
| \$20,000 to \$34,999 .....                                      | .4                      | 1.5           | 444   | 46                     | 728                             | 654                        | 493                          | .93                                     | 9.7  | 12.9            |
| \$35,000 or More .....  | .7                      | 1.6           | 460   | 45                     | 1,262                           | 656                        | 500                          | .56                                     | 5.5  | 10.9            |
| <b>Below Poverty Line</b>                                       |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| 100 Percent .....   | .2                      | 1.3           | 368   | 40                     | 518                             | 740                        | 587                          | .96                                     | 10.5                                       | 16.5            |
| 125 Percent .....   | .2                      | 1.5           | 443   | 45                     | 534                             | 685                        | 506                          | 1.25                                    | 12.8                                       | 14.7            |
| <b>Age of Householder</b>                                       |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 35 Years .....  | .5                      | 1.6           | 469   | 48                     | 640                             | 662                        | 517                          | 1.11                                    | 11.4                                       | 11.6            |
| 35 to 59 Years .....  | .6                      | 1.5           | 439   | 44                     | 744                             | 676                        | 504                          | .87                                     | 8.8  | 8.1             |
| 60 Years and Over .....   | .6                      | 1.4           | 410   | 41                     | 1,424                           | 636                        | 473                          | .45                                     | 4.5  | 13.2            |
| <b>Household Size</b>   |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| 1 Person .....  | .4                      | 1.2           | 364   | 37                     | 684                             | 669                        | 520                          | .80                                     | 8.1  | 11.3            |
| 2 to 4 Persons .....  | 1.1                     | 1.6           | 463   | 47                     | 1,068                           | 654                        | 488                          | .66                                     | 6.7  | 10.6            |
| 5 or More Persons .....   | Q                       | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |

See footnotes at end of table.

**Table 20. Electricity Consumption and Expenditures for Room Air Conditioning, per Northeast Region Household, 1990 (Continued)**

| Characteristics  | Consumption           |               |       | Expenditures (dollars) | Cooled Floorspace (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity    |   | RSE Flow Factors |
|--|-----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|--|---|------------------|
|  | House holds (million) | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) |                  |
| RSE Column Factors:                                    | 1.2                   | NF            | NF    | NF                     | 1.0                             | 0.4                        | 0.4                          | NF                                     | NF  |                  |
| Middle Atlantic Division                               | 5.4                   | 1.8           | 516   | 62                     | 888                             | 908                        | 816                          | 0.64                                   | 7.7                                       | 6.3              |
| <b>Climate Zone<sup>1</sup></b>                        |                       |               |       |                        |                                 |                            |                              |  |   |                  |
| Under 2,000 CDD and Over 5,500 HDD                     | 2.3                   | 1.5           | 448   | 45                     | 991                             | 687                        | 632                          | .66                                    | 6.7                                       | 9.0              |
| Under 5,500 HDD, 2,000 CDD or More and Under 4,000 HDD | 3.2                   | 1.9           | 564   | 74                     | 814                             | 1,065                      | 948                          | .65                                    | 8.6                                       | 9.0              |
| NC   | NC                    | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                     | NC  | NC               |
| <b>Type of Housing Unit</b>                            |                       |               |       |                        |                                 |                            |                              |  |   |                  |
| Single-Family  | 3.1                   | 1.8           | 527   | 61                     | 1,015                           | 891                        | 794                          | .58                                    | 6.8                                       | 6.1              |
| Mobile Home  | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF               |
| Multifamily (2 or more units)                          | 2.2                   | 1.8           | 514   | 66                     | 731                             | 957                        | 862                          | .73                                    | 9.5                                       | 13.2             |
| <b>Heated Floorspace (square feet)</b>                 |                       |               |       |                        |                                 |                            |                              |  |   |                  |
| Fewer than 1,000                                       | 1.5                   | 1.6           | 459   | 53                     | 431                             | 916                        | 839                          | 1.16                                   | 13.5                                      | 10.1             |
| 1,000 to 1,999   | 1.9                   | 1.6           | 478   | 57                     | 741                             | 926                        | 825                          | .70                                    | 8.3                                       | 6.2              |
| 2,000 or More  | 2.1                   | 2.0           | 592   | 73                     | 1,358                           | 884                        | 792                          | .49                                    | 6.1                                       | 9.2              |
| <b>Ownership of Unit</b>                               |                       |               |       |                        |                                 |                            |                              |  |   |                  |
| Owned  | 4.0                   | 1.8           | 532   | 65                     | 1,059                           | 909                        | 818                          | .55                                    | 6.8                                       | 7.2              |
| Rented   | 1.5                   | 1.6           | 473   | 55                     | 432                             | 903                        | 812                          | 1.21                                   | 14.1                                      | 10.2             |
| <b>Year of Construction</b>                            |                       |               |       |                        |                                 |                            |                              |  |   |                  |
| 1949 or Before   | 2.6                   | 1.9           | 556   | 72                     | 933                             | 941                        | 839                          | .63                                    | 8.2                                       | 9.4              |
| 1950 to 1979   | 2.7                   | 1.7           | 486   | 54                     | 835                             | 881                        | 797                          | .66                                    | 7.4                                       | 7.2              |
| 1980 or After <sup>2</sup>                             | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF               |
| <b>1990 Family Income</b>                              |                       |               |       |                        |                                 |                            |                              |  |   |                  |
| Less than \$10,000                                     | .5                    | 1.6           | 470   | 50                     | 420                             | 917                        | 848                          | 1.22                                   | 13.1                                      | 16.6             |
| \$10,000 to \$19,999                                   | 1.0                   | 1.6           | 472   | 55                     | 691                             | 857                        | 802                          | .80                                    | 9.3                                       | 10.6             |
| \$20,000 to \$34,999                                   | 1.2                   | 1.6           | 461   | 55                     | 910                             | 923                        | 809                          | .55                                    | 6.6                                       | 10.2             |
| \$35,000 or More                                       | 2.8                   | 1.9           | 562   | 70                     | 1,034                           | 917                        | 818                          | .59                                    | 7.4                                       | 8.3              |
| <b>Below Poverty Line</b>                              |                       |               |       |                        |                                 |                            |                              |  |   |                  |
| 100 Percent  | .4                    | 1.2           | 357   | 45                     | 454                             | 898                        | 823                          | Q                                      | 11.0                                      | 19.7             |
| 125 Percent  | .6                    | 1.6           | 479   | 55                     | 496                             | 911                        | 833                          | 1.06                                   | 12.1                                      | 14.1             |
| <b>Age of Householder</b>                              |                       |               |       |                        |                                 |                            |                              |  |   |                  |
| Under 35 Years   | 1.6                   | 1.5           | 454   | 56                     | 648                             | 929                        | 832                          | .76                                    | 9.3                                       | 7.3              |
| 35 to 59 Years   | 2.2                   | 2.2           | 655   | 81                     | 977                             | 913                        | 813                          | .73                                    | 9.1                                       | 7.3              |
| 60 Years and Over                                      | 1.7                   | 1.3           | 391   | 43                     | 993                             | 881                        | 806                          | .45                                    | 4.9                                       | 9.3              |
| <b>Household Size</b>                                  |                       |               |       |                        |                                 |                            |                              |  |   |                  |
| 1 Person   | 1.4                   | 1.7           | 491   | 57                     | 698                             | 941                        | 876                          | .75                                    | 8.8                                       | 13.2             |
| 2 to 4 Persons   | 3.4                   | 1.7           | 487   | 60                     | 940                             | 880                        | 782                          | .59                                    | 7.3                                       | 6.7              |
| 5 or More Persons                                      | .7                    | 2.5           | 721   | 83                     | 1,018                           | 983                        | 872                          | .72                                    | 8.3                                       | 12.0             |

<sup>1</sup> The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No Applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • This table reflects only those households that used their air conditioning equipment. See Appendix B, "Quality of the Data," in *Household Energy Consumption and Expenditures 1990* for a discussion of households that had air-conditioning equipment but did not use it. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**NORTHEAST**

**AIR-CONDITIONING CONSUMPTION/EXPENDITURES**



WATER-HEATING CONSUMPTION/EXPENDITURES

NORTHEAST

Table 21. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in Northeast Region Households, 1990

| Characteristics                             | Electricity          |                |               |                                | Natural Gas          |                |                      |                                      | RSE Row Factors |
|---|----------------------|----------------|---------------|--------------------------------|----------------------|----------------|----------------------|--------------------------------------|-----------------|
|   | Households (million) | Total Consumed |               | Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                 |
|   |                      | (trillion Btu) | (billion kWh) |                                |                      | (trillion Btu) | (billion cubic feet) |                                      |                 |
|   |                      |                |               |                                |                      |                |                      |                                      |                 |
| RSE Column Factors:                         | 1.1                  | NF             | NF            | 0.8                            | NF                   | NF             | NF                   | NF                                   |                 |
| Northeast Region                            |                      |                |               |                                |                      |                |                      |                                      |                 |
| Total Region .....                          | 4.6                  | 45.9           | 13.5          | 1.24                           | 9.6                  | 239.8          | 232                  | 1.73                                 | 9.6             |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                |                      |                |                      |                                      |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 3.9                  | 38.7           | 11.3          | 1.04                           | 5.6                  | 143.6          | 139                  | .98                                  | 14.4            |
| Under 5,500 HDD and 2,000 CDD or More ..... | .7                   | 7.2            | 2.1           | .21                            | 4.0                  | 96.2           | 93                   | .74                                  | 19.0            |
| Under 4,000 HDD .....                       | NC                   | NC             | NC            | NC                             | NC                   | NC             | NC                   | NC                                   | NC              |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                |                      |                |                      |                                      |                 |
| Single-Family .....                         | 3.2                  | 34.2           | 10.0          | .93                            | 5.7                  | 145.5          | 141                  | 1.00                                 | 11.7            |
| Mobile Home .....                           | .5                   | 4.5            | 1.3           | .11                            | NC                   | NC             | NC                   | NC                                   | 35.5            |
| Multifamily (2 or more units) ..            | .9                   | 7.2            | 2.1           | .20                            | 3.9                  | 94.3           | 91                   | .72                                  | 13.2            |
| <b>Heated Floorspace (square feet)</b>      |                      |                |               |                                |                      |                |                      |                                      |                 |
| Fewer than 1,000 .....                      | 1.2                  | 9.9            | 2.9           | .28                            | 2.4                  | 54.0           | 52                   | .41                                  | 14.2            |
| 1,000 to 1,999 .....                        | 1.8                  | 18.5           | 5.4           | .49                            | 3.7                  | 93.0           | 90                   | .67                                  | 10.6            |
| 2,000 or More .....                         | 1.6                  | 17.5           | 5.1           | .48                            | 3.4                  | 92.8           | 90                   | .65                                  | 15.3            |
| <b>Ownership of Unit</b>                    |                      |                |               |                                |                      |                |                      |                                      |                 |
| Owned .....                                 | 3.4                  | 35.5           | 10.4          | .94                            | 6.2                  | 161.9          | 157                  | 1.14                                 | 11.8            |
| Rented .....                                | 1.2                  | 10.5           | 3.1           | .30                            | 3.3                  | 77.9           | 75                   | .59                                  | 11.8            |
| <b>Year of Construction</b>                 |                      |                |               |                                |                      |                |                      |                                      |                 |
| 1949 or Before .....                        | 1.3                  | 14.1           | 4.1           | .39                            | 5.3                  | 130.7          | 126                  | .97                                  | 12.5            |
| 1950 to 1979 .....                          | 2.1                  | 20.3           | 6.0           | .55                            | 4.1                  | 102.7          | 99                   | .71                                  | 14.8            |
| 1980 or After <sup>2</sup> .....            | 1.1                  | 11.5           | 3.4           | .30                            | .3                   | 6.4            | 6                    | .05                                  | 27.5            |
| <b>1990 Family Income</b>                   |                      |                |               |                                |                      |                |                      |                                      |                 |
| Less than \$10,000 .....                    | .5                   | 2.8            | .8            | .08                            | 1.5                  | 31.6           | 30                   | .23                                  | 18.2            |
| \$10,000 to \$19,999 .....                  | .8                   | 6.4            | 1.9           | .16                            | 1.9                  | 40.8           | 40                   | .30                                  | 19.3            |
| \$20,000 to \$34,999 .....                  | 1.5                  | 15.2           | 4.5           | .41                            | 1.9                  | 46.1           | 45                   | .34                                  | 13.7            |
| \$35,000 or More .....                      | 1.9                  | 21.5           | 6.3           | .59                            | 4.3                  | 121.3          | 117                  | .86                                  | 11.7            |
| <b>Below Poverty Line</b>                   |                      |                |               |                                |                      |                |                      |                                      |                 |
| 100 Percent .....                           | .3                   | 2.7            | .8            | .08                            | 1.3                  | 33.0           | 32                   | .24                                  | 20.0            |
| 125 Percent .....                           | .5                   | 5.0            | 1.5           | .14                            | 1.6                  | 39.9           | 39                   | .29                                  | 19.7            |
| <b>Age of Householder</b>                   |                      |                |               |                                |                      |                |                      |                                      |                 |
| Under 35 Years .....                        | 1.3                  | 14.4           | 4.2           | .41                            | 2.7                  | 74.6           | 72                   | .54                                  | 12.5            |
| 35 to 59 Years .....                        | 2.1                  | 23.2           | 6.8           | .62                            | 4.1                  | 111.1          | 107                  | .79                                  | 13.3            |
| 60 Years and Over .....                     | 1.2                  | 8.3            | 2.4           | .22                            | 2.8                  | 54.1           | 52                   | .40                                  | 10.7            |
| <b>Household Size</b>                       |                      |                |               |                                |                      |                |                      |                                      |                 |
| 1 Person .....                              | 1.2                  | 6.9            | 2.0           | .18                            | 2.1                  | 28.9           | 28                   | .21                                  | 15.7            |
| 2 to 4 Persons .....                        | 2.9                  | 31.0           | 9.1           | .85                            | 6.4                  | 172.6          | 167                  | 1.23                                 | 9.5             |
| 5 or More Persons .....                     | .5                   | 8.0            | 2.3           | .21                            | 1.1                  | 38.3           | 37                   | .28                                  | 19.7            |

See footnotes at end of table.

**WATER-HEATING CONSUMPTION/EXPENDITURES**

**Table 21. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in Northeast Region Households, 1990 (Continued)**

| Characteristics                        | Electricity          |                |               |                                      | Natural Gas          |                |                      |                                      | RSE Row Factors |
|--|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|-----------------|
|  | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                 |
|  |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |                 |
| RSE Column Factors:                    | 1.1                  | NF             | NF            | NF                                   | 0.8                  | NF             | NF                   | NF                                   |                 |
| <b>New England Division</b>            | 1.4                  | 13.2           | 3.9           | 0.38                                 | 1.7                  | 46.8           | 45                   | 0.36                                 | 12.2            |
| <b>Climate Zone<sup>1</sup></b>        |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 2,000 CDD and Over 5,500 HDD     | 1.4                  | 13.1           | 3.8           | .37                                  | 1.7                  | 46.8           | 45                   | .36                                  | 12.2            |
| Under 5,500 HDD                        | Q                    | Q              | Q             | Q                                    | NC                   | NC             | NC                   | NC                                   | NF              |
| 2,000 CDD or More and Under 4,000 HDD  | NC                   | NC             | NC            | NC                                   | NC                   | NC             | NC                   | NC                                   | NC              |
| <b>Type of Housing Unit</b>            |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Single-Family                          | 1.0                  | 9.5            | 2.8           | .27                                  | .6                   | 16.5           | 16                   | .13                                  | 16.5            |
| Mobile Home                            | .1                   | 1.2            | .3            | .04                                  | NC                   | NC             | NC                   | NC                                   | 9.3             |
| Multifamily (2 or more units)          | .4                   | 2.5            | .7            | .07                                  | 1.1                  | 30.3           | 29                   | .23                                  | 16.2            |
| <b>Heated Floorspace (square feet)</b> |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Fewer than 1,000                       | .4                   | 2.8            | .8            | .08                                  | .7                   | 17.9           | 17                   | .14                                  | 16.8            |
| 1,000 to 1,999                         | .6                   | 5.8            | 1.7           | .16                                  | .6                   | 17.4           | 17                   | .14                                  | 19.5            |
| 2,000 or More                          | .5                   | 4.6            | 1.4           | .13                                  | .4                   | 11.5           | 11                   | .09                                  | 20.8            |
| <b>Ownership of Unit</b>               |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Owned                                  | 1.0                  | 9.7            | 2.9           | .28                                  | .9                   | 24.6           | 24                   | .19                                  | 15.7            |
| Rented                                 | .4                   | 3.4            | 1.0           | .10                                  | .9                   | 22.2           | 21                   | .17                                  | 15.7            |
| <b>Year of Construction</b>            |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1949 or Before                         | .4                   | 3.4            | 1.0           | .10                                  | 1.0                  | 24.8           | 24                   | .20                                  | 18.9            |
| 1950 to 1979                           | .7                   | 6.3            | 1.8           | .18                                  | .7                   | 18.3           | 18                   | .14                                  | 19.8            |
| 1980 or After <sup>2</sup>             | .3                   | 3.4            | 1.0           | .09                                  | Q                    | Q              | Q                    | Q                                    | 31.8            |
| <b>1990 Family Income</b>              |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Less than \$10,000                     | .2                   | 1.0            | .3            | .03                                  | .3                   | 8.7            | 8                    | .07                                  | 20.7            |
| \$10,000 to \$19,999                   | .2                   | 1.5            | .4            | .04                                  | .4                   | 9.1            | 9                    | .08                                  | 19.0            |
| \$20,000 to \$34,999                   | .4                   | 3.5            | 1.0           | .10                                  | .4                   | 9.6            | 9                    | .08                                  | 18.6            |
| \$35,000 or More                       | .7                   | 7.2            | 2.1           | .20                                  | .6                   | 19.3           | 19                   | .15                                  | 17.2            |
| <b>Below Poverty Line</b>              |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 100 Percent                            | Q                    | Q              | Q             | Q                                    | .3                   | 10.2           | 10                   | .08                                  | 13.6            |
| 125 Percent                            | .2                   | 1.3            | .4            | .04                                  | .4                   | 11.1           | 11                   | .09                                  | 19.7            |
| <b>Age of Householder</b>              |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 35 Years                         | .3                   | 3.3            | 1.0           | .10                                  | .6                   | 18.7           | 18                   | .14                                  | 15.7            |
| 35 to 59 Years                         | .6                   | 6.6            | 1.9           | .19                                  | .7                   | 19.1           | 18                   | .15                                  | 17.0            |
| 60 Years and Over                      | .5                   | 3.3            | 1.0           | .09                                  | .5                   | 9.0            | 9                    | .07                                  | 21.2            |
| <b>Household Size</b>                  |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1 Person                               | .4                   | 2.4            | .7            | .07                                  | .4                   | 6.1            | 6                    | .05                                  | 22.0            |
| 2 to 4 Persons                         | 1.0                  | 9.4            | 2.8           | .27                                  | 1.2                  | 34.7           | 34                   | .27                                  | 13.1            |
| 5 or More Persons                      | Q                    | Q              | Q             | Q                                    | 2                    | 6.0            | 6                    | .05                                  | 23.8            |

See footnotes at end of table.

**NORTHEAST**

**Table 21. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in Northeast Region Households, 1990 (Continued)**

| Characteristics                             | Electricity          |                |               |                                      | Natural Gas          |                |                      |                                      | RSE Row Factors |
|---|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|-----------------|
|   | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                 |
|   |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |                 |
| RSE Column Factors:                         | 1.1                  | NF             | NF            | NF                                   | 0.8                  | NF             | NF                   | NF                                   |                 |
| <b>Middle Atlantic Division</b> .....       | 3.2                  | 32.7           | 9.6           | 0.87                                 | 7.8                  | 193.0          | 187                  | 1.36                                 | 12.1            |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 2.5                  | 25.6           | 7.5           | .66                                  | 3.8                  | 96.9           | 94                   | .62                                  | 20.9            |
| Under 5,500 HDD .....                       | .7                   | 7.1            | 2.1           | .20                                  | 4.0                  | 96.2           | 93                   | .74                                  | 19.1            |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                   | NC             | NC            | NC                                   | NC                   | NC             | NC                   | NC                                   | NC              |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Single-Family .....                         | 2.3                  | 24.7           | 7.3           | .66                                  | 5.1                  | 129.0          | 125                  | .87                                  | 13.5            |
| Mobile Home .....                           | Q                    | Q              | Q             | .07                                  | NC                   | NC             | NC                   | NC                                   | 41.4            |
| Multifamily (2 or more units) ..            | .6                   | 4.7            | 1.4           | .13                                  | 2.7                  | 64.0           | 62                   | .49                                  | 19.1            |
| <b>Heated Floorspace (square feet)</b>      |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Fewer than 1,000 .....                      | .8                   | 7.2            | 2.1           | .20                                  | 1.7                  | 36.2           | 35                   | .27                                  | 18.7            |
| 1,000 to 1,999 .....                        | 1.2                  | 12.7           | 3.7           | .33                                  | 3.1                  | 75.5           | 73                   | .54                                  | 13.0            |
| 2,000 or More .....                         | 1.1                  | 12.9           | 3.8           | .34                                  | 3.0                  | 81.3           | 79                   | .56                                  | 17.4            |
| <b>Ownership of Unit</b>                    |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Owned .....                                 | 2.4                  | 25.7           | 7.5           | .66                                  | 5.3                  | 137.3          | 133                  | .95                                  | 14.3            |
| Rented .....                                | .8                   | 7.0            | 2.1           | .20                                  | 2.5                  | 55.7           | 54                   | .41                                  | 16.5            |
| <b>Year of Construction</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1949 or Before .....                        | .9                   | 10.6           | 3.1           | .30                                  | 4.3                  | 105.8          | 102                  | .77                                  | 16.0            |
| 1950 to 1979 .....                          | 1.4                  | 14.0           | 4.1           | .36                                  | 3.4                  | 84.4           | 82                   | .57                                  | 18.2            |
| 1980 or After <sup>2</sup> .....            | .8                   | 8.1            | 2.4           | .21                                  | Q                    | Q              | Q                    | Q                                    | 22.3            |
| <b>1990 Family Income</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Less than \$10,000 .....                    | .3                   | 1.8            | .5            | .05                                  | 1.1                  | 22.9           | 22                   | .17                                  | 23.9            |
| \$10,000 to \$19,999 .....                  | .5                   | 4.9            | 1.4           | .12                                  | 1.5                  | 31.7           | 31                   | .23                                  | 24.1            |
| \$20,000 to \$34,999 .....                  | 1.1                  | 11.7           | 3.4           | .31                                  | 1.5                  | 36.5           | 35                   | .26                                  | 16.8            |
| \$35,000 or More .....                      | 1.3                  | 14.4           | 4.2           | .39                                  | 3.6                  | 102.0          | 99                   | .71                                  | 13.9            |
| <b>Below Poverty Line</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 100 Percent .....                           | .3                   | 2.0            | .6            | .06                                  | .9                   | 22.8           | 22                   | .17                                  | 24.5            |
| 125 Percent .....                           | .4                   | 3.8            | 1.1           | .10                                  | 1.2                  | 28.8           | 28                   | .21                                  | 26.2            |
| <b>Age of Householder</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 35 Years .....                        | 1.0                  | 11.1           | 3.3           | .31                                  | 2.1                  | 55.9           | 54                   | .41                                  | 16.0            |
| 35 to 59 Years .....                        | 1.5                  | 16.6           | 4.9           | .43                                  | 3.4                  | 91.9           | 89                   | .63                                  | 16.1            |
| 60 Years and Over .....                     | .7                   | 5.1            | 1.5           | .13                                  | 2.3                  | 45.2           | 44                   | .32                                  | 12.9            |
| <b>Household Size</b>                       |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1 Person .....                              | .8                   | 4.5            | 1.3           | .11                                  | 1.7                  | 22.8           | 22                   | .17                                  | 20.4            |
| 2 to 4 Persons .....                        | 2.0                  | 21.6           | 6.3           | .58                                  | 5.2                  | 137.9          | 133                  | .97                                  | 11.9            |
| 5 or More Persons .....                     | .4                   | 6.7            | 2.0           | .18                                  | .9                   | 32.3           | 31                   | .23                                  | 23.1            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, E, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 22. Total Fuel Oil and LPG Consumption and Expenditures for Water Heating in Northeast Region Households, 1990**

| Characteristics                             | Fuel Oil             |                |                   |                                      | Liquefied Petroleum Gas |                |                   |                                      | RSE Row Factors |
|---|----------------------|----------------|-------------------|--------------------------------------|-------------------------|----------------|-------------------|--------------------------------------|-----------------|
|   | Households (million) | Total Consumed |                   | Total Expenditures (billion dollars) | Households (million)    | Total Consumed |                   | Total Expenditures (billion dollars) |                 |
|   |                      | (trillion Btu) | (billion gallons) |                                      |                         | (trillion Btu) | (billion gallons) |                                      |                 |
| RSE Column Factors:                         | 0.5                  | NF             | NF                | NF                                   | 1.7                     | NF             | NF                | NF                                   |                 |
| Northeast Region                            |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| <b>Total Region</b> .....                   | 5.0                  | 107.0          | 0.78              | 0.81                                 | 0.4                     | 6.0            | 0.07              | 0.09                                 | 14.8            |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| Under 2,000 HDD .....                       | 2.7                  | 55.7           | .40               | .44                                  | .4                      | 6.0            | .07               | .09                                  | 19.1            |
| Over 5,500 HDD .....                        | 2.3                  | 51.2           | .38               | .37                                  | NC                      | NC             | NC                | NC                                   | 20.0            |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                   | NC             | NC                | NC                                   | NC                      | NC             | NC                | NC                                   | NC              |
| <b>Type of Housing Unit</b>                 |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| Single-Family .....                         | 2.9                  | 66.0           | .48               | .54                                  | .3                      | 4.3            | .05               | .06                                  | 17.9            |
| Mobile Home .....                           | NC                   | NC             | NC                | NC                                   | Q                       | Q              | Q                 | Q                                    | NF              |
| Multifamily (2 or more units) ..            | 2.1                  | 40.9           | .30               | .27                                  | Q                       | Q              | Q                 | Q                                    | 16.6            |
| <b>Heated Floorspace (square feet)</b>      |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| Fewer than 1,000 .....                      | 1.5                  | 25.5           | .19               | .17                                  | Q                       | Q              | Q                 | Q                                    | 37.4            |
| 1,000 to 1,999 .....                        | 1.5                  | 34.8           | .25               | .27                                  | Q                       | Q              | Q                 | Q                                    | 26.7            |
| 2,000 or More .....                         | 2.0                  | 46.7           | .34               | .36                                  | .2                      | 2.4            | .03               | .04                                  | 23.6            |
| <b>Ownership of Unit</b>                    |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| Owned .....                                 | 3.3                  | 74.0           | .54               | .58                                  | .3                      | 5.6            | .06               | .08                                  | 17.6            |
| Rented .....                                | 1.6                  | 32.9           | .24               | .22                                  | Q                       | Q              | Q                 | Q                                    | 15.4            |
| <b>Year of Construction</b>                 |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| 1949 or Before .....                        | 2.1                  | 40.4           | .30               | .30                                  | .3                      | 3.7            | .04               | .06                                  | 19.1            |
| 1950 to 1979 .....                          | 2.7                  | 63.0           | .46               | .48                                  | Q                       | Q              | Q                 | Q                                    | 16.5            |
| 1980 or After? .....                        | .2                   | 3.6            | .03               | .03                                  | Q                       | Q              | Q                 | Q                                    | 55.0            |
| <b>1990 Family Income</b>                   |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| Less than \$10,000 .....                    | .9                   | 14.4           | .11               | .10                                  | Q                       | Q              | Q                 | Q                                    | 31.6            |
| \$10,000 to \$19,999 .....                  | .7                   | 12.1           | .09               | .08                                  | Q                       | Q              | Q                 | Q                                    | 29.0            |
| \$20,000 to \$34,999 .....                  | 1.1                  | 27.4           | .20               | .21                                  | Q                       | Q              | Q                 | Q                                    | 29.1            |
| \$35,000 or More .....                      | 2.2                  | 53.2           | .39               | .42                                  | .2                      | 3.2            | .03               | .04                                  | 22.3            |
| <b>Below Poverty Line</b>                   |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| 100 Percent .....                           | .6                   | 11.6           | .09               | .08                                  | Q                       | Q              | Q                 | Q                                    | 44.5            |
| 125 Percent .....                           | .9                   | 16.0           | .12               | .11                                  | Q                       | Q              | Q                 | Q                                    | 26.5            |
| <b>Age of Householder</b>                   |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| Under 35 Years .....                        | 1.2                  | 28.6           | .21               | .21                                  | Q                       | Q              | Q                 | Q                                    | 22.1            |
| 35 to 59 Years .....                        | 2.2                  | 54.2           | .39               | .42                                  | Q                       | Q              | Q                 | Q                                    | 15.8            |
| 60 Years and Over .....                     | 1.6                  | 24.1           | .18               | .18                                  | Q                       | Q              | Q                 | Q                                    | 23.8            |
| <b>Household Size</b>                       |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| 1 Person .....                              | 1.3                  | 16.3           | .12               | .12                                  | Q                       | Q              | Q                 | Q                                    | 31.7            |
| 2 to 4 Persons .....                        | 3.2                  | 73.9           | .54               | .56                                  | .2                      | 3.4            | .04               | .05                                  | 16.8            |
| 5 or More Persons .....                     | .5                   | 16.9           | .12               | .13                                  | Q                       | Q              | Q                 | Q                                    | 32.7            |

See footnotes at end of table.

**NORTHEAST**

**WATER-HEATING CONSUMPTION/EXPENDITURES**

WATER-HEATING CONSUMPTION/EXPENDITURES

NORTHEAST

Table 22. Total Fuel Oil and LPG Consumption and Expenditures for Water Heating in Northeast Region Households, 1990 (Continued)

| Characteristics                            | Fuel Oil                     |                        |                      |                              | Liquefied Petroleum Gas |                      |  |      | RSE<br>Flow<br>Factors |
|--|------------------------------|------------------------|----------------------|------------------------------|-------------------------|----------------------|--|------|------------------------|
|  | House-<br>holds<br>(million) | Total Consumed         |                      | House-<br>holds<br>(million) | Total Consumed          |                      | Total<br>Expenditures<br>(billion dollars) |      |                        |
|  |                              | (tril-<br>lion<br>Btu) | (billion<br>gallons) |                              | (tril-<br>lion<br>Btu)  | (billion<br>gallons) |  |      |                        |
|  |                              |                        |                      |                              |                         |                      |  | NF   |                        |
| RSE Column Factors:                        | 0.5                          | NF                     | NF                   | 1.7                          | NF                      | NF                   | NF   | NF   |                        |
| <b>New England Division</b>                | 1.3                          | 26.3                   | 0.19                 | 0.21                         | 0.2                     | 3.0                  | 0.03                                       | 0.05 | 16.9                   |
| <b>Climate Zone<sup>1</sup></b>            |                              |                        |                      |                              |                         |                      |  |      |                        |
| Under 2,000 HDD and<br>Over 5,500 HDD      | 1.3                          | 26.1                   | .19                  | .21                          | .2                      | 3.0                  | .03  | .05  | 16.6                   |
| Under 5,500 HDD                            | Q                            | Q                      | Q                    | Q                            | NC                      | NC                   | NC   | NC   | NF                     |
| 2,000 HDD or More and<br>Under 4,000 HDD   | NC                           | NC                     | NC                   | NC                           | NC                      | NC                   | NC   | NC   | NC                     |
| <b>Type of Housing Unit</b>                |                              |                        |                      |                              |                         |                      |  |      |                        |
| Single-Family                              | .9                           | 19.1                   | .14                  | .15                          | .1                      | 2.2                  | .02  | .03  | 20.0                   |
| Mobile Home                                | NC                           | NC                     | NC                   | NC                           | Q                       | Q                    | Q  | Q    | NF                     |
| Multifamily (2 or more units)              | .4                           | 7.2                    | .05                  | .06                          | Q                       | Q                    | Q  | Q    | 25.2                   |
| <b>Heated Floorspace<br/>(square feet)</b> |                              |                        |                      |                              |                         |                      |  |      |                        |
| Fewer than 1,000                           | .3                           | 5.4                    | .04                  | .04                          | Q                       | Q                    | Q  | Q    | 15.6                   |
| 1,000 to 1,999                             | .4                           | 8.7                    | .06                  | .07                          | Q                       | Q                    | Q  | Q    | 36.3                   |
| 2,000 or More                              | .6                           | 12.2                   | .09                  | .09                          | Q                       | Q                    | Q  | Q    | 27.9                   |
| <b>Ownership of Unit</b>                   |                              |                        |                      |                              |                         |                      |  |      |                        |
| Owned                                      | .9                           | 18.6                   | .13                  | .15                          | .2                      | 2.7                  | .03  | .04  | 20.4                   |
| Rented                                     | .4                           | 7.7                    | .06                  | .06                          | Q                       | Q                    | Q  | Q    | 28.4                   |
| <b>Year of Construction</b>                |                              |                        |                      |                              |                         |                      |  |      |                        |
| 1949 or Before                             | .7                           | 12.5                   | .09                  | .10                          | .1                      | 2.1                  | .02  | .03  | 25.0                   |
| 1950 to 1978                               | .5                           | 11.5                   | .08                  | .09                          | Q                       | Q                    | Q  | Q    | 18.6                   |
| 1980 or After <sup>2</sup>                 | Q                            | Q                      | Q                    | Q                            | Q                       | Q                    | Q  | Q    | NF                     |
| <b>1990 Family Income</b>                  |                              |                        |                      |                              |                         |                      |  |      |                        |
| Less than \$10,000                         | .3                           | 3.8                    | .03                  | .03                          | Q                       | Q                    | Q  | Q    | 36.4                   |
| \$10,000 to \$19,999                       | .2                           | 3.1                    | .02                  | .02                          | Q                       | Q                    | Q  | Q    | 52.5                   |
| \$20,000 to \$34,999                       | .3                           | 6.0                    | .04                  | .05                          | Q                       | Q                    | Q  | Q    | 43.6                   |
| \$35,000 or More                           | .6                           | 13.4                   | .10                  | .11                          | Q                       | Q                    | Q  | Q    | 23.1                   |
| <b>Below Poverty Line</b>                  |                              |                        |                      |                              |                         |                      |  |      |                        |
| 100 Percent                                | .2                           | 3.2                    | .02                  | .03                          | Q                       | Q                    | Q  | Q    | 58.2                   |
| 125 Percent                                | .3                           | 4.4                    | .03                  | .03                          | Q                       | Q                    | Q  | Q    | 36.6                   |
| <b>Age of Householder</b>                  |                              |                        |                      |                              |                         |                      |  |      |                        |
| Under 35 Years                             | .3                           | 6.4                    | .05                  | .05                          | Q                       | Q                    | Q  | Q    | 23.2                   |
| 35 to 59 Years                             | .5                           | 13.3                   | .10                  | .10                          | Q                       | Q                    | Q  | Q    | 15.9                   |
| 60 Years and Over                          | .4                           | 6.6                    | .05                  | .05                          | Q                       | Q                    | Q  | Q    | 20.5                   |
| <b>Household Size</b>                      |                              |                        |                      |                              |                         |                      |  |      |                        |
| 1 Person                                   | .4                           | 4.6                    | .03                  | .04                          | Q                       | Q                    | Q  | Q    | 36.3                   |
| 2 to 4 Persons                             | .8                           | 19.1                   | .14                  | .15                          | Q                       | Q                    | Q  | Q    | 27.2                   |
| 5 or More Persons                          | Q                            | Q                      | Q                    | Q                            | Q                       | Q                    | Q  | Q    | NF                     |

See footnotes at end of table.

**Table 22. Total Fuel Oil and LPG Consumption and Expenditures for Water Heating in Northeast Region Households, 1990 (Continued)**

| Characteristics                             | Fuel Oil             |                |                                |                      | Liquefied Petroleum Gas |                                |                |                   | RSE Row Factors |
|---|----------------------|----------------|--------------------------------|----------------------|-------------------------|--------------------------------|----------------|-------------------|-----------------|
|   | Households (million) | Total Consumed | Expenditures (billion dollars) | Households (million) | Total Consumed          | Expenditures (billion dollars) |                |                   |                 |
|   |                      | (trillion Btu) |                                |                      | (billion gallons)       |                                | (trillion Btu) | (billion gallons) |                 |
| RSE Column Factors:                         | 0.5                  | NF             | NF                             | 1.7                  | NF                      | NF                             | NF             |                   |                 |
| Middle Atlantic Division .....              | 3.7                  | 80.7           | 0.59                           | 0.60                 | Q                       | Q                              | Q              | 18.2              |                 |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |                                |                      |                         |                                |                |                   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 1.4                  | 29.6           | .21                            | .23                  | Q                       | Q                              | Q              | 44.3              |                 |
| Under 5,500 HDD and 2,000 CDD or More ..... | 2.3                  | 51.0           | .37                            | .37                  | NC                      | NC                             | NC             | 20.0              |                 |
| Under 4,000 HDD .....                       | NC                   | NC             | NC                             | NC                   | NC                      | NC                             | NC             | NC                |                 |
| <b>Type of Housing Unit</b>                 |                      |                |                                |                      |                         |                                |                |                   |                 |
| Single-Family .....                         | 2.0                  | 46.9           | .34                            | .39                  | Q                       | Q                              | Q              | 25.3              |                 |
| Mobile Home .....                           | NC                   | NC             | NC                             | NC                   | Q                       | Q                              | Q              | NF                |                 |
| Multifamily (2 or more units) ..            | 1.7                  | 33.7           | .25                            | .21                  | Q                       | Q                              | Q              | 20.3              |                 |
| <b>Heated Floorspace (square feet)</b>      |                      |                |                                |                      |                         |                                |                |                   |                 |
| Fewer than 1,000 .....                      | 1.1                  | 20.1           | .15                            | .13                  | Q                       | Q                              | Q              | 48.0              |                 |
| 1,000 to 1,999 .....                        | 1.1                  | 26.1           | .19                            | .20                  | Q                       | Q                              | Q              | 33.5              |                 |
| 2,000 or More .....                         | 1.5                  | 34.5           | .25                            | .27                  | Q                       | Q                              | Q              | 39.7              |                 |
| <b>Ownership of Unit</b>                    |                      |                |                                |                      |                         |                                |                |                   |                 |
| Owned .....                                 | 2.4                  | 55.4           | .40                            | .44                  | Q                       | Q                              | Q              | 24.0              |                 |
| Rented .....                                | 1.2                  | 25.2           | .19                            | .16                  | Q                       | Q                              | Q              | 18.4              |                 |
| <b>Year of Construction</b>                 |                      |                |                                |                      |                         |                                |                |                   |                 |
| 1949 or Before .....                        | 1.5                  | 27.9           | .20                            | .20                  | Q                       | Q                              | Q              | 24.7              |                 |
| 1950 to 1979 .....                          | 2.1                  | 51.4           | .37                            | .39                  | Q                       | Q                              | Q              | 20.2              |                 |
| 1980 or After <sup>2</sup> .....            | Q                    | Q              | Q                              | Q                    | Q                       | Q                              | Q              | NF                |                 |
| <b>1990 Family Income</b>                   |                      |                |                                |                      |                         |                                |                |                   |                 |
| Less than \$10,000 .....                    | .6                   | 10.6           | .08                            | .07                  | Q                       | Q                              | Q              | 40.7              |                 |
| \$10,000 to \$19,999 .....                  | .5                   | 9.0            | .07                            | .06                  | Q                       | Q                              | Q              | 33.6              |                 |
| \$20,000 to \$34,999 .....                  | .9                   | 21.3           | .16                            | .16                  | Q                       | Q                              | Q              | 36.0              |                 |
| \$35,000 or More .....                      | 1.7                  | 39.8           | .29                            | .31                  | Q                       | Q                              | Q              | 39.3              |                 |
| <b>Below Poverty Line</b>                   |                      |                |                                |                      |                         |                                |                |                   |                 |
| 100 Percent .....                           | .4                   | 8.4            | .06                            | .06                  | Q                       | Q                              | Q              | 57.0              |                 |
| 125 Percent .....                           | .6                   | 11.6           | .09                            | .08                  | Q                       | Q                              | Q              | 34.3              |                 |
| <b>Age of Householder</b>                   |                      |                |                                |                      |                         |                                |                |                   |                 |
| Under 35 Years .....                        | .9                   | 22.2           | .16                            | .16                  | Q                       | Q                              | Q              | 28.5              |                 |
| 35 to 59 Years .....                        | 1.6                  | 41.0           | .30                            | .31                  | Q                       | Q                              | Q              | 20.5              |                 |
| 60 Years and Over .....                     | 1.2                  | 17.5           | .13                            | .13                  | Q                       | Q                              | Q              | 32.6              |                 |
| <b>Household Size</b>                       |                      |                |                                |                      |                         |                                |                |                   |                 |
| 1 Person .....                              | .9                   | 11.6           | .09                            | .08                  | Q                       | Q                              | Q              | 43.0              |                 |
| 2 to 4 Persons .....                        | 2.4                  | 54.8           | .40                            | .41                  | Q                       | Q                              | Q              | 21.7              |                 |
| 5 or More Persons .....                     | .4                   | 14.3           | .10                            | .11                  | Q                       | Q                              | Q              | 37.8              |                 |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

WATER-HEATING CONSUMPTION/EXPENDITURES

NORTHEAST

Table 23. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per Northeast Region Household, 1990

| Characteristics                        | Electricity   |       |                        |  | Natural Gas          |               |                   |                        | RSE Row Factors |      |      |
|--|---------------|-------|------------------------|--|----------------------|---------------|-------------------|------------------------|-----------------|------|------|
|  | Consumption   |       | Expenditures (dollars) | Electricity Water-Heating Intensity (kWh per household member) | Households (million) | Consumption   |                   | Expenditures (dollars) |                 |      |      |
|  | (million Btu) | (kWh) |                        |  |                      | (million Btu) | (1000 cubic feet) |                        |                 |      |      |
| RSE Column Factors:                    | 2.5           | NF    | NF                     | NF   | 1.7                  | NF            | NF                | NF                     | NF              |      |      |
| <b>Total Region</b>                    | 4.3           | 10.3  | 3,032                  | 278  | 1,158                | 9.5           | 25.1              | 24.3                   | 181             | 9.1  | 3.6  |
| <b>Climate Zone<sup>1</sup></b>        |               |       |                        |  |                      |               |                   |                        |                 |      |      |
| Under 2,000 HDD and Over 5,500 HDD     | 3.7           | 10.3  | 3,023                  | 275  | 1,165                | 5.5           | 25.9              | 25.0                   | 177             | 9.6  | 4.5  |
| Under 5,500 HDD                        | .6            | 10.5  | 3,080                  | 298  | 1,124                | 4.0           | 24.0              | 23.3                   | 186             | 8.5  | 8.0  |
| 2,000 HDD or More and Under 4,000 HDD  | NC            | NC    | NC                     | NC   | NC                   | NC            | NC                | NC                     | NC              | NC   | NC   |
| <b>Type of Housing Unit</b>            |               |       |                        |  |                      |               |                   |                        |                 |      |      |
| Single-Family                          | 2.9           | 11.1  | 3,267                  | 299  | 1,168                | 5.7           | 25.5              | 24.6                   | 176             | 8.3  | 4.5  |
| Mobile Home                            | .5            | 9.1   | 2,669                  | 227  | 964                  | NC            | NC                | NC                     | NC              | NC   | 13.4 |
| Multifamily (2 or more units)          | .9            | 8.3   | 2,433                  | 234  | 1,272                | 3.8           | 24.6              | 23.8                   | 188             | 10.6 | 8.0  |
| <b>Heated Floorspace (square feet)</b> |               |       |                        |  |                      |               |                   |                        |                 |      |      |
| Fewer than 1,000                       | 1.1           | 8.6   | 2,518                  | 241  | 1,130                | 2.4           | 22.4              | 21.7                   | 169             | 11.2 | 7.7  |
| 1,000 to 1,999                         | 1.7           | 10.4  | 3,037                  | 272  | 1,165                | 3.7           | 25.1              | 24.2                   | 181             | 8.8  | 4.1  |
| 2,000 or More                          | 1.4           | 11.7  | 3,440                  | 315  | 1,169                | 3.4           | 27.1              | 26.2                   | 189             | 8.5  | 7.0  |
| <b>Ownership of Unit</b>               |               |       |                        |  |                      |               |                   |                        |                 |      |      |
| Owned                                  | 3.1           | 10.9  | 3,184                  | 287  | 1,144                | 6.2           | 26.1              | 25.2                   | 183             | 9.0  | 4.1  |
| Rented                                 | 1.2           | 8.9   | 2,618                  | 254  | 1,207                | 3.3           | 23.3              | 22.5                   | 176             | 9.3  | 7.0  |
| <b>Year of Construction</b>            |               |       |                        |  |                      |               |                   |                        |                 |      |      |
| 1949 or Before                         | 1.2           | 11.0  | 3,212                  | 305  | 1,076                | 5.3           | 24.8              | 24.0                   | 184             | 8.6  | 5.6  |
| 1950 to 1979                           | 1.9           | 10.1  | 2,946                  | 269  | 1,207                | 4.0           | 25.5              | 24.7                   | 176             | 9.8  | 6.3  |
| 1980 or After <sup>2</sup>             | 1.1           | 10.2  | 2,981                  | 265  | 1,185                | .3            | 24.9              | 24.0                   | 195             | 9.1  | 13.4 |
| <b>1990 Family Income</b>              |               |       |                        |  |                      |               |                   |                        |                 |      |      |
| Less than \$10,000                     | .4            | 6.7   | 1,962                  | 189  | 952                  | 1.5           | 21.1              | 20.4                   | 154             | 9.6  | 10.8 |
| \$10,000 to \$19,999                   | .7            | 8.5   | 2,501                  | 217  | 1,114                | 1.9           | 21.4              | 20.7                   | 159             | 9.4  | 9.3  |
| \$20,000 to \$34,999                   | 1.4           | 10.7  | 3,125                  | 287  | 1,143                | 1.9           | 24.1              | 23.4                   | 176             | 8.6  | 6.8  |
| \$35,000 or More                       | 1.7           | 11.7  | 3,434                  | 317  | 1,220                | 4.2           | 28.6              | 27.7                   | 202             | 9.1  | 4.9  |
| <b>Below Poverty Line</b>              |               |       |                        |  |                      |               |                   |                        |                 |      |      |
| 100 Percent                            | .3            | 8.6   | 2,522                  | 242  | 765                  | 1.3           | 26.0              | 25.1                   | 193             | 8.9  | 12.5 |
| 125 Percent                            | .5            | 9.8   | 2,879                  | 270  | 896                  | 1.6           | 25.1              | 24.2                   | 185             | 8.9  | 11.1 |
| <b>Age of Householder</b>              |               |       |                        |  |                      |               |                   |                        |                 |      |      |
| Under 35 Years                         | 1.3           | 11.0  | 3,235                  | 310  | 1,016                | 2.6           | 28.0              | 27.1                   | 204             | 9.4  | 6.3  |
| 35 to 59 Years                         | 1.9           | 11.7  | 3,417                  | 309  | 1,221                | 4.1           | 27.2              | 26.3                   | 192             | 8.7  | 5.4  |
| 60 Years and Over                      | 1.1           | 7.2   | 2,122                  | 187  | 1,302                | 2.8           | 19.3              | 18.7                   | 141             | 9.6  | 6.1  |
| <b>Household Size</b>                  |               |       |                        |  |                      |               |                   |                        |                 |      |      |
| 1 Person                               | 1.1           | 6.0   | 1,771                  | 156  | 1,771                | 2.0           | 14.0              | 13.6                   | 104             | 13.6 | 6.2  |
| 2 to 4 Persons                         | 2.7           | 11.1  | 3,252                  | 302  | 1,161                | 6.4           | 27.0              | 26.1                   | 193             | 9.6  | 3.9  |
| 5 or More Persons                      | .5            | 16.2  | 4,753                  | 430  | 883                  | 1.1           | 34.7              | 33.5                   | 252             | 6.1  | 7.7  |

Northeast Region

See footnotes at end of table.

**Table 23. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per Northeast Region Household, 1990 (Continued)**

| Characteristics  | Electricity          |               |       |                        |  |                      | Natural Gas   |                   |                        |  |      |      | RSE Row Factors |
|--|----------------------|---------------|-------|------------------------|--|----------------------|---------------|-------------------|------------------------|--|------|------|-----------------|
|  | Households (million) | Consumption   |       | Expenditures (dollars) | Electricity Water-Heating Intensity (KWh per household member) | Households (million) | Consumption   |                   | Expenditures (dollars) | Natural Gas Water-Heating Intensity (1000 cubic feet per household member) |      |      |                 |
|  |                      | (million Btu) | (KWh) |                        |  |                      | (million Btu) | (1000 cubic feet) |                        |  |      |      |                 |
| RSE Column Factors:  | 2.5                  | NF            | NF    | NF                     | NF   | 1.7                  | NF            | NF                | NF                     | NF   | NF   |      |                 |
| <b>Northeast Region</b>  |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |                 |
| <b>Average Electricity Expenditures</b><br>(cents per kWh)       | Q                    | Q             | Q     | Q                      | Q  | Q                    | NC            | NC                | NC                     | NC   | NC   | NF   |                 |
| Less than 6  | 1.8                  | 10.5          | 3,089 | 251                    | 1,245  | --                   | --            | --                | --                     | --   | --   | 5.1  |                 |
| 6 to Less than 9   | 2.3                  | 10.0          | 2,926 | 307                    | 1,082  | --                   | --            | --                | --                     | --   | --   | 5.1  |                 |
| 9 or More  |                      |               |       |                        |  |                      |               |                   |                        |  |      | 5.1  |                 |
| <b>Average Natural Gas Expenditures</b><br>(dollars per 1000 cf) | --                   | --            | --    | --                     | --   | Q                    | NC            | NC                | NC                     | NC   | NC   | NF   |                 |
| Less than 4.50   | --                   | --            | --    | --                     | --   | 0.8                  | 25.1          | 24.2              | 138                    | 9.5  | 24.5 | 24.5 |                 |
| 4.50 to Less than 6  | --                   | --            | --    | --                     | --   | 8.7                  | 25.2          | 24.3              | 185                    | 9.1  | 3.4  | 3.4  |                 |
| 6 or More  |                      |               |       |                        |  |                      |               |                   |                        |  |      | 3.4  |                 |
| <b>Water Heater Used</b><br>For One Housing Unit                 | 4.2                  | 10.4          | 3,059 | 281                    | 1,160  | 7.1                  | 25.5          | 24.6              | 180                    | 8.7  | 3.8  | 3.8  |                 |
| For Two or More Units  | Q                    | Q             | Q     | Q                      | Q  | 2.4                  | 24.0          | 23.3              | 183                    | 10.8   | 9.0  | 9.0  |                 |
| <b>Age of Water Heater</b><br>Less than 5 Years                  | 1.7                  | 10.4          | 3,048 | 276                    | 1,114  | 2.6                  | 25.7          | 24.9              | 180                    | 8.6  | 5.5  | 5.5  |                 |
| 5 to 9 Years   | .9                   | 11.4          | 3,342 | 303                    | 1,180  | 1.7                  | 23.9          | 23.2              | 173                    | 8.3  | 8.1  | 8.1  |                 |
| 10 to 19 Years   | 1.0                  | 9.6           | 2,828 | 262                    | 1,303  | 1.4                  | 23.9          | 23.1              | 163                    | 8.9  | 10.1 | 10.1 |                 |
| 20 Years or More   | .3                   | 10.5          | 3,084 | 284                    | 1,324  | .5                   | 23.6          | 22.9              | 173                    | 7.6  | 11.7 | 11.7 |                 |
| Don't Know   | .3                   | 10.1          | 2,956 | 289                    | 952  | .7                   | 33.0          | 31.8              | 233                    | 9.8  | 13.6 | 13.6 |                 |
| <b>Size of Water Heater</b><br>30 gallons or less                | .8                   | 7.8           | 2,293 | 214                    | 1,066  | .8                   | 20.1          | 19.4              | 143                    | 8.1  | 8.8  | 8.8  |                 |
| 31 to 49 gallons   | 1.7                  | 10.7          | 3,141 | 286                    | 1,168  | 4.4                  | 25.1          | 24.2              | 174                    | 8.3  | 4.9  | 4.9  |                 |
| 50 gallons or more   | 1.3                  | 11.6          | 3,399 | 311                    | 1,248  | 1.2                  | 29.1          | 28.2              | 211                    | 9.7  | 7.0  | 7.0  |                 |
| Don't Know   | .4                   | 10.4          | 3,040 | 283                    | 1,035  | .6                   | 29.3          | 28.1              | 215                    | 10.0   | 15.6 | 15.6 |                 |
| <b>Location of Water Heater</b><br>Heated Area                   | 2.8                  | 10.3          | 3,013 | 281                    | 1,132  | 4.8                  | 25.5          | 24.6              | 179                    | 8.7  | 4.9  | 4.9  |                 |
| Unheated Area  | 1.3                  | 10.7          | 3,131 | 280                    | 1,224  | 2.0                  | 25.7          | 24.9              | 184                    | 8.7  | 6.0  | 6.0  |                 |
| <b>Clothes Washer Present in Household</b><br>Yes                | 3.6                  | 10.8          | 3,167 | 289                    | 1,153  | 7.2                  | 26.5          | 25.6              | 187                    | 8.8  | 3.8  | 3.8  |                 |
| No   | .7                   | 8.0           | 2,351 | 224                    | 1,196  | 2.3                  | 20.7          | 20.1              | 161                    | 10.8   | 10.3 | 10.3 |                 |
| <b>Dishwasher Present in Household</b><br>Yes                    | 2.1                  | 11.1          | 3,255 | 297                    | 1,225  | 3.8                  | 27.5          | 26.6              | 191                    | 9.1  | 5.4  | 5.4  |                 |
| No   | 2.1                  | 9.6           | 2,809 | 259                    | 1,090  | 5.8                  | 23.6          | 22.8              | 174                    | 9.1  | 4.8  | 4.8  |                 |
| <b>Children Present in Household</b><br>No                       | 2.6                  | 8.4           | 2,455 | 222                    | 1,415  | 5.8                  | 21.4          | 20.7              | 153                    | 11.2   | 4.0  | 4.0  |                 |
| Yes  | 1.7                  | 13.4          | 3,939 | 367                    | 983  | 3.7                  | 31.0          | 30.0              | 224                    | 7.6  | 5.1  | 5.1  |                 |
| (more than one may apply)  |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |                 |
| Under 13 Years   | 1.4                  | 13.1          | 3,842 | 356                    | 950  | 3.0                  | 31.3          | 30.3              | 227                    | 7.5  | 5.4  | 5.4  |                 |
| 13 to 18 Years   | .5                   | 16.0          | 4,682 | 426                    | 1,101  | 1.2                  | 33.8          | 32.7              | 240                    | 7.6  | 7.3  | 7.3  |                 |

See footnotes at end of table.

**NORTHEAST**

**WATER-HEATING CONSUMPTION/EXPENDITURES**



WATER-HEATING CONSUMPTION/EXPENDITURES

NORTHEAST

Table 23. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per Northeast Region Household, 1990 (Continued)

| Characteristics                             | Electricity          |               |       |                        | Natural Gas  |                      |               |                   | RSE Row Factors |                        |      |
|---|----------------------|---------------|-------|------------------------|--|----------------------|---------------|-------------------|-----------------|------------------------|------|
|   | Households (million) | Consumption   |       | Expenditures (dollars) | Electricity Heating Intensity (kWh per household member) | Households (million) | Consumption   |                   |                 | Expenditures (dollars) |      |
|   |                      | (million Btu) | (kWh) |                        |  |                      | (million Btu) | (1000 cubic feet) |                 |                        |      |
|   |                      |               |       |                        |  |                      |               |                   |                 |                        | NF   |
| 2.5   | NF                   | NF            | NF    | NF                     | 1.7  | NF                   | NF            | NF                | NF              |                        |      |
| <b>RSE Column Factors:</b>                  |                      |               |       |                        |  |                      |               |                   |                 |                        |      |
| <b>New England Division</b> .....           | 1.3                  | 9.8           | 2,861 | 279                    | 1,199  | 1.7                  | 26.8          | 25.9              | 208             | 9.8                    | 5.3  |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |       |                        |  |                      |               |                   |                 |                        |      |
| Under 2,000 CDD and Over 5,500 HDD .....    |                      |               |       |                        |  |                      |               |                   |                 |                        |      |
| Under 5,500 HDD .....                       | 1.3                  | 9.8           | 2,859 | 279                    | 1,197  | 1.7                  | 26.8          | 25.9              | 208             | 9.8                    | 5.3  |
| 2,000 CDD or More and Under 4,000 HDD ..... | Q                    | Q             | Q     | Q                      | Q  | NC                   | NC            | NC                | NC              | NC                     | NF   |
| <b>Type of Housing Unit</b>                 |                      |               |       |                        |  |                      |               |                   |                 |                        |      |
| Single-Family .....                         | .9                   | 10.5          | 3,077 | 298                    | 1,251  | .6                   | 26.2          | 25.3              | 210             | 8.4                    | 7.1  |
| Mobile Home .....                           | 1                    | 9.2           | 2,700 | 291                    | 900  | NC                   | NC            | NC                | NC              | NC                     | 8.0  |
| Multifamily (2 or more units) ..            | .3                   | 7.9           | 2,325 | 218                    | 1,207  | 1.1                  | 27.2          | 26.2              | 207             | 10.8                   | 6.9  |
| <b>Heated Floorspace (square feet)</b>      |                      |               |       |                        |  |                      |               |                   |                 |                        |      |
| Fewer than 1,000 .....                      | .3                   | 8.5           | 2,482 | 254                    | 1,127  | .7                   | 24.6          | 23.8              | 189             | 10.6                   | 7.7  |
| 1,000 to 1,999 .....                        | .6                   | 9.8           | 2,876 | 269                    | 1,219  | .6                   | 27.4          | 26.4              | 213             | 9.5                    | 8.5  |
| 2,000 or More .....                         | .4                   | 10.7          | 3,133 | 311                    | 1,222  | .4                   | 29.9          | 28.9              | 236             | 9.2                    | 12.8 |
| <b>Ownership of Unit</b>                    |                      |               |       |                        |  |                      |               |                   |                 |                        |      |
| Owned .....                                 | .9                   | 10.1          | 2,971 | 292                    | 1,177  | .9                   | 27.7          | 26.8              | 212             | 10.2                   | 7.1  |
| Rented .....                                | .4                   | 8.8           | 2,592 | 246                    | 1,265  | .9                   | 25.8          | 25.0              | 204             | 9.4                    | 8.7  |
| <b>Year of Construction</b>                 |                      |               |       |                        |  |                      |               |                   |                 |                        |      |
| 1949 or Before .....                        | .4                   | 8.9           | 2,615 | 250                    | 1,129  | 1.0                  | 25.9          | 25.0              | 208             | 9.1                    | 8.4  |
| 1950 to 1979 .....                          | .6                   | 9.9           | 2,912 | 291                    | 1,192  | .7                   | 27.2          | 26.3              | 201             | 10.9                   | 8.9  |
| 1980 or After <sup>2</sup> .....            | .3                   | 10.3          | 3,030 | 286                    | 1,284  | Q                    | Q             | Q                 | Q               | Q                      | 10.7 |
| <b>1990 Family Income</b>                   |                      |               |       |                        |  |                      |               |                   |                 |                        |      |
| Less than \$10,000 .....                    | 1                    | 7.3           | 2,144 | 202                    | 1,388  | .3                   | 25.0          | 24.2              | 188             | 9.6                    | 17.9 |
| \$10,000 to \$19,999 .....                  | .2                   | 7.7           | 2,242 | 222                    | 1,009  | .4                   | 24.2          | 23.4              | 202             | 9.1                    | 9.6  |
| \$20,000 to \$34,999 .....                  | .4                   | 9.2           | 2,707 | 271                    | 1,059  | .4                   | 24.2          | 23.4              | 193             | 10.0                   | 11.6 |
| \$35,000 or More .....                      | .6                   | 11.3          | 3,308 | 318                    | 1,318  | .6                   | 31.0          | 29.9              | 233             | 10.2                   | 6.6  |
| <b>Below Poverty Line</b>                   |                      |               |       |                        |  |                      |               |                   |                 |                        |      |
| 100 Percent .....                           | Q                    | Q             | Q     | Q                      | Q  | .3                   | 30.1          | 29.1              | 232             | 8.9                    | 11.8 |
| 125 Percent .....                           | .1                   | 9.5           | 2,771 | 268                    | 1,045  | .4                   | 29.6          | 28.7              | 229             | 9.0                    | 14.4 |
| <b>Age of Householder</b>                   |                      |               |       |                        |  |                      |               |                   |                 |                        |      |
| Under 35 Years .....                        | .3                   | 9.7           | 2,829 | 278                    | 1,104  | .6                   | 32.1          | 31.0              | 238             | 11.3                   | 7.2  |
| 35 to 59 Years .....                        | .5                   | 11.4          | 3,356 | 332                    | 1,199  | .7                   | 28.2          | 27.2              | 225             | 8.8                    | 6.2  |
| 60 Years and Over .....                     | .4                   | 7.6           | 2,238 | 209                    | 1,320  | .5                   | 18.5          | 17.9              | 148             | 9.8                    | 11.1 |
| <b>Household Size</b>                       |                      |               |       |                        |  |                      |               |                   |                 |                        |      |
| 1 Person .....                              | .4                   | 6.6           | 1,939 | 183                    | 1,939  | .4                   | 14.9          | 14.4              | 118             | 14.4                   | 9.9  |
| 2 to 4 Persons .....                        | .9                   | 10.5          | 3,068 | 304                    | 1,150  | 1.2                  | 29.5          | 28.5              | 227             | 10.3                   | 5.9  |
| 5 or More Persons .....                     | Q                    | Q             | Q     | Q                      | Q  | .2                   | 36.9          | 35.7              | 297             | 6.2                    | 8.4  |

See footnotes at end of table.

**Table 23. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per Northeast Region Household, 1990 (Continued)**

| Characteristics   | RSE Column Factors: | Electricity          |               |       |                        |  |                      | Natural Gas   |                   |                        |  |      |  | RSE Row Factors |
|---|---------------------|----------------------|---------------|-------|------------------------|--|----------------------|---------------|-------------------|------------------------|--|------|--|-----------------|
|   |                     | Consumption          |               |       | Expenditures (dollars) | Electricity Water-Heating Intensity (kWh per household member) | Consumption          |               |                   | Expenditures (dollars) | Natural Gas Water-Heating Intensity (1000 cubic feet per household member) |      |  |                 |
|   |                     | Households (million) | (million Btu) | (kWh) |                        |  | Households (million) | (million Btu) | (1000 cubic feet) |                        |  |      |  |                 |
| Middle Atlantic Division                                  |                     | 30                   | 10.6          | 3,105 | 278                    | 1,143  | 7.8                  | 24.7          | 23.9              | 175                    | 8.9  | 4.2  |  |                 |
| <b>Climate Zone<sup>1</sup></b>                           |                     |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| Under 2,000 CDD and Over 5,500 HDD                        |                     | 2.4                  | 10.6          | 3,112 | 273                    | 1,149  | 3.8                  | 25.5          | 24.6              | 163                    | 9.4  | 6.3  |  |                 |
| Under 5,500 HDD and 2,000 CDD or More and Under 4,000 HDD |                     | .6                   | 10.5          | 3,078 | 298                    | 1,119  | 4.0                  | 24.0          | 23.3              | 186                    | 8.5  | 8.1  |  |                 |
| <b>Type of Housing Unit</b>                               |                     |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| Single-Family   |                     | 2.1                  | 11.4          | 3,345 | 300                    | 1,139  | 5.1                  | 25.4          | 24.5              | 171                    | 8.3  | 5.1  |  |                 |
| Mobile Home   |                     | Q                    | 9.1           | 2,658 | Q                      | 989  | NC                   | NC            | NC                | NC                     | NC   | 18.3 |  |                 |
| Multifamily (2 or more units)                             |                     | .6                   | 8.5           | 2,493 | 243                    | 1,308  | 2.7                  | 23.5          | 22.8              | 181                    | 10.5   | 12.7 |  |                 |
| <b>Heated Floorspace (square feet)</b>                    |                     |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| Fewer than 1,000  |                     | .8                   | 8.6           | 2,533 | 236                    | 1,131  | 1.7                  | 21.4          | 20.7              | 160                    | 11.5   | 11.0 |  |                 |
| 1,000 to 1,999  |                     | 1.2                  | 10.6          | 3,114 | 274                    | 1,142  | 3.1                  | 24.6          | 23.8              | 174                    | 8.7  | 4.7  |  |                 |
| 2,000 or More   |                     | 1.0                  | 12.2          | 3,566 | 317                    | 1,151  | 3.0                  | 26.7          | 25.8              | 183                    | 8.4  | 7.7  |  |                 |
| <b>Ownership of Unit</b>                                  |                     |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| Owned   |                     | 2.2                  | 11.2          | 3,272 | 285                    | 1,133  | 5.3                  | 25.8          | 25.0              | 178                    | 8.8  | 4.3  |  |                 |
| Rented  |                     | .8                   | 9.0           | 2,631 | 257                    | 1,182  | 2.5                  | 22.4          | 21.7              | 166                    | 9.3  | 9.5  |  |                 |
| <b>Year of Construction</b>                               |                     |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| 1949 or Before  |                     | .9                   | 11.8          | 3,452 | 327                    | 1,061  | 4.3                  | 24.6          | 23.8              | 178                    | 8.5  | 7.3  |  |                 |
| 1950 to 1979  |                     | 1.3                  | 10.1          | 2,962 | 258                    | 1,213  | 3.3                  | 25.2          | 24.3              | 170                    | 9.6  | 8.1  |  |                 |
| 1980 or After <sup>2</sup>                                |                     | .8                   | 10.1          | 2,960 | 256                    | 1,147  | Q                    | Q             | Q                 | Q                      | Q  | 7.1  |  |                 |
| <b>1990 Family Income</b>                                 |                     |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| Less than \$10,000  |                     | .3                   | 6.4           | 1,862 | 184                    | 821  | 1.1                  | 19.9          | 19.2              | 144                    | 9.5  | 13.8 |  |                 |
| \$10,000 to \$19,999                                      |                     | .5                   | 8.8           | 2,593 | 216                    | 1,151  | 1.5                  | 20.7          | 20.1              | 148                    | 9.4  | 12.1 |  |                 |
| \$20,000 to \$34,999                                      |                     | 1.0                  | 11.2          | 3,277 | 293                    | 1,172  | 1.5                  | 24.1          | 23.3              | 171                    | 8.3  | 7.7  |  |                 |
| \$35,000 or More  |                     | 1.1                  | 11.9          | 3,499 | 317                    | 1,177  | 3.6                  | 28.2          | 27.3              | 197                    | 8.9  | 5.9  |  |                 |
| <b>Below Poverty Line</b>                                 |                     |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| 100 Percent   |                     | .3                   | 7.7           | 2,263 | 218                    | 702  | .9                   | 24.4          | 23.6              | 178                    | 8.8  | 15.3 |  |                 |
| 125 Percent   |                     | .4                   | 9.9           | 2,915 | 270                    | 866  | 1.2                  | 23.7          | 22.9              | 171                    | 8.9  | 14.5 |  |                 |
| <b>Age of Householder</b>                                 |                     |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| Under 35 Years  |                     | 1.0                  | 11.5          | 3,380 | 322                    | 992  | 2.1                  | 26.9          | 26.0              | 195                    | 8.9  | 8.0  |  |                 |
| 35 to 59 Years  |                     | 1.4                  | 11.7          | 3,441 | 299                    | 1,230  | 3.4                  | 27.0          | 26.1              | 186                    | 8.7  | 6.3  |  |                 |
| 60 Years and Over   |                     | .7                   | 7.0           | 2,053 | 173                    | 1,291  | 2.3                  | 19.5          | 18.9              | 140                    | 9.6  | 7.4  |  |                 |
| <b>Household Size</b>                                     |                     |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| 1 Person  |                     | .8                   | 5.8           | 1,694 | 144                    | 1,694  | 1.6                  | 13.8          | 13.4              | 100                    | 13.4   | 7.5  |  |                 |
| 2 to 4 Persons  |                     | 1.8                  | 11.4          | 3,338 | 301                    | 1,166  | 5.2                  | 26.4          | 25.6              | 185                    | 9.5  | 4.2  |  |                 |
| 5 or More Persons   |                     | .4                   | 16.3          | 4,776 | 430                    | 887  | .9                   | 34.3          | 33.2              | 244                    | 6.1  | 9.1  |  |                 |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.  
<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 NF = No applicable RSE row/column factor.

.. = Not applicable.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, E, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**NORTHEAST**

**WATER-HEATING CONSUMPTION/EXPENDITURES**

Table 24. Fuel Oil and LPG Consumption and Expenditures for Main Water Heating, per Northeast Region Household, 1990

| Characteristics                        | Fuel Oil             |               |           |                        | Liquefied Petroleum Gas   |                      |               |           | RSE Row Factors |  |                        |
|--|----------------------|---------------|-----------|------------------------|---|----------------------|---------------|-----------|-----------------|--|------------------------|
|  | Households (million) | Consumption   |           | Expenditures (dollars) | Fuel Oil Water-Heating Intensity (gallons per household member) | Households (million) | Consumption   |           |                 | LPG Water-Heating Intensity (gallons per household member) |                        |
|  |                      | (million Btu) | (gallons) |                        |   |                      | (million Btu) | (gallons) |                 |  | Expenditures (dollars) |
|  |                      |               |           |                        |   |                      |               |           |                 |  |                        |
| 1.0                                    | NF                   | NF            | NF        | NF                     | 3.4   | NF                   | NF            | NF        |                 |  |                        |
| <b>Northeast Region</b>                |                      |               |           |                        |   |                      |               |           |                 |  |                        |
| <b>Total Region</b> .....              | 4.9                  | 21.7          | 158       | 164                    | 61  | 0.3                  | 18.4          | 201       | 260             | 66   | 6.8                    |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |           |                        |   |                      |               |           |                 |  |                        |
| Under 2,000 HDD and                    |                      |               |           |                        |   |                      |               |           |                 |  |                        |
| Over 5,500 HDD .....                   | 2.6                  | 20.9          | 152       | 164                    | 60  | .3                   | 18.4          | 201       | 260             | 66   | 9.0                    |
| Under 5,500 HDD .....                  | 2.3                  | 22.6          | 166       | 163                    | 62  | NC                   | NC            | NC        | NC              | NC   | 11.8                   |
| 2,000 HDD or More and                  |                      |               |           |                        |   |                      |               |           |                 |  |                        |
| Under 4,000 HDD .....                  | NC                   | NC            | NC        | NC                     | NC  | NC                   | NC            | NC        | NC              | NC   | NC                     |
| <b>Type of Housing Unit</b>            |                      |               |           |                        |   |                      |               |           |                 |  |                        |
| Single-Family .....                    | 2.8                  | 23.1          | 167       | 188                    | 58  | .3                   | 16.8          | 184       | 240             | 61   | 8.1                    |
| Mobile Home .....                      | NC                   | NC            | NC        | NC                     | NC  | Q                    | Q             | Q         | Q               | Q  | NF                     |
| Multifamily (2 or more units) ..       | 2.1                  | 19.7          | 146       | 130                    | 67  | Q                    | Q             | Q         | Q               | Q  | 10.9                   |
| <b>Heated Floorspace (square feet)</b> |                      |               |           |                        |   |                      |               |           |                 |  |                        |
| Fewer than 1,000 .....                 | 1.5                  | 17.5          | 129       | 119                    | 69  | Q                    | Q             | Q         | Q               | Q  | 15.9                   |
| 1,000 to 1,999 .....                   | 1.5                  | 23.6          | 171       | 182                    | 61  | Q                    | Q             | Q         | Q               | Q  | 14.6                   |
| 2,000 or More .....                    | 2.0                  | 23.4          | 170       | 183                    | 56  | .2                   | 15.9          | 174       | 246             | 59   | 11.8                   |
| <b>Ownership of Unit</b>               |                      |               |           |                        |   |                      |               |           |                 |  |                        |
| Owned .....                            | 3.3                  | 22.4          | 163       | 177                    | 59  | .3                   | 18.4          | 201       | 260             | 66   | 7.2                    |
| Rented .....                           | 1.6                  | 20.3          | 150       | 137                    | 65  | Q                    | Q             | Q         | Q               | Q  | 12.9                   |
| <b>Year of Construction</b>            |                      |               |           |                        |   |                      |               |           |                 |  |                        |
| 1949 or Before .....                   | 2.1                  | 19.2          | 141       | 141                    | 57  | .2                   | 16.9          | 185       | 260             | 64   | 8.4                    |
| 1950 to 1979 .....                     | 2.7                  | 23.6          | 172       | 181                    | 65  | Q                    | Q             | Q         | Q               | Q  | 8.7                    |
| 1980 or After <sup>2</sup> .....       | .2                   | 22.1          | 160       | 170                    | 47  | Q                    | Q             | Q         | Q               | Q  | 26.6                   |
| <b>1990 Family Income</b>              |                      |               |           |                        |   |                      |               |           |                 |  |                        |
| Less than \$10,000 .....               | .9                   | 15.7          | 115       | 109                    | 61  | Q                    | Q             | Q         | Q               | Q  | 22.7                   |
| \$10,000 to \$19,999 .....             | .7                   | 18.1          | 133       | 123                    | 70  | Q                    | Q             | Q         | Q               | Q  | 12.0                   |
| \$20,000 to \$34,999 .....             | 1.1                  | 24.5          | 179       | 185                    | 63  | Q                    | Q             | Q         | Q               | Q  | 14.9                   |
| \$35,000 or More .....                 | 2.2                  | 23.9          | 174       | 188                    | 58  | .2                   | 19.4          | 212       | 274             | 61   | 10.3                   |
| <b>Below Poverty Line</b>              |                      |               |           |                        |   |                      |               |           |                 |  |                        |
| 100 Percent .....                      | .6                   | 19.3          | 142       | 134                    | 62  | Q                    | Q             | Q         | Q               | Q  | 25.9                   |
| 125 Percent .....                      | .9                   | 18.3          | 134       | 126                    | 59  | Q                    | Q             | Q         | Q               | Q  | 20.9                   |
| <b>Age of Householder</b>              |                      |               |           |                        |   |                      |               |           |                 |  |                        |
| Under 35 Years .....                   | 1.2                  | 24.0          | 176       | 176                    | 61  | Q                    | Q             | Q         | Q               | Q  | 11.1                   |
| 35 to 59 Years .....                   | 2.1                  | 25.5          | 185       | 195                    | 60  | Q                    | Q             | Q         | Q               | Q  | 7.1                    |
| 60 Years and Over .....                | 1.6                  | 15.1          | 110       | 113                    | 63  | Q                    | Q             | Q         | Q               | Q  | 11.7                   |
| <b>Household Size</b>                  |                      |               |           |                        |   |                      |               |           |                 |  |                        |
| 1 Person .....                         | 1.3                  | 12.8          | 94        | 91                     | 94  | Q                    | Q             | Q         | Q               | Q  | 19.3                   |
| 2 to 4 Persons .....                   | 3.1                  | 23.4          | 170       | 177                    | 61  | .2                   | 18.5          | 203       | 250             | 73   | 6.4                    |
| 5 or More Persons .....                | .5                   | 33.9          | 247       | 265                    | 44  | Q                    | Q             | Q         | Q               | Q  | 10.7                   |

See footnotes at end of table.

**Table 24. Fuel Oil and LPG Consumption and Expenditures for Main Water Heating, per Northeast Region Household, 1990 (Continued)**

| Characteristics     | Fuel Oil             |               |           |                        |   | Liquefied Petroleum Gas |               |           |                        |  | RSE Flow Factors |
|---------------------|----------------------|---------------|-----------|------------------------|---|-------------------------|---------------|-----------|------------------------|--|------------------|
|                     | Households (million) | Consumption   |           | Expenditures (dollars) | Fuel Oil Water-Heating Intensity (gallons per household member) | Households (million)    | Consumption   |           | Expenditures (dollars) | LPG Water-Heating Intensity (gallons per household member) |                  |
|                     |                      | (million Btu) | (gallons) |                        |   |                         | (million Btu) | (gallons) |                        |  |                  |
| RSE Column Factors: | 1.0                  | NF            | NF        | NF                     | NF  | 3.4                     | NF            | NF        | NF                     | NF   |                  |

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|   |     |      |     |     |    |     |      |     |     |    |      |
|---|-----|------|-----|-----|----|-----|------|-----|-----|----|------|
| <b>Average Fuel Oil Expenditures (dollars per gallon)</b> |     |      |     |     |    |     |      |     |     |    |      |
| Less than 95 .....  | 1.6 | 18.0 | 133 | 100 | 61 | --  | --   | --  | --  | -- | 11.2 |
| 95 to Less than 1.10 .....                                | 1.9 | 22.5 | 165 | 177 | 60 | --  | --   | --  | --  | -- | 9.5  |
| 1.10 or More .....  | 1.4 | 24.7 | 178 | 214 | 63 | --  | --   | --  | --  | -- | 11.0 |
| <b>Average LPG Expenditures (dollars per gallon)</b>      |     |      |     |     |    |     |      |     |     |    |      |
| Less than 75 .....  | --  | --   | --  | --  | -- | Q   | Q    | Q   | Q   | Q  | NF   |
| 75 to Less than 1.00 .....                                | --  | --   | --  | --  | -- | Q   | Q    | Q   | Q   | Q  | NF   |
| 1.00 or More .....  | --  | --   | --  | --  | -- | 0.3 | 16.9 | 185 | 264 | 65 | 9.3  |
| <b>Water Heater Used</b>                                  |     |      |     |     |    |     |      |     |     |    |      |
| For One Housing Unit .....                                | 3.0 | 23.1 | 167 | 188 | 58 | .3  | 18.6 | 203 | 263 | 65 | 7.8  |
| For Two or More Units .....                               | 1.9 | 19.5 | 145 | 126 | 67 | Q   | Q    | Q   | Q   | Q  | 12.9 |
| <b>Age of Water Heater</b>                                |     |      |     |     |    |     |      |     |     |    |      |
| Less than 5 Years .....                                   | .5  | 22.2 | 161 | 178 | 61 | .2  | 21.3 | 233 | 295 | 60 | 12.6 |
| 5 to 9 Years .....  | .3  | 26.5 | 192 | 223 | 50 | Q   | Q    | Q   | Q   | Q  | 24.6 |
| 10 to 19 Years .....                                      | .4  | 23.2 | 168 | 191 | 54 | Q   | Q    | Q   | Q   | Q  | 25.2 |
| 20 Years or More .....                                    | .6  | 23.0 | 167 | 197 | 73 | Q   | Q    | Q   | Q   | Q  | 18.1 |
| Don't Know .....  | .1  | 30.2 | 220 | 244 | 44 | NC  | NC   | NC  | NC  | NC | 40.6 |
| <b>Size of Water Heater</b>                               |     |      |     |     |    |     |      |     |     |    |      |
| 30 gallons or less .....                                  | .3  | 20.0 | 145 | 164 | 55 | Q   | Q    | Q   | Q   | Q  | 31.5 |
| 31 to 49 gallons .....                                    | .9  | 23.7 | 172 | 193 | 53 | .1  | 18.4 | 201 | 270 | 47 | 10.9 |
| 50 gallons or more .....                                  | .4  | 29.5 | 213 | 253 | 77 | NC  | NC   | NC  | NC  | NC | 30.2 |
| Don't Know .....  | .3  | 21.0 | 152 | 173 | 52 | Q   | Q    | Q   | Q   | Q  | 25.0 |
| <b>Location of Water Heater</b>                           |     |      |     |     |    |     |      |     |     |    |      |
| Heated Area .....   | 1.2 | 23.4 | 170 | 194 | 58 | .2  | 18.1 | 198 | 267 | 61 | 13.0 |
| Unheated Area .....                                       | .7  | 24.6 | 178 | 205 | 58 | Q   | Q    | Q   | Q   | Q  | 16.1 |
| <b>Clothes Washer Present in Household</b>                |     |      |     |     |    |     |      |     |     |    |      |
| Yes .....   | 3.1 | 23.6 | 171 | 190 | 57 | .3  | 18.5 | 202 | 261 | 67 | 7.2  |
| No .....  | 1.8 | 18.4 | 136 | 118 | 70 | Q   | Q    | Q   | Q   | Q  | 13.5 |
| <b>Dishwasher Present in Household</b>                    |     |      |     |     |    |     |      |     |     |    |      |
| Yes .....   | 2.0 | 24.2 | 176 | 193 | 61 | Q   | Q    | Q   | Q   | Q  | 11.5 |
| No .....  | 2.9 | 20.0 | 147 | 144 | 61 | .2  | 15.8 | 173 | 224 | 68 | 9.7  |
| <b>Children Present in Household</b>                      |     |      |     |     |    |     |      |     |     |    |      |
| No .....  | 3.1 | 18.2 | 133 | 136 | 75 | .2  | 13.6 | 149 | 233 | 94 | 7.8  |
| Yes .....   | 1.8 | 27.6 | 201 | 209 | 50 | .1  | 24.0 | 263 | 292 | 55 | 8.7  |
| <b>(more than one may apply)</b>                          |     |      |     |     |    |     |      |     |     |    |      |
| Under 13 Years .....                                      | 1.5 | 26.4 | 193 | 197 | 47 | .1  | 24.0 | 263 | 292 | 55 | 10.6 |
| 13 to 18 Years .....                                      | .7  | 33.3 | 242 | 255 | 57 | Q   | Q    | Q   | Q   | Q  | 10.8 |

See footnotes at end of table.

WATER-HEATING CONSUMPTION/EXPENDITURES

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Table 24. Fuel Oil and LPG Consumption and Expenditures for Main Water Heating, per Northeast Region Household, 1990 (Continued)

| Characteristics                        | Fuel Oil             |               |           |                        | Liquefied Petroleum Gas   |                      |               |           | RSE Row Factors |                        |      |
|--|----------------------|---------------|-----------|------------------------|---|----------------------|---------------|-----------|-----------------|------------------------|------|
|  | Households (million) | Consumption   |           | Expenditures (dollars) | Fuel Oil Water-Heating Intensity (gallons per household member) | Households (million) | Consumption   |           |                 | Expenditures (dollars) |      |
|  |                      | (million Btu) | (gallons) |                        |   |                      | (million Btu) | (gallons) |                 |                        |      |
|  |                      |               |           |                        |   |                      |               |           |                 |                        | (NF) |
| 1.0                                    | NF                   | NF            | NF        | NF                     | 3.4   | NF                   | NF            | NF        |                 |                        |      |
| <b>RSE Column Factors:</b>             |                      |               |           |                        |   |                      |               |           |                 |                        |      |
| <b>New England Division</b>            | 1.2                  | 21.0          | 153       | 165                    | 61  | 0.2                  | 16.3          | 178       | 247             | 78                     | 8.7  |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |           |                        |   |                      |               |           |                 |                        |      |
| Under 2,000 HDD and Over 5,500 HDD     | 1.2                  | 21.0          | 153       | 165                    | 61  | .2                   | 16.3          | 178       | 247             | 78                     | 8.6  |
| Under 5,500 HDD                        | Q                    | Q             | Q         | Q                      | Q   | NC                   | NC            | NC        | NC              | NC                     | NF   |
| 2,000 HDD or More and Under 4,000 HDD  | NC                   | NC            | NC        | NC                     | NC  | NC                   | NC            | NC        | NC              | NC                     | NC   |
| <b>Type of Housing Unit</b>            |                      |               |           |                        |   |                      |               |           |                 |                        |      |
| Single-Family                          | .9                   | 21.9          | 158       | 172                    | 57  | .1                   | 15.7          | 172       | 235             | 74                     | 10.7 |
| Mobile Home                            | NC                   | NC            | NC        | NC                     | NC  | Q                    | Q             | Q         | Q               | Q                      | NF   |
| Multifamily (2 or more units)          | .4                   | 19.0          | 139       | 149                    | 73  | Q                    | Q             | Q         | Q               | Q                      | 16.7 |
| <b>Heated Floorspace (square feet)</b> |                      |               |           |                        |   |                      |               |           |                 |                        |      |
| Fewer than 1,000                       | .3                   | 17.3          | 127       | 136                    | 63  | Q                    | Q             | Q         | Q               | Q                      | 23.4 |
| 1,000 to 1,999                         | .4                   | 22.6          | 164       | 181                    | 66  | Q                    | Q             | Q         | Q               | Q                      | 12.2 |
| 2,000 or More                          | .5                   | 22.0          | 160       | 171                    | 56  | Q                    | Q             | Q         | Q               | Q                      | 13.2 |
| <b>Ownership of Unit</b>               |                      |               |           |                        |   |                      |               |           |                 |                        |      |
| Owned                                  | .9                   | 21.5          | 156       | 169                    | 58  | .2                   | 15.9          | 174       | 240             | 75                     | 10.3 |
| Rented                                 | .4                   | 20.0          | 147       | 158                    | 68  | Q                    | Q             | Q         | Q               | Q                      | 21.3 |
| <b>Year of Construction</b>            |                      |               |           |                        |   |                      |               |           |                 |                        |      |
| 1949 or Before                         | .6                   | 19.5          | 142       | 155                    | 64  | .1                   | 17.6          | 192       | 265             | 84                     | 9.9  |
| 1950 to 1979                           | .5                   | 22.1          | 161       | 174                    | 60  | Q                    | Q             | Q         | Q               | Q                      | 15.5 |
| 1980 or After <sup>2</sup>             | Q                    | Q             | Q         | Q                      | Q   | Q                    | Q             | Q         | Q               | Q                      | NF   |
| <b>1990 Family Income</b>              |                      |               |           |                        |   |                      |               |           |                 |                        |      |
| Less than \$10,000                     | .3                   | 14.2          | 104       | 110                    | 73  | Q                    | Q             | Q         | Q               | Q                      | 27.1 |
| \$10,000 to \$19,999                   | .2                   | 17.0          | 123       | 136                    | 63  | Q                    | Q             | Q         | Q               | Q                      | 27.0 |
| \$20,000 to \$34,999                   | .3                   | 23.1          | 168       | 180                    | 56  | Q                    | Q             | Q         | Q               | Q                      | 22.4 |
| \$35,000 or More                       | .5                   | 24.8          | 180       | 196                    | 60  | Q                    | Q             | Q         | Q               | Q                      | 15.2 |
| <b>Below Poverty Line</b>              |                      |               |           |                        |   |                      |               |           |                 |                        |      |
| 100 Percent                            | .2                   | 19.0          | 139       | 150                    | 69  | Q                    | Q             | Q         | Q               | Q                      | 30.2 |
| 125 Percent                            | .3                   | 17.3          | 126       | 136                    | 61  | Q                    | Q             | Q         | Q               | Q                      | 27.6 |
| <b>Age of Householder</b>              |                      |               |           |                        |   |                      |               |           |                 |                        |      |
| Under 35 Years                         | .3                   | 23.8          | 174       | 188                    | 60  | Q                    | Q             | Q         | Q               | Q                      | 15.5 |
| 35 to 59 Years                         | .5                   | 24.7          | 179       | 193                    | 59  | Q                    | Q             | Q         | Q               | Q                      | 11.5 |
| 60 Years and Over                      | .4                   | 14.9          | 108       | 120                    | 64  | Q                    | Q             | Q         | Q               | Q                      | 14.1 |
| <b>Household Size</b>                  |                      |               |           |                        |   |                      |               |           |                 |                        |      |
| 1 Person                               | .4                   | 12.4          | 91        | 98                     | 91  | Q                    | Q             | Q         | Q               | Q                      | 16.3 |
| 2 to 4 Persons                         | .8                   | 24.1          | 175       | 190                    | 61  | Q                    | Q             | Q         | Q               | Q                      | 9.0  |
| 5 or More Persons                      | Q                    | Q             | Q         | Q                      | Q   | Q                    | Q             | Q         | Q               | Q                      | NF   |

See footnotes at end of table.

**Table 24. Fuel Oil and LPG Consumption and Expenditures for Main Water Heating, per Northeast Region Household, 1990 (Continued)**

| Characteristics                        | Fuel Oil             |               |           |                        |   | Liquefied Petroleum Gas |               |           |                        |  | RSE Row Factors |
|--|----------------------|---------------|-----------|------------------------|---|-------------------------|---------------|-----------|------------------------|--|-----------------|
|  | Households (million) | Consumption   |           | Expenditures (dollars) | Fuel Oil Water-Heating Intensity (gallons per household member) | Households (million)    | Consumption   |           | Expenditures (dollars) | LPG Water-Heating Intensity (gallons per household member) |                 |
|  |                      | (million Btu) | (gallons) |                        |   |                         | (million Btu) | (gallons) |                        |  |                 |
| RSE Column Factors:                    | 1.0                  | NF            | NF        | NF                     | NF  | 3.4                     | NF            | NF        | NF                     | NF   |                 |
| Middle Atlantic Division               | 3.7                  | 22.0          | 160       | 163                    | 61  | Q                       | Q             | Q         | Q                      | Q  | 7.6             |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |           |                        |   |                         |               |           |                        |  |                 |
| Under 2,000 HDD                        |                      |               |           |                        |   |                         |               |           |                        |  |                 |
| Over 5,500 HDD                         | 1.4                  | 20.9          | 151       | 163                    | 59  | Q                       | Q             | Q         | Q                      | Q  | 19.4            |
| Under 5,500 HDD                        | 2.3                  | 22.6          | 166       | 163                    | 62  | NC                      | NC            | NC        | NC                     | NC   | 11.8            |
| 2,000 CDD or More and Under 4,000 HDD  | NC                   | NC            | NC        | NC                     | NC  | NC                      | NC            | NC        | NC                     | NC   | NC              |
| <b>Type of Housing Unit</b>            |                      |               |           |                        |   |                         |               |           |                        |  |                 |
| Single-Family                          | 2.0                  | 23.7          | 171       | 195                    | 58  | Q                       | Q             | Q         | Q                      | Q  | 9.9             |
| Mobile Home                            | NC                   | NC            | NC        | NC                     | NC  | Q                       | Q             | Q         | Q                      | Q  | NF              |
| Multifamily (2 or more units)          | 1.7                  | 19.9          | 147       | 125                    | 66  | Q                       | Q             | Q         | Q                      | Q  | 12.7            |
| <b>Heated Floorspace (square feet)</b> |                      |               |           |                        |   |                         |               |           |                        |  |                 |
| Fewer than 1,000                       | 1.1                  | 17.6          | 130       | 114                    | 71  | Q                       | Q             | Q         | Q                      | Q  | 20.6            |
| 1,000 to 1,999                         | 1.1                  | 23.9          | 174       | 183                    | 60  | Q                       | Q             | Q         | Q                      | Q  | 19.7            |
| 2,000 or More                          | 1.4                  | 23.9          | 174       | 187                    | 56  | Q                       | Q             | Q         | Q                      | Q  | 16.4            |
| <b>Ownership of Unit</b>               |                      |               |           |                        |   |                         |               |           |                        |  |                 |
| Owned                                  | 2.4                  | 22.8          | 165       | 180                    | 59  | Q                       | Q             | Q         | Q                      | Q  | 8.2             |
| Rented                                 | 1.2                  | 20.4          | 151       | 130                    | 64  | Q                       | Q             | Q         | Q                      | Q  | 15.6            |
| <b>Year of Construction</b>            |                      |               |           |                        |   |                         |               |           |                        |  |                 |
| 1949 or Before                         | 1.5                  | 19.1          | 140       | 135                    | 54  | Q                       | Q             | Q         | Q                      | Q  | 11.9            |
| 1950 to 1979                           | 2.1                  | 24.0          | 175       | 182                    | 66  | Q                       | Q             | Q         | Q                      | Q  | 10.1            |
| 1980 or After <sup>2</sup>             | Q                    | Q             | Q         | Q                      | Q   | Q                       | Q             | Q         | Q                      | Q  | NF              |
| <b>1990 Family Income</b>              |                      |               |           |                        |   |                         |               |           |                        |  |                 |
| Less than \$10,000                     | .6                   | 16.3          | 120       | 108                    | 58  | Q                       | Q             | Q         | Q                      | Q  | 28.8            |
| \$10,000 to \$19,999                   | .5                   | 18.5          | 136       | 118                    | 72  | Q                       | Q             | Q         | Q                      | Q  | 12.9            |
| \$20,000 to \$34,999                   | .9                   | 24.9          | 182       | 186                    | 65  | Q                       | Q             | Q         | Q                      | Q  | 19.2            |
| \$35,000 or More                       | 1.7                  | 23.6          | 172       | 186                    | 57  | Q                       | Q             | Q         | Q                      | Q  | 12.9            |
| <b>Below Poverty Line</b>              |                      |               |           |                        |   |                         |               |           |                        |  |                 |
| 100 Percent                            | .4                   | 19.5          | 144       | 128                    | 59  | Q                       | Q             | Q         | Q                      | Q  | 37.0            |
| 125 Percent                            | .6                   | 18.7          | 137       | 122                    | 58  | Q                       | Q             | Q         | Q                      | Q  | 27.1            |
| <b>Age of Householder</b>              |                      |               |           |                        |   |                         |               |           |                        |  |                 |
| Under 35 Years                         | .9                   | 24.0          | 176       | 172                    | 61  | Q                       | Q             | Q         | Q                      | Q  | 13.3            |
| 35 to 59 Years                         | 1.6                  | 25.7          | 187       | 196                    | 60  | Q                       | Q             | Q         | Q                      | Q  | 8.6             |
| 60 Years and Over                      | 1.2                  | 15.1          | 110       | 111                    | 62  | Q                       | Q             | Q         | Q                      | Q  | 15.6            |
| <b>Household Size</b>                  |                      |               |           |                        |   |                         |               |           |                        |  |                 |
| 1 Person                               | .9                   | 13.0          | 95        | 88                     | 95  | Q                       | Q             | Q         | Q                      | Q  | 26.5            |
| 2 to 4 Persons                         | 2.4                  | 23.1          | 169       | 173                    | 61  | Q                       | Q             | Q         | Q                      | Q  | 6.6             |
| 5 or More Persons                      | .4                   | 34.9          | 254       | 271                    | 45  | Q                       | Q             | Q         | Q                      | Q  | 11.3            |

1 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

2 Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

-- = Not applicable.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 25. Total Consumption and Expenditures for Appliances in Northeast Region Households, 1990

| Characteristics                             | Electricity          |                |       |                                | Natural Gas          |                |                      |                                | Liquefied Petroleum Gas |                |                   |                                | RSE Row Factors |
|---|----------------------|----------------|-------|--------------------------------|----------------------|----------------|----------------------|--------------------------------|-------------------------|----------------|-------------------|--------------------------------|-----------------|
|   | Households (million) | Consumed       |       | Expenditures (billion dollars) | Households (million) | Consumed       |                      | Expenditures (billion dollars) | Households (million)    | Consumed       |                   | Expenditures (billion dollars) |                 |
|   |                      | (trillion Btu) | (kWh) |                                |                      | (trillion Btu) | (billion cubic feet) |                                |                         | (trillion Btu) | (billion gallons) |                                |                 |
|   |                      |                |       |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 0.5   | NF                   | NF             | NF    | 0.9                            | NF                   | NF             | NF                   | 1.8                            | NF                      | NF             | NF                |                                |                 |
| <b>Total Region</b> .....                   | 19.2                 | 264.4          | 77.5  | 8.40                           | 9.8                  | 78.0           | 75                   | 0.68                           | 1.1                     | 5.6            | 0.06              | 0.10                           | 7.1             |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |       |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 12.3                 | 183.8          | 53.9  | 5.43                           | 4.6                  | 36.9           | 36                   | .27                            | 1.1                     | 5.5            | .06               | .10                            | 10.7            |
| Under 5,500 HDD and 2,000 CDD or More ..... | 6.9                  | 80.7           | 23.6  | 2.97                           | 5.3                  | 41.1           | 40                   | .41                            | Q                       | Q              | Q                 | Q                              | 14.8            |
| Under 4,000 HDD .....                       | NC                   | NC             | NC    | NC                             | NC                   | NC             | NC                   | NC                             | NC                      | NC             | NC                | NC                             | NC              |
| <b>Type of Housing Unit</b>                 |                      |                |       |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Single-Family .....                         | 11.9                 | 205.2          | 60.2  | 6.38                           | 5.1                  | 47.7           | 46                   | .36                            | .8                      | 4.0            | .04               | .07                            | 10.5            |
| Mobile Home .....                           | .5                   | 7.0            | 2.0   | .17                            | Q                    | Q              | Q                    | Q                              | .2                      | 1.0            | .01               | .02                            | 40.2            |
| Multifamily (2 or more units) ..            | 6.8                  | 52.2           | 15.3  | 1.84                           | 4.8                  | 30.1           | 29                   | .32                            | Q                       | Q              | Q                 | Q                              | 9.5             |
| <b>Heated Floorspace (square feet)</b>      |                      |                |       |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Fewer than 1,000 .....                      | 5.1                  | 36.0           | 10.6  | 1.19                           | 2.9                  | 16.0           | 15                   | .17                            | .3                      | 1.4            | .02               | .03                            | 15.4            |
| 1,000 to 1,999 .....                        | 7.1                  | 95.6           | 28.0  | 2.97                           | 3.8                  | 31.9           | 31                   | .26                            | .5                      | 2.4            | .03               | .04                            | 10.5            |
| 2,000 or More .....                         | 7.0                  | 132.8          | 38.9  | 4.25                           | 3.2                  | 30.1           | 29                   | .26                            | .3                      | 1.8            | .02               | .03                            | 13.8            |
| <b>Ownership of Unit</b>                    |                      |                |       |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Owned .....                                 | 13.0                 | 214.2          | 62.8  | 6.74                           | 5.8                  | 53.5           | 52                   | .43                            | 1.0                     | 5.0            | .05               | .09                            | 8.3             |
| Rented .....                                | 6.2                  | 50.3           | 14.7  | 1.66                           | 4.0                  | 24.5           | 24                   | .25                            | Q                       | Q              | Q                 | Q                              | 9.8             |
| <b>Year of Construction</b>                 |                      |                |       |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 1949 or Before .....                        | 8.9                  | 109.7          | 32.2  | 3.57                           | 5.7                  | 43.4           | 42                   | .41                            | .5                      | 2.8            | .03               | .05                            | 10.1            |
| 1950 to 1979 .....                          | 8.8                  | 129.9          | 38.1  | 4.15                           | 3.9                  | 33.6           | 32                   | .26                            | .4                      | 1.8            | .02               | .03                            | 12.3            |
| 1980 or After <sup>2</sup> .....            | 1.6                  | 24.8           | 7.3   | .68                            | Q                    | Q              | Q                    | Q                              | .2                      | 1.0            | .01               | .02                            | 25.8            |
| <b>1990 Family Income</b>                   |                      |                |       |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Less than \$10,000 .....                    | 2.9                  | 21.2           | 6.2   | .69                            | 1.7                  | 11.7           | 11                   | .13                            | Q                       | Q              | Q                 | Q                              | 19.0            |
| \$10,000 to \$19,999 .....                  | 3.4                  | 31.7           | 9.3   | 1.00                           | 2.0                  | 12.9           | 12                   | .12                            | Q                       | Q              | Q                 | Q                              | 14.9            |
| \$20,000 to \$34,999 .....                  | 4.5                  | 59.8           | 17.5  | 1.85                           | 2.1                  | 16.6           | 16                   | .14                            | .3                      | 1.7            | .02               | .03                            | 13.8            |
| \$35,000 or More .....                      | 8.5                  | 151.7          | 44.5  | 4.86                           | 4.0                  | 36.9           | 36                   | .30                            | .5                      | 2.9            | .03               | .05                            | 10.3            |
| <b>Below Poverty Line</b>                   |                      |                |       |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 100 Percent .....                           | 2.2                  | 18.9           | 5.5   | .63                            | 1.5                  | 10.6           | 10                   | .11                            | Q                       | Q              | Q                 | Q                              | 23.8            |
| 125 Percent .....                           | 3.0                  | 27.6           | 8.1   | .90                            | 1.9                  | 14.1           | 14                   | .15                            | Q                       | Q              | Q                 | Q                              | 16.3            |
| <b>Age of Householder</b>                   |                      |                |       |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Under 35 Years .....                        | 5.3                  | 63.8           | 18.7  | 2.06                           | 2.8                  | 21.4           | 21                   | .19                            | .3                      | 1.9            | .02               | .03                            | 14.8            |
| 35 to 59 Years .....                        | 8.3                  | 141.8          | 41.6  | 4.45                           | 4.1                  | 35.4           | 34                   | .30                            | .5                      | 2.5            | .03               | .04                            | 10.9            |
| 60 Years and Over .....                     | 5.6                  | 58.8           | 17.2  | 1.89                           | 3.0                  | 21.2           | 21                   | .19                            | .3                      | 1.2            | .01               | .03                            | 10.6            |
| <b>Household Size</b>                       |                      |                |       |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 1 Person .....                              | 4.5                  | 30.3           | 8.9   | .96                            | 2.2                  | 10.6           | 10                   | .11                            | .2                      | .8             | .01               | .01                            | 13.8            |
| 2 to 4 Persons .....                        | 12.5                 | 187.1          | 54.8  | 5.94                           | 6.5                  | 54.2           | 52                   | .46                            | .8                      | 4.3            | .05               | .08                            | 6.9             |
| 5 or More Persons .....                     | 2.2                  | 47.0           | 13.8  | 1.50                           | 1.2                  | 13.3           | 13                   | .10                            | Q                       | Q              | Q                 | Q                              | 17.1            |

See footnotes at end of table.

**Table 25. Total Consumption and Expenditures for Appliances in Northeast Region Households, 1990 (Continued)**

| Characteristics                             | Electricity          |                |               |                                | Natural Gas          |                |                      |                                | Liquefied Petroleum Gas |                |                   |                                |                  |
|---|----------------------|----------------|---------------|--------------------------------|----------------------|----------------|----------------------|--------------------------------|-------------------------|----------------|-------------------|--------------------------------|------------------|
|   | Households (million) | Consumed       |               | Expenditures (billion dollars) | Households (million) | Consumed       |                      | Expenditures (billion dollars) | Households (million)    | Consumed       |                   | Expenditures (billion dollars) |                  |
|   |                      | (trillion Btu) | (billion kWh) |                                |                      | (trillion Btu) | (billion cubic feet) |                                |                         | (trillion Btu) | (billion gallons) |                                |                  |
| RSE Column Factors:                         | 0.5                  | NF             | NF            | NF                             | 0.9                  | NF             | NF                   | NF                             | 1.8                     | NF             | NF                | NF                             | RSE Flow Factors |
| <b>New England Division</b> .....           | 4.5                  | 58.5           | 17.2          | 1.75                           | 1.4                  | 10.0           | 10                   | 0.09                           | 0.5                     | 2.8            | 0.03              | 0.05                           | -3.3             |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                  |
| Under 2,000 CDD and Over 5,500 HDD .....    | 4.5                  | 58.3           | 17.1          | 1.74                           | 1.4                  | 10.0           | 10                   | .09                            | .5                      | 2.8            | .03               | .05                            | 13.3             |
| Under 5,500 HDD .....                       | Q                    | Q              | Q             | Q                              | NC                   | NC             | NC                   | NC                             | NC                      | NC             | NC                | NC                             | NF               |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                   | NC             | NC            | NC                             | NC                   | NC             | NC                   | NC                             | NC                      | NC             | NC                | NC                             | NC               |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                  |
| Single-Family .....                         | 2.5                  | 41.1           | 12.1          | 1.22                           | .5                   | 3.9            | 4                    | .03                            | .4                      | 2.1            | .02               | .04                            | 18.5             |
| Mobile Home .....                           | .2                   | 1.9            | .5            | .06                            | NC                   | NC             | 6                    | NC                             | .1                      | .5             | .01               | Q                              | 31.5             |
| Multifamily (2 or more units) ..            | 1.9                  | 15.6           | 4.6           | .47                            | .9                   | 6.1            | 6                    | .06                            | Q                       | Q              | Q                 | Q                              | 19.6             |
| <b>Heated Floorspace (square feet)</b>      |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                  |
| Fewer than 1,000 .....                      | 1.4                  | 11.4           | 3.3           | .35                            | .5                   | 3.1            | 3                    | .03                            | .2                      | .9             | .01               | .02                            | 19.2             |
| 1,000 to 1,999 .....                        | 1.6                  | 22.8           | 6.7           | .67                            | .6                   | 4.4            | 4                    | .04                            | .2                      | .8             | .01               | .01                            | 20.3             |
| 2,000 or More .....                         | 1.5                  | 24.3           | 7.1           | .73                            | .4                   | 2.5            | 2                    | .02                            | .2                      | 1.1            | .01               | .02                            | 14.7             |
| <b>Ownership of Unit</b>                    |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                  |
| Owned .....                                 | 2.9                  | 43.6           | 12.8          | 1.30                           | .7                   | 4.8            | 5                    | .04                            | .4                      | 2.5            | .03               | .05                            | 18.4             |
| Rented .....                                | 1.7                  | 15.0           | 4.4           | .45                            | .7                   | 5.2            | 5                    | .05                            | Q                       | Q              | Q                 | Q                              | 16.1             |
| <b>Year of Construction</b>                 |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                  |
| 1949 or Before .....                        | 2.1                  | 23.3           | 6.8           | .69                            | 1.0                  | 7.1            | 7                    | .07                            | .2                      | 1.5            | .02               | .03                            | 20.6             |
| 1950 to 1979 .....                          | 1.9                  | 27.0           | 7.9           | .82                            | .4                   | 2.7            | 3                    | .02                            | .2                      | 1.0            | .01               | .02                            | 25.2             |
| 1980 or After <sup>2</sup> .....            | .6                   | 8.2            | 2.4           | .24                            | Q                    | Q              | Q                    | Q                              | Q                       | Q              | Q                 | Q                              | 58.7             |
| <b>1990 Family Income</b>                   |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                  |
| Less than \$10,000 .....                    | .8                   | 6.4            | 1.9           | .19                            | .2                   | 1.8            | 2                    | .02                            | Q                       | Q              | Q                 | Q                              | 24.0             |
| \$10,000 to \$19,999 .....                  | .8                   | 7.6            | 2.2           | .23                            | .3                   | 2.4            | 2                    | .02                            | Q                       | Q              | Q                 | Q                              | 25.0             |
| \$20,000 to \$34,999 .....                  | 1.1                  | 13.8           | 4.1           | .42                            | .4                   | 2.3            | 2                    | .02                            | .2                      | .9             | .01               | .02                            | 21.2             |
| \$35,000 or More .....                      | 1.9                  | 30.8           | 9.0           | .90                            | .5                   | 3.5            | 3                    | .03                            | .2                      | 1.4            | .02               | .03                            | 21.5             |
| <b>Below Poverty Line</b>                   |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                  |
| 100 Percent .....                           | .6                   | 5.9            | 1.7           | .18                            | .2                   | 2.1            | 2                    | .02                            | Q                       | Q              | Q                 | Q                              | 19.0             |
| 125 Percent .....                           | .8                   | 7.7            | 2.3           | .23                            | .3                   | 2.3            | 2                    | .02                            | Q                       | Q              | Q                 | Q                              | 18.9             |
| <b>Age of Householder</b>                   |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                  |
| Under 35 Years .....                        | 1.3                  | 15.0           | 4.4           | .45                            | .4                   | 4.0            | 4                    | .04                            | Q                       | Q              | Q                 | Q                              | 17.3             |
| 35 to 59 Years .....                        | 1.9                  | 28.9           | 8.5           | .87                            | .5                   | 3.5            | 3                    | .03                            | .3                      | 1.3            | .01               | .02                            | 17.0             |
| 60 Years and Over .....                     | 1.4                  | 14.6           | 4.3           | .43                            | .5                   | 2.5            | 2                    | .02                            | .1                      | .6             | .01               | .01                            | 26.3             |
| <b>Household Size</b>                       |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                  |
| 1 Person .....                              | 1.2                  | 8.8            | 2.6           | .27                            | .3                   | 1.4            | 1                    | .02                            | Q                       | Q              | Q                 | Q                              | 28.7             |
| 2 to 4 Persons .....                        | 3.0                  | 43.4           | 12.7          | 1.29                           | .9                   | 6.8            | 7                    | .06                            | .4                      | 2.3            | .03               | .04                            | 14.3             |
| 5 or More Persons .....                     | .4                   | 6.3            | 1.9           | .19                            | .2                   | 1.7            | 2                    | .02                            | Q                       | Q              | Q                 | Q                              | 27.5             |

See footnotes at end of table.

**NORTHEAST**



APPLIANCE CONSUMPTION/EXPENDITURES

NORTHEAST

Table 25. Total Consumption and Expenditures for Appliances in Northeast Region Households, 1990 (Continued)

| Characteristics                        | Electricity          |                |               |                                | Natural Gas          |                |                      |                                | Liquefied Petroleum Gas |                |                   |                                | RSE Row Factors |
|--|----------------------|----------------|---------------|--------------------------------|----------------------|----------------|----------------------|--------------------------------|-------------------------|----------------|-------------------|--------------------------------|-----------------|
|  | Households (million) | Consumed       |               | Expenditures (billion dollars) | Households (million) | Consumed       |                      | Expenditures (billion dollars) | Households (million)    | Consumed       |                   | Expenditures (billion dollars) |                 |
|  |                      | (trillion Btu) | (billion kWh) |                                |                      | (trillion Btu) | (billion cubic feet) |                                |                         | (trillion Btu) | (billion gallons) |                                |                 |
|  |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 0.5                                    | NF                   | NF             | 0.9           | NF                             | NF                   | NF             | 1.8                  | NF                             | NF                      | NF             |                   |                                |                 |
| RSE Column Factors:                    | 14.7                 | 205.9          | 60.3          | 6.65                           | 8.5                  | 68.0           | 66                   | 0.59                           | 0.6                     | 2.8            | 0.03              | 0.05                           | 8.8             |
| <b>Middle Atlantic Division</b>        |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| <b>Climate Zone<sup>1</sup></b>        |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Under 2,000 CDD and Over 5,500 HDD     | 7.8                  | 125.5          | 36.8          | 3.69                           | 3.2                  | 26.9           | 26                   | .18                            | .6                      | 2.8            | .03               | .05                            | 16.6            |
| Under 5,500 HDD and 2,000 CDD or More  | 6.9                  | 80.4           | 23.6          | 2.96                           | 5.3                  | 41.1           | 40                   | .41                            | Q                       | Q              | Q                 | Q                              | 14.8            |
| Under 4,000 HDD                        | NC                   | NC             | NC            | NC                             | NC                   | NC             | NC                   | NC                             | NC                      | NC             | NC                | NC                             | NC              |
| <b>Type of Housing Unit</b>            |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Single-Family                          | 9.3                  | 164.1          | 48.1          | 5.17                           | 4.6                  | 43.8           | 42                   | .32                            | .4                      | 1.9            | .02               | .03                            | 13.2            |
| Mobile Home                            | Q                    | Q              | Q             | .12                            | Q                    | Q              | Q                    | Q                              | Q                       | Q              | Q                 | Q                              | 84.3            |
| Multifamily (2 or more units)          | 5.0                  | 36.7           | 10.8          | 1.37                           | 3.9                  | 24.0           | 23                   | .27                            | Q                       | Q              | Q                 | Q                              | 12.1            |
| <b>Heated Floorspace (square feet)</b> |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Fewer than 1,000                       | 3.7                  | 24.7           | 7.2           | .84                            | 2.4                  | 12.9           | 13                   | .14                            | Q                       | Q              | Q                 | Q                              | 19.1            |
| 1,000 to 1,999                         | 5.4                  | 72.8           | 21.3          | 2.30                           | 3.2                  | 27.5           | 27                   | .22                            | .3                      | 1.6            | .02               | .03                            | 12.9            |
| 2,000 or More                          | 5.6                  | 108.5          | 31.8          | 3.52                           | 2.8                  | 27.6           | 27                   | .23                            | Q                       | Q              | Q                 | Q                              | 19.5            |
| <b>Ownership of Unit</b>               |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Owned                                  | 10.2                 | 170.6          | 50.0          | 5.44                           | 5.2                  | 48.7           | 47                   | .39                            | .5                      | 2.5            | .03               | .04                            | 10.5            |
| Rented                                 | 4.5                  | 35.3           | 10.3          | 1.21                           | 3.3                  | 19.3           | 19                   | .20                            | Q                       | Q              | Q                 | Q                              | 13.0            |
| <b>Year of Construction</b>            |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 1949 or Before                         | 6.8                  | 86.4           | 25.3          | 2.88                           | 4.7                  | 36.3           | 35                   | .35                            | .3                      | 1.3            | .01               | .02                            | 13.1            |
| 1950 to 1979                           | 6.9                  | 102.9          | 30.2          | 3.33                           | 3.6                  | 30.9           | 30                   | .24                            | .2                      | .8             | .01               | .02                            | 13.5            |
| 1980 or After <sup>2</sup>             | 1.0                  | 16.6           | 4.9           | .44                            | Q                    | Q              | Q                    | Q                              | Q                       | Q              | Q                 | Q                              | 39.5            |
| <b>1990 Family Income</b>              |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Less than \$10,000                     | 2.1                  | 14.8           | 4.4           | .50                            | 1.5                  | 9.9            | 10                   | .11                            | Q                       | Q              | Q                 | Q                              | 23.5            |
| \$10,000 to \$19,999                   | 2.6                  | 24.2           | 7.1           | .77                            | 1.7                  | 10.5           | 10                   | .10                            | Q                       | Q              | Q                 | Q                              | 17.9            |
| \$20,000 to \$34,999                   | 3.4                  | 46.0           | 13.5          | 1.42                           | 1.7                  | 14.3           | 14                   | .12                            | Q                       | Q              | Q                 | Q                              | 16.2            |
| \$35,000 or More                       | 6.6                  | 120.9          | 35.4          | 3.96                           | 3.6                  | 33.3           | 32                   | .27                            | .3                      | 1.5            | .02               | .03                            | 12.9            |
| <b>Below Poverty Line</b>              |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 100 Percent                            | 1.6                  | 13.1           | 3.8           | .45                            | 1.3                  | 8.5            | 8                    | .10                            | Q                       | Q              | Q                 | Q                              | 30.4            |
| 125 Percent                            | 2.2                  | 19.9           | 5.8           | .66                            | 1.7                  | 11.8           | 11                   | .13                            | Q                       | Q              | Q                 | Q                              | 20.0            |
| <b>Age of Householder</b>              |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Under 35 Years                         | 4.0                  | 48.8           | 14.3          | 1.61                           | 2.4                  | 17.4           | 17                   | .16                            | Q                       | Q              | Q                 | Q                              | 16.4            |
| 35 to 59 Years                         | 6.4                  | 112.9          | 33.1          | 3.59                           | 3.6                  | 31.9           | 31                   | .27                            | .2                      | 1.1            | .01               | .02                            | 13.3            |
| 60 Years and Over                      | 4.2                  | 44.2           | 13.0          | 1.45                           | 2.5                  | 18.7           | 18                   | .17                            | Q                       | Q              | Q                 | Q                              | 10.7            |
| <b>Household Size</b>                  |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 1 Person                               | 3.3                  | 21.5           | 6.3           | .70                            | 1.9                  | 9.1            | 9                    | .10                            | Q                       | Q              | Q                 | Q                              | 13.8            |
| 2 to 4 Persons                         | 9.5                  | 143.7          | 42.1          | 4.65                           | 5.5                  | 47.3           | 46                   | .41                            | .4                      | 2.0            | .02               | .04                            | 9.4             |
| 5 or More Persons                      | 1.8                  | 40.7           | 11.9          | 1.31                           | 1.0                  | 11.5           | 11                   | .09                            | Q                       | Q              | Q                 | Q                              | 19.7            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Appliances do not include refrigerators. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

APPLIANCE CONSUMPTION/EXPENDITURES

Table 26. Electricity Consumption and Expenditures for Appliances and Refrigerators, per Northeast Region Household, 1990

| Characteristics                             | Electricity Used for Appliances |               |       |                        | Electricity Used for Refrigerators |                                 |               |       | RSE Row Factors |                        |
|---|---------------------------------|---------------|-------|------------------------|------------------------------------|---------------------------------|---------------|-------|-----------------|------------------------|
|   | Households (million)            | Consumed      |       | Expenditures (dollars) | Households (million)               | Average Number of Refrigerators | Consumed      |       |                 | Expenditures (dollars) |
|   |                                 | (million Btu) | (kWh) |                        |                                    |                                 | (million Btu) | (kWh) |                 |                        |
| RSE Column Factors:                         | 1.5                             | NF            | NF    | NF                     | 1.5                                | 0.5                             | NF            | NF    | NF              |                        |
| Northeast Region                            |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Total Region .....                          | 19.2                            | 13.8          | 4,032 | 437                    | 19.1                               | 1.2                             | 4.4           | 1,300 | 146             | 2.7                    |
| <b>Climate Zone<sup>1</sup></b>             |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Under 2,000 CDD and Over 5,500 HDD .....    | 12.3                            | 14.9          | 4,368 | 440                    | 12.2                               | 1.2                             | 4.3           | 1,273 | 129             | 3.4                    |
| Under 5,500 HDD .....                       | 6.9                             | 11.7          | 3,430 | 431                    | 6.9                                | 1.1                             | 4.6           | 1,349 | 175             | 5.8                    |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                              | NC            | NC    | NC                     | NC                                 | NC                              | NC            | NC    | NC              | NC                     |
| <b>Type of Housing Unit</b>                 |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Single-Family .....                         | 11.9                            | 17.3          | 5,069 | 538                    | 11.8                               | 1.3                             | 5.1           | 1,484 | 160             | 2.9                    |
| Mobile Home .....                           | .5                              | 13.2          | 3,867 | 330                    | .5                                 | 1.0                             | 3.1           | 896   | 72              | 16.0                   |
| Multifamily (2 or more units) ..            | 6.8                             | 7.7           | 2,242 | 270                    | 6.7                                | 1.0                             | 3.4           | 1,009 | 126             | 3.6                    |
| <b>Heated Floorspace (square feet)</b>      |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Fewer than 1,000 .....                      | 5.1                             | 7.1           | 2,070 | 233                    | 5.0                                | 1.0                             | 3.1           | 903   | 106             | 5.1                    |
| 1,000 to 1,999 .....                        | 7.1                             | 13.5          | 3,961 | 419                    | 7.0                                | 1.1                             | 4.4           | 1,276 | 139             | 3.2                    |
| 2,000 or More .....                         | 7.0                             | 18.9          | 5,525 | 603                    | 7.0                                | 1.3                             | 5.5           | 1,610 | 181             | 4.0                    |
| <b>Overship of Unit</b>                     |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Owned .....                                 | 13.0                            | 16.4          | 4,815 | 517                    | 13.0                               | 1.2                             | 4.9           | 1,447 | 159             | 2.7                    |
| Rented .....                                | 6.2                             | 8.1           | 2,381 | 268                    | 6.1                                | 1.0                             | 3.4           | 986   | 116             | 3.9                    |
| <b>Year of Construction</b>                 |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1949 or Before .....                        | 8.9                             | 12.4          | 3,633 | 403                    | 8.8                                | 1.1                             | 4.2           | 1,233 | 144             | 3.6                    |
| 1950 to 1979 .....                          | 8.8                             | 14.8          | 4,341 | 473                    | 8.7                                | 1.2                             | 4.7           | 1,382 | 153             | 3.8                    |
| 1980 or After <sup>2</sup> .....            | 1.6                             | 15.5          | 4,544 | 425                    | 1.6                                | 1.2                             | 4.2           | 1,224 | 117             | 8.2                    |
| <b>1990 Family Income</b>                   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Less than \$10,000 .....                    | 2.9                             | 7.4           | 2,163 | 241                    | 2.8                                | 1.0                             | 3.5           | 1,014 | 116             | 5.0                    |
| \$10,000 to \$19,999 .....                  | 3.4                             | 9.5           | 2,777 | 299                    | 3.3                                | 1.1                             | 3.6           | 1,061 | 120             | 4.5                    |
| \$20,000 to \$34,999 .....                  | 4.5                             | 13.2          | 3,861 | 407                    | 4.5                                | 1.1                             | 4.2           | 1,227 | 133             | 4.7                    |
| \$35,000 or More .....                      | 8.5                             | 17.9          | 5,256 | 574                    | 8.5                                | 1.3                             | 5.2           | 1,529 | 172             | 3.2                    |
| <b>Below Poverty Line</b>                   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 100 Percent .....                           | 2.2                             | 8.5           | 2,498 | 283                    | 2.2                                | 1.0                             | 3.2           | 943   | 113             | 5.3                    |
| 125 Percent .....                           | 3.0                             | 9.1           | 2,679 | 296                    | 2.9                                | 1.0                             | 3.5           | 1,018 | 119             | 4.6                    |
| <b>Age of Householder</b>                   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Under 35 Years .....                        | 5.3                             | 12.1          | 3,549 | 391                    | 5.2                                | 1.1                             | 3.9           | 1,131 | 130             | 4.7                    |
| 35 to 59 Years .....                        | 8.3                             | 17.1          | 5,001 | 536                    | 8.3                                | 1.2                             | 4.8           | 1,404 | 156             | 3.2                    |
| 60 Years and Over .....                     | 5.6                             | 10.4          | 3,055 | 334                    | 5.6                                | 1.2                             | 4.4           | 1,304 | 146             | 4.5                    |
| <b>Household Size</b>                       |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1 Person .....                              | 4.5                             | 6.7           | 1,962 | 212                    | 4.5                                | 1.1                             | 3.5           | 1,024 | 116             | 3.9                    |
| 2 to 4 Persons .....                        | 12.5                            | 15.0          | 4,385 | 475                    | 12.4                               | 1.2                             | 4.7           | 1,366 | 153             | 2.3                    |
| 5 or More Persons .....                     | 2.2                             | 21.7          | 6,380 | 691                    | 2.2                                | 1.3                             | 5.1           | 1,484 | 167             | 6.8                    |

See footnotes at end of table.

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Table 26. Electricity Consumption and Expenditures for Appliances and Refrigerators, per Northeast Region Household, 1990 (Continued)

| Characteristics  | Electricity Used for Appliances |               |       |                        | Electricity Used for Refrigerators |                                 |               |       | RSE Row Factors |                        |
|--|---------------------------------|---------------|-------|------------------------|------------------------------------|---------------------------------|---------------|-------|-----------------|------------------------|
|  | Households (million)            | Consumed      |       | Expenditures (dollars) | Households (million)               | Average Number of Refrigerators | Consumed      |       |                 | Expenditures (dollars) |
|  |                                 | (million Btu) | (kWh) |                        |                                    |                                 | (million Btu) | (kWh) |                 |                        |
| RSE Column Factors:  | 1.5                             | NF            | NF    | NF                     | 1.5                                | 0.5                             | NF            | NF    | NF              |                        |
| Northeast Region   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| <b>Average Electricity Expenditures</b><br>(cents per kWh)           |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Less than 6  | Q                               | 18.5          | 5,415 | 290                    | --                                 | --                              | --            | --    | --              | 20.6                   |
| 6 to Less than 9   |                                 | 3.3           | 4,754 | 392                    |                                    |                                 |               |       |                 | 5.8                    |
| 9 or More  |                                 | 15.6          | 3,849 | 450                    |                                    |                                 |               |       |                 | 2.9                    |
| <b>Average Electric Refrigerator Expenditures</b><br>(cents per kWh) |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Less than 6  | --                              | --            | --    | --                     | Q                                  | 1.3                             | 5.6           | 1,644 | 90              | 23.2                   |
| 6 to Less than 9   | --                              | --            | --    | --                     | 3.3                                | 1.2                             | 4.5           | 1,318 | 108             | 5.8                    |
| 9 or More  | --                              | --            | --    | --                     | 15.4                               | 1.2                             | 4.4           | 1,289 | 155             | 2.9                    |
| <b>Appliances Present in Household (more than one may apply)</b>     |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Separate Freezer   | 5.0                             | 21.3          | 6,240 | 641                    | 5.0                                | 1.3                             | 4.9           | 1,425 | 147             | 4.1                    |
| Dishwasher   | 8.0                             | 18.8          | 5,518 | 595                    | 8.0                                | 1.3                             | 5.4           | 1,574 | 173             | 3.5                    |
| Clothes Washer   | 14.4                            | 16.4          | 4,817 | 515                    | 14.3                               | 1.2                             | 4.9           | 1,425 | 156             | 2.7                    |
| Clothes Dryer  | 9.1                             | 18.7          | 5,473 | 569                    | 9.1                                | 1.3                             | 4.9           | 1,436 | 151             | 3.8                    |
| Waterbed Heater  | 2.0                             | 22.8          | 6,692 | 655                    | 2.0                                | 1.2                             | 5.0           | 1,469 | 143             | 6.1                    |
| Swimming-Pool Pump   | 1.5                             | 26.9          | 7,895 | 816                    | 1.5                                | 1.5                             | 6.2           | 1,823 | 192             | 6.2                    |
| Hot-Tub or Spa Pump  | .4                              | 29.1          | 8,541 | 985                    | .4                                 | 1.4                             | 6.8           | 1,992 | 232             | 20.5                   |
| Hot-Tub or Spa Heater  | 2                               | 27.5          | 8,068 | 861                    | 2                                  | 1.4                             | 5.3           | 1,543 | 163             | 22.3                   |
| Well Pump  | 3.4                             | 19.8          | 5,811 | 581                    | 3.4                                | 1.3                             | 4.4           | 1,302 | 130             | 5.4                    |
| <b>Appliance Combinations</b>  |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Dishwasher, Clothes Washer, and Clothes Dryer                        | 5.5                             | 20.9          | 6,134 | 650                    | 5.5                                | 1.3                             | 5.3           | 1,555 | 167             | 4.9                    |
| With   | 4.1                             | 5.5           | 1,621 | 194                    | 4.1                                | 1.0                             | 3.1           | 922   | 114             | 5.4                    |
| Without  |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Well Pump and Separate Freezer                                       | 1.8                             | 23.0          | 6,729 | 665                    | 1.8                                | 1.3                             | 4.4           | 1,291 | 126             | 6.3                    |
| With   | 12.6                            | 10.4          | 3,059 | 349                    | 12.5                               | 1.1                             | 4.3           | 1,248 | 146             | 2.7                    |
| Without  |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| <b>Main Heating Fuel</b>   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Natural Gas  | 8.7                             | 13.3          | 3,900 | 437                    | 8.7                                | 1.2                             | 4.7           | 1,366 | 158             | 4.4                    |
| Electricity  | 2.0                             | 12.8          | 3,785 | 330                    | 2.0                                | 1.2                             | 4.2           | 1,239 | 111             | 8.3                    |
| Fuel Oil or Kerosene   | 7.7                             | 14.1          | 4,137 | 457                    | 7.7                                | 1.2                             | 4.3           | 1,265 | 144             | 4.9                    |
| Wood   | 5                               | 18.4          | 5,406 | 516                    | 5                                  | 1.1                             | 3.6           | 1,047 | 99              | 13.8                   |
| LPG  | 2                               | 17.8          | 5,204 | 560                    | 2                                  | 1.1                             | 3.3           | 960   | 109             | 22.3                   |
| Other  | Q                               | Q             | Q     | Q                      | Q                                  | Q                               | Q             | Q     | Q               | NF                     |
| <b>Number of Refrigerators</b>                                       |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1  | 15.9                            | 12.6          | 3,682 | 401                    | 15.9                               | 1.0                             | 3.8           | 1,106 | 126             | 2.0                    |
| 2 or More  | 3.2                             | 19.8          | 5,789 | 616                    | 3.2                                | 2.0                             | 7.7           | 2,254 | 242             | 5.1                    |

See footnotes at end of table.

**Table 26. Electricity Consumption and Expenditures for Appliances and Refrigerators, per Northeast Region Household, 1990 (Continued)**

| Characteristics                             | Electricity Used for Appliances |               |       |                        | Electricity Used for Refrigerators |                                 |               |       | RSE Row Factors |                        |
|---|---------------------------------|---------------|-------|------------------------|------------------------------------|---------------------------------|---------------|-------|-----------------|------------------------|
|   | Households (million)            | Consumed      |       | Expenditures (dollars) | Households (million)               | Average Number of Refrigerators | Consumed      |       |                 | Expenditures (dollars) |
|   |                                 | (million Btu) | (kWh) |                        |                                    |                                 | (million Btu) | (kWh) |                 |                        |
| RSE Column Factors:                         | 1.5                             | NF            | NF    | NF                     | 1.5                                | 0.5                             | NF            | NF    | NF              |                        |
| <b>New England Division</b> .....           | 4.5                             | 12.9          | 3,776 | 385                    | 4.5                                | 1.1                             | 3.8           | 1,126 | 115             | 3.8                    |
| <b>Climate Zone<sup>1</sup></b>             |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Under 2,000 CDD and Over 5,500 HDD .....    | 4.5                             | 12.9          | 3,772 | 385                    | 4.5                                | 1.1                             | 3.8           | 1,125 | 115             | 3.8                    |
| Under 5,500 HDD .....                       | Q                               | Q             | Q     | Q                      | Q                                  | Q                               | Q             | Q     | Q               | NF                     |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                              | NC            | NC    | NC                     | NC                                 | NC                              | NC            | NC    | NC              | NC                     |
| <b>Type of Housing Unit</b>                 |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Single-Family .....                         | 2.5                             | 16.2          | 4,760 | 481                    | 2.5                                | 1.2                             | 4.4           | 1,282 | 130             | 4.7                    |
| Mobile Home .....                           | .2                              | 12.2          | 3,575 | 386                    | .2                                 | 1.0                             | 2.5           | 724   | 77              | 15.8                   |
| Multifamily (2 or more units) ..            | 1.9                             | 8.4           | 2,452 | 254                    | 1.8                                | 1.0                             | 3.2           | 942   | 98              | 5.4                    |
| <b>Heated Floorspace (square feet)</b>      |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Fewer than 1,000 .....                      | 1.4                             | 7.9           | 2,302 | 242                    | 1.4                                | 1.0                             | 3.0           | 871   | 92              | 4.6                    |
| 1,000 to 1,999 .....                        | 1.6                             | 14.0          | 4,090 | 409                    | 1.6                                | 1.1                             | 3.9           | 1,157 | 117             | 6.2                    |
| 2,000 or More .....                         | 1.5                             | 16.7          | 4,883 | 500                    | 1.5                                | 1.3                             | 4.6           | 1,336 | 137             | 5.7                    |
| <b>Ownership of Unit</b>                    |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Owned .....                                 | 2.9                             | 15.1          | 4,434 | 451                    | 2.9                                | 1.2                             | 4.1           | 1,213 | 124             | 4.8                    |
| Rented .....                                | 1.7                             | 9.0           | 2,636 | 271                    | 1.6                                | 1.0                             | 3.3           | 970   | 100             | 5.1                    |
| <b>Year of Construction</b>                 |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1949 or Before .....                        | 2.1                             | 11.2          | 3,280 | 332                    | 2.0                                | 1.1                             | 3.8           | 1,106 | 112             | 5.6                    |
| 1950 to 1979 .....                          | 1.9                             | 14.1          | 4,145 | 430                    | 1.9                                | 1.2                             | 4.1           | 1,206 | 126             | 5.6                    |
| 1980 or After <sup>2</sup> .....            | .6                              | 14.9          | 4,373 | 430                    | .6                                 | 1.1                             | 3.1           | 922   | 90              | 11.4                   |
| <b>1990 Family Income</b>                   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Less than \$10,000 .....                    | .8                              | 8.2           | 2,393 | 245                    | .7                                 | 1.0                             | 3.5           | 1,031 | 104             | 7.3                    |
| \$10,000 to \$19,999 .....                  | .8                              | 9.9           | 2,898 | 304                    | .8                                 | 1.1                             | 3.6           | 1,050 | 111             | 10.1                   |
| \$20,000 to \$34,999 .....                  | 1.1                             | 12.2          | 3,582 | 373                    | 1.1                                | 1.1                             | 3.5           | 1,030 | 108             | 7.7                    |
| \$35,000 or More .....                      | 1.9                             | 16.5          | 4,833 | 484                    | 1.9                                | 1.2                             | 4.3           | 1,252 | 126             | 5.8                    |
| <b>Below Poverty Line</b>                   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 100 Percent .....                           | .6                              | 10.0          | 2,940 | 304                    | .6                                 | 1.0                             | 3.5           | 1,023 | 105             | 7.4                    |
| 125 Percent .....                           | .8                              | 9.7           | 2,850 | 295                    | .8                                 | 1.0                             | 3.5           | 1,037 | 106             | 6.3                    |
| <b>Age of Householder</b>                   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Under 35 Years .....                        | 1.3                             | 12.0          | 3,505 | 358                    | 1.2                                | 1.0                             | 3.4           | 997   | 103             | 5.2                    |
| 36 to 59 Years .....                        | 1.9                             | 15.5          | 4,539 | 464                    | 1.9                                | 1.1                             | 4.0           | 1,165 | 120             | 5.2                    |
| 60 Years and Over .....                     | 1.4                             | 10.3          | 3,013 | 306                    | 1.4                                | 1.2                             | 4.1           | 1,187 | 120             | 6.4                    |
| <b>Household Size</b>                       |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1 Person .....                              | 1.2                             | 7.2           | 2,100 | 217                    | 1.2                                | 1.1                             | 3.4           | 997   | 104             | 6.7                    |
| 2 to 4 Persons .....                        | 3.0                             | 14.7          | 4,299 | 437                    | 2.9                                | 1.2                             | 4.1           | 1,192 | 121             | 4.7                    |
| 5 or More Persons .....                     | .4                              | 17.6          | 5,168 | 532                    | .4                                 | 1.1                             | 3.5           | 1,012 | 104             | 7.2                    |

See footnotes at end of table.

Table 26. Electricity Consumption and Expenditures for Appliances and Refrigerators, per Northeast Region Household, 1990 (Continued)

| Characteristics                             | Electricity Used for Appliances |               |       |                        | Electricity Used for Refrigerators |                                 |               |       | RSE Row Factors |                        |
|---|---------------------------------|---------------|-------|------------------------|------------------------------------|---------------------------------|---------------|-------|-----------------|------------------------|
|   | Households (million)            | Consumed      |       | Expenditures (dollars) | Households (million)               | Average Number of Refrigerators | Consumed      |       |                 | Expenditures (dollars) |
|   |                                 | (million Btu) | (kWh) |                        |                                    |                                 | (million Btu) | (kWh) |                 |                        |
| RSE Column Factors:                         | 1.5                             | NF            | NF    | NF                     | 1.5                                | 0.5                             | NF            | NF    | NF              |                        |
| <b>Middle Atlantic Division</b> .....       | 14.7                            | 14.0          | 4,111 | 453                    | 14.6                               | 1.2                             | 4.6           | 1,354 | 155             | 2.5                    |
| <b>Climate Zone<sup>1</sup></b>             |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Under 2,000 CDD and Over 5,500 HDD .....    | 7.8                             | 16.1          | 4,714 | 472                    | 7.7                                | 1.2                             | 4.6           | 1,359 | 137             | 4.8                    |
| Under 5,500 HDD .....                       | 6.9                             | 11.7          | 3,427 | 431                    | 6.9                                | 1.1                             | 4.6           | 1,349 | 175             | 5.8                    |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                              | NC            | NC    | NC                     | NC                                 | NC                              | NC            | NC    | NC              | NC                     |
| <b>Type of Housing Unit</b>                 |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Single-Family .....                         | 9.3                             | 17.6          | 5,153 | 553                    | 9.3                                | 1.3                             | 5.3           | 1,539 | 169             | 3.4                    |
| Mobile Home .....                           | Q                               | 13.6          | 3,985 | Q                      | Q                                  | 1.0                             | 3.3           | 965   | 69              | 18.8                   |
| Multifamily (2 or more units) ..            | 5.0                             | 7.4           | 2,164 | 276                    | 4.9                                | 1.1                             | 3.5           | 1,034 | 136             | 4.7                    |
| <b>Heated Floorspace (square feet)</b>      |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Fewer than 1,000 .....                      | 3.7                             | 6.7           | 1,978 | 229                    | 3.6                                | 1.0                             | 3.1           | 915   | 112             | 6.7                    |
| 1,000 to 1,999 .....                        | 5.4                             | 13.4          | 3,922 | 422                    | 5.4                                | 1.2                             | 4.5           | 1,312 | 146             | 3.8                    |
| 2,000 or More .....                         | 5.6                             | 19.4          | 5,693 | 630                    | 5.6                                | 1.3                             | 5.7           | 1,682 | 192             | 4.7                    |
| <b>Ownership of Unit</b>                    |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Owned .....                                 | 10.2                            | 16.8          | 4,923 | 536                    | 10.2                               | 1.3                             | 5.2           | 1,513 | 169             | 3.1                    |
| Rented .....                                | 4.5                             | 7.8           | 2,287 | 267                    | 4.4                                | 1.0                             | 3.4           | 991   | 122             | 4.7                    |
| <b>Year of Construction</b>                 |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1949 or Before .....                        | 6.8                             | 12.8          | 3,741 | 425                    | 6.7                                | 1.1                             | 4.3           | 1,271 | 153             | 4.4                    |
| 1950 to 1979 .....                          | 6.9                             | 15.0          | 4,396 | 485                    | 6.8                                | 1.2                             | 4.9           | 1,432 | 160             | 4.6                    |
| 1980 or After <sup>2</sup> .....            | 1.0                             | 15.8          | 4,634 | 422                    | 1.0                                | 1.3                             | 4.7           | 1,382 | 131             | 10.6                   |
| <b>1990 Family Income</b>                   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Less than \$10,000 .....                    | 2.1                             | 7.1           | 2,077 | 240                    | 2.1                                | 1.1                             | 3.4           | 1,008 | 121             | 6.2                    |
| \$10,000 to \$19,999 .....                  | 2.6                             | 9.4           | 2,741 | 298                    | 2.5                                | 1.1                             | 3.6           | 1,064 | 123             | 5.0                    |
| \$20,000 to \$34,999 .....                  | 3.4                             | 13.5          | 3,954 | 418                    | 3.4                                | 1.2                             | 4.4           | 1,293 | 141             | 5.8                    |
| \$35,000 or More .....                      | 6.6                             | 18.3          | 5,375 | 600                    | 6.6                                | 1.3                             | 5.5           | 1,607 | 185             | 3.6                    |
| <b>Below Poverty Line</b>                   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 100 Percent .....                           | 1.6                             | 8.0           | 2,341 | 276                    | 1.6                                | 1.0                             | 3.1           | 914   | 115             | 5.8                    |
| 125 Percent .....                           | 2.2                             | 8.9           | 2,618 | 297                    | 2.2                                | 1.1                             | 3.5           | 1,011 | 124             | 6.1                    |
| <b>Age of Householder</b>                   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Under 35 Years .....                        | 4.0                             | 12.2          | 3,563 | 402                    | 3.9                                | 1.1                             | 4.0           | 1,173 | 138             | 5.9                    |
| 35 to 59 Years .....                        | 6.4                             | 17.5          | 5,136 | 557                    | 6.4                                | 1.2                             | 5.0           | 1,473 | 166             | 3.7                    |
| 60 Years and Over .....                     | 4.2                             | 10.5          | 3,069 | 344                    | 4.2                                | 1.2                             | 4.6           | 1,343 | 155             | 5.7                    |
| <b>Household Size</b>                       |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1 Person .....                              | 3.3                             | 6.5           | 1,898 | 210                    | 3.3                                | 1.1                             | 3.5           | 1,034 | 120             | 4.9                    |
| 2 to 4 Persons .....                        | 9.5                             | 15.1          | 4,411 | 487                    | 9.5                                | 1.2                             | 4.8           | 1,421 | 162             | 2.6                    |
| 5 or More Persons .....                     | 1.8                             | 22.5          | 6,598 | 723                    | 1.8                                | 1.3                             | 5.4           | 1,590 | 180             | 7.8                    |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

-- = Not applicable.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 27. Natural Gas and LPG Consumption and Expenditures for Appliances, per Northeast Region Household, 1990**

| Characteristics                             | Natural Gas          |               |                   |                        | Liquefied Petroleum Gas |               |           |                        | RSE Row Factors |
|---|----------------------|---------------|-------------------|------------------------|-------------------------|---------------|-----------|------------------------|-----------------|
|   | Households (million) | Consumed      |                   | Expenditures (dollars) | Households (million)    | Consumed      |           | Expenditures (dollars) |                 |
|   |                      | (million Btu) | (1000 cubic feet) |                        |                         | (million Btu) | (gallons) |                        |                 |
| RSE Column Factors:                         | 1.1                  | NE            | NE                | NE                     | 2.0                     | NE            | NE        | NE                     |                 |
| <b>Northeast Region</b>                     |                      |               |                   |                        |                         |               |           |                        |                 |
| <b>Total Region</b> .....                   | 9.8                  | 7.9           | 7.7               | 69                     | 1.1                     | 5.1           | 56        | 92                     | 7.0             |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 4.6                  | 8.1           | 7.8               | 59                     | 1.1                     | 5.1           | 56        | 92                     | 9.2             |
| Under 5,500 HDD and 2,000 CDD or More ..... | 5.3                  | 7.8           | 7.5               | 78                     | Q                       | Q             | Q         | Q                      | 6.7             |
| Under 4,000 HDD .....                       | NC                   | NC            | NC                | NC                     | NC                      | NC            | NC        | NC                     | NC              |
| <b>Type of Housing Unit</b>                 |                      |               |                   |                        |                         |               |           |                        |                 |
| Single-Family .....                         | 5.1                  | 9.4           | 9.1               | 70                     | .8                      | 5.2           | 57        | 94                     | 9.9             |
| Mobile Home .....                           | Q                    | Q             | Q                 | Q                      | .2                      | 5.0           | 55        | 85                     | 25.1            |
| Multifamily (2 or more units) ..            | 4.8                  | 6.3           | 6.1               | 68                     | Q                       | Q             | Q         | Q                      | 6.5             |
| <b>Heated Floor/space (square feet)</b>     |                      |               |                   |                        |                         |               |           |                        |                 |
| Fewer than 1,000 .....                      | 2.9                  | 5.6           | 5.4               | 58                     | .3                      | 4.6           | 50        | 89                     | 11.4            |
| 1,000 to 1,999 .....                        | 3.8                  | 8.4           | 8.1               | 68                     | .5                      | 4.8           | 53        | 81                     | 10.1            |
| 2,000 or More .....                         | 3.2                  | 9.4           | 9.1               | 80                     | .3                      | 6.1           | 67        | 112                    | 12.1            |
| <b>Ownership of Unit</b>                    |                      |               |                   |                        |                         |               |           |                        |                 |
| Owned .....                                 | 5.8                  | 9.2           | 8.9               | 74                     | 1.0                     | 5.1           | 56        | 92                     | 7.9             |
| Rented .....                                | 4.0                  | 6.1           | 5.9               | 62                     | Q                       | Q             | Q         | Q                      | 7.9             |
| <b>Year of Construction</b>                 |                      |               |                   |                        |                         |               |           |                        |                 |
| 1949 or Before .....                        | 5.7                  | 7.6           | 7.3               | 72                     | .5                      | 5.5           | 60        | 102                    | 9.2             |
| 1950 to 1979 .....                          | 3.9                  | 8.5           | 8.3               | 66                     | .4                      | 4.5           | 49        | 81                     | 12.6            |
| 1980 or After <sup>2</sup> .....            | Q                    | Q             | Q                 | Q                      | .2                      | 5.3           | 58        | 85                     | 22.2            |
| <b>1990 Family Income</b>                   |                      |               |                   |                        |                         |               |           |                        |                 |
| Less than \$10,000 .....                    | 1.7                  | 6.7           | 6.5               | 74                     | Q                       | Q             | Q         | Q                      | 17.4            |
| \$10,000 to \$19,999 .....                  | 2.0                  | 6.3           | 6.1               | 57                     | Q                       | Q             | Q         | Q                      | 8.1             |
| \$20,000 to \$34,999 .....                  | 2.1                  | 8.0           | 7.8               | 68                     | .3                      | 4.9           | 54        | 87                     | 15.0            |
| \$35,000 or More .....                      | 4.0                  | 9.2           | 8.9               | 74                     | .5                      | 5.6           | 62        | 100                    | 10.1            |
| <b>Below Poverty Line</b>                   |                      |               |                   |                        |                         |               |           |                        |                 |
| 100 Percent .....                           | 1.5                  | 7.1           | 6.9               | 76                     | Q                       | Q             | Q         | Q                      | 14.6            |
| 125 Percent .....                           | 1.9                  | 7.3           | 7.1               | 77                     | Q                       | Q             | Q         | Q                      | 13.6            |
| <b>Age of Householder</b>                   |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 35 Years .....                        | 2.8                  | 7.7           | 7.4               | 70                     | .3                      | 6.0           | 65        | 102                    | 10.5            |
| 35 to 59 Years .....                        | 4.1                  | 8.6           | 8.3               | 72                     | .5                      | 5.1           | 56        | 89                     | 11.5            |
| 60 Years and Over .....                     | 3.0                  | 7.2           | 6.9               | 65                     | .3                      | 4.2           | 46        | 85                     | 11.5            |
| <b>Household Size</b>                       |                      |               |                   |                        |                         |               |           |                        |                 |
| 1 Person .....                              | 2.2                  | 4.8           | 4.7               | 52                     | .2                      | 3.8           | 42        | 70                     | 15.8            |
| 2 to 4 Persons .....                        | 6.5                  | 8.3           | 8.1               | 71                     | .8                      | 5.1           | 56        | 95                     | 8.0             |
| 5 or More Persons .....                     | 1.2                  | 11.4          | 11.0              | 89                     | Q                       | Q             | Q         | Q                      | 12.5            |

See footnotes at end of table.

**NORTHEAST**

**APPLIANCE CONSUMPTION/EXPENDITURES**

Table 27. Natural Gas and LPG Consumption and Expenditures for Appliances, per Northeast Region Household, 1990 (Continued)

| Characteristics                        | Natural Gas          |               |                   |                        | Liquefied Petroleum Gas |               |           |                        | RSE Row Factors |
|--|----------------------|---------------|-------------------|------------------------|-------------------------|---------------|-----------|------------------------|-----------------|
|  | Households (million) | Consumed      |                   | Expenditures (dollars) | Households (million)    | Consumed      |           | Expenditures (dollars) |                 |
|  |                      | (million Btu) | (1000 cubic feet) |                        |                         | (million Btu) | (gallons) |                        |                 |
|  |                      |               |                   |                        |                         |               |           |                        |                 |
| RSE Column Factors:                    | 1.1                  | NF            | NF                | 2.0                    | NF                      | NF            | NF        | NF                     |                 |
| <b>New England Division</b> .....      | 1.4                  | 7.2           | 7.0               | 0.5                    | 5.4                     | 59            | 98        | 11.5                   |                 |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 2,000 HDD .....                  | 1.4                  | 7.2           | 7.0               | .5                     | 5.4                     | 59            | 98        | 11.5                   |                 |
| Over 2,000 HDD .....                   | NC                   | NC            | NC                | NC                     | NC                      | NC            | NC        | NC                     |                 |
| Under 5,500 HDD .....                  | NC                   | NC            | NC                | NC                     | NC                      | NC            | NC        | NC                     |                 |
| Over 5,500 HDD .....                   | NC                   | NC            | NC                | NC                     | NC                      | NC            | NC        | NC                     |                 |
| <b>Type of Housing Unit</b>            |                      |               |                   |                        |                         |               |           |                        |                 |
| Single-Family .....                    | .5                   | 7.6           | 7.3               | .4                     | 5.9                     | 64            | 107       | 18.9                   |                 |
| Mobile Home .....                      | NC                   | NC            | NC                | .1                     | 4.6                     | 51            | 90        | 13.2                   |                 |
| Multifamily (2 or more units) ..       | .9                   | 7.0           | 6.8               | Q                      | Q                       | Q             | Q         | 18.8                   |                 |
| <b>Heated Floorspace (square feet)</b> |                      |               |                   |                        |                         |               |           |                        |                 |
| Fewer than 1,000 .....                 | .5                   | 6.5           | 6.3               | .2                     | 5.0                     | 55            | 97        | 16.1                   |                 |
| 1,000 to 1,999 .....                   | .6                   | 7.9           | 7.6               | .2                     | 4.8                     | 53            | 82        | 19.6                   |                 |
| 2,000 or More .....                    | .4                   | 7.1           | 6.8               | .2                     | 6.2                     | 67            | 115       | 20.6                   |                 |
| <b>Ownership of Unit</b>               |                      |               |                   |                        |                         |               |           |                        |                 |
| Owned .....                            | .7                   | 7.2           | 6.9               | .4                     | 5.6                     | 61            | 103       | 16.1                   |                 |
| Rented .....                           | .7                   | 7.2           | 7.0               | Q                      | Q                       | Q             | Q         | 19.5                   |                 |
| <b>Year of Construction</b>            |                      |               |                   |                        |                         |               |           |                        |                 |
| 1949 or Before .....                   | 1.0                  | 7.1           | 6.9               | .2                     | 6.2                     | 68            | 115       | 18.3                   |                 |
| 1950 to 1979 .....                     | .4                   | 7.7           | 7.4               | .2                     | 5.9                     | 64            | 102       | 23.0                   |                 |
| 1980 or After <sup>2</sup> .....       | Q                    | Q             | Q                 | Q                      | Q                       | Q             | Q         | NF                     |                 |
| <b>1990 Family Income</b>              |                      |               |                   |                        |                         |               |           |                        |                 |
| Less than \$10,000 .....               | .2                   | 7.7           | 7.5               | Q                      | Q                       | Q             | Q         | 16.0                   |                 |
| \$10,000 to \$19,999 .....             | .3                   | 6.9           | 6.6               | Q                      | Q                       | Q             | Q         | 14.4                   |                 |
| \$20,000 to \$34,999 .....             | .4                   | 6.5           | 6.3               | .2                     | 5.1                     | 56            | 92        | 17.9                   |                 |
| \$35,000 or More .....                 | .5                   | 7.7           | 7.4               | .2                     | 5.8                     | 64            | 107       | 18.3                   |                 |
| <b>Below Poverty Line</b>              |                      |               |                   |                        |                         |               |           |                        |                 |
| 100 Percent .....                      | .2                   | 9.3           | 8.9               | Q                      | Q                       | Q             | Q         | 11.2                   |                 |
| 125 Percent .....                      | .3                   | 9.0           | 8.7               | Q                      | Q                       | Q             | Q         | 9.9                    |                 |
| <b>Age of Householder</b>              |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 35 Years .....                   | .4                   | 9.7           | 9.4               | Q                      | Q                       | Q             | Q         | 14.3                   |                 |
| 35 to 59 Years .....                   | .5                   | 7.1           | 6.8               | .3                     | 5.1                     | 56            | 91        | 14.5                   |                 |
| 60 Years and Over .....                | .5                   | 5.2           | 5.0               | .1                     | 4.7                     | 51            | 88        | 15.9                   |                 |
| <b>Household Size</b>                  |                      |               |                   |                        |                         |               |           |                        |                 |
| 1 Person .....                         | .3                   | 5.1           | 4.9               | Q                      | Q                       | Q             | Q         | 49.2                   |                 |
| 2 to 4 Persons .....                   | .9                   | 7.2           | 6.9               | .4                     | 5.5                     | 60            | 103       | 12.7                   |                 |
| 5 or More Persons .....                | .2                   | 11.3          | 10.9              | Q                      | Q                       | Q             | Q         | 16.5                   |                 |

See footnotes at end of table.

**Table 27. Natural Gas and LPG Consumption and Expenditures for Appliances, per Northeast Region Household, 1990 (Continued)**

| Characteristics                        | Natural Gas           |               |                   |                        | Liquefied Petroleum Gas |               |           |                        | RSE Row Factors |
|--|-----------------------|---------------|-------------------|------------------------|-------------------------|---------------|-----------|------------------------|-----------------|
|  | Households (million)  | Consumed      |                   | Expenditures (dollars) | Households (million)    | Consumed      |           | Expenditures (dollars) |                 |
|  |                       | (million Btu) | (1000 cubic feet) |                        |                         | (million Btu) | (gallons) |                        |                 |
| RSE Column Factors:                    | 1.1                   | NF            | NF                | NF                     | 2.0                     | NF            | NF        | NF                     |                 |
| Middle Atlantic Division.....          | 8.5                   | 8.0           | 7.8               | 7.0                    | 0.6                     | 4.9           | 5.3       | 8.6                    | 9.2             |
| <b>Climate Zone<sup>1</sup></b>        |                       |               |                   |                        |                         |               |           |                        |                 |
| Under 2,000 CDD and                    | 3.2                   | 8.4           | 8.2               | 5.6                    | .6                      | 4.9           | 5.4       | 8.7                    | 13.5            |
| Over 5,500 HDD.....                    | 5.3                   | 7.8           | 7.5               | 7.8                    | Q                       | Q             | Q         | Q                      | 6.7             |
| Under 5,500 HDD                        | 2,000 CDD or More and | NC            | NC                | NC                     | NC                      | NC            | NC        | NC                     | NC              |
| Under 4,000 HDD.....                   | NC                    | NC            | NC                | NC                     | NC                      | NC            | NC        | NC                     | NC              |
| <b>Type of Housing Unit</b>            |                       |               |                   |                        |                         |               |           |                        |                 |
| Single-Family.....                     | 4.6                   | 9.6           | 9.3               | 7.1                    | .4                      | 4.6           | 5.0       | 8.2                    | 11.6            |
| Mobile Home.....                       | Q                     | Q             | Q                 | Q                      | Q                       | Q             | Q         | Q                      | NF              |
| Multifamily (2 or more units) ..       | 3.9                   | 6.2           | 6.0               | 6.8                    | Q                       | Q             | Q         | Q                      | 6.5             |
| <b>Heated Floorspace (square feet)</b> |                       |               |                   |                        |                         |               |           |                        |                 |
| Fewer than 1,000.....                  | 2.4                   | 5.4           | 5.2               | 5.7                    | Q                       | Q             | Q         | Q                      | 10.4            |
| 1,000 to 1,999.....                    | 3.2                   | 8.5           | 8.2               | 6.9                    | .3                      | 4.8           | 5.3       | 8.1                    | 12.2            |
| 2,000 or More.....                     | 2.8                   | 9.7           | 9.4               | 8.2                    | Q                       | Q             | Q         | Q                      | 13.2            |
| <b>Ownership of Unit</b>               |                       |               |                   |                        |                         |               |           |                        |                 |
| Owned.....                             | 5.2                   | 9.4           | 9.1               | 7.6                    | .5                      | 4.7           | 5.2       | 8.3                    | 9.9             |
| Rented.....                            | 3.3                   | 5.9           | 5.7               | 6.0                    | Q                       | Q             | Q         | Q                      | 9.4             |
| <b>Year of Construction</b>            |                       |               |                   |                        |                         |               |           |                        |                 |
| 1949 or Before.....                    | 4.7                   | 7.7           | 7.4               | 7.4                    | .3                      | 4.8           | 5.3       | 9.0                    | 12.4            |
| 1950 to 1979.....                      | 3.6                   | 8.6           | 8.3               | 6.6                    | .2                      | 3.5           | 3.8       | 6.7                    | 15.8            |
| 1980 or After <sup>2</sup> .....       | Q                     | Q             | Q                 | Q                      | Q                       | Q             | Q         | Q                      | NF              |
| <b>1990 Family Income</b>              |                       |               |                   |                        |                         |               |           |                        |                 |
| Less than \$10,000.....                | 1.5                   | 6.6           | 6.4               | 7.4                    | Q                       | Q             | Q         | Q                      | 20.2            |
| \$10,000 to \$19,999.....              | 1.7                   | 6.2           | 6.0               | 5.7                    | Q                       | Q             | Q         | Q                      | 9.1             |
| \$20,000 to \$34,999.....              | 1.7                   | 8.3           | 8.1               | 6.8                    | Q                       | Q             | Q         | Q                      | 13.9            |
| \$35,000 or More.....                  | 3.6                   | 9.4           | 9.1               | 7.5                    | .3                      | 5.5           | 6.0       | 9.5                    | 11.7            |
| <b>Below Poverty Line</b>              |                       |               |                   |                        |                         |               |           |                        |                 |
| 100 Percent.....                       | 1.3                   | 6.7           | 6.5               | 7.5                    | Q                       | Q             | Q         | Q                      | 15.7            |
| 125 Percent.....                       | 1.7                   | 7.1           | 6.9               | 7.6                    | Q                       | Q             | Q         | Q                      | 15.4            |
| <b>Age of Householder</b>              |                       |               |                   |                        |                         |               |           |                        |                 |
| Under 35 Years.....                    | 2.4                   | 7.3           | 7.1               | 6.7                    | Q                       | Q             | Q         | Q                      | 14.7            |
| 35 to 59 Years.....                    | 3.6                   | 8.8           | 8.5               | 7.3                    | .2                      | 5.0           | 5.5       | 8.7                    | 15.5            |
| 60 Years and Over.....                 | 2.5                   | 7.5           | 7.3               | 6.8                    | Q                       | Q             | Q         | Q                      | 12.4            |
| <b>Household Size</b>                  |                       |               |                   |                        |                         |               |           |                        |                 |
| 1 Person.....                          | 1.9                   | 4.8           | 4.6               | 5.1                    | Q                       | Q             | Q         | Q                      | 17.7            |
| 2 to 4 Persons.....                    | 5.5                   | 8.5           | 8.3               | 7.3                    | .4                      | 4.7           | 5.2       | 8.7                    | 10.4            |
| 5 or More Persons.....                 | 1.0                   | 11.4          | 11.0              | 8.8                    | Q                       | Q             | Q         | Q                      | 14.4            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**NORTHEAST**

**APPLIANCE CONSUMPTION/EXPENDITURES**



Table 28. Consumption and Expenditures in Midwest Region Households, 1990

| Characteristics                        | Average of Major Energy Sources <sup>1</sup> |                        |                                     |                            |                                |                              |                                     |                        |                |                       | RSE Row Factors |     |
|--|--|------------------------|-------------------------------------|----------------------------|--------------------------------|------------------------------|-------------------------------------|------------------------|----------------|-----------------------|-----------------|-----|
|  | Residential Buildings                        |                        | Consumption                         |                            |                                |                              |                                     | Expenditures (dollars) |                |                       |                 |     |
|  | Total Households (million)                   | Total Number (million) | Total Floor-space (billion sq. ft.) | per Building (million Btu) | per Square Foot (thousand Btu) | per House-hold (million Btu) | per House-hold Member (million Btu) | per Square Foot        | per House-hold | per House-hold Member |                 |     |
| RSE Column Factors:                    | 1.5  | 1.6                    | 1.7                                 | 0.9                        | 0.9                            | 0.9                          | 1.0                                 | 0.8                    | 0.8            | 0.7                   | 0.7             |     |
| <b>Total Region</b>                    | 28.1   | 18.7                   | 46.9                                | 150                        | 60                             | 121.7                        | 49                                  | 1,436                  | 0.57           | 1,166                 | 465             | 2.3 |
| <b>Climate Zone<sup>2</sup></b>        |  |                        |                                     |                            |                                |                              |                                     |                        |                |                       |                 |     |
| Under 2,000 HDD                        |  |                        |                                     |                            |                                |                              |                                     |                        |                |                       |                 |     |
| Over 5,500 HDD                         | 19.7   | 15.6                   | 39.8                                | 154                        | 61                             | 122.6                        | 49                                  | 1,444                  | .57            | 1,146                 | 459             | 2.9 |
| Under 5,500 HDD                        | 3.4  | 3.1                    | 7.1                                 | 127                        | 55                             | 116.5                        | 45                                  | 1,393                  | .61            | 1,281                 | 497             | 6.5 |
| 2,000 HDD or More and Under 4,000 HDD  | NC   | NC                     | NC                                  | NC                         | NC                             | NC                           | NC                                  | NC                     | NC             | NC                    | NC              | NC  |
| <b>Type of Housing Unit</b>            |  |                        |                                     |                            |                                |                              |                                     |                        |                |                       |                 |     |
| Single-Family                          | 16.0   | 16.0                   | 39.7                                | 136                        | 55                             | 136.4                        | 50                                  | 1,298                  | .52            | 1,298                 | 471             | 2.4 |
| Mobile Home                            | 1.6  | 1.6                    | 1.5                                 | 97                         | 101                            | 96.6                         | 38                                  | 1,111                  | 1.16           | 1,111                 | 433             | 9.7 |
| Multifamily (2 or more units)          | 5.4  | 1.1                    | 5.7                                 | 423                        | 82                             | 85.9                         | 49                                  | 3,906                  | .75            | 794                   | 448             | 6.6 |
| <b>Heated Floorspace (square feet)</b> |  |                        |                                     |                            |                                |                              |                                     |                        |                |                       |                 |     |
| Fewer than 1,000                       | 6.5  | 3.6                    | 5.5                                 | 149                        | 96                             | 81.3                         | 41                                  | 1,541                  | .99            | 842                   | 430             | 5.3 |
| 1,000 to 1,999                         | 8.8  | 7.6                    | 15.9                                | 141                        | 67                             | 121.8                        | 49                                  | 1,346                  | .64            | 1,162                 | 470             | 3.1 |
| 2,000 or More                          | 7.8  | 7.6                    | 25.5                                | 159                        | 47                             | 155.4                        | 52                                  | 1,475                  | .44            | 1,441                 | 479             | 3.2 |
| <b>Ownership of Unit</b>               |  |                        |                                     |                            |                                |                              |                                     |                        |                |                       |                 |     |
| Owned                                  | 16.4   | 15.4                   | 38.7                                | 140                        | 56                             | 131.3                        | 49                                  | 1,362                  | .54            | 1,279                 | 480             | 2.4 |
| Rented                                 | 6.7  | 3.4                    | 8.3                                 | 196                        | 79                             | 98.2                         | 46                                  | 1,770                  | .72            | 888                   | 417             | 4.4 |
| <b>Year of Construction</b>            |  |                        |                                     |                            |                                |                              |                                     |                        |                |                       |                 |     |
| 1949 or Before                         | 9.0  | 7.6                    | 18.5                                | 163                        | 67                             | 138.0                        | 55                                  | 1,402                  | .57            | 1,184                 | 475             | 3.4 |
| 1950 to 1979                           | 11.3   | 8.6                    | 21.8                                | 145                        | 57                             | 110.7                        | 45                                  | 1,486                  | .59            | 1,137                 | 464             | 3.6 |
| 1980 or After <sup>3</sup>             | 2.8  | 2.5                    | 6.7                                 | 127                        | 48                             | 113.6                        | 41                                  | 1,364                  | .52            | 1,220                 | 439             | 7.1 |
| <b>1990 Family Income</b>              |  |                        |                                     |                            |                                |                              |                                     |                        |                |                       |                 |     |
| Less than \$10,000                     | 3.7  | 2.7                    | 5.8                                 | 162                        | 75                             | 116.7                        | 57                                  | 1,411                  | .65            | 1,016                 | 497             | 7.4 |
| \$10,000 to \$19,999                   | 5.2  | 4.0                    | 8.4                                 | 132                        | 64                             | 103.3                        | 53                                  | 1,257                  | .60            | 983                   | 501             | 4.1 |
| \$20,000 to \$34,999                   | 6.4  | 5.3                    | 13.0                                | 141                        | 57                             | 115.5                        | 44                                  | 1,411                  | .57            | 1,158                 | 442             | 3.9 |
| \$35,000 or More                       | 7.7  | 6.7                    | 19.7                                | 163                        | 56                             | 141.5                        | 47                                  | 1,572                  | .54            | 1,367                 | 455             | 4.4 |
| <b>Below Poverty Line</b>              |  |                        |                                     |                            |                                |                              |                                     |                        |                |                       |                 |     |
| 100 Percent                            | 2.7  | 1.9                    | 4.0                                 | 159                        | 76                             | 115.0                        | 42                                  | 1,447                  | .69            | 1,048                 | 384             | 7.5 |
| 125 Percent                            | 3.9  | 2.9                    | 5.9                                 | 151                        | 74                             | 112.8                        | 44                                  | 1,401                  | .69            | 1,044                 | 411             | 6.0 |
| <b>Age of Householder</b>              |  |                        |                                     |                            |                                |                              |                                     |                        |                |                       |                 |     |
| Under 35 Years                         | 6.7  | 5.1                    | 11.3                                | 147                        | 66                             | 112.2                        | 40                                  | 1,394                  | .63            | 1,066                 | 383             | 4.6 |
| 35 to 59 Years                         | 9.4  | 8.1                    | 21.5                                | 154                        | 58                             | 132.3                        | 46                                  | 1,525                  | .57            | 1,308                 | 451             | 2.9 |
| 60 Years and Over                      | 7.0  | 5.5                    | 14.1                                | 146                        | 58                             | 116.4                        | 68                                  | 1,344                  | .53            | 1,069                 | 625             | 3.7 |
| <b>Household Size</b>                  |  |                        |                                     |                            |                                |                              |                                     |                        |                |                       |                 |     |
| 1 Person                               | 6.0  | 3.7                    | 8.8                                 | 150                        | 64                             | 93.0                         | 93                                  | 1,323                  | .56            | 819                   | 819             | 5.0 |
| 2 to 4 Persons                         | 15.0   | 13.1                   | 33.4                                | 149                        | 58                             | 129.4                        | 48                                  | 1,451                  | .57            | 1,261                 | 465             | 2.6 |
| 5 or More Persons                      | 2.0  | 1.9                    | 4.8                                 | 156                        | 63                             | 149.9                        | 27                                  | 1,544                  | .62            | 1,483                 | 270             | 5.3 |

Midwest Region

See footnotes at end of table.

ENERGY CONSUMPTION AND EXPENDITURES

Table 28. Consumption and Expenditures in Midwest Region Households, 1990 (Continued)

| Characteristics                        | Average of Major Energy Sources <sup>1</sup> |                        |                                     |                            |                                |                             |                                    |                        |                 |               | RSE Row Factors |                      |
|--|--|------------------------|-------------------------------------|----------------------------|--------------------------------|-----------------------------|------------------------------------|------------------------|-----------------|---------------|-----------------|----------------------|
|  | Residential Buildings                        |                        |                                     | Consumption                |                                |                             |                                    | Expenditures (dollars) |                 |               |                 |                      |
|  | Total Households (million)                   | Total Number (million) | Total Floor-space (billion sq. ft.) | per Building (million Btu) | per Square Foot (thousand Btu) | per Household (million Btu) | per Household Member (million Btu) | per Building           | per Square Foot | per Household |                 | per Household Member |
| RSE Column Factors:                    | 1.5  | 1.6                    | 1.7                                 | 0.9                        | 0.9                            | 0.9                         | 1.0                                | 0.8                    | 0.8             | 0.7           | 0.7             |                      |
| East North Central Division ....       | 16.6   | 13.3                   | 33.8                                | 154                        | 61                             | 123.1                       | 49                                 | 1,472                  | 0.58            | 1,179         | 466             | 2.8                  |
| <b>Climate Zone<sup>2</sup></b>        |  |                        |                                     |                            |                                |                             |                                    |                        |                 |               |                 |                      |
| Under 2,000 CDD and                    |  |                        |                                     |                            |                                |                             |                                    |                        |                 |               |                 |                      |
| Over 5,500 HDD                         | 15.7   | 12.4                   | 31.9                                | 155                        | 60                             | 122.8                       | 49                                 | 1,477                  | .57             | 1,168         | 462             | 3.6                  |
| Under 5,500 HDD                        | Q  | Q                      | Q                                   | 132                        | 63                             | 128.1                       | 51                                 | 1,397                  | .67             | 1,368         | 541             | 13.3                 |
| 2,000 CDD or More and                  |  |                        |                                     |                            |                                |                             |                                    |                        |                 |               |                 |                      |
| Under 4,000 HDD                        | NC   | NC                     | NC                                  | NC                         | NC                             | NC                          | NC                                 | NC                     | NC              | NC            | NC              | NC                   |
| <b>Type of Housing Unit</b>            |  |                        |                                     |                            |                                |                             |                                    |                        |                 |               |                 |                      |
| Single-Family                          | 11.3   | 11.3                   | 28.2                                | 140                        | 56                             | 139.7                       | 50                                 | 1,315                  | .52             | 1,315         | 471             | 3.1                  |
| Mobile Home                            | 1.2  | 1.2                    | 1.2                                 | 95                         | 100                            | 94.6                        | 36                                 | 1,139                  | 1.21            | 1,139         | 430             | 12.5                 |
| Multifamily (2 or more units) ...      | 4.1  | .8                     | 4.4                                 | 433                        | 82                             | 86.4                        | 49                                 | 4,099                  | .77             | 819           | 481             | 8.3                  |
| <b>Heated Floorspace (square feet)</b> |  |                        |                                     |                            |                                |                             |                                    |                        |                 |               |                 |                      |
| Fewer than 1,000                       | 4.8  | 2.5                    | 4.1                                 | 152                        | 94                             | 79.5                        | 40                                 | 1,644                  | 1.01            | 860           | 430             | 7.0                  |
| 1,000 to 1,999                         | 6.3  | 5.4                    | 11.3                                | 146                        | 69                             | 125.1                       | 51                                 | 1,374                  | .65             | 1,180         | 481             | 4.1                  |
| 2,000 or More                          | 5.5  | 5.4                    | 18.4                                | 163                        | 48                             | 158.6                       | 52                                 | 1,490                  | .44             | 1,453         | 473             | 4.1                  |
| <b>Ownership of Unit</b>               |  |                        |                                     |                            |                                |                             |                                    |                        |                 |               |                 |                      |
| Owned                                  | 11.8   | 11.0                   | 27.8                                | 143                        | 57                             | 133.1                       | 50                                 | 1,390                  | .55             | 1,291         | 482             | 3.2                  |
| Rented                                 | 4.8  | 2.3                    | 6.0                                 | 203                        | 80                             | 98.6                        | 46                                 | 1,855                  | .73             | 903           | 417             | 5.7                  |
| <b>Year of Construction</b>            |  |                        |                                     |                            |                                |                             |                                    |                        |                 |               |                 |                      |
| 1949 or Before                         | 6.6  | 5.6                    | 13.7                                | 168                        | 68                             | 140.6                       | 56                                 | 1,444                  | .58             | 1,210         | 482             | 4.2                  |
| 1950 to 1979                           | 7.9  | 5.8                    | 14.9                                | 147                        | 58                             | 108.8                       | 44                                 | 1,524                  | .60             | 1,128         | 456             | 5.1                  |
| 1980 or After <sup>3</sup>             | 2.1  | 1.9                    | 5.1                                 | 133                        | 50                             | 121.4                       | 43                                 | 1,394                  | .52             | 1,270         | 453             | 8.9                  |
| <b>1990 Family Income</b>              |  |                        |                                     |                            |                                |                             |                                    |                        |                 |               |                 |                      |
| Less than \$10,000                     | 2.7  | 1.9                    | 4.3                                 | 170                        | 76                             | 122.1                       | 56                                 | 1,474                  | .66             | 1,057         | 489             | 9.7                  |
| \$10,000 to \$19,999                   | 3.6  | 2.7                    | 5.6                                 | 134                        | 65                             | 101.3                       | 52                                 | 1,299                  | .63             | 983           | 501             | 5.5                  |
| \$20,000 to \$34,999                   | 4.6  | 3.8                    | 9.5                                 | 142                        | 57                             | 116.0                       | 45                                 | 1,451                  | .58             | 1,183         | 462             | 4.9                  |
| \$35,000 or More                       | 5.7  | 4.9                    | 14.4                                | 167                        | 57                             | 142.9                       | 47                                 | 1,582                  | .54             | 1,353         | 447             | 5.6                  |
| <b>Below Poverty Line</b>              |  |                        |                                     |                            |                                |                             |                                    |                        |                 |               |                 |                      |
| 100 Percent                            | 2.0  | 1.5                    | 3.1                                 | 165                        | 76                             | 119.7                       | 42                                 | 1,488                  | .69             | 1,079         | 383             | 9.4                  |
| 125 Percent                            | 2.8  | 2.1                    | 4.4                                 | 158                        | 76                             | 117.9                       | 46                                 | 1,437                  | .69             | 1,074         | 415             | 7.7                  |
| <b>Age of Householder</b>              |  |                        |                                     |                            |                                |                             |                                    |                        |                 |               |                 |                      |
| Under 35 Years                         | 4.9  | 3.7                    | 8.3                                 | 152                        | 67                             | 113.2                       | 40                                 | 1,447                  | .64             | 1,075         | 382             | 6.0                  |
| 35 to 59 Years                         | 6.8  | 5.7                    | 15.6                                | 159                        | 59                             | 135.2                       | 47                                 | 1,561                  | .58             | 1,325         | 460             | 3.6                  |
| 60 Years and Over                      | 4.9  | 3.9                    | 9.9                                 | 147                        | 58                             | 116.5                       | 66                                 | 1,365                  | .54             | 1,082         | 615             | 4.6                  |
| <b>Household Size</b>                  |  |                        |                                     |                            |                                |                             |                                    |                        |                 |               |                 |                      |
| 1 Person                               | 4.2  | 2.5                    | 6.1                                 | 153                        | 62                             | 90.9                        | 91                                 | 1,375                  | .56             | 819           | 819             | 7.0                  |
| 2 to 4 Persons                         | 10.8   | 9.3                    | 23.9                                | 153                        | 59                             | 130.9                       | 49                                 | 1,483                  | .57             | 1,271         | 473             | 3.4                  |
| 5 or More Persons                      | 1.6  | 1.5                    | 3.7                                 | 162                        | 66                             | 155.1                       | 28                                 | 1,563                  | .64             | 1,498         | 274             | 6.2                  |

See footnotes at end of table.

Table 28. Consumption and Expenditures in Midwest Region Households, 1990 (Continued)

| Characteristics                        | Average of Major Energy Sources <sup>1</sup> |                        |                                     |                            |                                |                              |                                     |              |                 |                | RSE Row Factors |                        |  |  |
|--|--|------------------------|-------------------------------------|----------------------------|--------------------------------|------------------------------|-------------------------------------|--------------|-----------------|----------------|-----------------|------------------------|--|--|
|  | Residential Buildings                        |                        |                                     |                            |                                | Consumption                  |                                     |              |                 |                |                 | Expenditures (dollars) |  |  |
|  | Total Households (million)                   | Total Number (million) | Total Floor space (billion sq. ft.) | per Building (million Btu) | per Square Foot (thousand Btu) | per House hold (million Btu) | per House hold Member (million Btu) | per Building | per Square Foot | per House hold |                 | per House hold Member  |  |  |
| <b>RSE Column Factors:</b>             | 1.5  | 1.6                    | 1.7                                 | 0.9                        | 0.9                            | 0.9                          | 1.0                                 | 0.8          | 0.8             | 0.7            | 0.7             |                        |  |  |
| <b>West North Central Division</b>     | 6.5  | 5.4                    | 13.2                                | 140                        | 58                             | 118.0                        | 48                                  | 1,347        | 0.55            | 1,132          | 462             | 3.2                    |  |  |
| <b>Climate Zone<sup>2</sup></b>        |  |                        |                                     |                            |                                |                              |                                     |              |                 |                |                 |                        |  |  |
| Under 2,000 CDD and Over 5,500 HDD     | 4.0  | 3.2                    | 7.9                                 | 151                        | 61                             | 121.6                        | 52                                  | 1,316        | .53             | 1,059          | 449             | 4.0                    |  |  |
| Under 5,500 HDD                        | 2.5  | 2.2                    | 5.2                                 | 125                        | 53                             | 112.1                        | 43                                  | 1,391        | .59             | 1,252          | 481             | 6.0                    |  |  |
| 2,000 CDD or More and Under 4,000 HDD  | NC   | NC                     | NC                                  | NC                         | NC                             | NC                           | NC                                  | NC           | NC              | NC             | NC              | NC                     |  |  |
| <b>Type of Housing Unit</b>            |  |                        |                                     |                            |                                |                              |                                     |              |                 |                |                 |                        |  |  |
| Single-Family                          | 4.8  | 4.8                    | 11.4                                | 128                        | 54                             | 128.5                        | 48                                  | 1,256        | .52             | 1,256          | 473             | 3.7                    |  |  |
| Mobile Home                            | 4  | 4                      | 4                                   | 103                        | 102                            | 102.8                        | 45                                  | 1,020        | 1.01            | 1,020          | 442             | 12.5                   |  |  |
| Multifamily (2 or more units)          | 1.3  | 3                      | 1.4                                 | 393                        | 81                             | 84.2                         | 48                                  | 3,336        | .69             | 714            | 407             | 7.3                    |  |  |
| <b>Heated Floorspace (square feet)</b> |  |                        |                                     |                            |                                |                              |                                     |              |                 |                |                 |                        |  |  |
| Fewer than 1,000                       | 1.7  | 1.1                    | 1.5                                 | 141                        | 102                            | 86.3                         | 47                                  | 1,299        | .94             | 793            | 429             | 5.6                    |  |  |
| 1,000 to 1,999                         | 2.5  | 2.2                    | 4.6                                 | 130                        | 62                             | 113.7                        | 45                                  | 1,276        | .61             | 1,119          | 442             | 4.5                    |  |  |
| 2,000 or More                          | 2.2  | 2.2                    | 7.2                                 | 150                        | 46                             | 147.5                        | 52                                  | 1,440        | .44             | 1,412          | 498             | 4.9                    |  |  |
| <b>Ownership of Unit</b>               |  |                        |                                     |                            |                                |                              |                                     |              |                 |                |                 |                        |  |  |
| Owned                                  | 4.6  | 4.4                    | 10.9                                | 131                        | 53                             | 126.6                        | 48                                  | 1,293        | .52             | 1,249          | 475             | 3.5                    |  |  |
| Rented                                 | 1.9  | 1.0                    | 2.3                                 | 180                        | 79                             | 97.3                         | 48                                  | 1,578        | .70             | 852            | 419             | 5.8                    |  |  |
| <b>Year of Construction</b>            |  |                        |                                     |                            |                                |                              |                                     |              |                 |                |                 |                        |  |  |
| 1949 or Before                         | 2.3  | 2.0                    | 4.8                                 | 151                        | 64                             | 130.5                        | 53                                  | 1,287        | .55             | 1,112          | 455             | 5.0                    |  |  |
| 1950 to 1979                           | 3.4  | 2.8                    | 6.9                                 | 140                        | 57                             | 115.1                        | 48                                  | 1,406        | .57             | 1,159          | 482             | 4.0                    |  |  |
| 1980 or After <sup>3</sup>             | 7  | 6                      | 1.5                                 | 108                        | 44                             | 91.1                         | 34                                  | 1,269        | .51             | 1,073          | 397             | 9.3                    |  |  |
| <b>1990 Family Income</b>              |  |                        |                                     |                            |                                |                              |                                     |              |                 |                |                 |                        |  |  |
| Less than \$10,000                     | 1.1  | 8                      | 1.5                                 | 142                        | 72                             | 103.2                        | 59                                  | 1,254        | .63             | 912            | 523             | 7.9                    |  |  |
| \$10,000 to \$19,999                   | 1.6  | 1.3                    | 2.8                                 | 129                        | 61                             | 107.9                        | 55                                  | 1,173        | .55             | 982            | 502             | 4.6                    |  |  |
| \$20,000 to \$34,999                   | 1.8  | 1.5                    | 3.6                                 | 137                        | 58                             | 114.4                        | 41                                  | 1,311        | .56             | 1,093          | 395             | 4.9                    |  |  |
| \$35,000 or More                       | 2.0  | 1.8                    | 5.3                                 | 151                        | 52                             | 137.3                        | 47                                  | 1,545        | .53             | 1,408          | 477             | 6.5                    |  |  |
| <b>Below Poverty Line</b>              |  |                        |                                     |                            |                                |                              |                                     |              |                 |                |                 |                        |  |  |
| 100 Percent                            | 6  | 5                      | 9                                   | 139                        | 72                             | 100.5                        | 41                                  | 1,320        | .68             | 951            | 391             | 9.5                    |  |  |
| 125 Percent                            | 1.1  | .8                     | 1.6                                 | 135                        | 70                             | 99.7                         | 41                                  | 1,306        | .68             | 968            | 398             | 8.1                    |  |  |
| <b>Age of Householder</b>              |  |                        |                                     |                            |                                |                              |                                     |              |                 |                |                 |                        |  |  |
| Under 35 Years                         | 1.8  | 1.5                    | 3.1                                 | 132                        | 63                             | 109.4                        | 41                                  | 1,262        | .60             | 1,043          | 389             | 5.2                    |  |  |
| 35 to 59 Years                         | 2.7  | 2.3                    | 6.0                                 | 142                        | 56                             | 125.1                        | 42                                  | 1,436        | .56             | 1,265          | 427             | 4.8                    |  |  |
| 60 Years and Over                      | 2.0  | 1.6                    | 4.2                                 | 145                        | 57                             | 116.2                        | 73                                  | 1,294        | .51             | 1,037          | 653             | 5.2                    |  |  |
| <b>Household Size</b>                  |  |                        |                                     |                            |                                |                              |                                     |              |                 |                |                 |                        |  |  |
| 1 Person                               | 1.8  | 1.2                    | 2.7                                 | 145                        | 66                             | 97.6                         | 98                                  | 1,218        | .56             | 820            | 820             | 6.0                    |  |  |
| 2 to 4 Persons                         | 4.2  | 3.8                    | 9.4                                 | 139                        | 56                             | 125.5                        | 45                                  | 1,374        | .55             | 1,238          | 447             | 3.4                    |  |  |
| 5 or More Persons                      | .4   | .4                     | 1.1                                 | 135                        | 51                             | 130.6                        | 23                                  | 1,475        | .56             | 1,426          | 256             | 9.0                    |  |  |

1 Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.  
 2 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.  
 3 Does not include all new construction for 1990.  
 NC = No cases in sample.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 Notes: \* To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. \* Because of rounding, data may not sum to totals. \* See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

ENERGY CONSUMPTION AND EXPENDITURES

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Table 29. Total Consumption in Midwest Region Households, 1990

| Characteristics                             | Major Energy Sources <sup>1</sup><br>(trillion Btu) | Electricity    |               | Natural Gas    |                      | Fuel Oil       |                   | Kerosene       |                   | Liquefied Petroleum Gas |                   | RSE Row Factors |
|---|---|----------------|---------------|----------------|----------------------|----------------|-------------------|----------------|-------------------|-------------------------|-------------------|-----------------|
|   |   | (trillion Btu) | (billion kWh) | (trillion Btu) | (billion cubic feet) | (trillion Btu) | (billion gallons) | (trillion Btu) | (billion gallons) | (trillion Btu)          | (billion gallons) |                 |
| RSE Column Factors:                         | 0.4   | 0.5            | 0.5           | 0.5            | 0.5                  | 1.7            | 1.7               | 2.4            | 2.4               | 1.4                     | 1.4               |                 |
| Midwest Region                              |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Total Region .....                          | 2,806.9   | 663.6          | 194.5         | 1,881.4        | 1,847                | 121.5          | 0.88              | Q              | Q                 | 131.3                   | 1.44              | 10.4            |
| <b>Climate Zone<sup>2</sup></b>             |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 2,412.4   | 544.5          | 159.6         | 1,644.0        | 1,613                | 116.0          | .84               | Q              | Q                 | 99.1                    | 1.09              | 13.1            |
| Under 5,500 HDD .....                       | 394.5   | 119.1          | 34.9          | 237.4          | 234                  | Q              | Q                 | 0.3            | Q (*)             | Q                       | Q                 | 30.1            |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC  | NC             | NC            | NC             | NC                   | NC             | NC                | NC             | NC                | NC                      | NC                | NC              |
| <b>Type of Housing Unit</b>                 |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Single-Family .....                         | 2,183.9   | 522.3          | 153.1         | 1,433.0        | 1,409                | 113.6          | .82               | 3.9            | 0.03              | 111.1                   | 1.22              | 12.9            |
| Mobile Home .....                           | 155.4   | 45.3           | 13.3          | 84.1           | 83                   | Q              | Q                 | Q              | Q                 | 17.4                    | .19               | 40.9            |
| Multifamily (2 or more units) ..            | 467.6   | 95.9           | 28.1          | 364.3          | 355                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 17.9            |
| <b>Heated Floorspace (square feet)</b>      |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Fewer than 1,000 .....                      | 531.7   | 135.8          | 39.8          | 341.9          | 335                  | 17.0           | .12               | Q              | Q                 | 31.6                    | .35               | 18.6            |
| 1,000 to 1,999 .....                        | 1,066.2   | 251.0          | 73.6          | 710.7          | 698                  | 47.3           | .34               | 2.8            | .02               | 54.4                    | .60               | 13.3            |
| 2,000 or More .....                         | 1,209.0   | 276.7          | 81.1          | 828.8          | 813                  | 57.3           | .41               | Q              | Q                 | 45.3                    | .50               | 15.7            |
| <b>Ownership of Unit</b>                    |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Owned .....                                 | 2,149.3   | 535.9          | 157.1         | 1,380.8        | 1,357                | 110.2          | .80               | Q              | Q                 | 114.9                   | 1.26              | 10.8            |
| Rented .....                                | 657.6   | 127.7          | 37.4          | 500.6          | 490                  | 11.3           | .08               | 1.7            | .01               | 16.4                    | .18               | 17.8            |
| <b>Year of Construction</b>                 |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 1949 or Before .....                        | 1,298.2   | 217.6          | 63.8          | 900.4          | 884                  | 61.5           | .45               | 2.8            | .02               | 55.9                    | .61               | 15.2            |
| 1950 to 1979 .....                          | 1,247.8   | 350.5          | 102.7         | 789.6          | 775                  | 58.8           | .43               | Q              | Q                 | 45.3                    | .50               | 15.6            |
| 1980 or After <sup>3</sup> .....            | 320.9   | 95.5           | 28.0          | 191.4          | 188                  | Q              | Q                 | Q              | Q                 | 30.0                    | .33               | 26.6            |
| <b>1990 Family Income</b>                   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Less than \$10,000 .....                    | 436.0   | 74.1           | 21.7          | 311.3          | 305                  | 24.7           | .18               | Q              | Q                 | 24.8                    | .27               | 27.2            |
| \$10,000 to \$19,999 .....                  | 533.5   | 113.9          | 33.4          | 365.0          | 359                  | 18.5           | .13               | Q              | Q                 | 33.3                    | .36               | 15.1            |
| \$20,000 to \$34,999 .....                  | 744.2   | 195.5          | 57.3          | 468.7          | 461                  | 40.7           | .30               | Q              | Q                 | 34.7                    | .38               | 18.5            |
| \$35,000 or More .....                      | 1,093.2   | 280.0          | 82.1          | 736.4          | 723                  | 37.6           | .27               | .8             | .01               | 38.5                    | .42               | 17.7            |
| <b>Below Poverty Line</b>                   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 100 Percent .....                           | 304.7   | 55.9           | 16.4          | 205.7          | 201                  | 21.4           | .16               | Q              | Q                 | 20.9                    | .23               | 24.5            |
| 125 Percent .....                           | 437.8   | 82.9           | 24.3          | 293.4          | 287                  | 23.8           | .17               | 1.0            | .01               | 36.7                    | .40               | 22.1            |
| <b>Age of Householder</b>                   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 35 Years .....                        | 751.5   | 177.3          | 52.0          | 517.6          | 508                  | 24.1           | .18               | 1.9            | .01               | 30.7                    | .34               | 16.6            |
| 35 to 59 Years .....                        | 1,245.0   | 319.5          | 93.6          | 811.3          | 796                  | 49.7           | .36               | Q              | Q                 | 58.4                    | .64               | 12.6            |
| 60 Years and Over .....                     | 810.4   | 166.8          | 48.9          | 552.5          | 543                  | 47.7           | .35               | Q              | Q                 | 42.2                    | .46               | 15.8            |
| <b>Household Size</b>                       |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 1 Person .....                              | 558.6   | 102.2          | 29.9          | 428.6          | 420                  | 11.7           | .09               | Q              | Q                 | 13.5                    | .15               | 22.0            |
| 2 to 4 Persons .....                        | 1,946.3   | 481.0          | 141.0         | 1,264.0        | 1,242                | 99.5           | .72               | 5.6            | .04               | 96.3                    | 1.05              | 12.3            |
| 5 or More Persons .....                     | 302.0   | 80.4           | 23.6          | 188.8          | 185                  | Q              | Q                 | Q              | Q                 | 21.4                    | .23               | 25.8            |

See footnotes at end of table.

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Table 29. Total Consumption in Midwest Region Households, 1990 (Continued)

| Characteristics                       | Major Energy Sources <sup>1</sup><br>(trillion Btu) |       | Electricity<br>(billion kWh) |         | Natural Gas<br>(trillion Btu) |      | Fuel Oil<br>(trillion Btu) |     | Kerosene<br>(trillion Btu) |     | Liquefied Petroleum Gas<br>(trillion Btu) |      | RSE Row Factors |
|---------------------------------------|---|-------|------------------------------|---------|-------------------------------|------|----------------------------|-----|----------------------------|-----|---|------|-----------------|
|                                       | 0.4   | 0.5   | 0.5                          | 0.5     | 0.5                           | 0.5  | 1.7                        | 1.7 | 2.4                        | 2.4 | 1.4                                       | 1.4  |                 |
|                                       |   |       |                              |         |                               |      |                            |     |                            |     |   |      |                 |
| RSE Column Factors:                   | 0.4   | 0.5   | 0.5                          | 0.5     | 0.5                           | 0.5  | 1.7                        | 1.7 | 2.4                        | 2.4 | 1.4                                       | 1.4  |                 |
| East North Central Division           | 2,045.0   | 469.0 | 137.4                        | 1,387.5 | 1,356                         | 93.3 | 0.68                       | Q   | Q                          | Q   | 86.7                                      | 0.95 | 13.9            |
| Climate Zone <sup>2</sup>             |   |       |                              |         |                               |      |                            |     |                            |     |   |      |                 |
| Under 2,000 CDD and Over 5,500 HDD    | 1,926.6   | 441.2 | 129.3                        | 1,313.4 | 1,283                         | 90.5 | .66                        | Q   | Q                          | Q   | 72.9                                      | .80  | 16.5            |
| Under 5,500 HDD                       | Q   | Q     | Q                            | Q       | Q                             | Q    | Q                          | Q   | Q                          | Q   | Q   | Q    | NF              |
| 2,000 CDD or More and Under 4,000 HDD | NC  | NC    | NC                           | NC      | NC                            | NC   | NC                         | NC  | NC                         | NC  | NC  | NC   | NC              |
| Type of Housing Unit                  |   |       |                              |         |                               |      |                            |     |                            |     |   |      |                 |
| Single-Family                         | 1,571.7   | 361.8 | 106.0                        | 1,045.9 | 1,023                         | 88.3 | .64                        | Q   | Q                          | 3.3 | 0.02                                      | 72.3 | .79             |
| Mobile Home                           | 115.8   | 34.6  | 10.1                         | 60.0    | 59                            | Q    | Q                          | Q   | Q                          | Q   | Q   | 12.7 | .14             |
| Multifamily (2 or more units)         | 357.5   | 72.6  | 21.3                         | 281.5   | 274                           | Q    | Q                          | Q   | Q                          | Q   | Q   | Q    | 21.1            |
| Heated Floorspace (square feet)       |   |       |                              |         |                               |      |                            |     |                            |     |   |      |                 |
| Fewer than 1,000                      | 381.3   | 101.1 | 29.6                         | 238.6   | 233                           | Q    | Q                          | Q   | Q                          | Q   | Q   | 23.7 | .26             |
| 1,000 to 1,999                        | 783.7   | 175.2 | 51.4                         | 531.9   | 520                           | 39.9 | .29                        | Q   | Q                          | 2.5 | .02                                       | 34.2 | .37             |
| 2,000 or More                         | 880.1   | 192.7 | 56.5                         | 617.0   | 603                           | 40.7 | .30                        | Q   | Q                          | Q   | Q   | 28.8 | .32             |
| Ownership of Unit                     |   |       |                              |         |                               |      |                            |     |                            |     |   |      |                 |
| Owned                                 | 1,571.8   | 380.3 | 111.5                        | 1,021.9 | 999                           | 85.9 | .62                        | Q   | Q                          | Q   | Q   | 76.7 | .84             |
| Rented                                | 473.2   | 88.7  | 26.0                         | 365.6   | 357                           | Q    | Q                          | Q   | 1.6                        | .01 | Q   | Q    | 16.9            |
| Year of Construction                  |   |       |                              |         |                               |      |                            |     |                            |     |   |      |                 |
| 1949 or Before                        | 932.5   | 159.0 | 46.6                         | 691.1   | 675                           | 45.2 | .33                        | Q   | 2.4                        | .02 | 34.7                                      | .38  | 19.0            |
| 1950 to 1979                          | 857.6   | 237.9 | 69.7                         | 538.9   | 526                           | 46.9 | .34                        | Q   | Q                          | Q   | 30.4                                      | .33  | 21.0            |
| 1980 or After <sup>3</sup>            | 255.0   | 72.0  | 21.1                         | 157.5   | 154                           | Q    | Q                          | Q   | Q                          | Q   | 21.6                                      | .24  | 32.9            |
| 1990 Family Income                    |   |       |                              |         |                               |      |                            |     |                            |     |   |      |                 |
| Less than \$10,000                    | 326.2   | 53.1  | 15.6                         | 238.1   | 232                           | 17.4 | .13                        | Q   | Q                          | Q   | Q   | Q    | 35.5            |
| \$10,000 to \$19,999                  | 361.2   | 75.2  | 22.0                         | 246.5   | 241                           | Q    | Q                          | Q   | Q                          | Q   | 21.9                                      | .24  | 17.6            |
| \$20,000 to \$34,999                  | 536.2   | 140.2 | 41.1                         | 332.9   | 325                           | 38.0 | .28                        | Q   | Q                          | Q   | 20.8                                      | .23  | 23.4            |
| \$35,000 or More                      | 821.3   | 200.5 | 58.8                         | 570.0   | 558                           | 23.1 | .17                        | Q   | .5                         | (*) | 27.2                                      | .30  | 23.3            |
| Below Poverty Line                    |   |       |                              |         |                               |      |                            |     |                            |     |   |      |                 |
| 100 Percent                           | 239.5   | 41.5  | 12.2                         | 165.5   | 161                           | 17.4 | .13                        | Q   | Q                          | Q   | 14.2                                      | .16  | 28.4            |
| 125 Percent                           | 329.5   | 58.2  | 17.1                         | 228.9   | 223                           | 18.1 | .13                        | Q   | Q                          | Q   | 23.3                                      | .26  | 29.0            |
| Age of Householder                    |   |       |                              |         |                               |      |                            |     |                            |     |   |      |                 |
| Under 35 Years                        | 558.4   | 130.4 | 38.2                         | 388.5   | 380                           | 17.6 | .13                        | Q   | 1.7                        | .01 | 20.2                                      | .22  | 19.1            |
| 35 to 59 Years                        | 913.0   | 225.2 | 66.0                         | 608.7   | 595                           | 35.2 | .26                        | Q   | Q                          | Q   | 38.1                                      | .42  | 16.5            |
| 60 Years and Over                     | 573.6   | 113.4 | 33.2                         | 390.3   | 381                           | 40.4 | .29                        | Q   | Q                          | Q   | 28.4                                      | .31  | 20.3            |
| Household Size                        |   |       |                              |         |                               |      |                            |     |                            |     |   |      |                 |
| 1 Person                              | 380.9   | 68.5  | 20.1                         | 295.1   | 288                           | Q    | Q                          | Q   | Q                          | Q   | Q   | Q    | 27.1            |
| 2 to 4 Persons                        | 1,417.5   | 336.6 | 98.7                         | 934.8   | 914                           | 76.2 | .55                        | Q   | 5.1                        | .04 | 64.8                                      | .71  | 16.0            |
| 5 or More Persons                     | 246.6   | 63.9  | 18.7                         | 157.7   | 154                           | Q    | Q                          | Q   | Q                          | Q   | 14.3                                      | .16  | 30.7            |

See footnotes at end of table.

# ENERGY CONSUMPTION AND EXPENDITURES

## Table 29. Total Consumption in Midwest Region Households, 1990 (Continued)

| Characteristics                             | Major Energy Sources <sup>1</sup><br>(trillion Btu) | Electricity    |               | Natural Gas    |                      | Fuel Oil       |                   | Kerosene       |                   | Liquefied Petroleum Gas |                   | RSE Row Factors |
|---|---|----------------|---------------|----------------|----------------------|----------------|-------------------|----------------|-------------------|-------------------------|-------------------|-----------------|
|   |   | (trillion Btu) | (billion kWh) | (trillion Btu) | (billion cubic feet) | (trillion Btu) | (billion gallons) | (trillion Btu) | (billion gallons) | (trillion Btu)          | (billion gallons) |                 |
| RSE Column Factors:                         | 0.4   | 0.5            | 0.5           | 0.5            | 0.5                  | 1.7            | 1.7               | 2.4            | 2.4               | 1.4                     | 1.4               |                 |
| <b>West North Central Division ...</b>      | 761.9   | 194.6          | 57.0          | 493.9          | 491                  | 28.2           | 0.20              | 0.6            | (*)               | 44.6                    | 0.49              | 12.3            |
| <b>Climate Zone<sup>2</sup></b>             |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 485.9   | 103.2          | 30.3          | 330.6          | 330                  | 25.5           | .19               | Q              | Q                 | 26.2                    | .29               | 16.2            |
| Under 5,500 HDD .....                       | 276.0   | 91.4           | 26.8          | 163.3          | 162                  | Q              | Q                 | .3             | (*)               | 18.4                    | .20               | 20.8            |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC  | NC             | NC            | NC             | NC                   | NC             | NC                | NC             | NC                | NC                      | NC                | NC              |
| <b>Type of Housing Unit</b>                 |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Single-Family .....                         | 612.3   | 160.6          | 47.1          | 387.0          | 386                  | 25.4           | .18               | .6             | (*)               | 38.8                    | .42               | 14.9            |
| Mobile Home .....                           | 39.6  | 10.7           | 3.1           | 24.1           | 24                   | NC             | NC                | Q              | Q                 | 4.7                     | .05               | 51.7            |
| Multifamily (2 or more units) ...           | 110.0   | 23.3           | 6.8           | 82.8           | 81                   | Q              | Q                 | NC             | NC                | Q                       | Q                 | 28.0            |
| <b>Heated Floorspace (square feet)</b>      |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Fewer than 1,000 .....                      | 150.4   | 34.8           | 10.2          | 103.3          | 103                  | Q              | Q                 | Q              | Q                 | 7.8                     | .09               | 16.4            |
| 1,000 to 1,999 .....                        | 282.6   | 75.8           | 22.2          | 178.8          | 178                  | 7.3            | .05               | Q              | Q                 | 20.3                    | .22               | 19.1            |
| 2,000 or More .....                         | 328.9   | 84.0           | 24.6          | 211.8          | 211                  | 16.5           | .12               | Q              | Q                 | 16.5                    | .18               | 16.5            |
| <b>Ownership of Unit</b>                    |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Owned .....                                 | 577.5   | 155.6          | 45.6          | 358.8          | 358                  | 24.2           | .18               | .6             | (*)               | 38.2                    | .42               | 14.3            |
| Rented .....                                | 184.3   | 39.0           | 11.4          | 135.0          | 133                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 25.4            |
| <b>Year of Construction</b>                 |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 1949 or Before .....                        | 305.7   | 58.5           | 17.2          | 209.3          | 208                  | 16.3           | .12               | Q              | Q                 | 21.2                    | .23               | 17.8            |
| 1950 to 1979 .....                          | 390.2   | 112.5          | 33.0          | 250.7          | 249                  | 11.9           | .09               | Q              | Q                 | 14.9                    | .16               | 17.6            |
| 1980 or After <sup>3</sup> .....            | 65.9  | 23.5           | 6.9           | 33.9           | 34                   | NC             | NC                | NC             | NC                | 8.4                     | .09               | 40.7            |
| <b>1990 Family Income</b>                   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Less than \$10,000 .....                    | 109.7   | 21.0           | 6.2           | 73.3           | 73                   | 7.3            | .05               | Q              | Q                 | 8.1                     | .09               | 26.7            |
| \$10,000 to \$19,999 .....                  | 172.3   | 38.7           | 11.3          | 118.4          | 118                  | Q              | Q                 | Q              | Q                 | 11.4                    | .12               | 20.1            |
| \$20,000 to \$34,999 .....                  | 208.0   | 55.3           | 16.2          | 135.8          | 135                  | Q              | Q                 | Q              | Q                 | 13.9                    | .15               | 18.4            |
| \$35,000 or More .....                      | 271.9   | 79.5           | 23.3          | 166.3          | 165                  | 14.5           | .10               | .3             | (*)               | 11.2                    | .12               | 19.2            |
| <b>Below Poverty Line</b>                   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 100 Percent .....                           | 65.2  | 14.4           | 4.2           | 40.2           | 40                   | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 36.6            |
| 125 Percent .....                           | 108.3   | 24.7           | 7.2           | 64.5           | 64                   | Q              | Q                 | Q              | Q                 | 13.4                    | .15               | 33.7            |
| <b>Age of Householder</b>                   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 35 Years .....                        | 193.0   | 46.9           | 13.7          | 129.0          | 128                  | Q              | Q                 | Q              | Q                 | 10.5                    | .12               | 18.6            |
| 35 to 59 Years .....                        | 332.0   | 94.3           | 27.6          | 202.6          | 201                  | 14.5           | .10               | .4             | (*)               | 20.2                    | .22               | 17.2            |
| 60 Years and Over .....                     | 236.8   | 53.4           | 15.6          | 162.2          | 162                  | 7.3            | .05               | Q              | Q                 | 13.9                    | .15               | 18.8            |
| <b>Household Size</b>                       |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 1 Person .....                              | 177.7   | 33.7           | 9.9           | 133.6          | 133                  | Q              | Q                 | Q              | Q                 | 6.0                     | .07               | 25.3            |
| 2 to 4 Persons .....                        | 528.8   | 144.3          | 42.3          | 329.2          | 327                  | 23.3           | .17               | .5             | (*)               | 31.5                    | .34               | 13.1            |
| 5 or More Persons .....                     | 55.4  | 16.5           | 4.8           | 31.1           | 31                   | Q              | Q                 | Q              | Q                 | 7.1                     | .08               | 33.4            |

1 Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.  
 2 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.  
 3 Does not include all new construction for 1990.  
 NC = No cases in sample.  
 (\*) = Data cannot be displayed due to rounding.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 NF = No applicable RSE row/column factor.  
 Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 30. Total Expenditures in Midwest Region Households, 1990  
(Billion Dollars)

| Characteristics                             | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|   | RSE Column Factors:               | 0.5         | 0.6         | 1.9      | 2.8      | 1.6                     |                 |
| Midwest Region                              |                                   |             |             |          |          |                         |                 |
| <b>Total Region</b> .....                   | 26.89                             | 15.37       | 9.23        | 0.93     | 0.09     | 1.28                    | 9.2             |
| <b>Climate Zone<sup>2</sup></b>             |                                   |             |             |          |          |                         |                 |
| Under 2,000 HDD and Over 5,500 HDD .....    | 22.55                             | 12.54       | 8.05        | .89      | Q        | .99                     | 11.3            |
| Under 5,500 HDD and 2,000 HDD or More ..... | 4.34                              | 2.83        | 1.18        | Q        | (*)      | Q                       | 32.3            |
| Under 4,000 HDD .....                       | NC                                | NC          | NC          | NC       | NC       | NC                      | NC              |
| <b>Type of Housing Unit</b>                 |                                   |             |             |          |          |                         |                 |
| Single-Family .....                         | 20.78                             | 11.83       | 6.97        | .87      | .04      | 1.07                    | 10.9            |
| Mobile Home .....                           | 1.79                              | 1.09        | .45         | Q        | Q        | .18                     | 41.3            |
| Multifamily (2 or more units) .....         | 4.32                              | 2.45        | 1.81        | Q        | Q        | Q                       | 16.3            |
| <b>Heated Floorspace (square feet)</b>      |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                      | 5.51                              | 3.27        | 1.72        | .14      | Q        | .33                     | 18.5            |
| 1,000 to 1,999 .....                        | 10.17                             | 5.72        | 3.53        | .37      | .03      | .52                     | 11.5            |
| 2,000 or More .....                         | 11.21                             | 6.38        | 3.98        | .42      | Q        | .42                     | 14.6            |
| <b>Ownership of Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Owned .....                                 | 20.94                             | 12.15       | 6.76        | .84      | Q        | 1.12                    | 8.5             |
| Rented .....                                | 5.95                              | 3.22        | 2.47        | .09      | .02      | .15                     | 15.8            |
| <b>Year of Construction</b>                 |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                        | 10.63                             | 5.16        | 4.44        | .48      | .03      | .51                     | 14.2            |
| 1950 to 1979 .....                          | 12.82                             | 7.99        | 3.88        | .44      | Q        | .47                     | 12.8            |
| 1980 or After <sup>3</sup> .....            | 3.44                              | 2.21        | .92         | Q        | Q        | .29                     | 27.0            |
| <b>1990 Family Income</b>                   |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                    | 3.80                              | 1.77        | 1.54        | .20      | Q        | .28                     | 27.0            |
| \$10,000 to \$19,999 .....                  | 5.07                              | 2.75        | 1.82        | .14      | Q        | .34                     | 15.2            |
| \$20,000 to \$34,999 .....                  | 7.46                              | 4.46        | 2.32        | .31      | Q        | .32                     | 17.7            |
| \$35,000 or More .....                      | 10.56                             | 6.38        | 3.56        | .28      | .01      | .34                     | 15.1            |
| <b>Below Poverty Line</b>                   |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                           | 2.78                              | 1.35        | 1.03        | .17      | Q        | .22                     | 23.8            |
| 125 Percent .....                           | 4.05                              | 1.99        | 1.46        | .19      | .01      | .41                     | 21.5            |
| <b>Age of Householder</b>                   |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                        | 7.14                              | 4.07        | 2.56        | .19      | .02      | .30                     | 14.4            |
| 35 to 59 Years .....                        | 12.30                             | 7.38        | 3.93        | .37      | Q        | .56                     | 11.3            |
| 60 Years and Over .....                     | 7.44                              | 3.91        | 2.73        | .36      | Q        | .42                     | 15.0            |
| <b>Household Size</b>                       |                                   |             |             |          |          |                         |                 |
| 1 Person .....                              | 4.92                              | 2.54        | 2.12        | .08      | Q        | Q                       | 18.6            |
| 2 to 4 Persons .....                        | 18.98                             | 11.07       | 6.19        | .76      | .06      | .90                     | 10.6            |
| 5 or More Persons .....                     | 2.99                              | 1.75        | .92         | Q        | Q        | .22                     | 20.5            |

See footnotes at end of table.

**Table 30. Total Expenditures in Midwest Region Households, 1990 (Continued)**  
(Billion Dollars)

| Characteristics                             | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
| RSE Column Factors:                         | 0.4                               | 0.5         | 0.6         | 1.9      | 2.8      | 1.6                     |                 |
| <b>East North Central Division</b> .....    | 19.58                             | 11.00       | 6.90        | 0.72     | Q        | 0.88                    | 10.5            |
| <b>Climate Zone<sup>2</sup></b>             |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 18.32                             | 10.25       | 6.54        | .70      | Q        | .76                     | 14.1            |
| Under 5,500 HDD .....                       | Q                                 | Q           | Q           | Q        | Q        | Q                       | NF              |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                                | NC          | NC          | NC       | NC       | NC                      | NC              |
| <b>Type of Housing Unit</b>                 |                                   |             |             |          |          |                         |                 |
| Single-Family .....                         | 14.80                             | 8.22        | 5.14        | .68      | Q        | .72                     | 14.2            |
| Mobile Home .....                           | 1.39                              | .85         | .34         | Q        | Q        | .13                     | 51.4            |
| Multifamily (2 or more units) ...           | 3.39                              | 1.93        | 1.43        | Q        | Q        | Q                       | 19.0            |
| <b>Heated Floor/space (square feet)</b>     |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                      | 4.13                              | 2.48        | 1.23        | Q        | Q        | .26                     | 27.9            |
| 1,000 to 1,999 .....                        | 7.39                              | 4.01        | 2.70        | .32      | .03      | .34                     | 14.7            |
| 2,000 or More .....                         | 8.06                              | 4.50        | 2.97        | .30      | Q        | .28                     | 19.4            |
| <b>Ownership of Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Owned .....                                 | 15.24                             | 8.68        | 5.06        | .66      | Q        | .78                     | 11.2            |
| Rented .....                                | 4.33                              | 2.31        | 1.84        | Q        | .02      | Q                       | 15.0            |
| <b>Year of Construction</b>                 |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                        | 8.02                              | 3.83        | 3.48        | .36      | .02      | .33                     | 17.3            |
| 1950 to 1979 .....                          | 8.89                              | 5.49        | 2.68        | .35      | Q        | .34                     | 17.0            |
| 1980 or After <sup>3</sup> .....            | 2.67                              | 1.68        | .74         | Q        | Q        | .21                     | 33.0            |
| <b>1990 Family Income</b>                   |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                    | 2.83                              | 1.27        | 1.20        | .14      | Q        | Q                       | 35.0            |
| \$10,000 to \$19,999 .....                  | 3.51                              | 1.87        | 1.26        | Q        | Q        | .23                     | 18.4            |
| \$20,000 to \$34,999 .....                  | 5.47                              | 3.24        | 1.69        | .29      | Q        | .20                     | 22.5            |
| \$35,000 or More .....                      | 7.78                              | 4.62        | 2.75        | .17      | (*)      | .24                     | 20.0            |
| <b>Below Poverty Line</b>                   |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                           | 2.16                              | 1.01        | .84         | .14      | Q        | .16                     | 27.9            |
| 125 Percent .....                           | 3.00                              | 1.41        | 1.16        | .15      | Q        | .28                     | 28.5            |
| <b>Age of Householder</b>                   |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                        | 5.30                              | 3.00        | 1.94        | .14      | .02      | .20                     | 16.8            |
| 35 to 59 Years .....                        | 8.95                              | 5.28        | 2.97        | .27      | Q        | .38                     | 14.3            |
| 60 Years and Over .....                     | 5.33                              | 2.72        | 1.99        | .31      | Q        | .30                     | 19.2            |
| <b>Household Size</b>                       |                                   |             |             |          |          |                         |                 |
| 1 Person .....                              | 3.43                              | 1.75        | 1.50        | Q        | Q        | Q                       | 26.3            |
| 2 to 4 Persons .....                        | 13.76                             | 7.88        | 4.62        | .58      | .05      | .63                     | 13.6            |
| 5 or More Persons .....                     | 2.38                              | 1.37        | .78         | Q        | Q        | .16                     | 24.0            |

See footnotes at end of table.

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**Table 30. Total Expenditures in Midwest Region Households, 1990 (Continued)**  
(Billion Dollars)

| Characteristics                                | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|--|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
| RSE Column Factors:                            | 0.4                               | 0.5         | 0.6         | 1.9      | 2.8      | 1.6                     |                 |
| <b>West North Central Division ...</b>         | 7.31                              | 4.37        | 2.33        | 0.21     | 0.01     | 0.40                    | 12.0            |
| <b>Climate Zone<sup>2</sup></b>                |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and<br>Over 5,500 HDD .....    | 4.23                              | 2.29        | 1.52        | .19      | Q        | .23                     | 13.6            |
| Under 5,500 HDD .....                          | 3.08                              | 2.08        | .81         | Q        | (*)      | .17                     | 21.5            |
| 2,000 CDD or More and<br>Under 4,000 HDD ..... | NC                                | NC          | NC          | NC       | NC       | NC                      | NC              |
| <b>Type of Housing Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Single-Family .....                            | 5.99                              | 3.61        | 1.83        | .19      | .01      | .34                     | 13.6            |
| Mobile Home .....                              | .39                               | .23         | .11         | NC       | Q        | .04                     | 51.3            |
| Multifamily (2 or more units) ...              | .93                               | .52         | .38         | Q        | NC       | Q                       | 25.7            |
| <b>Heated Floorspace<br/>(square feet)</b>     |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                         | 1.38                              | .79         | .49         | Q        | Q        | .07                     | 17.1            |
| 1,000 to 1,999 .....                           | 2.78                              | 1.71        | .83         | .05      | Q        | .18                     | 17.4            |
| 2,000 or More .....                            | 3.15                              | 1.87        | 1.01        | .12      | Q        | .14                     | 15.7            |
| <b>Ownership of Unit</b>                       |                                   |             |             |          |          |                         |                 |
| Owned .....                                    | 5.70                              | 3.47        | 1.70        | .18      | .01      | .34                     | 12.8            |
| Rented .....                                   | 1.61                              | .90         | .63         | Q        | Q        | Q                       | 26.0            |
| <b>Year of Construction</b>                    |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                           | 2.60                              | 1.33        | .96         | .12      | Q        | .19                     | 16.4            |
| 1950 to 1979 .....                             | 3.93                              | 2.51        | 1.20        | .09      | Q        | .14                     | 15.6            |
| 1980 or After <sup>3</sup> .....               | .78                               | .53         | .17         | NC       | NC       | .07                     | 41.8            |
| <b>1990 Family Income</b>                      |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                       | .97                               | .50         | .34         | .05      | Q        | .07                     | 24.7            |
| \$10,000 to \$19,999 .....                     | 1.57                              | .88         | .55         | Q        | Q        | .11                     | 17.0            |
| \$20,000 to \$34,999 .....                     | 1.99                              | 1.22        | .63         | Q        | Q        | .12                     | 16.9            |
| \$35,000 or More .....                         | 2.79                              | 1.77        | .81         | .11      | Q        | .10                     | 18.3            |
| <b>Below Poverty Line</b>                      |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                              | .62                               | .34         | .19         | Q        | Q        | Q                       | 37.0            |
| 125 Percent .....                              | 1.05                              | .58         | .30         | Q        | Q        | .13                     | 33.0            |
| <b>Age of Householder</b>                      |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                           | 1.84                              | 1.07        | .62         | Q        | Q        | .10                     | 19.3            |
| 35 to 59 Years .....                           | 3.36                              | 2.11        | .96         | .11      | (*)      | .18                     | 16.3            |
| 60 Years and Over .....                        | 2.11                              | 1.19        | .74         | .05      | Q        | .12                     | 17.2            |
| <b>Household Size</b>                          |                                   |             |             |          |          |                         |                 |
| 1 Person .....                                 | 1.49                              | .79         | .61         | Q        | Q        | .06                     | 22.3            |
| 2 to 4 Persons .....                           | 5.21                              | 3.19        | 1.57        | .17      | (*)      | .27                     | 11.6            |
| 5 or More Persons .....                        | .60                               | .38         | .15         | Q        | Q        | .07                     | 34.0            |

<sup>1</sup> Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>3</sup> Does not include all new construction for 1990.

NC = No cases in sample.

(\*) = Data cannot be displayed due to rounding.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**ENERGY CONSUMPTION AND EXPENDITURES**

**Table 31. Electricity Consumption and Expenditures in Midwest Region Households, 1990**

| Characteristics                        | Households Using Electricity (million) | Average per Household     |        |                        | Expenditures (cents per kWh) | RSE Row Factors |
|--|--|---------------------------|--------|------------------------|------------------------------|-----------------|
|  |  | Consumption (million Btu) | (kWh)  | Expenditures (dollars) |                              |                 |
| RSE Column Factors:                    | 1.4                                    | 1.1                       | 1.1    | 0.9                    | 0.8                          | 0.8             |
| <b>Midwest Region</b>                  |  |                           |        |                        |                              |                 |
| <b>Total Region</b> .....              | 23.1                                   | 28.8                      | 8,430  | 666                    | 2,035                        | 7.9             |
| <b>Climate Zone<sup>1</sup></b>        |  |                           |        |                        |                              | 4.0             |
| Under 2,000 CDD and                    |  |                           |        |                        |                              |                 |
| Over 5,500 HDD .....                   | 19.7                                   | 27.7                      | 8,107  | 637                    | 2,023                        | 7.9             |
| Under 5,500 HDD .....                  | 3.4                                    | 35.2                      | 10,308 | 836                    | 2,105                        | 8.1             |
| 2,000 CDD or More and                  |  |                           |        |                        |                              | 6.4             |
| Under 4,000 HDD .....                  | NC                                     | NC                        | NC     | NC                     | NC                           | NC              |
| <b>Type of Housing Unit</b>            |  |                           |        |                        |                              | NC              |
| Single-Family .....                    | 16.0                                   | 32.6                      | 9,559  | 739                    | 2,477                        | 7.7             |
| Mobile Home .....                      | 1.6                                    | 28.1                      | 8,248  | 675                    | 958                          | 8.2             |
| Multifamily ( 2 or more units) ..      | 5.4                                    | 17.6                      | 5,165  | 450                    | 1,053                        | 8.7             |
| <b>Heated Floorspace (square feet)</b> |  |                           |        |                        |                              | 3.7             |
| Fewer than 1,000 .....                 | 6.5                                    | 20.8                      | 6,088  | 500                    | 848                          | 8.2             |
| 1,000 to 1,999 .....                   | 8.8                                    | 28.7                      | 8,407  | 653                    | 1,812                        | 7.8             |
| 2,000 or More .....                    | 7.8                                    | 35.6                      | 10,426 | 820                    | 3,282                        | 7.9             |
| <b>Ownership of Unit</b>               |  |                           |        |                        |                              | 5.1             |
| Owned .....                            | 16.4                                   | 32.7                      | 9,592  | 742                    | 2,361                        | 8.2             |
| Rented .....                           | 6.7                                    | 19.1                      | 5,589  | 480                    | 1,236                        | 8.6             |
| <b>Year of Construction</b>            |  |                           |        |                        |                              | 3.5             |
| 1949 or Before .....                   | 9.0                                    | 24.2                      | 7,106  | 575                    | 2,063                        | 7.7             |
| 1950 to 1979 .....                     | 11.3                                   | 31.1                      | 9,113  | 709                    | 1,931                        | 8.1             |
| 1980 or After <sup>2</sup> .....       | 2.8                                    | 33.8                      | 9,913  | 782                    | 2,358                        | 7.8             |
| <b>1990 Family Income</b>              |  |                           |        |                        |                              | 4.4             |
| Less than \$10,000 .....               | 3.7                                    | 19.8                      | 5,816  | 473                    | 1,561                        | 8.1             |
| \$10,000 to \$19,999 .....             | 5.2                                    | 22.1                      | 6,463  | 533                    | 1,626                        | 8.2             |
| \$20,000 to \$34,999 .....             | 6.4                                    | 30.4                      | 8,897  | 693                    | 2,022                        | 8.2             |
| \$35,000 or More .....                 | 7.7                                    | 36.2                      | 10,620 | 826                    | 2,547                        | 7.8             |
| <b>Below Poverty Line</b>              |  |                           |        |                        |                              | 5.5             |
| 100 Percent .....                      | 2.7                                    | 21.1                      | 6,184  | 508                    | 1,521                        | 8.1             |
| 125 Percent .....                      | 3.9                                    | 21.3                      | 6,257  | 511                    | 1,523                        | 8.2             |
| <b>Age of Householder</b>              |  |                           |        |                        |                              | 5.6             |
| Under 35 Years .....                   | 6.7                                    | 26.5                      | 7,755  | 607                    | 1,693                        | 8.2             |
| 35 to 59 Years .....                   | 9.4                                    | 34.0                      | 9,953  | 785                    | 2,288                        | 7.8             |
| 60 Years and Over .....                | 7.0                                    | 24.0                      | 7,022  | 562                    | 2,022                        | 7.9             |
| <b>Household Size</b>                  |  |                           |        |                        |                              | 8.0             |
| 1 Person .....                         | 6.0                                    | 17.0                      | 4,983  | 423                    | 1,462                        | 8.0             |
| 2 to 4 Persons .....                   | 15.0                                   | 32.0                      | 9,369  | 736                    | 2,217                        | 8.5             |
| 5 or More Persons .....                | 2.0                                    | 39.9                      | 11,702 | 869                    | 2,381                        | 7.9             |
|  |  |                           |        |                        |                              | 7.4             |
|  |  |                           |        |                        |                              | 5.0             |
|  |  |                           |        |                        |                              | 2.9             |
|  |  |                           |        |                        |                              | 9.6             |

See footnotes at end of table.

**MIDWEST**

Table 31. Electricity Consumption and Expenditures in Midwest Region Households, 1990 (Continued)

| Characteristics   | Households Using Electricity (million) | Average per Household |        |                        |                          | RSE Row Factors |                              |
|---|--|-----------------------|--------|------------------------|--------------------------|-----------------|------------------------------|
|   |  | Consumption           |        | Expenditures (dollars) | Floorspace (square feet) |                 | Expenditures (cents per kWh) |
|   |  | (million Btu)         | (kWh)  |                        |                          |                 |                              |
| RSE Column Factors:   | 1.4                                    | 1.1                   | 1.1    | 0.9                    | 0.8                      | 0.8             |                              |
| <b>East North Central Division</b> ....                         | 16.6                                   | 28.2                  | 8,274  | 662                    | 2,032                    | 8.0             | 4.2                          |
| <b>Climate Zone<sup>1</sup></b>                                 |  |                       |        |                        |                          |                 |                              |
| Under 2,000 HDD and Over 5,500 HDD .....                        | 15.7                                   | 28.1                  | 8,244  | 653                    | 2,032                    | 7.9             | 5.3                          |
| Under 5,500 HDD and 2,000 HDD or More and Under 4,000 HDD ..... | NC                                     | NC                    | NC     | NC                     | NC                       | NC              | NC                           |
| <b>Type of Housing Unit</b>                                     |  |                       |        |                        |                          |                 |                              |
| Single-Family .....   | 11.3                                   | 32.2                  | 9,425  | 730                    | 2,509                    | 7.7             | 5.2                          |
| Mobile Home .....   | 1.2                                    | 28.2                  | 8,274  | 695                    | 943                      | 8.4             | 13.3                         |
| Multifamily ( 2 or more units) ..                               | 4.1                                    | 17.6                  | 5,146  | 466                    | 1,057                    | 9.1             | 7.5                          |
| <b>Heated Floorspace (square feet)</b>                          |  |                       |        |                        |                          |                 |                              |
| Fewer than 1,000 .....  | 4.8                                    | 21.1                  | 6,174  | 517                    | 849                      | 8.4             | 6.5                          |
| 1,000 to 1,999 .....  | 6.3                                    | 28.0                  | 8,195  | 640                    | 1,804                    | 7.8             | 6.6                          |
| 2,000 or More .....   | 5.5                                    | 34.7                  | 10,180 | 812                    | 3,313                    | 8.0             | 4.7                          |
| <b>Ownership of Unit</b>  |  |                       |        |                        |                          |                 |                              |
| Owned .....   | 11.8                                   | 32.2                  | 9,436  | 735                    | 2,354                    | 7.8             | 4.9                          |
| Rented .....  | 4.8                                    | 18.5                  | 5,415  | 482                    | 1,240                    | 8.9             | 6.2                          |
| <b>Year of Construction</b>                                     |  |                       |        |                        |                          |                 |                              |
| 1949 or Before .....  | 6.6                                    | 24.0                  | 7,029  | 577                    | 2,071                    | 8.2             | 5.7                          |
| 1950 to 1979 .....  | 7.9                                    | 30.2                  | 8,851  | 696                    | 1,888                    | 7.9             | 6.5                          |
| 1980 or After <sup>2</sup> .....                                | 2.1                                    | 34.3                  | 10,041 | 799                    | 2,450                    | 8.0             | 10.1                         |
| <b>1990 Family Income</b>                                       |  |                       |        |                        |                          |                 |                              |
| Less than \$10,000 .....  | 2.7                                    | 19.9                  | 5,822  | 474                    | 1,611                    | 8.1             | 7.2                          |
| \$10,000 to \$19,999 .....                                      | 3.6                                    | 21.1                  | 6,178  | 524                    | 1,559                    | 8.5             | 5.2                          |
| \$20,000 to \$34,999 .....                                      | 4.6                                    | 30.3                  | 8,887  | 702                    | 2,047                    | 7.9             | 7.1                          |
| \$35,000 or More .....  | 5.7                                    | 34.9                  | 10,222 | 803                    | 2,510                    | 7.9             | 6.2                          |
| <b>Below Poverty Line</b>                                       |  |                       |        |                        |                          |                 |                              |
| 100 Percent .....   | 2.0                                    | 20.7                  | 6,074  | 505                    | 1,564                    | 8.3             | 6.7                          |
| 125 Percent .....   | 2.8                                    | 20.8                  | 6,100  | 504                    | 1,559                    | 8.3             | 6.6                          |
| <b>Age of Householder</b>                                       |  |                       |        |                        |                          |                 |                              |
| Under 35 Years .....  | 4.9                                    | 26.4                  | 7,744  | 608                    | 1,680                    | 7.8             | 8.7                          |
| 35 to 59 Years .....  | 6.8                                    | 33.3                  | 9,772  | 782                    | 2,303                    | 8.0             | 5.0                          |
| 60 Years and Over .....   | 4.9                                    | 23.0                  | 6,751  | 552                    | 2,014                    | 8.2             | 5.5                          |
| <b>Household Size</b>   |  |                       |        |                        |                          |                 |                              |
| 1 Person .....  | 4.2                                    | 16.3                  | 4,791  | 418                    | 1,457                    | 8.7             | 7.2                          |
| 2 to 4 Persons .....  | 10.8                                   | 31.1                  | 9,107  | 727                    | 2,210                    | 8.0             | 4.0                          |
| 5 or More Persons .....   | 1.6                                    | 40.2                  | 11,773 | 859                    | 2,333                    | 7.3             | 12.0                         |

See footnotes at end of table.

# ENERGY CONSUMPTION AND EXPENDITURES

## Table 31. Electricity Consumption and Expenditures in Midwest Region Households, 1990 (Continued)

| Characteristics                             | Households Using Electricity (million) | Average per Household     |                        |                          | RSE Flow Factors |                              |      |
|---|--|---------------------------|------------------------|--------------------------|------------------|------------------------------|------|
|   |  | Consumption (million Btu) | Expenditures (dollars) | Floorspace (square feet) |                  | Expenditures (cents per kWh) |      |
| RSE Column Factors:                         | 1.4                                    | 1.1                       | 1.1                    | 0.9                      | 0.8              |                              |      |
| <b>West North Central Division ...</b>      | 6.5                                    | 30.1                      | 8,832                  | 677                      | 2,041            | 7.7                          | 3.2  |
| <b>Climate Zone<sup>1</sup></b>             |  |                           |                        |                          |                  |                              |      |
| Under 2,000 CDD and Over 5,500 HDD .....    | 4.0                                    | 25.8                      | 7,571                  | 573                      | 1,988            | 7.6                          | 3.6  |
| Under 5,500 HDD .....                       | 2.5                                    | 37.1                      | 10,879                 | 845                      | 2,128            | 7.8                          | 6.0  |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                                     | NC                        | NC                     | NC                       | NC               | NC                           | NC   |
| <b>Type of Housing Unit</b>                 |  |                           |                        |                          |                  |                              |      |
| Single-Family .....                         | 4.8                                    | 33.7                      | 9,875                  | 758                      | 2,400            | 7.7                          | 3.4  |
| Mobile Home .....                           | 4                                      | 27.9                      | 8,169                  | 609                      | 1,007            | 7.5                          | 13.0 |
| Multifamily ( 2 or more units) ..           | 1.3                                    | 17.8                      | 5,226                  | 400                      | 1,038            | 7.7                          | 7.5  |
| <b>Heated Floorspace (square feet)</b>      |  |                           |                        |                          |                  |                              |      |
| Fewer than 1,000 .....                      | 1.7                                    | 20.0                      | 5,850                  | 454                      | 845              | 7.8                          | 5.6  |
| 1,000 to 1,999 .....                        | 2.5                                    | 30.5                      | 8,942                  | 686                      | 1,834            | 7.7                          | 3.7  |
| 2,000 or More .....                         | 2.2                                    | 37.7                      | 11,039                 | 840                      | 3,207            | 7.6                          | 4.4  |
| <b>Ownership of Unit</b>                    |  |                           |                        |                          |                  |                              |      |
| Owned .....                                 | 4.6                                    | 34.1                      | 9,995                  | 760                      | 2,380            | 7.6                          | 3.7  |
| Rented .....                                | 1.9                                    | 20.6                      | 6,031                  | 476                      | 1,226            | 7.9                          | 6.5  |
| <b>Year of Construction</b>                 |  |                           |                        |                          |                  |                              |      |
| 1949 or Before .....                        | 2.3                                    | 25.0                      | 7,322                  | 569                      | 2,039            | 7.8                          | 3.6  |
| 1950 to 1979 .....                          | 3.4                                    | 33.2                      | 9,724                  | 739                      | 2,032            | 7.6                          | 4.7  |
| 1980 or After <sup>2</sup> .....            | 7                                      | 32.6                      | 9,540                  | 732                      | 2,088            | 7.7                          | 8.4  |
| <b>1990 Family Income</b>                   |  |                           |                        |                          |                  |                              |      |
| Less than \$10,000 .....                    | 1.1                                    | 19.8                      | 5,802                  | 472                      | 1,437            | 8.1                          | 6.2  |
| \$10,000 to \$19,999 .....                  | 1.6                                    | 24.2                      | 7,100                  | 552                      | 1,778            | 7.8                          | 4.6  |
| \$20,000 to \$34,999 .....                  | 1.8                                    | 30.4                      | 8,921                  | 671                      | 1,960            | 7.5                          | 3.9  |
| \$35,000 or More .....                      | 2.0                                    | 40.2                      | 11,774                 | 893                      | 2,653            | 7.6                          | 6.0  |
| <b>Below Poverty Line</b>                   |  |                           |                        |                          |                  |                              |      |
| 100 Percent .....                           | 6                                      | 22.3                      | 6,523                  | 516                      | 1,389            | 7.9                          | 9.1  |
| 125 Percent .....                           | 1.1                                    | 22.7                      | 6,661                  | 531                      | 1,432            | 8.0                          | 6.4  |
| <b>Age of Householder</b>                   |  |                           |                        |                          |                  |                              |      |
| Under 35 Years .....                        | 1.8                                    | 26.6                      | 7,786                  | 606                      | 1,729            | 7.8                          | 4.9  |
| 35 to 59 Years .....                        | 2.7                                    | 35.5                      | 10,414                 | 793                      | 2,250            | 7.6                          | 5.0  |
| 60 Years and Over .....                     | 2.0                                    | 26.2                      | 7,676                  | 586                      | 2,040            | 7.6                          | 5.9  |
| <b>Household Size</b>                       |  |                           |                        |                          |                  |                              |      |
| 1 Person .....                              | 1.8                                    | 18.5                      | 5,425                  | 436                      | 1,472            | 8.0                          | 5.4  |
| 2 to 4 Persons .....                        | 4.2                                    | 34.3                      | 10,043                 | 758                      | 2,235            | 7.5                          | 3.4  |
| 5 or More Persons .....                     | 4                                      | 39.0                      | 11,435                 | 905                      | 2,559            | 7.9                          | 6.9  |

1 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.  
 2 Does not include all new construction for 1990.

NC = No cases in sample.

O = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 32. Natural Gas Consumption and Expenditures in Midwest Region Households, 1990

| Characteristics                             | Households Using Natural Gas (million) | Average per Household |               |                        |                          | RSE Row Factors |  |
|---|--|-----------------------|---------------|------------------------|--------------------------|-----------------|--|
|   |  | Consumption           |               | Expenditures (dollars) | Floorspace (square feet) |                 | Expenditures (dollars per thousand cf) |
|   |  | (million Btu)         | (thousand cf) |                        |                          |                 |  |
| RSE Column Factors:                         | 2.3                                    | 1.0                   | 1.0           | 0.9                    | 1.0                      | 0.4             |  |
| <b>Midwest Region</b>                       |  |                       |               |                        |                          |                 |  |
| <b>Total Region</b> .....                   | 16.9                                   | 111.6                 | 109.6         | 548                    | 2,059                    | 5.0             |  |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |               |                        |                          |                 |  |
| Under 2,000 HDD and Over 5,500 HDD .....    | 14.5                                   | 113.3                 | 111.2         | 555                    | 2,035                    | 5.0             |  |
| Under 5,500 HDD .....                       | 2.3                                    | 101.3                 | 99.8          | 502                    | 2,208                    | 5.0             |  |
| 2,000 HDD or More and Under 4,000 HDD ..... | NC                                     | NC                    | NC            | NC                     | NC                       | NC              |  |
| <b>Type of Housing Unit</b>                 |  |                       |               |                        |                          |                 |  |
| Single-Family .....                         | 11.7                                   | 122.2                 | 120.1         | 595                    | 2,492                    | 4.9             |  |
| Mobile Home .....                           | 1.0                                    | 87.0                  | 85.5          | 466                    | 1,022                    | 5.4             |  |
| Multifamily (2 or more units) ..            | 4.2                                    | 87.5                  | 85.4          | 434                    | 1,081                    | 5.1             |  |
| <b>Heated Floorspace (square feet)</b>      |  |                       |               |                        |                          |                 |  |
| Fewer than 1,000 .....                      | 4.5                                    | 75.9                  | 74.3          | 382                    | 810                      | 5.1             |  |
| 1,000 to 1,999 .....                        | 6.4                                    | 110.8                 | 108.9         | 551                    | 1,794                    | 5.1             |  |
| 2,000 or More .....                         | 5.9                                    | 139.7                 | 137.1         | 670                    | 3,293                    | 4.9             |  |
| <b>Ownership of Unit</b>                    |  |                       |               |                        |                          |                 |  |
| Owned .....                                 | 11.3                                   | 121.7                 | 119.6         | 596                    | 2,443                    | 5.0             |  |
| Rented .....                                | 5.5                                    | 90.8                  | 88.9          | 448                    | 1,269                    | 5.0             |  |
| <b>Year of Construction</b>                 |  |                       |               |                        |                          |                 |  |
| 1949 or Before .....                        | 7.2                                    | 124.3                 | 122.0         | 612                    | 2,014                    | 5.0             |  |
| 1950 to 1979 .....                          | 7.8                                    | 101.5                 | 99.6          | 498                    | 1,980                    | 5.0             |  |
| 1980 or After <sup>2</sup> .....            | 1.8                                    | 104.8                 | 102.9         | 501                    | 2,574                    | 4.9             |  |
| <b>1990 Family Income</b>                   |  |                       |               |                        |                          |                 |  |
| Less than \$10,000 .....                    | 2.8                                    | 113.0                 | 110.7         | 560                    | 1,620                    | 5.1             |  |
| \$10,000 to \$19,999 .....                  | 3.8                                    | 96.4                  | 94.7          | 480                    | 1,627                    | 5.1             |  |
| \$20,000 to \$34,999 .....                  | 4.5                                    | 104.1                 | 102.3         | 514                    | 1,995                    | 5.0             |  |
| \$35,000 or More .....                      | 5.8                                    | 126.8                 | 124.4         | 612                    | 2,598                    | 4.9             |  |
| <b>Below Poverty Line</b>                   |  |                       |               |                        |                          |                 |  |
| 100 Percent .....                           | 1.8                                    | 115.3                 | 112.7         | 576                    | 1,537                    | 5.4             |  |
| 125 Percent .....                           | 2.7                                    | 109.1                 | 106.8         | 544                    | 1,535                    | 5.1             |  |
| <b>Age of Householder</b>                   |  |                       |               |                        |                          |                 |  |
| Under 35 Years .....                        | 5.0                                    | 103.3                 | 101.3         | 512                    | 1,723                    | 5.1             |  |
| 35 to 59 Years .....                        | 6.7                                    | 120.8                 | 118.5         | 585                    | 2,384                    | 4.9             |  |
| 60 Years and Over .....                     | 5.1                                    | 107.8                 | 105.9         | 533                    | 2,028                    | 5.0             |  |
| <b>Household Size</b>                       |  |                       |               |                        |                          |                 |  |
| 1 Person .....                              | 4.6                                    | 93.6                  | 91.8          | 462                    | 1,581                    | 5.0             |  |
| 2 to 4 Persons .....                        | 10.9                                   | 115.5                 | 113.5         | 566                    | 2,212                    | 5.0             |  |
| 5 or More Persons .....                     | 1.3                                    | 141.8                 | 138.8         | 694                    | 2,443                    | 5.0             |  |

See footnotes at end of table.

**ENERGY CONSUMPTION AND EXPENDITURES**

**MIDWEST**

**Table 32. Natural Gas Consumption and Expenditures in Midwest Region Households, 1990 (Continued)**

| Characteristics                             | Households Using Natural Gas (million) | Average per Household     |               | Expenditures (dollars) | Floorspace (square feet) | Expenditures (dollars per thousand cf) | RSE Row Factors |
|---|--|---------------------------|---------------|------------------------|--------------------------|--|-----------------|
|   |  | Consumption (million Btu) | (thousand cf) |                        |                          |  |                 |
| RSE Column Factors:                         | 2.3                                    | 1.0                       | 1.0           | 0.9                    | 1.0                      | 0.4                                    |                 |
| <b>East North Central Division</b> ....     | 11.9                                   | 116.6                     | 114.0         | 580                    | 2,078                    | 5.1                                    | 2.5             |
| <b>Climate Zone<sup>1</sup></b>             |  |                           |               |                        |                          |  |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 11.2                                   | 117.1                     | 114.4         | 583                    | 2,079                    | 5.1                                    | 2.7             |
| Under 5,500 HDD .....                       | Q                                      | 109.5                     | 106.7         | 539                    | 2,061                    | 5.0                                    | 2.8             |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                                     | NC                        | NC            | NC                     | NC                       | NC                                     | NC              |
| <b>Type of Housing Unit</b>                 |  |                           |               |                        |                          |  |                 |
| Single-Family .....                         | 8.2                                    | 127.3                     | 124.5         | 626                    | 2,522                    | 5.0                                    | 2.8             |
| Mobile Home .....                           | .7                                     | 84.9                      | 82.8          | 475                    | 1,013                    | 5.7                                    | 6.3             |
| Multifamily (2 or more units) ...           | 3.0                                    | 94.7                      | 92.2          | 479                    | 1,106                    | 5.2                                    | 5.5             |
| <b>Heated Floorspace (square feet)</b>      |  |                           |               |                        |                          |  |                 |
| Fewer than 1,000 .....                      | 3.1                                    | 76.8                      | 74.8          | 397                    | 806                      | 5.3                                    | 5.4             |
| 1,000 to 1,999 .....                        | 4.6                                    | 116.1                     | 113.6         | 590                    | 1,794                    | 5.2                                    | 2.8             |
| 2,000 or More .....                         | 4.2                                    | 146.6                     | 143.3         | 705                    | 3,327                    | 4.9                                    | 3.3             |
| <b>Ownership of Unit</b>                    |  |                           |               |                        |                          |  |                 |
| Owned .....                                 | 8.0                                    | 127.3                     | 124.5         | 630                    | 2,456                    | 5.1                                    | 2.9             |
| Rented .....                                | 3.9                                    | 94.5                      | 92.1          | 476                    | 1,295                    | 5.2                                    | 4.9             |
| <b>Year of Construction</b>                 |  |                           |               |                        |                          |  |                 |
| 1949 or Before .....                        | 5.4                                    | 128.3                     | 125.4         | 646                    | 2,035                    | 5.2                                    | 3.7             |
| 1950 to 1979 .....                          | 5.2                                    | 104.1                     | 101.6         | 517                    | 1,949                    | 5.1                                    | 4.1             |
| 1980 or After <sup>2</sup> .....            | 1.3                                    | 118.2                     | 115.8         | 558                    | 2,752                    | 4.8                                    | 9.5             |
| <b>1990 Family Income</b>                   |  |                           |               |                        |                          |  |                 |
| Less than \$10,000 .....                    | 1.9                                    | 123.3                     | 120.0         | 623                    | 1,715                    | 5.2                                    | 6.2             |
| \$10,000 to \$19,999 .....                  | 2.5                                    | 97.2                      | 94.8          | 498                    | 1,568                    | 5.2                                    | 4.2             |
| \$20,000 to \$34,999 .....                  | 3.1                                    | 106.3                     | 103.8         | 539                    | 2,034                    | 5.2                                    | 3.8             |
| \$35,000 or More .....                      | 4.3                                    | 132.7                     | 129.9         | 640                    | 2,575                    | 4.9                                    | 4.4             |
| <b>Below Poverty Line</b>                   |  |                           |               |                        |                          |  |                 |
| 100 Percent .....                           | 1.3                                    | 125.2                     | 122.0         | 635                    | 1,645                    | 5.2                                    | 6.0             |
| 125 Percent .....                           | 1.9                                    | 118.9                     | 115.8         | 602                    | 1,620                    | 5.2                                    | 4.6             |
| <b>Age of Householder</b>                   |  |                           |               |                        |                          |  |                 |
| Under 35 Years .....                        | 3.6                                    | 107.6                     | 105.2         | 538                    | 1,735                    | 5.1                                    | 5.8             |
| 35 to 59 Years .....                        | 4.8                                    | 128.0                     | 125.1         | 624                    | 2,368                    | 5.0                                    | 3.2             |
| 60 Years and Over .....                     | 3.5                                    | 110.6                     | 107.9         | 564                    | 2,039                    | 5.2                                    | 3.5             |
| <b>Household Size</b>                       |  |                           |               |                        |                          |  |                 |
| 1 Person .....                              | 3.0                                    | 97.4                      | 95.0          | 497                    | 1,625                    | 5.2                                    | 6.8             |
| 2 to 4 Persons .....                        | 7.8                                    | 119.7                     | 117.1         | 592                    | 2,208                    | 5.1                                    | 2.7             |
| 5 or More Persons .....                     | 1.1                                    | 148.8                     | 145.0         | 732                    | 2,414                    | 5.0                                    | 5.3             |

See footnotes at end of table.

Table 32. Natural Gas Consumption and Expenditures in Midwest Region Households, 1990 (Continued)

| Characteristics                             | Households Using Natural Gas (million) | Average per Household |               |                        |                          | Expenditures (dollars per thousand cf) | RSE Row Factors |
|---|--|-----------------------|---------------|------------------------|--------------------------|--|-----------------|
|   |  | Consumption           |               | Expenditures (dollars) | Floorspace (square feet) |  |                 |
|   |  | (million Btu)         | (thousand cf) |                        |                          |  |                 |
| RSE Column Factors:                         | 2.3                                    | 1.0                   | 1.0           | 0.9                    | 1.0                      | 0.4                                    |                 |
| <b>West North Central Division ...</b>      | 5.0                                    | 99.6                  | 99.1          | 470                    | 2,013                    | 4.7                                    | 3.8             |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |               |                        |                          |  |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 3.3                                    | 100.4                 | 100.1         | 461                    | 1,884                    | 4.6                                    | 4.9             |
| Under 5,500 HDD .....                       | 1.7                                    | 98.0                  | 97.0          | 487                    | 2,268                    | 5.0                                    | 6.1             |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                                     | NC                    | NC            | NC                     | NC                       | NC                                     | NC              |
| <b>Type of Housing Unit</b>                 |  |                       |               |                        |                          |  |                 |
| Single-Family .....                         | 3.5                                    | 110.3                 | 109.9         | 522                    | 2,422                    | 4.7                                    | 3.7             |
| Mobile Home .....                           | .3                                     | 92.6                  | 93.0          | 441                    | 1,045                    | 4.7                                    | 13.1            |
| Multifamily (2 or more units) ...           | 1.2                                    | 69.7                  | 68.4          | 322                    | 1,018                    | 4.7                                    | 7.6             |
| <b>Heated Floorspace (square feet)</b>      |  |                       |               |                        |                          |  |                 |
| Fewer than 1,000 .....                      | 1.4                                    | 73.8                  | 73.2          | 347                    | 819                      | 4.7                                    | 6.5             |
| 1,000 to 1,999 .....                        | 1.8                                    | 97.6                  | 97.2          | 455                    | 1,795                    | 4.7                                    | 3.9             |
| 2,000 or More .....                         | 1.7                                    | 122.7                 | 122.0         | 585                    | 3,213                    | 4.8                                    | 3.9             |
| <b>Ownership of Unit</b>                    |  |                       |               |                        |                          |  |                 |
| Owned .....                                 | 3.3                                    | 108.2                 | 107.9         | 513                    | 2,411                    | 4.8                                    | 4.0             |
| Rented .....                                | 1.6                                    | 82.2                  | 81.2          | 382                    | 1,209                    | 4.7                                    | 5.3             |
| <b>Year of Construction</b>                 |  |                       |               |                        |                          |  |                 |
| 1949 or Before .....                        | 1.9                                    | 112.6                 | 112.1         | 515                    | 1,955                    | 4.6                                    | 5.8             |
| 1950 to 1979 .....                          | 2.6                                    | 96.2                  | 95.7          | 461                    | 2,039                    | 4.8                                    | 4.6             |
| 1980 or After <sup>2</sup> .....            | .5                                     | 68.7                  | 67.9          | 349                    | 2,094                    | 5.1                                    | 9.6             |
| <b>1990 Family Income</b>                   |  |                       |               |                        |                          |  |                 |
| Less than \$10,000 .....                    | .8                                     | 88.9                  | 88.6          | 410                    | 1,399                    | 4.6                                    | 10.4            |
| \$10,000 to \$19,999 .....                  | 1.2                                    | 94.8                  | 94.4          | 443                    | 1,747                    | 4.7                                    | 3.9             |
| \$20,000 to \$34,999 .....                  | 1.4                                    | 99.1                  | 98.8          | 458                    | 1,907                    | 4.6                                    | 5.4             |
| \$35,000 or More .....                      | 1.5                                    | 109.9                 | 108.8         | 534                    | 2,663                    | 4.9                                    | 5.4             |
| <b>Below Poverty Line</b>                   |  |                       |               |                        |                          |  |                 |
| 100 Percent .....                           | .5                                     | 86.8                  | 86.5          | 408                    | 1,229                    | 4.7                                    | 9.4             |
| 125 Percent .....                           | .8                                     | 84.4                  | 84.0          | 397                    | 1,321                    | 4.7                                    | 8.0             |
| <b>Age of Householder</b>                   |  |                       |               |                        |                          |  |                 |
| Under 35 Years .....                        | 1.4                                    | 92.2                  | 91.4          | 444                    | 1,692                    | 4.9                                    | 4.3             |
| 35 to 59 Years .....                        | 2.0                                    | 103.2                 | 102.5         | 491                    | 2,250                    | 4.8                                    | 4.1             |
| 60 Years and Over .....                     | 1.6                                    | 101.7                 | 101.6         | 466                    | 2,003                    | 4.6                                    | 6.5             |
| <b>Household Size</b>                       |  |                       |               |                        |                          |  |                 |
| 1 Person .....                              | 1.6                                    | 86.0                  | 85.6          | 394                    | 1,495                    | 4.6                                    | 7.3             |
| 2 to 4 Persons .....                        | 3.1                                    | 105.1                 | 104.4         | 501                    | 2,222                    | 4.8                                    | 3.2             |
| 5 or More Persons .....                     | .3                                     | 114.5                 | 114.6         | 545                    | 2,558                    | 4.8                                    | 6.5             |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 33. Fuel Oil Consumption and Expenditures in Midwest Region Households, 1990**

| Characteristics                        | Households Using Fuel Oil (million) | Average per Household     |                        | Expenditures (dollars per gallon) | RSE Row Factors |      |      |
|--|-------------------------------------|---------------------------|------------------------|-----------------------------------|-----------------|------|------|
|  |                                     | Consumption (million Btu) | Expenditures (dollars) |                                   |                 |      |      |
| RSE Column Factors:                    | 2.4                                 | 1.2                       | 1.2                    | 1.3                               | 1.0             | 0.2  |      |
| Midwest Region                         |                                     |                           |                        |                                   |                 |      |      |
| <b>Total Region</b>                    | 1.6                                 | 77.5                      | 563                    | 594                               | 2,450           | 1.05 | 7.4  |
| East North Central Division            | 1.2                                 | 75.7                      | 550                    | 585                               | 2,453           | 1.06 | 9.0  |
| West North Central Division            | .3                                  | 84.1                      | 610                    | 624                               | 2,441           | 1.02 | 12.0 |
| <b>Climate Zone<sup>1</sup></b>        |                                     |                           |                        |                                   |                 |      |      |
| Under 2,000 CDD and Over 5,500 HDD     | 1.5                                 | 76.9                      | 559                    | 590                               | 2,450           | 1.06 | 7.7  |
| Under 5,500 HDD                        | Q                                   | Q                         | Q                      | Q                                 | Q               | Q    | NF   |
| 2,000 CDD or More and Under 4,000 HDD  | NC                                  | NC                        | NC                     | NC                                | NC              | NC   | NC   |
| <b>Type of Housing Unit</b>            |                                     |                           |                        |                                   |                 |      |      |
| Single-Family                          | 1.4                                 | 80.2                      | 582                    | 615                               | 2,612           | 1.06 | 6.9  |
| Mobile Home                            | Q                                   | Q                         | Q                      | Q                                 | Q               | Q    | NF   |
| Multifamily (2 or more units)          | Q                                   | 49.0                      | 360                    | 347                               | Q               | .96  | 44.0 |
| <b>Heated Floorspace (square feet)</b> |                                     |                           |                        |                                   |                 |      |      |
| Fewer than 1,000                       | .3                                  | 58.3                      | 429                    | 475                               | 1,114           | 1.11 | 11.3 |
| 1,000 to 1,999                         | .6                                  | 74.9                      | 544                    | 590                               | 2,113           | 1.08 | 9.3  |
| 2,000 or More                          | .6                                  | 88.6                      | 642                    | 651                               | 3,381           | 1.01 | 7.6  |
| <b>Ownership of Unit</b>               |                                     |                           |                        |                                   |                 |      |      |
| Owned                                  | 1.4                                 | 80.8                      | 586                    | 615                               | 2,614           | 1.05 | 6.3  |
| Rented                                 | .2                                  | 55.1                      | 407                    | 449                               | 1,363           | 1.10 | 21.3 |
| <b>Year of Construction</b>            |                                     |                           |                        |                                   |                 |      |      |
| 1949 or Before                         | .8                                  | 77.9                      | 566                    | 613                               | 2,373           | 1.08 | 9.0  |
| 1950 to 1979                           | .7                                  | 78.7                      | 571                    | 585                               | 2,522           | 1.02 | 8.4  |
| 1980 or After                          | Q                                   | Q                         | Q                      | Q                                 | Q               | Q    | NF   |
| <b>1990 Family Income</b>              |                                     |                           |                        |                                   |                 |      |      |
| Less than \$10,000                     | .3                                  | 83.2                      | 609                    | 868                               | 1,692           | 1.10 | 15.1 |
| \$10,000 to \$19,999                   | .2                                  | 74.2                      | 539                    | 573                               | 2,244           | 1.06 | 20.4 |
| \$20,000 to \$34,999                   | .5                                  | 74.5                      | 541                    | 569                               | 2,671           | 1.05 | 12.7 |
| \$35,000 or More                       | .5                                  | 78.9                      | 572                    | 586                               | 2,778           | 1.03 | 9.0  |
| <b>Below Poverty Line</b>              |                                     |                           |                        |                                   |                 |      |      |
| 100 Percent                            | .3                                  | 80.6                      | 590                    | 650                               | 1,706           | 1.10 | 15.9 |
| 125 Percent                            | .3                                  | 78.9                      | 577                    | 633                               | 1,650           | 1.10 | 13.4 |
| <b>Age of Householder</b>              |                                     |                           |                        |                                   |                 |      |      |
| Under 35 Years                         | .3                                  | 80.9                      | 593                    | 654                               | 2,098           | 1.10 | 12.4 |
| 35 to 59 Years                         | .8                                  | 62.8                      | 455                    | 472                               | 2,525           | 1.04 | 8.4  |
| 60 Years and Over                      | .5                                  | 99.6                      | 723                    | 757                               | 2,545           | 1.05 | 7.2  |
| <b>Household Size</b>                  |                                     |                           |                        |                                   |                 |      |      |
| 1 Person                               | .1                                  | 79.8                      | 584                    | 640                               | 1,629           | 1.10 | 24.2 |
| 2 to 4 Persons                         | 1.3                                 | 78.3                      | 568                    | 596                               | 2,594           | 1.05 | 7.9  |
| 5 or More Persons                      | Q                                   | Q                         | Q                      | Q                                 | Q               | Q    | NF   |

1 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

2 Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the East North Central and West North Central Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**MIDWEST**

**ENERGY CONSUMPTION AND EXPENDITURES**



Table 34. Kerosene Consumption and Expenditures in Midwest Region Households, 1990

| Characteristics                             | Households Using Kerosene (million) | Average per Household     |                       |                        |                          | Expenditures (dollars per gallon) | RSE Row Factors |
|---|-------------------------------------|---------------------------|-----------------------|------------------------|--------------------------|-----------------------------------|-----------------|
|   |                                     | Consumption (million Btu) | Consumption (gallons) | Expenditures (dollars) | Floorspace (square feet) |                                   |                 |
| RSE Column Factors:                         | 1.2                                 | 1.7                       | 1.7                   | 1.7                    | 0.6                      | 0.3                               |                 |
| Midwest Region                              |                                     |                           |                       |                        |                          |                                   |                 |
| <b>Total Region</b> .....                   | 1.4                                 | 6.6                       | 49                    | 63                     | 2,072                    | 1.28                              | 22.1            |
| East North Central Division .....           | 1.2                                 | 7.4                       | 55                    | 70                     | 2,115                    | 1.28                              | 24.5            |
| West North Central Division .....           | .2                                  | 2.7                       | 20                    | 26                     | 1,854                    | 1.27                              | 19.3            |
| <b>Climate Zone<sup>1</sup></b>             |                                     |                           |                       |                        |                          |                                   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 1.2                                 | 7.5                       | 56                    | 71                     | 2,102                    | 1.28                              | 24.0            |
| Under 5,500 HDD .....                       | .2                                  | 1.6                       | 12                    | 16                     | 1,902                    | 1.35                              | 19.4            |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                                  | NC                        | NC                    | NC                     | NC                       | NC                                | NC              |
| <b>Type of Housing Unit</b>                 |                                     |                           |                       |                        |                          |                                   |                 |
| Single-Family .....                         | 1.1                                 | 3.7                       | 27                    | 38                     | 2,421                    | 1.39                              | 17.3            |
| Mobile Home .....                           | Q                                   | Q                         | Q                     | Q                      | Q                        | Q                                 | NF              |
| Multifamily (2 or more units) .....         | Q                                   | Q                         | Q                     | Q                      | Q                        | Q                                 | NF              |
| <b>Heated Floorspace (square feet)</b>      |                                     |                           |                       |                        |                          |                                   |                 |
| Fewer than 1,000 .....                      | .4                                  | 12.6                      | 94                    | 111                    | 897                      | 1.18                              | 20.8            |
| 1,000 to 1,999 .....                        | .5                                  | 5.2                       | 39                    | 53                     | 2,028                    | 1.37                              | 13.8            |
| 2,000 or More .....                         | .4                                  | Q                         | Q                     | Q                      | 3,342                    | 1.58                              | 30.5            |
| <b>Ownership of Unit</b>                    |                                     |                           |                       |                        |                          |                                   |                 |
| Owned .....                                 | 1.0                                 | Q                         | Q                     | 68                     | 2,180                    | 1.27                              | 22.7            |
| Rented .....                                | .3                                  | Q                         | Q                     | Q                      | 1,743                    | 1.33                              | 31.4            |
| <b>Year of Construction</b>                 |                                     |                           |                       |                        |                          |                                   |                 |
| 1949 or Before .....                        | .5                                  | 5.2                       | 39                    | 51                     | 2,035                    | 1.32                              | 15.5            |
| 1950 to 1979 .....                          | .6                                  | Q                         | Q                     | Q                      | 2,364                    | 1.34                              | 35.5            |
| 1980 or After <sup>2</sup> .....            | Q                                   | Q                         | Q                     | Q                      | Q                        | Q                                 | NF              |
| <b>1990 Family Income</b>                   |                                     |                           |                       |                        |                          |                                   |                 |
| Less than \$10,000 .....                    | Q                                   | Q                         | Q                     | Q                      | Q                        | Q                                 | NF              |
| \$10,000 to \$19,999 .....                  | .2                                  | Q                         | Q                     | Q                      | 2,185                    | 1.27                              | 29.4            |
| \$20,000 to \$34,999 .....                  | .6                                  | 7.3                       | 54                    | 70                     | 1,791                    | 1.29                              | 23.1            |
| \$35,000 or More .....                      | .4                                  | 2.0                       | 15                    | 19                     | 2,791                    | 1.28                              | 21.7            |
| <b>Below Poverty Line</b>                   |                                     |                           |                       |                        |                          |                                   |                 |
| 100 Percent .....                           | Q                                   | Q                         | Q                     | Q                      | Q                        | Q                                 | NF              |
| 125 Percent .....                           | .2                                  | 5.7                       | 42                    | 52                     | 1,455                    | 1.24                              | 21.0            |
| <b>Age of Householder</b>                   |                                     |                           |                       |                        |                          |                                   |                 |
| Under 35 Years .....                        | .4                                  | 4.5                       | 33                    | 44                     | 1,631                    | 1.32                              | 26.0            |
| 35 to 59 Years .....                        | .7                                  | Q                         | Q                     | Q                      | 2,218                    | 1.21                              | 21.5            |
| 60 Years and Over .....                     | .2                                  | Q                         | Q                     | Q                      | 2,390                    | 1.58                              | 19.6            |
| <b>Household Size</b>                       |                                     |                           |                       |                        |                          |                                   |                 |
| 1 Person .....                              | Q                                   | Q                         | Q                     | Q                      | Q                        | Q                                 | NF              |
| 2 to 4 Persons .....                        | 1.0                                 | 5.6                       | 41                    | 55                     | 2,265                    | 1.34                              | 19.8            |
| 5 or More Persons .....                     | Q                                   | 5.8                       | 43                    | 55                     | 2,008                    | 1.29                              | 29.6            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the East North Central and West North Central Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**ENERGY CONSUMPTION AND EXPENDITURES**

**Table 35. Liquefied Petroleum Gas Consumption and Expenditures in Midwest Region Households, 1990**

| Characteristics                             | Households Using LPG (million) | Consumption (million Btu) |           | Expenditures (dollars) | Floorspace (square feet) | Expenditures (dollars per gallon) | RSE Row Factors |
|---|--------------------------------|---------------------------|-----------|------------------------|--------------------------|-----------------------------------|-----------------|
|   |                                | (million Btu)             | (gallons) |                        |                          |                                   |                 |
| RSE Column Factors:                         | 2.0                            | 1.2                       | 1.2       | 1.2                    | 0.7                      | 0.4                               |                 |
| Midwest Region                              |                                |                           |           |                        |                          |                                   |                 |
| <b>Total Region</b> .....                   | 2.4                            | 54.8                      | 600       | 533                    | 2,091                    | 0.89                              | 7.7             |
| <b>Climate Zone<sup>1</sup></b>             |                                |                           |           |                        |                          |                                   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 1.8                            | 55.2                      | 604       | 550                    | 2,178                    | .91                               | 9.0             |
| Under 5,500 HDD and 2,000 CDD or More ..... | .6                             | 53.8                      | 589       | 481                    | 1,829                    | .82                               | 13.0            |
| Under 4,000 HDD .....                       | NC                             | NC                        | NC        | NC                     | NC                       | NC                                | NC              |
| <b>Type of Housing Unit</b>                 |                                |                           |           |                        |                          |                                   |                 |
| Single-Family .....                         | 1.9                            | 57.5                      | 630       | 554                    | 2,354                    | .88                               | 8.6             |
| Mobile Home .....                           | .4                             | 42.6                      | 466       | 435                    | 821                      | .93                               | 14.6            |
| Multifamily (2 or more units) .....         | Q                              | Q                         | Q         | Q                      | Q                        | Q                                 | NF              |
| <b>Heated Floorspace (square feet)</b>      |                                |                           |           |                        |                          |                                   |                 |
| Fewer than 1,000 .....                      | .7                             | 43.5                      | 476       | 456                    | 998                      | .96                               | 8.9             |
| 1,000 to 1,999 .....                        | .9                             | 60.1                      | 658       | 577                    | 1,989                    | .88                               | 11.1            |
| 2,000 or More .....                         | .8                             | 59.4                      | 650       | 553                    | 3,253                    | .85                               | 7.2             |
| <b>Ownership of Unit</b>                    |                                |                           |           |                        |                          |                                   |                 |
| Owned .....                                 | 2.1                            | 54.8                      | 600       | 535                    | 2,169                    | .89                               | 7.6             |
| Rented .....                                | .3                             | 54.7                      | 599       | 516                    | 1,544                    | .86                               | 20.4            |
| <b>Year of Construction</b>                 |                                |                           |           |                        |                          |                                   |                 |
| 1949 or Before .....                        | .9                             | 59.9                      | 656       | 549                    | 2,168                    | .84                               | 10.9            |
| 1950 to 1979 .....                          | .9                             | 48.6                      | 532       | 508                    | 1,942                    | .96                               | 11.1            |
| 1980 or After <sup>2</sup> .....            | .5                             | 56.9                      | 623       | 546                    | 2,218                    | .88                               | 12.2            |
| <b>1990 Family Income</b>                   |                                |                           |           |                        |                          |                                   |                 |
| Less than \$10,000 .....                    | .6                             | 44.6                      | 488       | 501                    | 1,416                    | 1.03                              | 17.3            |
| \$10,000 to \$19,999 .....                  | .7                             | 49.0                      | 536       | 495                    | 1,661                    | .92                               | 11.2            |
| \$20,000 to \$34,999 .....                  | .6                             | 54.5                      | 597       | 506                    | 2,423                    | .85                               | 9.3             |
| \$35,000 or More .....                      | .5                             | 73.7                      | 807       | 648                    | 2,964                    | .80                               | 12.0            |
| <b>Below Poverty Line</b>                   |                                |                           |           |                        |                          |                                   |                 |
| 100 Percent .....                           | .5                             | 41.9                      | 459       | 450                    | 1,309                    | .98                               | 17.5            |
| 125 Percent .....                           | .7                             | 50.3                      | 551       | 556                    | 1,409                    | 1.01                              | 15.8            |
| <b>Age of Householder</b>                   |                                |                           |           |                        |                          |                                   |                 |
| Under 35 Years .....                        | .6                             | 51.4                      | 563       | 501                    | 1,984                    | .89                               | 10.2            |
| 35 to 59 Years .....                        | 1.1                            | 54.0                      | 592       | 516                    | 2,208                    | .87                               | 11.0            |
| 60 Years and Over .....                     | .7                             | 58.9                      | 644       | 584                    | 2,004                    | .91                               | 13.4            |
| <b>Household Size</b>                       |                                |                           |           |                        |                          |                                   |                 |
| 1 Person .....                              | .3                             | 47.4                      | 519       | 527                    | 1,428                    | 1.01                              | 20.5            |
| 2 to 4 Persons .....                        | 1.6                            | 59.0                      | 647       | 553                    | 2,180                    | .85                               | 8.2             |
| 5 or More Persons .....                     | .5                             | 44.8                      | 491       | 468                    | 2,184                    | .95                               | 13.6            |

See footnotes at end of table.

**MIDWEST**

Table 35. Liquefied Petroleum Gas Consumption and Expenditures in Midwest Region Households, 1990 (Continued)

| Characteristics                             | Households Using LPG (million) | Average per Household |           |                        |                          | RSE Row Factors |                                   |
|---|--------------------------------|-----------------------|-----------|------------------------|--------------------------|-----------------|-----------------------------------|
|   |                                | Consumption           |           | Expenditures (dollars) | Floorspace (square feet) |                 | Expenditures (dollars per gallon) |
|   |                                | (million Btu)         | (gallons) |                        |                          |                 |                                   |
| RSE Column Factors:                         | 2.0                            | 1.2                   | 1.2       | 1.2                    | 0.7                      | 0.4             |                                   |
| <b>East North Central Division</b> .....    | 1.6                            | 53.8                  | 589       | 545                    | 2,050                    | 0.92            |                                   |
| <b>Climate Zone<sup>1</sup></b>             |                                |                       |           |                        |                          |                 |                                   |
| Under 2,000 HDD and Over 5,500 HDD .....    | 1.4                            | 51.5                  | 563       | 535                    | 2,072                    | .95             |                                   |
| Under 5,500 HDD .....                       | Q                              | Q                     | Q         | Q                      | Q                        | Q               |                                   |
| 2,000 HDD or More and Under 4,000 HDD ..... | NC                             | NC                    | NC        | NC                     | NC                       | NC              |                                   |
| <b>Type of Housing Unit</b>                 |                                |                       |           |                        |                          |                 |                                   |
| Single-Family .....                         | 1.2                            | 58.0                  | 635       | 581                    | 2,374                    | .91             |                                   |
| Mobile Home .....                           | .3                             | 38.6                  | 423       | 409                    | 807                      | .97             |                                   |
| Multifamily (2 or more units) .....         | Q                              | Q                     | Q         | Q                      | Q                        | Q               |                                   |
| <b>Heated Floorspace (square feet)</b>      |                                |                       |           |                        |                          |                 |                                   |
| Fewer than 1,000 .....                      | .6                             | 42.9                  | 470       | 469                    | 966                      | 1.00            |                                   |
| 1,000 to 1,999 .....                        | .6                             | 61.9                  | 678       | 614                    | 2,001                    | .91             |                                   |
| 2,000 or More .....                         | .5                             | 56.9                  | 623       | 552                    | 3,289                    | .89             |                                   |
| <b>Ownership of Unit</b>                    |                                |                       |           |                        |                          |                 |                                   |
| Owned .....                                 | 1.4                            | 55.0                  | 602       | 558                    | 2,126                    | .93             |                                   |
| Rented .....                                | .2                             | Q                     | Q         | 461                    | 1,557                    | .91             |                                   |
| <b>Year of Construction</b>                 |                                |                       |           |                        |                          |                 |                                   |
| 1949 or Before .....                        | .6                             | 60.0                  | 656       | 562                    | 2,155                    | .86             |                                   |
| 1950 to 1979 .....                          | .7                             | 46.2                  | 505       | 515                    | 1,842                    | 1.02            |                                   |
| 1980 or After <sup>2</sup> .....            | .4                             | 57.8                  | 633       | 572                    | 2,253                    | .90             |                                   |
| <b>1990 Family Income</b>                   |                                |                       |           |                        |                          |                 |                                   |
| Less than \$10,000 .....                    | Q                              | 42.8                  | 468       | 521                    | 1,265                    | 1.11            |                                   |
| \$10,000 to \$19,999 .....                  | .5                             | 45.8                  | 501       | 480                    | 1,570                    | .96             |                                   |
| \$20,000 to \$34,999 .....                  | .4                             | 52.8                  | 578       | 519                    | 2,595                    | .90             |                                   |
| \$35,000 or More .....                      | .3                             | 78.5                  | 860       | 691                    | 2,977                    | .80             |                                   |
| <b>Below Poverty Line</b>                   |                                |                       |           |                        |                          |                 |                                   |
| 100 Percent .....                           | .4                             | 40.3                  | 442       | 450                    | 1,093                    | 1.02            |                                   |
| 125 Percent .....                           | Q                              | 49.3                  | 540       | 585                    | 1,216                    | 1.08            |                                   |
| <b>Age of Householder</b>                   |                                |                       |           |                        |                          |                 |                                   |
| Under 35 Years .....                        | .4                             | 50.1                  | 549       | 501                    | 1,952                    | .91             |                                   |
| 35 to 59 Years .....                        | .7                             | 52.7                  | 577       | 525                    | 2,186                    | .91             |                                   |
| 60 Years and Over .....                     | .5                             | 58.6                  | 641       | 610                    | 1,927                    | .95             |                                   |
| <b>Household Size</b>                       |                                |                       |           |                        |                          |                 |                                   |
| 1 Person .....                              | Q                              | Q                     | Q         | Q                      | Q                        | Q               |                                   |
| 2 to 4 Persons .....                        | 1.1                            | 59.2                  | 648       | 572                    | 2,162                    | .88             |                                   |
| 5 or More Persons .....                     | .4                             | 40.5                  | 443       | 439                    | 2,066                    | .99             |                                   |

See footnotes at end of table.

ENERGY CONSUMPTION AND EXPENDITURES

Table 35. Liquefied Petroleum Gas Consumption and Expenditures in Midwest Region Households, 1990 (Continued)

| Characteristics                             | Households Using LPG (million) | Average per Household     |                        |                                   | RSE Row Factors |     |      |
|---|--------------------------------|---------------------------|------------------------|-----------------------------------|-----------------|-----|------|
|   |                                | Consumption (million Btu) | Expenditures (dollars) | Expenditures (dollars per gallon) |                 |     |      |
| RSE Column Factors:                         | 2.0                            | 1.2                       | 1.2                    | 1.2                               | 0.7             | 0.4 |      |
| <b>West North Central Division ...</b>      |                                |                           |                        |                                   |                 |     |      |
| <b>Climate Zone<sup>1</sup></b>             |                                |                           |                        |                                   |                 |     |      |
| Under 2,000 CDD and Over 5,500 HDD .....    | .4                             | 69.0                      | 756                    | 606                               | 2,572           | .80 | 8.2  |
| Under 5,500 HDD .....                       | .4                             | 45.5                      | 498                    | 415                               | 1,802           | .83 | 11.5 |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                             | NC                        | NC                     | NC                                | NC              | NC  | NC   |
| <b>Type of Housing Unit</b>                 |                                |                           |                        |                                   |                 |     |      |
| Single-Family .....                         | .7                             | 56.6                      | 620                    | 504                               | 2,316           | .81 | 6.5  |
| Mobile Home .....                           | .1                             | 59.2                      | 648                    | 544                               | 881             | .84 | 18.8 |
| Multifamily (2 or more units) ...           | Q                              | Q                         | Q                      | Q                                 | Q               | Q   | NF   |
| <b>Heated Floorspace (square feet)</b>      |                                |                           |                        |                                   |                 |     |      |
| Fewer than 1,000 .....                      | .2                             | 45.3                      | 496                    | 414                               | 1,099           | .83 | 11.0 |
| 1,000 to 1,999 .....                        | .4                             | 57.3                      | 627                    | 520                               | 1,971           | .83 | 9.0  |
| 2,000 or More .....                         | .3                             | 64.2                      | 703                    | 553                               | 3,181           | .79 | 8.4  |
| <b>Ownership of Unit</b>                    |                                |                           |                        |                                   |                 |     |      |
| Owned .....                                 | .7                             | 54.5                      | 597                    | 489                               | 2,254           | .82 | 5.3  |
| Rented .....                                | Q                              | Q                         | Q                      | Q                                 | 1,510           | .79 | 61.8 |
| <b>Year of Construction</b>                 |                                |                           |                        |                                   |                 |     |      |
| 1949 or Before .....                        | .4                             | 59.7                      | 654                    | 529                               | 2,190           | .81 | 9.5  |
| 1950 to 1979 .....                          | .3                             | 54.3                      | 595                    | 493                               | 2,180           | .83 | 15.0 |
| 1980 or After? .....                        | .2                             | 54.9                      | 601                    | 484                               | 2,132           | .81 | 18.1 |
| <b>1990 Family Income</b>                   |                                |                           |                        |                                   |                 |     |      |
| Less than \$10,000 .....                    | .2                             | 48.9                      | 536                    | 453                               | 1,771           | .85 | 18.9 |
| \$10,000 to \$19,999 .....                  | .2                             | 56.6                      | 620                    | 532                               | 1,878           | .86 | 11.3 |
| \$20,000 to \$34,999 .....                  | .2                             | 57.3                      | 627                    | 485                               | 2,144           | .77 | 12.7 |
| \$35,000 or More .....                      | .2                             | 64.2                      | 702                    | 562                               | 2,939           | .80 | 11.5 |
| <b>Below Poverty Line</b>                   |                                |                           |                        |                                   |                 |     |      |
| 100 Percent .....                           | Q                              | 45.8                      | 502                    | 448                               | 1,837           | .89 | 36.8 |
| 125 Percent .....                           | .3                             | 52.1                      | 571                    | 502                               | 1,764           | .88 | 17.7 |
| <b>Age of Householder</b>                   |                                |                           |                        |                                   |                 |     |      |
| Under 35 Years .....                        | .2                             | 54.1                      | 592                    | 499                               | 2,049           | .84 | 15.6 |
| 35 to 59 Years .....                        | .4                             | 56.7                      | 621                    | 498                               | 2,252           | .80 | 11.1 |
| 60 Years and Over .....                     | .2                             | 59.5                      | 651                    | 528                               | 2,163           | .81 | 8.3  |
| <b>Household Size</b>                       |                                |                           |                        |                                   |                 |     |      |
| 1 Person .....                              | .1                             | 48.1                      | 527                    | 440                               | 1,654           | .83 | 20.2 |
| 2 to 4 Persons .....                        | .5                             | 58.8                      | 644                    | 513                               | 2,217           | .80 | 6.4  |
| 5 or More Persons .....                     | .1                             | 57.4                      | 628                    | 552                               | 2,523           | .88 | 20.3 |

1 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.  
 2 Does not include all new construction for 1990.

NC = No cases in sample.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 NF = No applicable RSE row/column factor.  
 Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and D of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 36. Wood Consumption in Midwest Region Households, December 1989 Through November 1990

| Characteristics                        | Households Using Wood |                    |                       |         | Wood Used as Main Space-Heating Fuel |                    |                       |         | RSE Row Factors |      |
|--|-----------------------|--------------------|-----------------------|---------|--------------------------------------|--------------------|-----------------------|---------|-----------------|------|
|  | Consumption           |                    | Average per Household |         | Consumption                          |                    | Average per Household |         |                 |      |
|  | Total                 | (million cords)    | (million Btu)         | (cords) | Total                                | (million cords)    | (million Btu)         | (cords) |                 |      |
|  | Households (millions) | (quad-rillion Btu) | (million Btu)         | (cords) | Households (millions)                | (quad-rillion Btu) | (million Btu)         | (cords) |                 |      |
| RSE Column Factors:                    | 0.8                   | 1.2                | 1.2                   | 0.7     | 1.4                                  | 1.7                | 0.7                   | 0.7     |                 |      |
| Midwest Region                         |                       |                    |                       |         |                                      |                    |                       |         |                 |      |
| <b>Total Region</b>                    | 5.4                   | 0.17               | 8.3                   | 30.9    | 1.5                                  | 0.10               | 4.8                   | 95.2    | 4.8             | 15.5 |
| East North Central Division            | 4.0                   | .12                | 6.1                   | 30.6    | 1.5                                  | .07                | 3.6                   | 94.6    | 4.7             | 19.9 |
| West North Central Division            | 1.4                   | .05                | 2.3                   | 31.7    | 1.6                                  | .02                | 1.2                   | 97.1    | 4.9             | 19.6 |
| <b>Climate Zone<sup>1</sup></b>        |                       |                    |                       |         |                                      |                    |                       |         |                 |      |
| Under 2,000 HDD and Over 5,500 HDD     | 4.4                   | .13                | 6.7                   | 30.0    | 1.5                                  | .08                | 3.8                   | 97.1    | 4.9             | 17.6 |
| Under 5,500 HDD                        | 1.0                   | .03                | 1.7                   | 35.2    | 1.8                                  | Q                  | Q                     | 88.7    | 4.4             | 32.2 |
| 2,000 HDD or More and Under 4,000 HDD  | NC                    | NC                 | NC                    | NC      | NC                                   | NC                 | NC                    | NC      | NC              | NC   |
| <b>Type of Housing Unit</b>            |                       |                    |                       |         |                                      |                    |                       |         |                 |      |
| Single-Family                          | 5.0                   | .15                | 7.6                   | 30.2    | 1.5                                  | .09                | 4.3                   | 99.5    | 5.0             | 16.1 |
| Mobile Home                            | .3                    | Q                  | Q                     | Q       | Q                                    | Q                  | Q                     | Q       | Q               | 55.1 |
| Multifamily (2 or more units)          | Q                     | Q                  | Q                     | Q       | Q                                    | Q                  | Q                     | Q       | Q               | NF   |
| <b>Heated Floorspace (square feet)</b> |                       |                    |                       |         |                                      |                    |                       |         |                 |      |
| Fewer than 1,000                       | .4                    | .02                | 1.0                   | 52.4    | 2.6                                  | Q                  | Q                     | Q       | Q               | 29.3 |
| 1,000 to 1,999                         | 1.8                   | .06                | 2.9                   | 32.1    | 1.6                                  | .4                 | 1.8                   | 99.9    | 5.0             | 20.1 |
| 2,000 or More                          | 3.2                   | .09                | 4.4                   | 27.6    | 1.4                                  | .4                 | 2.3                   | 103.8   | 5.2             | 21.7 |
| <b>Ownership of Unit</b>               |                       |                    |                       |         |                                      |                    |                       |         |                 |      |
| Owned                                  | 5.0                   | .15                | 7.5                   | 30.2    | 1.5                                  | .9                 | 4.3                   | 96.8    | 4.8             | 14.6 |
| Rented                                 | .4                    | .02                | .8                    | 39.8    | 2.0                                  | Q                  | Q                     | Q       | Q               | 43.8 |
| <b>Year of Construction</b>            |                       |                    |                       |         |                                      |                    |                       |         |                 |      |
| 1949 or Before                         | 1.6                   | .07                | 3.6                   | 44.9    | 2.2                                  | .5                 | 2.4                   | 97.2    | 4.9             | 20.3 |
| 1950 to 1979                           | 2.9                   | .07                | 3.3                   | 22.8    | 1.1                                  | .5                 | 1.9                   | 83.2    | 4.2             | 16.2 |
| 1980 or After <sup>2</sup>             | .9                    | .03                | 1.5                   | 31.6    | 1.6                                  | Q                  | Q                     | Q       | Q               | 23.3 |
| <b>1990 Family Income</b>              |                       |                    |                       |         |                                      |                    |                       |         |                 |      |
| Less than \$10,000                     | Q                     | Q                  | Q                     | Q       | Q                                    | Q                  | Q                     | Q       | Q               | NF   |
| \$10,000 to \$19,999                   | .7                    | .04                | 1.8                   | 48.7    | 2.4                                  | 2                  | 1.3                   | 110.0   | 5.5             | 23.6 |
| \$20,000 to \$34,999                   | 1.5                   | .05                | 2.7                   | 35.2    | 1.8                                  | .3                 | 1.5                   | 88.0    | 4.4             | 15.0 |
| \$35,000 or More                       | 2.8                   | .05                | 2.7                   | 19.1    | 1.0                                  | .2                 | .9                    | 75.0    | 3.8             | 18.4 |
| <b>Below Poverty Line</b>              |                       |                    |                       |         |                                      |                    |                       |         |                 |      |
| 100 Percent                            | .4                    | .03                | 1.5                   | 69.4    | 3.5                                  | Q                  | 1.3                   | 119.5   | 6.0             | 41.9 |
| 125 Percent                            | .5                    | .04                | 1.8                   | 70.9    | 3.5                                  | .3                 | 1.5                   | 121.9   | 6.1             | 34.7 |
| <b>Age of Householder</b>              |                       |                    |                       |         |                                      |                    |                       |         |                 |      |
| Under 35 Years                         | 1.0                   | .03                | 1.7                   | 33.7    | 1.7                                  | .1                 | .5                    | 86.9    | 4.3             | 25.0 |
| 35 to 59 Years                         | 3.2                   | .10                | 4.9                   | 31.2    | 1.6                                  | .7                 | 3.0                   | 89.2    | 4.5             | 19.0 |
| 60 Years and Over                      | 1.2                   | .03                | 1.7                   | 27.9    | 1.4                                  | .2                 | 1.3                   | 118.1   | 5.9             | 25.8 |
| <b>Household Size</b>                  |                       |                    |                       |         |                                      |                    |                       |         |                 |      |
| 1 Person                               | .5                    | .02                | .8                    | 31.9    | 1.6                                  | Q                  | Q                     | Q       | Q               | 42.2 |
| 2 to 4 Persons                         | 4.3                   | .13                | 6.3                   | 29.8    | 1.5                                  | .7                 | 3.4                   | 92.7    | 4.6             | 14.9 |
| 5 or More Persons                      | .6                    | .02                | 1.2                   | 37.4    | 1.9                                  | .2                 | .8                    | 96.0    | 4.8             | 26.6 |

See footnotes at end of table.

ENERGY CONSUMPTION AND EXPENDITURES

Table 36. Wood Consumption in Midwest Region Households, December 1989 Through November 1990 (Continued)

| Characteristics                                | Households Using Wood |                       |                 |                       | Wood Used as Main Space-Heating Fuel |                       |                 |                       | RSE Row Factors |      |
|--|-----------------------|-----------------------|-----------------|-----------------------|--------------------------------------|-----------------------|-----------------|-----------------------|-----------------|------|
|  | Consumption           |                       | Consumption     |                       | Consumption                          |                       | Consumption     |                       |                 |      |
|  | Total                 | Average per Household | Total           | Average per Household | Total                                | Average per Household | Total           | Average per Household |                 |      |
| RSE Column Factors:                            | Households (million)  | (quadrillion Btu)     | (million cords) | (million Btu)         | (million cords)                      | (million Btu)         | (million cords) | (million Btu)         | (cords)         |      |
|  | 0.8                   | 1.2                   | 1.2             | 0.7                   | 0.7                                  | 1.4                   | 1.7             | 1.7                   | 0.7             | 0.7  |
| Midwest Region                                 |                       |                       |                 |                       |                                      |                       |                 |                       |                 |      |
| <b>Main Heating Fuel</b>                       |                       |                       |                 |                       |                                      |                       |                 |                       |                 |      |
| Natural Gas .....                              | 2.9                   | 0.03                  | 1.7             | 11.7                  | 0.6                                  | ..                    | ..              | ..                    | ..              | 17.9 |
| Electricity .....                              | .5                    | .01                   | .4              | 17.6                  | .9                                   | ..                    | ..              | ..                    | ..              | 30.1 |
| Fuel Oil or Kerosene .....                     | .5                    | .01                   | .6              | 26.1                  | 1.3                                  | ..                    | ..              | ..                    | ..              | 40.9 |
| Wood .....                                     | 1.0                   | .10                   | 4.8             | 95.2                  | 4.8                                  | 1.0                   | 0.10            | 4.8                   | 95.2            | 18.1 |
| Heating Stove .....                            | .5                    | .05                   | 2.3             | 87.7                  | 4.4                                  | .5                    | .05             | 2.3                   | 87.7            | 15.2 |
| Fireplace .....                                | Q                     | Q                     | Q               | Q                     | Q                                    | Q                     | Q               | Q                     | Q               | NF   |
| Furnace/Other .....                            | .5                    | Q                     | Q               | 107.0                 | 5.3                                  | .5                    | Q               | Q                     | 107.0           | 29.9 |
| LPG .....                                      | .5                    | .02                   | .8              | 30.9                  | 1.5                                  | ..                    | ..              | ..                    | ..              | 23.7 |
| Other .....                                    | Q                     | Q                     | Q               | Q                     | Q                                    | ..                    | ..              | ..                    | ..              | NF   |
| <b>Secondary Heating Equipment Used</b> .....  | 4.9                   | .12                   | 5.8             | 23.6                  | 1.2                                  | .5                    | .04             | 2.2                   | 84.9            | 4.2  |
| <b>Amount of Wood Burned in Past 12 Months</b> |                       |                       |                 |                       |                                      |                       |                 |                       |                 |      |
| Less than one-half Cord .....                  | 2.4                   | .01                   | .5              | 4.0                   | .2                                   | NC                    | NC              | NC                    | NC              | 10.2 |
| One-half to Less than 1 .....                  | 1.0                   | .01                   | .6              | 11.9                  | .6                                   | Q                     | Q               | Q                     | Q               | 9.3  |
| 1 to Less than 2 .....                         | .4                    | .01                   | .5              | 22.6                  | 1.1                                  | Q                     | Q               | 1.4                   | 67.6            | 15.5 |
| 2 to 4 Cords .....                             | .9                    | .06                   | 2.9             | 62.9                  | 3.1                                  | .4                    | .03             | 1.4                   | 67.6            | 11.1 |
| More than 4 Cords .....                        | .6                    | .08                   | 3.9             | 129.8                 | 6.5                                  | .5                    | .07             | 3.3                   | 131.4           | 18.3 |
| <b>Hours Wood Burned in Winter</b>             |                       |                       |                 |                       |                                      |                       |                 |                       |                 |      |
| Less than 1 Hour per week .....                | 1.4                   | .01                   | .3              | 4.1                   | .2                                   | NC                    | NC              | NC                    | NC              | 15.3 |
| Less than 1 Hour per day .....                 | 1.1                   | .01                   | .5              | 7.9                   | .4                                   | NC                    | NC              | NC                    | NC              | 11.9 |
| 1 to 4 Hours per day .....                     | 1.0                   | .02                   | .9              | 17.7                  | .9                                   | NC                    | NC              | NC                    | NC              | 21.1 |
| More than 4 Hours per day .....                | .6                    | .03                   | 1.4             | 44.2                  | 2.2                                  | Q                     | Q               | Q                     | Q               | 19.9 |
| Almost Continuously .....                      | 1.3                   | .11                   | 5.3             | 84.8                  | 4.2                                  | .9                    | .09             | 4.4                   | 96.5            | 4.8  |
| <b>Purchased Firewood</b>                      |                       |                       |                 |                       |                                      |                       |                 |                       |                 |      |
| Yes .....                                      | 1.6                   | .06                   | 3.0             | 37.4                  | 1.9                                  | .3                    | .03             | 1.6                   | 102.0           | 5.1  |
| No .....                                       | 3.8                   | .10                   | 5.2             | 27.6                  | 1.4                                  | .7                    | .06             | 3.0                   | 91.3            | 4.6  |
| 18.8   |                       |                       |                 |                       |                                      |                       |                 |                       |                 |      |

1 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

2 Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

.. = Data not applicable.

NF = No applicable RSE row/column factor.

Notes: • Data in the East North Central and West North Central Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, and C of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 37. Average Expenditures for Major Energy Sources in Midwest Region Households, 1990**  
(Dollars per Million Btu)

| Characteristics   | Major Energy Sources <sup>1</sup> |             |          |          |                         | FSE Row Factors |
|---|-----------------------------------|-------------|----------|----------|-------------------------|-----------------|
|   | Electricity                       | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas |                 |
| RSE Column Factors:   | 1.1                               | 0.5         | 0.8      | 2.0      | 1.4                     |                 |
| Midwest Region  |                                   |             |          |          |                         |                 |
| <b>Total Region</b> .....                                       | 23.2                              | 4.9         | 7.7      | 9.5      | 9.7                     | 2.6             |
| <b>Climate Zone<sup>2</sup></b>                                 |                                   |             |          |          |                         |                 |
| Under 2,000 HDD and Over 5,500 HDD .....                        | 9.3                               | 4.9         | 7.7      | 9.5      | 10.0                    | 2.7             |
| Under 5,500 HDD and 2,000 HDD or More and Under 4,000 HDD ..... | NC                                | NC          | NC       | NC       | NC                      | NC              |
| <b>Type of Housing Unit</b>                                     |                                   |             |          |          |                         |                 |
| Single-Family .....   | 22.6                              | 4.9         | 7.7      | 10.3     | 9.6                     | 2.6             |
| Mobile Home .....   | 24.0                              | 5.4         | Q        | Q        | 10.2                    | 6.9             |
| Multifamily (2 or more units) ..                                | 25.6                              | 5.0         | 7.1      | Q        | Q                       | 5.8             |
| <b>Heated Floorspace (square feet)</b>                          |                                   |             |          |          |                         |                 |
| Fewer than 1,000 .....  | 10.4                              | 5.0         | 8.2      | 8.8      | 10.5                    | 3.5             |
| 1,000 to 1,999 .....  | 9.5                               | 5.0         | 7.9      | 10.2     | 9.6                     | 2.8             |
| 2,000 or More .....   | 9.3                               | 4.8         | 7.3      | 11.7     | 9.3                     | 3.1             |
| <b>Ownership of Unit</b>  |                                   |             |          |          |                         |                 |
| Owned .....   | 9.7                               | 4.9         | 7.6      | 9.4      | 9.8                     | 2.8             |
| Rented .....  | 9.0                               | 4.9         | 8.1      | 9.8      | 9.4                     | 4.2             |
| <b>Year of Construction</b>                                     |                                   |             |          |          |                         |                 |
| 1949 or Before .....  | 8.6                               | 4.9         | 7.9      | 9.8      | 9.2                     | 2.7             |
| 1950 to 1979 .....  | 10.3                              | 4.9         | 7.4      | 9.9      | 10.5                    | 3.6             |
| 1980 or After <sup>3</sup> .....                                | 10.7                              | 4.8         | Q        | Q        | 9.6                     | 3.5             |
| <b>1990 Family Income</b>                                       |                                   |             |          |          |                         |                 |
| Less than \$10,000 .....  | 8.7                               | 5.0         | 8.0      | Q        | 11.2                    | 4.4             |
| \$10,000 to \$19,999 .....                                      | 9.5                               | 5.0         | 7.7      | 9.4      | 10.1                    | 4.0             |
| \$20,000 to \$34,999 .....                                      | 10.0                              | 4.9         | 7.6      | 9.6      | 9.3                     | 3.2             |
| \$35,000 or More .....  | 9.7                               | 4.8         | 7.4      | 9.5      | 8.8                     | 2.9             |
| <b>Below Poverty Line</b>                                       |                                   |             |          |          |                         |                 |
| 100 Percent .....   | 9.1                               | 5.0         | 8.1      | Q        | 10.7                    | 4.1             |
| 125 Percent .....   | 9.3                               | 5.0         | 8.0      | 9.2      | 11.1                    | 3.4             |
| <b>Age of Householder</b>                                       |                                   |             |          |          |                         |                 |
| Under 35 Years .....  | 9.5                               | 5.0         | 8.1      | 9.8      | 9.7                     | 3.6             |
| 35 to 59 Years .....  | 9.9                               | 4.8         | 7.5      | 9.0      | 9.6                     | 2.3             |
| 60 Years and Over .....   | 9.2                               | 4.9         | 7.6      | 11.7     | 9.9                     | 3.5             |
| <b>Household Size</b>   |                                   |             |          |          |                         |                 |
| 1 Person .....  | 8.8                               | 4.9         | 8.0      | Q        | 11.1                    | 5.3             |
| 2 to 4 Persons .....  | 9.8                               | 4.9         | 7.6      | 9.9      | 9.4                     | 2.4             |
| 5 or More Persons .....   | 9.9                               | 4.9         | Q        | 9.5      | 10.4                    | 5.1             |

See footnotes at end of table.

ENERGY CONSUMPTION AND EXPENDITURES

**Table 37. Average Expenditures for Major Energy Sources in  
Midwest Region Households, 1990 (Continued)**  
(Dollars per Million Btu)

| Characteristics                             | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|   | RSE Column Factors:               | 1.1         | 0.5         | 0.8      | 2.0      | 1.4                     |                 |
| <b>East North Central Division</b> .....    | 9.6                               | 23.4        | 5.0         | 7.7      | 9.5      | 10.1                    | 3.2             |
| <b>Climate Zone<sup>2</sup></b>             |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 9.5                               | 23.2        | 5.0         | 7.7      | 9.5      | 10.4                    | 3.1             |
| Under 5,500 HDD .....                       | 10.6                              | 27.0        | 4.9         | Q        | Q        | Q                       | 11.9            |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                                | NC          | NC          | NC       | NC       | NC                      | NC              |
| <b>Type of Housing Unit</b>                 |                                   |             |             |          |          |                         |                 |
| Single-Family .....                         | 9.4                               | 22.7        | 4.9         | 7.7      | 10.5     | 10.0                    | 3.2             |
| Mobile Home .....                           | 12.0                              | 24.6        | 5.6         | Q        | Q        | 10.6                    | 8.4             |
| Multifamily (2 or more units) ...           | 9.5                               | 26.6        | 5.1         | Q        | Q        | Q                       | 4.3             |
| <b>Heated Floorspace (square feet)</b>      |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                      | 10.8                              | 24.5        | 5.2         | Q        | 8.8      | 10.9                    | 4.3             |
| 1,000 to 1,999 .....                        | 9.4                               | 22.9        | 5.1         | 8.0      | 10.2     | 9.9                     | 3.9             |
| 2,000 or More .....                         | 9.2                               | 23.4        | 4.8         | 7.3      | 11.9     | 9.7                     | 4.1             |
| <b>Ownership of Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Owned .....                                 | 9.7                               | 22.8        | 5.0         | 7.7      | 9.4      | 10.1                    | 3.5             |
| Rented .....                                | 9.2                               | 26.1        | 5.0         | Q        | 9.9      | 10.0                    | 5.4             |
| <b>Year of Construction</b>                 |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                        | 8.6                               | 24.1        | 5.0         | 8.0      | 9.9      | 9.4                     | 3.5             |
| 1950 to 1979 .....                          | 10.4                              | 23.1        | 5.0         | 7.5      | 9.9      | 11.1                    | 4.7             |
| 1980 or After <sup>3</sup> .....            | 10.5                              | 23.3        | 4.7         | Q        | Q        | 9.9                     | 4.3             |
| <b>1990 Family Income</b>                   |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                    | 8.7                               | 23.8        | 5.1         | 8.3      | Q        | 12.2                    | 4.9             |
| \$10,000 to \$19,999 .....                  | 9.7                               | 24.9        | 5.1         | Q        | 9.5      | 10.5                    | 4.7             |
| \$20,000 to \$34,999 .....                  | 10.2                              | 23.1        | 5.1         | 7.6      | 9.6      | 9.8                     | 3.9             |
| \$35,000 or More .....                      | 9.5                               | 23.0        | 4.8         | 7.4      | 9.2      | 8.8                     | 3.9             |
| <b>Below Poverty Line</b>                   |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                           | 9.0                               | 24.4        | 5.1         | 8.3      | Q        | 11.2                    | 4.7             |
| 125 Percent .....                           | 9.1                               | 24.2        | 5.1         | 8.2      | Q        | 11.9                    | 4.8             |
| <b>Age of Householder</b>                   |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                        | 9.5                               | 23.0        | 5.0         | 8.2      | 9.7      | 10.0                    | 4.5             |
| 35 to 59 Years .....                        | 9.8                               | 23.4        | 4.9         | 7.6      | 9.0      | 10.0                    | 3.1             |
| 60 Years and Over .....                     | 9.3                               | 24.0        | 5.1         | 7.7      | Q        | 10.4                    | 3.9             |
| <b>Household Size</b>                       |                                   |             |             |          |          |                         |                 |
| 1 Person .....                              | 9.0                               | 25.6        | 5.1         | Q        | Q        | Q                       | 4.4             |
| 2 to 4 Persons .....                        | 9.7                               | 23.4        | 4.9         | 7.7      | 10.0     | 9.7                     | 2.9             |
| 5 or More Persons .....                     | 9.7                               | 21.4        | 4.9         | Q        | Q        | 10.8                    | 6.9             |

See footnotes at end of table.

MIDWEST



**Table 37. Average Expenditures for Major Energy Sources in Midwest Region Households, 1990 (Continued)**  
(Dollars per Million Btu)

| Characteristics                             | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
| RSE Column Factors:                         | 0.9                               | 1.1         | 0.5         | 0.8      | 2.0      | 1.4                     |                 |
| <b>West North Central Division ...</b>      | 9.6                               | 22.5        | 4.7         | 7.4      | 9.4      | 8.9                     | 2.9             |
| <b>Climate Zone<sup>2</sup></b>             |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 8.7                               | 22.2        | 4.6         | 7.4      | 9.5      | 8.8                     | 3.8             |
| Under 5,500 HDD .....                       | 11.2                              | 22.8        | 5.0         | Q        | 9.4      | 9.1                     | 3.6             |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                                | NC          | NC          | NC       | NC       | NC                      | NC              |
| <b>Type of Housing Unit</b>                 |                                   |             |             |          |          |                         |                 |
| Single-Family .....                         | 9.8                               | 22.5        | 4.7         | 7.5      | 9.5      | 8.9                     | 2.9             |
| Mobile Home .....                           | 9.9                               | 21.8        | 4.8         | NC       | Q        | 9.2                     | 9.1             |
| Multifamily (2 or more units) ...           | 8.5                               | 22.4        | 4.6         | Q        | NC       | Q                       | 3.9             |
| <b>Heated Floorspace (square feet)</b>      |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                      | 9.2                               | 22.8        | 4.7         | Q        | Q        | 9.1                     | 4.4             |
| 1,000 to 1,999 .....                        | 9.8                               | 22.5        | 4.7         | 7.4      | 9.9      | 9.1                     | 3.5             |
| 2,000 or More .....                         | 9.6                               | 22.3        | 4.8         | 7.5      | Q        | 8.6                     | 2.8             |
| <b>Ownership of Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Owned .....                                 | 9.9                               | 22.3        | 4.7         | 7.4      | 9.5      | 9.0                     | 2.8             |
| Rented .....                                | 8.8                               | 23.2        | 4.6         | Q        | Q        | 8.6                     | 6.4             |
| <b>Year of Construction</b>                 |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                        | 8.5                               | 22.8        | 4.6         | 7.5      | 8.8      | 8.9                     | 4.3             |
| 1950 to 1979 .....                          | 10.1                              | 22.3        | 4.8         | 7.3      | 10.4     | 9.1                     | 3.3             |
| 1980 or After <sup>3</sup> .....            | 11.8                              | 22.5        | 5.1         | NC       | NC       | 8.8                     | 5.0             |
| <b>1990 Family Income</b>                   |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                    | 8.8                               | 23.8        | 4.6         | 7.5      | Q        | 9.3                     | 5.3             |
| \$10,000 to \$19,999 .....                  | 9.1                               | 22.8        | 4.7         | Q        | Q        | 9.4                     | 3.9             |
| \$20,000 to \$34,999 .....                  | 9.6                               | 22.0        | 4.6         | Q        | Q        | 8.5                     | 3.5             |
| \$35,000 or More .....                      | 10.2                              | 22.2        | 4.9         | 7.5      | 9.9      | 8.8                     | 3.5             |
| <b>Below Poverty Line</b>                   |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                           | 9.5                               | 23.2        | 4.7         | Q        | Q        | 9.8                     | 6.3             |
| 125 Percent .....                           | 9.7                               | 23.4        | 4.7         | Q        | Q        | 9.6                     | 4.9             |
| <b>Age of Householder</b>                   |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                        | 9.5                               | 22.8        | 4.8         | Q        | Q        | 9.2                     | 3.5             |
| 35 to 59 Years .....                        | 10.1                              | 22.3        | 4.8         | 7.4      | 8.9      | 8.8                     | 3.3             |
| 60 Years and Over .....                     | 8.9                               | 22.4        | 4.6         | 7.1      | Q        | 8.9                     | 3.9             |
| <b>Household Size</b>                       |                                   |             |             |          |          |                         |                 |
| 1 Person .....                              | 8.4                               | 23.5        | 4.6         | Q        | Q        | 9.1                     | 4.3             |
| 2 to 4 Persons .....                        | 9.9                               | 22.1        | 4.8         | 7.4      | 9.5      | 8.7                     | 2.8             |
| 5 or More Persons .....                     | 10.9                              | 23.2        | 4.8         | Q        | Q        | 9.6                     | 5.6             |

<sup>1</sup> Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>3</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 38. Total Consumption and Expenditures by End Uses  
in Midwest Region Households, 1990

| Characteristics                                | Space Heating              |                                | Air Conditioning           |                                | Water Heating              |                                | Refrigerator               |                                | Appliances                 |                                | RSE Row Factors |
|--|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|-----------------|
|  | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) |                 |
| RSE Column Factors:                            | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             |                 |
| <b>Midwest Region</b>                          |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| <b>Total Region</b> .....                      | 1,710.6                    | 10.11                          | 72.4                       | 1.70                           | 466.0                      | 3.60                           | 114.9                      | 2.77                           | 442.9                      | 8.71                           | 3.5             |
| <b>Climate Zone<sup>1</sup></b>                |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 2,000 CDD and<br>Over 5,500 HDD .....    | 1,492.0                    | 8.76                           | 52.1                       | 1.22                           | 402.4                      | 3.07                           | 94.1                       | 2.27                           | 371.8                      | 7.23                           | 5.5             |
| Under 5,500 HDD .....                          | 218.6                      | 1.35                           | 20.4                       | .49                            | 63.6                       | .52                            | 20.8                       | .50                            | 71.1                       | 1.47                           | 20.2            |
| 2,000 CDD or More and<br>Under 4,000 HDD ..... | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC              |
| <b>Type of Housing Unit</b>                    |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Single-Family .....                            | 1,341.9                    | 7.80                           | 57.2                       | 1.33                           | 338.8                      | 2.59                           | 89.6                       | 2.11                           | 356.5                      | 6.96                           | 5.2             |
| Mobile Home .....                              | 91.1                       | .66                            | 5.5                        | .13                            | 24.3                       | .31                            | 5.8                        | .14                            | 28.7                       | .55                            | 22.7            |
| Multifamily (2 or more units) ..               | 277.6                      | 1.65                           | 9.8                        | .25                            | 102.9                      | .71                            | 19.5                       | .53                            | 57.7                       | 1.20                           | 7.1             |
| <b>Heated Floorspace<br/>(square feet)</b>     |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Fewer than 1,000 .....                         | 303.8                      | 2.02                           | 12.2                       | .30                            | 110.4                      | .94                            | 24.3                       | .61                            | 81.0                       | 1.64                           | 8.9             |
| 1,000 to 1,999 .....                           | 657.6                      | 3.94                           | 24.3                       | .57                            | 173.7                      | 1.35                           | 45.0                       | 1.08                           | 165.7                      | 3.23                           | 5.1             |
| 2,000 or More .....                            | 749.2                      | 4.14                           | 36.0                       | .84                            | 181.9                      | 1.31                           | 45.6                       | 1.08                           | 196.2                      | 3.83                           | 7.5             |
| <b>Ownership of Unit</b>                       |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Owned .....                                    | 1,312.6                    | 7.87                           | 59.5                       | 1.38                           | 332.5                      | 2.69                           | 89.0                       | 2.10                           | 355.7                      | 6.91                           | 3.9             |
| Rented .....                                   | 398.0                      | 2.24                           | 13.0                       | .32                            | 133.5                      | .91                            | 25.9                       | .68                            | 87.2                       | 1.80                           | 6.9             |
| <b>Year of Construction</b>                    |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1949 or Before .....                           | 828.1                      | 4.60                           | 16.6                       | .39                            | 185.6                      | 1.35                           | 44.5                       | 1.10                           | 163.4                      | 3.18                           | 7.9             |
| 1950 to 1979 .....                             | 711.2                      | 4.42                           | 42.7                       | .99                            | 218.9                      | 1.73                           | 56.9                       | 1.35                           | 218.0                      | 4.33                           | 5.3             |
| 1980 or After <sup>2</sup> .....               | 171.3                      | 1.09                           | 13.2                       | .32                            | 61.5                       | .51                            | 13.5                       | .32                            | 61.5                       | 1.20                           | 14.4            |
| <b>1990 Family Income</b>                      |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Less than \$10,000 .....                       | 293.5                      | 1.74                           | 5.2                        | .13                            | 66.8                       | .49                            | 16.0                       | .40                            | 54.6                       | 1.04                           | 14.2            |
| \$10,000 to \$19,999 .....                     | 343.6                      | 2.06                           | 10.3                       | .25                            | 81.9                       | .66                            | 23.1                       | .58                            | 74.8                       | 1.52                           | 7.7             |
| \$20,000 to \$34,999 .....                     | 443.7                      | 2.70                           | 18.8                       | .42                            | 124.8                      | 1.04                           | 31.8                       | .75                            | 125.1                      | 2.55                           | 8.3             |
| \$35,000 or More .....                         | 629.9                      | 3.60                           | 38.2                       | .91                            | 192.5                      | 1.41                           | 44.2                       | 1.05                           | 188.5                      | 3.60                           | 8.1             |
| <b>Below Poverty Line</b>                      |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 100 Percent .....                              | 192.5                      | 1.15                           | 3.4                        | .08                            | 52.7                       | .40                            | 11.1                       | .28                            | 45.0                       | .87                            | 13.4            |
| 125 Percent .....                              | 278.3                      | 1.70                           | 5.8                        | .14                            | 73.8                       | .56                            | 16.4                       | .40                            | 63.6                       | 1.25                           | 12.6            |
| <b>Age of Householder</b>                      |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 35 Years .....                           | 439.6                      | 2.59                           | 17.9                       | .42                            | 144.0                      | 1.10                           | 28.5                       | .69                            | 121.4                      | 2.35                           | 10.1            |
| 35 to 59 Years .....                           | 713.4                      | 4.21                           | 38.5                       | .90                            | 226.5                      | 1.73                           | 51.8                       | 1.24                           | 214.7                      | 4.22                           | 5.2             |
| 60 Years and Over .....                        | 557.5                      | 3.31                           | 16.0                       | .39                            | 95.4                       | .77                            | 34.6                       | .84                            | 106.8                      | 2.13                           | 7.4             |
| <b>Household Size</b>                          |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1 Person .....                                 | 387.6                      | 2.26                           | 12.6                       | .31                            | 76.3                       | .57                            | 23.5                       | .61                            | 58.6                       | 1.18                           | 8.3             |
| 2 to 4 Persons .....                           | 1,162.5                    | 6.92                           | 52.9                       | 1.24                           | 327.3                      | 2.57                           | 80.7                       | 1.92                           | 322.9                      | 6.33                           | 4.6             |
| 5 or More Persons .....                        | 160.5                      | .93                            | 7.0                        | .15                            | 62.4                       | .46                            | 10.7                       | .25                            | 61.4                       | 1.20                           | 12.0            |

See footnotes at end of table.

**Table 38. Total Consumption and Expenditures by End Uses  
in Midwest Region Households, 1990 (Continued)**

| Characteristics                                | Space Heating              |                                | Air Conditioning           |                                | Water Heating              |                                | Refrigerator               |                                | Appliances                 |                                | RSE Row Factors |
|--|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|-----------------|
|  | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) |                 |
| RSE Column Factors:                            | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             |                 |
| <b>East North Central Division ...</b>         | 1,260.5                    | 7.58                           | 42.4                       | 1.03                           | 342.7                      | 2.71                           | 80.1                       | 1.97                           | 319.4                      | 6.30                           | 4.7             |
| <b>Climate Zone<sup>1</sup></b>                |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 2,000 CDD and<br>Over 5,500 HDD .....    | 1,184.7                    | 7.13                           | 39.2                       | .94                            | 325.9                      | 2.55                           | 74.7                       | 1.83                           | 302.1                      | 5.87                           | 6.9             |
| Under 5,500 HDD .....                          | Q                          | Q                              | Q                          | Q                              | Q                          | Q                              | Q                          | Q                              | Q                          | Q                              | NF              |
| 2,000 CDD or More and<br>Under 4,000 HDD ..... | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC              |
| <b>Type of Housing Unit</b>                    |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Single-Family .....                            | 979.9                      | 5.75                           | 32.6                       | .77                            | 245.1                      | 1.89                           | 61.3                       | 1.46                           | 252.8                      | 4.93                           | 7.2             |
| Mobile Home .....                              | 67.4                       | .51                            | 3.7                        | .09                            | 18.1                       | .25                            | 4.3                        | .11                            | 22.4                       | .44                            | 28.3            |
| Multifamily (2 or more units) ..               | 213.2                      | 1.32                           | 6.2                        | .17                            | 79.5                       | .57                            | 14.5                       | .41                            | 44.2                       | .92                            | 8.1             |
| <b>Heated Floorspace<br/>(square feet)</b>     |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Fewer than 1,000 .....                         | 216.6                      | 1.53                           | 7.3                        | .19                            | 80.3                       | .73                            | 17.3                       | .44                            | 59.8                       | 1.23                           | 12.2            |
| 1,000 to 1,999 .....                           | 492.5                      | 3.00                           | 14.1                       | .34                            | 126.7                      | 1.00                           | 31.7                       | .77                            | 118.6                      | 2.29                           | 7.0             |
| 2,000 or More .....                            | 551.4                      | 3.05                           | 21.0                       | .51                            | 135.6                      | .97                            | 31.1                       | .76                            | 141.0                      | 2.78                           | 10.4            |
| <b>Ownership of Unit</b>                       |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Owned .....                                    | 973.1                      | 5.93                           | 35.3                       | .84                            | 245.1                      | 2.02                           | 61.9                       | 1.48                           | 256.3                      | 4.98                           | 5.2             |
| Rented .....                                   | 287.4                      | 1.65                           | 7.1                        | .19                            | 97.6                       | .69                            | 18.1                       | .49                            | 63.0                       | 1.31                           | 8.1             |
| <b>Year of Construction</b>                    |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1949 or Before .....                           | 629.0                      | 3.55                           | 9.2                        | .23                            | 140.0                      | 1.04                           | 32.2                       | .81                            | 122.0                      | 2.40                           | 9.9             |
| 1950 to 1979 .....                             | 491.3                      | 3.15                           | 24.8                       | .58                            | 154.2                      | 1.26                           | 37.7                       | .92                            | 149.5                      | 2.99                           | 7.2             |
| 1980 or After <sup>2</sup> .....               | 140.2                      | .88                            | 8.5                        | .22                            | 48.4                       | .41                            | 10.1                       | .24                            | 47.8                       | .92                            | 16.6            |
| <b>1990 Family Income</b>                      |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Less than \$10,000 .....                       | 221.8                      | 1.34                           | 2.9                        | .07                            | 50.5                       | .37                            | 11.0                       | .28                            | 40.1                       | .76                            | 19.4            |
| \$10,000 to \$19,999 .....                     | 234.4                      | 1.46                           | 5.0                        | .13                            | 55.9                       | .48                            | 15.3                       | .40                            | 50.5                       | 1.04                           | 10.4            |
| \$20,000 to \$34,999 .....                     | 326.7                      | 2.06                           | 10.1                       | .24                            | 87.2                       | .78                            | 22.7                       | .54                            | 89.4                       | 1.85                           | 10.7            |
| \$35,000 or More .....                         | 477.6                      | 2.72                           | 24.4                       | .58                            | 149.0                      | 1.07                           | 31.0                       | .75                            | 139.4                      | 2.65                           | 11.1            |
| <b>Below Poverty Line</b>                      |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 100 Percent .....                              | 153.6                      | .93                            | 2.0                        | .05                            | 41.3                       | .31                            | 8.1                        | .20                            | 34.5                       | .67                            | 16.8            |
| 125 Percent .....                              | 214.0                      | 1.32                           | 3.0                        | .08                            | 55.0                       | .42                            | 11.3                       | .28                            | 46.2                       | .90                            | 16.2            |
| <b>Age of Householder</b>                      |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 35 Years .....                           | 328.9                      | 1.95                           | 11.5                       | .27                            | 107.5                      | .85                            | 20.5                       | .50                            | 90.0                       | 1.74                           | 13.9            |
| 35 to 59 Years .....                           | 533.0                      | 3.18                           | 22.8                       | .55                            | 167.4                      | 1.28                           | 35.8                       | .88                            | 154.0                      | 3.05                           | 6.7             |
| 60 Years and Over .....                        | 398.6                      | 2.44                           | 8.1                        | .21                            | 67.8                       | .58                            | 23.7                       | .59                            | 75.4                       | 1.51                           | 9.8             |
| <b>Household Size</b>                          |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1 Person .....                                 | 266.1                      | 1.62                           | 7.0                        | .19                            | 52.9                       | .42                            | 15.4                       | .41                            | 39.4                       | .79                            | 11.2            |
| 2 to 4 Persons .....                           | 860.1                      | 5.18                           | 31.0                       | .75                            | 239.1                      | 1.92                           | 56.3                       | 1.37                           | 230.9                      | 4.56                           | 6.4             |
| 5 or More Persons .....                        | 134.3                      | .78                            | 4.4                        | .09                            | 50.6                       | .37                            | 8.3                        | .19                            | 49.0                       | .95                            | 14.4            |

See footnotes at end of table.

**Table 38. Total Consumption and Expenditures by End Uses in Midwest Region Households, 1990 (Continued)**

| Characteristics                        | Space Heating              |                                | Air Conditioning           |                                | Water Heating              |                                | Refrigerator               |                                | Appliances                 |                                | RSE Row Factors |
|--|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|-----------------|
|  | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) |                 |
|  | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             |                 |
| <b>West North Central Division</b>     | 450.1                      | 2.53                           | 30.0                       | 0.68                           | 123.3                      | 0.89                           | 34.9                       | 0.80                           | 123.6                      | 2.41                           | 5.2             |
| <b>Climate Zone<sup>1</sup></b>        |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 2,000 CDD and                    |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Over 5,500 HDD                         | 307.3                      | 1.63                           | 12.9                       | .27                            | 76.5                       | .53                            | 19.4                       | .44                            | 69.8                       | 1.36                           | 7.6             |
| Under 5,500 HDD                        | 142.8                      | .90                            | 17.1                       | .41                            | 46.8                       | .36                            | 15.4                       | .36                            | 53.8                       | 1.05                           | 11.1            |
| 2,000 CDD or More and                  |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 4,000 HDD                        | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC              |
| <b>Type of Housing Unit</b>            |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Single-Family                          | 362.0                      | 2.06                           | 24.6                       | .56                            | 93.7                       | .69                            | 28.4                       | .65                            | 103.7                      | 2.02                           | 6.2             |
| Mobile Home                            | 23.7                       | .15                            | 1.8                        | .04                            | 6.2                        | .06                            | 1.5                        | .03                            | 6.3                        | .11                            | 30.6            |
| Multifamily (2 or more units)          | 64.4                       | .33                            | 3.6                        | .08                            | 23.4                       | .14                            | 5.1                        | .12                            | 13.6                       | .27                            | 13.2            |
| <b>Heated Floorspace (square feet)</b> |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Fewer than 1,000                       | 87.2                       | .49                            | 4.9                        | .11                            | 30.1                       | .20                            | 7.0                        | .16                            | 21.2                       | .41                            | 9.0             |
| 1,000 to 1,999                         | 165.0                      | .94                            | 10.2                       | .24                            | 47.0                       | .35                            | 13.3                       | .31                            | 47.1                       | .94                            | 8.6             |
| 2,000 or More                          | 197.9                      | 1.10                           | 15.0                       | .33                            | 46.3                       | .34                            | 14.5                       | .33                            | 55.2                       | 1.05                           | 7.7             |
| <b>Ownership of Unit</b>               |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Owned                                  | 339.4                      | 1.94                           | 24.2                       | .55                            | 87.4                       | .66                            | 27.1                       | .62                            | 99.4                       | 1.93                           | 6.3             |
| Rented                                 | 110.7                      | .59                            | 5.8                        | .13                            | 35.9                       | .23                            | 7.8                        | .18                            | 24.2                       | .48                            | 12.7            |
| <b>Year of Construction</b>            |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1949 or Before                         | 199.0                      | 1.05                           | 7.4                        | .16                            | 45.6                       | .32                            | 12.3                       | .29                            | 41.4                       | .79                            | 9.3             |
| 1950 to 1979                           | 219.9                      | 1.27                           | 18.0                       | .41                            | 64.7                       | .47                            | 19.2                       | .44                            | 68.5                       | 1.34                           | 6.6             |
| 1980 or After <sup>2</sup>             | 31.1                       | .21                            | 4.6                        | .11                            | 13.1                       | .10                            | 3.4                        | .08                            | 13.7                       | .28                            | 28.6            |
| <b>1990 Family Income</b>              |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Less than \$10,000                     | 71.7                       | .40                            | 2.3                        | .06                            | 16.3                       | .11                            | 4.9                        | .12                            | 14.5                       | .28                            | 13.9            |
| \$10,000 to \$19,999                   | 109.1                      | .61                            | 5.2                        | .12                            | 25.9                       | .18                            | 7.8                        | .18                            | 24.3                       | .48                            | 8.5             |
| \$20,000 to \$34,999                   | 117.0                      | .64                            | 8.6                        | .18                            | 37.6                       | .26                            | 9.0                        | .20                            | 35.7                       | .70                            | 9.4             |
| \$35,000 or More                       | 152.3                      | .88                            | 13.8                       | .32                            | 43.5                       | .33                            | 13.2                       | .30                            | 49.1                       | .95                            | 10.1            |
| <b>Below Poverty Line</b>              |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 100 Percent                            | 38.9                       | .22                            | 1.4                        | .03                            | 11.5                       | .08                            | 3.0                        | .07                            | 10.5                       | .20                            | 18.9            |
| 125 Percent                            | 64.3                       | .38                            | 2.8                        | .07                            | 18.8                       | .14                            | 5.0                        | .12                            | 17.4                       | .35                            | 17.2            |
| <b>Age of Householder</b>              |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 35 Years                         | 110.7                      | .64                            | 6.5                        | .15                            | 36.5                       | .25                            | 8.0                        | .19                            | 31.4                       | .61                            | 9.4             |
| 35 to 59 Years                         | 180.4                      | 1.03                           | 15.7                       | .34                            | 59.2                       | .45                            | 16.0                       | .36                            | 60.8                       | 1.18                           | 7.8             |
| 60 Years and Over                      | 158.9                      | .87                            | 7.9                        | .18                            | 27.7                       | .19                            | 10.9                       | .25                            | 31.4                       | .62                            | 10.1            |
| <b>Household Size</b>                  |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1 Person                               | 121.5                      | .64                            | 5.6                        | .13                            | 23.4                       | .15                            | 8.1                        | .20                            | 19.1                       | .39                            | 11.4            |
| 2 to 4 Persons                         | 302.4                      | 1.74                           | 21.9                       | .50                            | 88.2                       | .65                            | 24.4                       | .55                            | 92.0                       | 1.77                           | 5.1             |
| 5 or More Persons                      | 26.2                       | .15                            | 2.6                        | .06                            | 11.7                       | .09                            | 2.4                        | .06                            | 12.4                       | .25                            | 19.9            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Consumption and Expenditure data are for major energy sources which include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 39. Consumption by End Uses, per Midwest Region Household, 1990

| Characteristics     | All Uses             |                           | Space Heating        |                           | Air Conditioning     |                           | Water Heating        |                           | Refrigerator         |                           | Appliances           |                           | RSE Row Factors |
|---------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|-----------------|
|                     | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) |                 |
| RSE Column Factors: | 1.1                  | 0.7                       | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        |                 |

## Midwest Region

|  |      |       |      |      |      |     |      |      |      |     |      |      |      |
|--|------|-------|------|------|------|-----|------|------|------|-----|------|------|------|
| <b>Total Region</b> .....              | 23.1 | 121.7 | 22.8 | 75.2 | 16.0 | 4.5 | 23.0 | 20.2 | 23.1 | 5.0 | 23.1 | 19.2 | 3.7  |
| <b>Climate Zone<sup>1</sup></b>        |      |       |      |      |      |     |      |      |      |     |      |      |      |
| Under 2,000 CDD and                    |      |       |      |      |      |     |      |      |      |     |      |      |      |
| Over 5,500 HDD .....                   | 19.7 | 122.6 | 19.4 | 76.7 | 13.1 | 4.0 | 19.7 | 20.5 | 19.7 | 4.8 | 19.7 | 18.9 | 3.9  |
| Under 5,500 HDD .....                  | 3.4  | 116.5 | 3.3  | 66.1 | 2.9  | 7.0 | 3.4  | 18.8 | 3.4  | 6.2 | 3.4  | 21.0 | 10.4 |
| 2,000 CDD or More and                  |      |       |      |      |      |     |      |      |      |     |      |      |      |
| Under 4,000 HDD .....                  | NC   | NC    | NC   | NC   | NC   | NC  | NC   | NC   | NC   | NC  | NC   | NC   | NC   |
| <b>Type of Housing Unit</b>            |      |       |      |      |      |     |      |      |      |     |      |      |      |
| Single-Family .....                    | 16.0 | 136.4 | 15.7 | 85.4 | 11.2 | 5.1 | 16.0 | 21.2 | 16.0 | 5.6 | 16.0 | 22.3 | 3.4  |
| Mobile Home .....                      | 1.6  | 96.6  | 1.6  | 56.6 | 1.0  | 5.4 | 1.6  | 15.1 | 1.6  | 3.6 | 1.6  | 17.9 | 12.6 |
| Multifamily (2 or more units) ...      | 5.4  | 85.9  | 5.4  | 51.1 | 3.8  | 2.5 | 5.4  | 18.9 | 5.4  | 3.6 | 5.4  | 10.6 | 6.6  |
| <b>Heated Floorspace (square feet)</b> |      |       |      |      |      |     |      |      |      |     |      |      |      |
| Fewer than 1,000 .....                 | 6.5  | 81.3  | 6.5  | 46.7 | 4.1  | 2.9 | 6.5  | 16.9 | 6.5  | 3.7 | 6.5  | 12.4 | 6.6  |
| 1,000 to 1,999 .....                   | 8.8  | 121.8 | 8.7  | 75.8 | 6.1  | 4.0 | 8.8  | 19.8 | 8.8  | 5.1 | 8.8  | 18.9 | 4.1  |
| 2,000 or More .....                    | 7.8  | 155.4 | 7.6  | 98.9 | 5.8  | 6.2 | 7.7  | 23.5 | 7.8  | 5.9 | 7.8  | 25.2 | 4.6  |
| <b>Ownership of Unit</b>               |      |       |      |      |      |     |      |      |      |     |      |      |      |
| Owned .....                            | 16.4 | 131.3 | 16.1 | 81.5 | 11.8 | 5.0 | 16.3 | 20.3 | 16.4 | 5.4 | 16.4 | 21.7 | 3.0  |
| Rented .....                           | 6.7  | 98.2  | 6.7  | 59.8 | 4.2  | 3.1 | 6.7  | 19.9 | 6.7  | 3.9 | 6.7  | 13.0 | 5.7  |
| <b>Year of Construction</b>            |      |       |      |      |      |     |      |      |      |     |      |      |      |
| 1949 or Before .....                   | 9.0  | 138.0 | 8.8  | 93.9 | 5.1  | 3.3 | 9.0  | 20.7 | 9.0  | 5.0 | 9.0  | 18.2 | 4.8  |
| 1950 to 1979 .....                     | 11.3 | 110.7 | 11.1 | 63.9 | 8.8  | 4.9 | 11.2 | 19.5 | 11.3 | 5.1 | 11.3 | 19.3 | 4.9  |
| 1980 or After <sup>2</sup> .....       | 2.8  | 113.6 | 2.8  | 60.8 | 2.2  | 6.0 | 2.8  | 21.8 | 2.8  | 4.8 | 2.8  | 21.8 | 10.5 |
| <b>1990 Family Income</b>              |      |       |      |      |      |     |      |      |      |     |      |      |      |
| Less than \$10,000 .....               | 3.7  | 116.7 | 3.7  | 79.5 | 1.9  | 2.7 | 3.7  | 17.9 | 3.7  | 4.3 | 3.7  | 14.6 | 8.3  |
| \$10,000 to \$19,999 .....             | 5.2  | 103.3 | 5.0  | 68.2 | 3.2  | 3.2 | 5.1  | 16.0 | 5.2  | 4.5 | 5.2  | 14.5 | 4.9  |
| \$20,000 to \$34,999 .....             | 6.4  | 115.5 | 6.3  | 70.2 | 4.6  | 4.1 | 6.4  | 19.4 | 6.4  | 4.9 | 6.4  | 19.4 | 4.8  |
| \$35,000 or More .....                 | 7.7  | 141.5 | 7.7  | 81.7 | 6.3  | 6.1 | 7.7  | 24.9 | 7.7  | 5.7 | 7.7  | 24.4 | 5.7  |
| <b>Below Poverty Line</b>              |      |       |      |      |      |     |      |      |      |     |      |      |      |
| 100 Percent .....                      | 2.7  | 115.0 | 2.6  | 75.3 | 1.2  | 2.9 | 2.6  | 20.2 | 2.7  | 4.2 | 2.7  | 17.0 | 8.8  |
| 125 Percent .....                      | 3.9  | 112.8 | 3.8  | 73.9 | 1.9  | 3.1 | 3.8  | 19.2 | 3.9  | 4.2 | 3.9  | 16.4 | 7.6  |
| <b>Age of Householder</b>              |      |       |      |      |      |     |      |      |      |     |      |      |      |
| Under 35 Years .....                   | 6.7  | 112.2 | 6.6  | 66.2 | 4.3  | 4.1 | 6.7  | 21.5 | 6.7  | 4.3 | 6.7  | 18.1 | 7.1  |
| 35 to 59 Years .....                   | 9.4  | 132.3 | 9.3  | 77.1 | 6.9  | 5.6 | 9.4  | 24.1 | 9.4  | 5.5 | 9.4  | 22.8 | 3.2  |
| 60 Years and Over .....                | 7.0  | 116.4 | 6.9  | 81.3 | 4.8  | 3.3 | 6.9  | 13.8 | 7.0  | 5.0 | 7.0  | 15.3 | 5.3  |
| <b>Household Size</b>                  |      |       |      |      |      |     |      |      |      |     |      |      |      |
| 1 Person .....                         | 6.0  | 93.0  | 5.9  | 65.2 | 4.1  | 3.1 | 6.0  | 12.7 | 6.0  | 3.9 | 6.0  | 9.7  | 5.6  |
| 2 to 4 Persons .....                   | 15.0 | 129.4 | 14.8 | 78.4 | 10.8 | 4.9 | 15.0 | 21.8 | 15.0 | 5.4 | 15.0 | 21.5 | 2.9  |
| 5 or More Persons .....                | 2.0  | 149.9 | 2.0  | 80.9 | 1.2  | 6.0 | 2.0  | 31.0 | 2.0  | 5.3 | 2.0  | 30.5 | 8.1  |

See footnotes at end of table.

Table 39. Consumption by End Uses, per Midwest Region Household, 1990 (Continued)

| Characteristics                          | All Uses             |                           | Space Heating        |                           | Air Conditioning     |                           | Water Heating        |                           | Refrigerator         |                           | Appliances           |                           | RSE Row Factors |
|--|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|-----------------|
|  | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) |                 |
| RSE Column Factors:                      | 1.1                  | 0.7                       | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        |                 |
| <b>East North Central Division</b> ..... | 16.6                 | 123.1                     | 16.4                 | 77.0                      | 10.7                 | 4.0                       | 16.6                 | 20.7                      | 16.6                 | 4.8                       | 16.6                 | 19.2                      | 3.0             |
| <b>Climate Zone<sup>1</sup></b>          |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 2,000 CDD and                      |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Over 5,500 HDD .....                     | 15.7                 | 122.8                     | 15.5                 | 76.5                      | 10.0                 | 3.9                       | 15.7                 | 20.8                      | 15.7                 | 4.8                       | 15.7                 | 19.3                      | 5.0             |
| Under 5,500 HDD .....                    | Q                    | 128.1                     | Q                    | 84.8                      | Q                    | 4.9                       | Q                    | 18.1                      | Q                    | 5.8                       | Q                    | 18.7                      | 19.2            |
| 2,000 CDD or More and                    |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 4,000 HDD .....                    | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC              |
| <b>Type of Housing Unit</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Single-Family .....                      | 11.3                 | 139.7                     | 11.0                 | 89.0                      | 7.2                  | 4.5                       | 11.2                 | 21.9                      | 11.3                 | 5.4                       | 11.3                 | 22.5                      | 4.8             |
| Mobile Home .....                        | 1.2                  | 94.6                      | 1.2                  | 55.1                      | .7                   | 5.1                       | 1.2                  | 14.8                      | 1.2                  | 3.5                       | 1.2                  | 18.3                      | 16.2            |
| Multifamily (2 or more units) .....      | 4.1                  | 86.4                      | 4.1                  | 51.5                      | 2.8                  | 2.2                       | 4.1                  | 19.2                      | 4.1                  | 3.5                       | 4.1                  | 10.7                      | 8.4             |
| <b>Heated Floorspace (square feet)</b>   |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Fewer than 1,000 .....                   | 4.8                  | 79.5                      | 4.8                  | 45.3                      | 2.8                  | 2.6                       | 4.8                  | 16.7                      | 4.8                  | 3.6                       | 4.8                  | 12.5                      | 9.1             |
| 1,000 to 1,999 .....                     | 6.3                  | 125.1                     | 6.2                  | 79.0                      | 4.0                  | 3.5                       | 6.3                  | 20.2                      | 6.3                  | 5.1                       | 6.3                  | 18.9                      | 5.8             |
| 2,000 or More .....                      | 5.5                  | 158.6                     | 5.4                  | 103.0                     | 3.9                  | 5.4                       | 5.5                  | 24.6                      | 5.5                  | 5.6                       | 5.5                  | 25.4                      | 6.1             |
| <b>Ownership of Unit</b>                 |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Owned .....                              | 11.8                 | 133.1                     | 11.6                 | 83.9                      | 8.0                  | 4.4                       | 11.8                 | 20.8                      | 11.8                 | 5.2                       | 11.8                 | 21.7                      | 4.2             |
| Rented .....                             | 4.8                  | 98.6                      | 4.8                  | 60.3                      | 2.7                  | 2.6                       | 4.8                  | 20.3                      | 4.8                  | 3.8                       | 4.8                  | 13.1                      | 7.5             |
| <b>Year of Construction</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1949 or Before .....                     | 6.6                  | 140.6                     | 6.5                  | 96.6                      | 3.4                  | 2.7                       | 6.6                  | 21.1                      | 6.6                  | 4.9                       | 6.6                  | 18.4                      | 6.0             |
| 1950 to 1979 .....                       | 7.9                  | 108.8                     | 7.8                  | 63.3                      | 5.8                  | 4.3                       | 7.8                  | 19.7                      | 7.9                  | 4.8                       | 7.9                  | 19.0                      | 7.1             |
| 1980 or After <sup>2</sup> .....         | 2.1                  | 121.4                     | 2.1                  | 66.7                      | 1.5                  | 5.6                       | 2.1                  | 23.0                      | 2.1                  | 4.8                       | 2.1                  | 22.7                      | 13.4            |
| <b>1990 Family Income</b>                |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Less than \$10,000 .....                 | 2.7                  | 122.1                     | 2.7                  | 83.6                      | 1.2                  | 2.5                       | 2.7                  | 18.9                      | 2.7                  | 4.1                       | 2.7                  | 15.0                      | 11.0            |
| \$10,000 to \$19,999 .....               | 3.6                  | 101.3                     | 3.4                  | 68.0                      | 1.9                  | 2.6                       | 3.5                  | 15.8                      | 3.6                  | 4.3                       | 3.6                  | 14.2                      | 6.7             |
| \$20,000 to \$34,999 .....               | 4.6                  | 116.0                     | 4.5                  | 72.0                      | 3.2                  | 3.2                       | 4.6                  | 18.9                      | 4.6                  | 4.9                       | 4.6                  | 19.3                      | 6.2             |
| \$35,000 or More .....                   | 5.7                  | 142.9                     | 5.7                  | 83.3                      | 4.4                  | 5.5                       | 5.7                  | 25.9                      | 5.7                  | 5.4                       | 5.7                  | 24.2                      | 7.5             |
| <b>Below Poverty Line</b>                |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 100 Percent .....                        | 2.0                  | 119.7                     | 1.9                  | 79.4                      | .8                   | 2.7                       | 2.0                  | 21.0                      | 2.0                  | 4.0                       | 2.0                  | 17.2                      | 11.1            |
| 125 Percent .....                        | 2.8                  | 117.9                     | 2.7                  | 78.9                      | 1.1                  | 2.8                       | 2.8                  | 19.9                      | 2.8                  | 4.1                       | 2.8                  | 16.5                      | 9.9             |
| <b>Age of Householder</b>                |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 35 Years .....                     | 4.9                  | 113.2                     | 4.9                  | 67.1                      | 2.9                  | 3.9                       | 4.9                  | 21.8                      | 4.9                  | 4.2                       | 4.9                  | 18.2                      | 9.9             |
| 35 to 59 Years .....                     | 6.8                  | 135.2                     | 6.7                  | 80.1                      | 4.7                  | 4.8                       | 6.8                  | 24.8                      | 6.8                  | 5.3                       | 6.8                  | 22.8                      | 4.2             |
| 60 Years and Over .....                  | 4.9                  | 116.5                     | 4.8                  | 82.7                      | 3.1                  | 2.7                       | 4.9                  | 13.9                      | 4.9                  | 4.8                       | 4.9                  | 15.3                      | 7.1             |
| <b>Household Size</b>                    |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1 Person .....                           | 4.2                  | 90.9                      | 4.1                  | 64.4                      | 2.6                  | 2.7                       | 4.2                  | 12.6                      | 4.2                  | 3.7                       | 4.2                  | 9.4                       | 8.0             |
| 2 to 4 Persons .....                     | 10.8                 | 130.9                     | 10.7                 | 80.6                      | 7.3                  | 4.3                       | 10.8                 | 22.1                      | 10.8                 | 5.2                       | 10.8                 | 21.3                      | 4.0             |
| 5 or More Persons .....                  | 1.6                  | 155.1                     | 1.6                  | 85.3                      | .8                   | 5.6                       | 1.6                  | 31.8                      | 1.6                  | 5.2                       | 1.6                  | 30.8                      | 9.8             |

See footnotes at end of table.

Table 39. Consumption by End Uses, per Midwest Region Household, 1990 (Continued)

| Characteristics                         | All Uses             |                           | Space Heating        |                           | Air Conditioning     |                           | Water Heating        |                           | Refrigerator         |                           | Appliances           |                           | RSE Row Factors |
|---|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|-----------------|
|   | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) |                 |
| RSE Column Factors:                     | 1.1                  | 0.7                       | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        |                 |
| <b>West North Central Division</b> .... | 6.5                  | 118.0                     | 6.4                  | 70.5                      | 5.3                  | 5.6                       | 6.5                  | 19.1                      | 6.5                  | 5.4                       | 6.5                  | 19.1                      | 3.9             |
| <b>Climate Zone<sup>1</sup></b>         |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 2,000 CDD and                     |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Over 5,500 HDD .....                    | 4.0                  | 121.6                     | 4.0                  | 77.4                      | 3.1                  | 4.1                       | 4.0                  | 19.1                      | 4.0                  | 4.9                       | 4.0                  | 17.5                      | 5.6             |
| Under 5,500 HDD .....                   | 2.5                  | 112.1                     | 2.4                  | 59.1                      | 2.2                  | 7.7                       | 2.5                  | 19.0                      | 2.5                  | 6.3                       | 2.5                  | 21.9                      | 7.9             |
| 2,000 CDD or More and                   |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 4,000 HDD .....                   | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC              |
| <b>Type of Housing Unit</b>             |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Single-Family .....                     | 4.8                  | 128.5                     | 4.7                  | 77.0                      | 4.0                  | 6.2                       | 4.8                  | 19.7                      | 4.8                  | 6.0                       | 4.8                  | 21.8                      | 4.4             |
| Mobile Home .....                       | .4                   | 102.8                     | .4                   | 61.6                      | .3                   | 6.1                       | .4                   | 16.2                      | .4                   | 3.8                       | .4                   | 16.5                      | 17.9            |
| Multifamily (2 or more units) .....     | 1.3                  | 84.2                      | 1.3                  | 49.5                      | 1.1                  | 3.4                       | 1.3                  | 17.9                      | 1.3                  | 3.9                       | 1.3                  | 10.4                      | 9.8             |
| <b>Heated Floorspace (square feet)</b>  |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Fewer than 1,000 .....                  | 1.7                  | 86.3                      | 1.7                  | 50.5                      | 1.3                  | 3.7                       | 1.7                  | 17.3                      | 1.7                  | 4.0                       | 1.7                  | 12.2                      | 7.1             |
| 1,000 to 1,999 .....                    | 2.5                  | 113.7                     | 2.4                  | 67.6                      | 2.1                  | 4.9                       | 2.5                  | 18.9                      | 2.5                  | 5.4                       | 2.5                  | 19.0                      | 5.4             |
| 2,000 or More .....                     | 2.2                  | 147.5                     | 2.2                  | 89.3                      | 1.9                  | 7.7                       | 2.2                  | 20.8                      | 2.2                  | 6.5                       | 2.2                  | 24.8                      | 6.4             |
| <b>Ownership of Unit</b>                |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Owned .....                             | 4.6                  | 126.6                     | 4.5                  | 75.4                      | 3.8                  | 6.3                       | 4.6                  | 19.2                      | 4.6                  | 5.9                       | 4.6                  | 21.8                      | 4.5             |
| Rented .....                            | 1.9                  | 97.3                      | 1.9                  | 58.7                      | 1.5                  | 3.8                       | 1.9                  | 19.0                      | 1.9                  | 4.1                       | 1.9                  | 12.8                      | 7.6             |
| <b>Year of Construction</b>             |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1949 or Before .....                    | 2.3                  | 130.5                     | 2.3                  | 86.2                      | 1.7                  | 4.4                       | 2.3                  | 19.5                      | 2.3                  | 5.3                       | 2.3                  | 17.7                      | 6.1             |
| 1950 to 1979 .....                      | 3.4                  | 115.1                     | 3.4                  | 65.4                      | 3.0                  | 6.0                       | 3.4                  | 19.1                      | 3.4                  | 5.7                       | 3.4                  | 20.2                      | 5.0             |
| 1980 or After <sup>2</sup> .....        | .7                   | 91.1                      | .7                   | 43.6                      | .6                   | 7.2                       | .7                   | 18.1                      | .7                   | 4.7                       | .7                   | 18.9                      | 13.6            |
| <b>1990 Family Income</b>               |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Less than \$10,000 .....                | 1.1                  | 103.2                     | 1.0                  | 69.2                      | .7                   | 3.1                       | 1.1                  | 15.3                      | 1.1                  | 4.6                       | 1.1                  | 13.6                      | 10.3            |
| \$10,000 to \$19,999 .....              | 1.6                  | 107.9                     | 1.6                  | 68.7                      | 1.3                  | 4.0                       | 1.6                  | 16.2                      | 1.6                  | 4.9                       | 1.6                  | 15.2                      | 5.9             |
| \$20,000 to \$34,999 .....              | 1.8                  | 114.4                     | 1.8                  | 65.7                      | 1.5                  | 5.9                       | 1.8                  | 20.7                      | 1.8                  | 5.0                       | 1.8                  | 19.6                      | 5.9             |
| \$35,000 or More .....                  | 2.0                  | 137.3                     | 2.0                  | 76.9                      | 1.8                  | 7.6                       | 2.0                  | 22.0                      | 2.0                  | 6.7                       | 2.0                  | 24.8                      | 8.5             |
| <b>Below Poverty Line</b>               |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 100 Percent .....                       | .6                   | 100.5                     | .6                   | 62.6                      | .4                   | 3.3                       | .6                   | 17.7                      | .6                   | 4.7                       | .6                   | 16.1                      | 12.2            |
| 125 Percent .....                       | 1.1                  | 99.7                      | 1.1                  | 61.2                      | .8                   | 3.6                       | 1.1                  | 17.3                      | 1.1                  | 4.6                       | 1.1                  | 16.0                      | 10.3            |
| <b>Age of Householder</b>               |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 35 Years .....                    | 1.8                  | 109.4                     | 1.7                  | 63.6                      | 1.4                  | 4.6                       | 1.8                  | 20.7                      | 1.8                  | 4.5                       | 1.8                  | 17.8                      | 5.7             |
| 35 to 59 Years .....                    | 2.7                  | 125.1                     | 2.6                  | 69.2                      | 2.2                  | 7.2                       | 2.7                  | 22.3                      | 2.7                  | 6.0                       | 2.7                  | 22.9                      | 5.5             |
| 60 Years and Over .....                 | 2.0                  | 116.2                     | 2.0                  | 78.0                      | 1.8                  | 4.5                       | 2.0                  | 13.6                      | 2.0                  | 5.3                       | 2.0                  | 15.4                      | 7.3             |
| <b>Household Size</b>                   |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1 Person .....                          | 1.8                  | 97.6                      | 1.8                  | 67.1                      | 1.5                  | 3.8                       | 1.8                  | 12.8                      | 1.8                  | 4.5                       | 1.8                  | 10.5                      | 8.3             |
| 2 to 4 Persons .....                    | 4.2                  | 125.5                     | 4.2                  | 72.6                      | 3.5                  | 6.2                       | 4.2                  | 20.9                      | 4.2                  | 5.8                       | 4.2                  | 21.8                      | 3.8             |
| 5 or More Persons .....                 | .4                   | 130.6                     | .4                   | 64.2                      | .4                   | 7.1                       | .4                   | 27.7                      | .4                   | 5.7                       | .4                   | 29.3                      | 12.7            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Consumption and Expenditure data are for major energy sources which include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 40. Expenditures by End Uses, per Midwest Region Household, 1990

| Characteristics                        | All Uses             |                        | Space Heating        |                        | Air Conditioning     |                        | Water Heating        |                        | Refrigerator         |                        | Appliances           |                        | RSE Row Factors |
|--|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|-----------------|
|  | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) |                 |
|  | 1.2                  | 0.6                    | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     |                 |
| Midwest Region                         |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| <b>Total Region</b> .....              | 23.1                 | 1,166                  | 22.8                 | 444                    | 16.0                 | 106                    | 23.0                 | 156                    | 23.1                 | 120                    | 23.1                 | 377                    | 3.3             |
| <b>Climate Zone<sup>1</sup></b>        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 2,000 HDD and                    |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Over 5,500 HDD .....                   | 19.7                 | 1,146                  | 19.4                 | 450                    | 13.1                 | 93                     | 19.7                 | 156                    | 19.7                 | 115                    | 19.7                 | 368                    | 3.5             |
| Under 5,500 HDD .....                  | 3.4                  | 1,281                  | 3.3                  | 408                    | 2.9                  | 169                    | 3.4                  | 155                    | 3.4                  | 149                    | 3.4                  | 435                    | 12.0            |
| 2,000 HDD or More and                  |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 4,000 HDD .....                  | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC              |
| <b>Type of Housing Unit</b>            |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Single-Family .....                    | 16.0                 | 1,298                  | 15.7                 | 497                    | 11.2                 | 119                    | 16.0                 | 162                    | 16.0                 | 132                    | 16.0                 | 434                    | 3.4             |
| Mobile Home .....                      | 1.6                  | 1,111                  | 1.6                  | 410                    | 1.0                  | 128                    | 1.6                  | 190                    | 1.6                  | 86                     | 1.6                  | 344                    | 14.7            |
| Multifamily (2 or more units) ..       | 5.4                  | 794                    | 5.4                  | 303                    | 3.8                  | 65                     | 5.4                  | 130                    | 5.4                  | 97                     | 5.4                  | 220                    | 5.8             |
| <b>Heated Floorspace (square feet)</b> |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Fewer than 1,000 .....                 | 6.5                  | 842                    | 6.5                  | 311                    | 4.1                  | 71                     | 6.5                  | 143                    | 6.5                  | 93                     | 6.5                  | 252                    | 6.1             |
| 1,000 to 1,999 .....                   | 8.8                  | 1,162                  | 8.7                  | 454                    | 6.1                  | 95                     | 8.8                  | 154                    | 8.8                  | 123                    | 8.8                  | 369                    | 4.0             |
| 2,000 or More .....                    | 7.8                  | 1,441                  | 7.6                  | 547                    | 5.8                  | 143                    | 7.7                  | 169                    | 7.8                  | 139                    | 7.8                  | 493                    | 4.7             |
| <b>Ownership of Unit</b>               |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Owned .....                            | 16.4                 | 1,279                  | 16.1                 | 489                    | 11.8                 | 117                    | 16.3                 | 164                    | 16.4                 | 128                    | 16.4                 | 422                    | 2.9             |
| Rented .....                           | 6.7                  | 888                    | 6.7                  | 337                    | 4.2                  | 76                     | 6.7                  | 136                    | 6.7                  | 101                    | 6.7                  | 268                    | 5.0             |
| <b>Year of Construction</b>            |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1949 or Before .....                   | 9.0                  | 1,184                  | 8.8                  | 521                    | 5.1                  | 77                     | 9.0                  | 151                    | 9.0                  | 122                    | 9.0                  | 355                    | 5.3             |
| 1950 to 1979 .....                     | 11.3                 | 1,137                  | 11.1                 | 397                    | 8.8                  | 113                    | 11.2                 | 154                    | 11.3                 | 120                    | 11.3                 | 384                    | 4.5             |
| 1980 or After <sup>2</sup> .....       | 2.8                  | 1,220                  | 2.8                  | 388                    | 2.2                  | 149                    | 2.8                  | 182                    | 2.8                  | 113                    | 2.8                  | 423                    | 9.8             |
| <b>1990 Family Income</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Less than \$10,000 .....               | 3.7                  | 1,016                  | 3.7                  | 472                    | 1.9                  | 69                     | 3.7                  | 131                    | 3.7                  | 107                    | 3.7                  | 278                    | 8.2             |
| \$10,000 to \$19,999 .....             | 5.2                  | 983                    | 5.0                  | 410                    | 3.2                  | 77                     | 5.1                  | 129                    | 5.2                  | 112                    | 5.2                  | 295                    | 4.7             |
| \$20,000 to \$34,999 .....             | 6.4                  | 1,158                  | 6.3                  | 427                    | 4.6                  | 91                     | 6.4                  | 162                    | 6.4                  | 116                    | 6.4                  | 396                    | 5.1             |
| \$35,000 or More .....                 | 7.7                  | 1,367                  | 7.7                  | 467                    | 6.3                  | 144                    | 7.7                  | 182                    | 7.7                  | 136                    | 7.7                  | 466                    | 5.2             |
| <b>Below Poverty Line</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 100 Percent .....                      | 2.7                  | 1,048                  | 2.6                  | 450                    | 1.2                  | 71                     | 2.6                  | 151                    | 2.7                  | 104                    | 2.7                  | 329                    | 8.8             |
| 125 Percent .....                      | 3.9                  | 1,044                  | 3.8                  | 451                    | 1.9                  | 76                     | 3.8                  | 146                    | 3.9                  | 104                    | 3.9                  | 322                    | 7.9             |
| <b>Age of Householder</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 35 Years .....                   | 6.7                  | 1,066                  | 6.6                  | 390                    | 4.3                  | 97                     | 6.7                  | 164                    | 6.7                  | 103                    | 6.7                  | 351                    | 6.2             |
| 35 to 59 Years .....                   | 9.4                  | 1,308                  | 9.3                  | 455                    | 6.9                  | 130                    | 9.4                  | 184                    | 9.4                  | 132                    | 9.4                  | 449                    | 3.4             |
| 60 Years and Over .....                | 7.0                  | 1,069                  | 6.9                  | 483                    | 4.8                  | 80                     | 6.9                  | 111                    | 7.0                  | 121                    | 7.0                  | 306                    | 5.1             |
| <b>Household Size</b>                  |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1 Person .....                         | 6.0                  | 819                    | 5.9                  | 380                    | 4.1                  | 77                     | 6.0                  | 95                     | 6.0                  | 101                    | 6.0                  | 196                    | 5.4             |
| 2 to 4 Persons .....                   | 15.0                 | 1,261                  | 14.8                 | 467                    | 10.8                 | 115                    | 15.0                 | 171                    | 15.0                 | 127                    | 15.0                 | 421                    | 2.8             |
| 5 or More Persons .....                | 2.0                  | 1,483                  | 2.0                  | 471                    | 1.2                  | 127                    | 2.0                  | 228                    | 2.0                  | 123                    | 2.0                  | 595                    | 7.0             |

See footnotes at end of table.



Table 40. Expenditures by End Uses, per Midwest Region Household, 1990 (Continued)

| Characteristics                             | All Uses             |                        | Space Heating        |                        | Air Conditioning     |                        | Water Heating        |                        | Refrigerator         |                        | Appliances           |                        | RSE Row Factors |
|---|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|-----------------|
|   | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) |                 |
| RSE Column Factors:                         | 1.2                  | 0.6                    | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     |                 |
| <b>East North Central Division ...</b>      | 16.6                 | 1,179                  | 16.4                 | 463                    | 10.7                 | 96                     | 16.6                 | 163                    | 16.6                 | 119                    | 16.6                 | 379                    | 2.7             |
| <b>Climate Zone<sup>1</sup></b>             |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 2,000 CDD and Over 5,600 HDD .....    | 15.7                 | 1,168                  | 15.5                 | 460                    | 10.0                 | 94                     | 15.7                 | 163                    | 15.7                 | 117                    | 15.7                 | 374                    | 4.5             |
| Under 5,500 HDD .....                       | Q                    | 1,358                  | Q                    | 501                    | Q                    | 125                    | Q                    | 174                    | Q                    | 153                    | Q                    | 458                    | 19.0            |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC              |
| <b>Type of Housing Unit</b>                 |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Single-Family .....                         | 11.3                 | 1,315                  | 11.0                 | 522                    | 7.2                  | 106                    | 11.2                 | 169                    | 11.3                 | 129                    | 11.3                 | 439                    | 4.5             |
| Mobile Home .....                           | 1.2                  | 1,139                  | 1.2                  | 418                    | .7                   | 122                    | 1.2                  | 204                    | 1.2                  | 86                     | 1.2                  | 360                    | 19.6            |
| Multifamily (2 or more units) ..            | 4.1                  | 819                    | 4.1                  | 318                    | 2.8                  | 62                     | 4.1                  | 137                    | 4.1                  | 99                     | 4.1                  | 223                    | 7.1             |
| <b>Heated Floorspace (square feet)</b>      |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Fewer than 1,000 .....                      | 4.8                  | 860                    | 4.8                  | 320                    | 2.8                  | 66                     | 4.8                  | 153                    | 4.8                  | 92                     | 4.8                  | 257                    | 8.1             |
| 1,000 to 1,999 .....                        | 6.3                  | 1,180                  | 6.2                  | 481                    | 4.0                  | 84                     | 6.3                  | 160                    | 6.3                  | 123                    | 6.3                  | 365                    | 5.3             |
| 2,000 or More .....                         | 5.5                  | 1,453                  | 5.4                  | 569                    | 3.9                  | 130                    | 5.5                  | 176                    | 5.5                  | 136                    | 5.5                  | 501                    | 6.2             |
| <b>Ownership of Unit</b>                    |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Owned .....                                 | 11.8                 | 1,291                  | 11.6                 | 511                    | 8.0                  | 105                    | 11.8                 | 172                    | 11.8                 | 125                    | 11.8                 | 422                    | 4.0             |
| Rented .....                                | 4.8                  | 903                    | 4.8                  | 346                    | 2.7                  | 70                     | 4.8                  | 143                    | 4.8                  | 103                    | 4.8                  | 274                    | 6.4             |
| <b>Year of Construction</b>                 |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1949 or Before .....                        | 6.6                  | 1,210                  | 6.5                  | 545                    | 3.4                  | 68                     | 6.6                  | 156                    | 6.6                  | 122                    | 6.6                  | 361                    | 6.4             |
| 1950 to 1979 .....                          | 7.9                  | 1,128                  | 7.8                  | 406                    | 5.8                  | 100                    | 7.8                  | 160                    | 7.9                  | 116                    | 7.9                  | 379                    | 6.4             |
| 1980 or After <sup>2</sup> .....            | 2.1                  | 1,270                  | 2.1                  | 420                    | 1.5                  | 141                    | 2.1                  | 197                    | 2.1                  | 115                    | 2.1                  | 436                    | 12.2            |
| <b>1990 Family Income</b>                   |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Less than \$10,000 .....                    | 2.7                  | 1,057                  | 2.7                  | 506                    | 1.2                  | 63                     | 2.7                  | 140                    | 2.7                  | 104                    | 2.7                  | 283                    | 10.6            |
| \$10,000 to \$19,999 .....                  | 3.6                  | 983                    | 3.4                  | 422                    | 1.9                  | 68                     | 3.5                  | 136                    | 3.6                  | 111                    | 3.6                  | 292                    | 6.5             |
| \$20,000 to \$34,999 .....                  | 4.6                  | 1,183                  | 4.5                  | 454                    | 3.2                  | 75                     | 4.6                  | 169                    | 4.6                  | 117                    | 4.6                  | 400                    | 6.4             |
| \$35,000 or More .....                      | 5.7                  | 1,353                  | 5.7                  | 474                    | 4.4                  | 131                    | 5.7                  | 187                    | 5.7                  | 131                    | 5.7                  | 461                    | 6.7             |
| <b>Below Poverty Line</b>                   |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 100 Percent .....                           | 2.0                  | 1,079                  | 1.9                  | 479                    | .8                   | 65                     | 2.0                  | 158                    | 2.0                  | 102                    | 2.0                  | 334                    | 10.9            |
| 125 Percent .....                           | 2.8                  | 1,074                  | 2.7                  | 486                    | 1.1                  | 69                     | 2.8                  | 152                    | 2.8                  | 102                    | 2.8                  | 322                    | 10.1            |
| <b>Age of Householder</b>                   |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 35 Years .....                        | 4.9                  | 1,075                  | 4.9                  | 398                    | 2.9                  | 91                     | 4.9                  | 172                    | 4.9                  | 102                    | 4.9                  | 352                    | 8.5             |
| 35 to 59 Years .....                        | 6.8                  | 1,325                  | 6.7                  | 479                    | 4.7                  | 118                    | 6.8                  | 190                    | 6.8                  | 130                    | 6.8                  | 451                    | 4.4             |
| 60 Years and Over .....                     | 4.9                  | 1,082                  | 4.8                  | 506                    | 3.1                  | 68                     | 4.9                  | 118                    | 4.9                  | 120                    | 4.9                  | 307                    | 6.9             |
| <b>Household Size</b>                       |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1 Person .....                              | 4.2                  | 819                    | 4.1                  | 392                    | 2.6                  | 71                     | 4.2                  | 100                    | 4.2                  | 98                     | 4.2                  | 189                    | 7.5             |
| 2 to 4 Persons .....                        | 10.8                 | 1,271                  | 10.7                 | 485                    | 7.3                  | 103                    | 10.8                 | 178                    | 10.8                 | 126                    | 10.8                 | 421                    | 3.8             |
| 5 or More Persons .....                     | 1.6                  | 1,498                  | 1.6                  | 496                    | .8                   | 115                    | 1.6                  | 232                    | 1.6                  | 121                    | 1.6                  | 596                    | 8.2             |

See footnotes at end of table.

Table 40. Expenditures by End Uses, per Midwest Region Household, 1990 (Continued)

| Characteristics                        | All Uses             |                        | Space Heating        |                        | Air Conditioning     |                        | Water Heating        |                        | Refrigerator         |                        | Appliances           |                        | RSE Row Factors |
|--|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|-----------------|
|  | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) |                 |
|  | 1.2                  | 0.6                    | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     |                 |
| <b>West North Central Division</b>     | 6.5                  | 1,132                  | 6.4                  | 397                    | 5.3                  | 127                    | 6.5                  | 138                    | 6.5                  | 124                    | 6.5                  | 373                    | 4.3             |
| <b>Climate Zone<sup>1</sup></b>        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 2,000 CDD and Over 5,500 HDD     | 4.0                  | 1,059                  | 4.0                  | 411                    | 3.1                  | 87                     | 4.0                  | 132                    | 4.0                  | 110                    | 4.0                  | 341                    | 5.4             |
| Under 5,500 HDD                        | 2.5                  | 1,252                  | 2.4                  | 373                    | 2.2                  | 182                    | 2.5                  | 147                    | 2.5                  | 147                    | 2.5                  | 426                    | 9.2             |
| 2,000 CDD or More and Under 4,000 HDD  | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC              |
| <b>Type of Housing Unit</b>            |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Single-Family                          | 4.8                  | 1,256                  | 4.7                  | 438                    | 4.0                  | 141                    | 4.8                  | 146                    | 4.8                  | 137                    | 4.8                  | 425                    | 4.9             |
| Mobile Home                            | .4                   | 1,020                  | .4                   | 384                    | .3                   | 143                    | .4                   | 148                    | .4                   | 86                     | .4                   | 293                    | 16.4            |
| Multifamily (2 or more units)          | 1.3                  | 714                    | 1.3                  | 252                    | 1.1                  | 72                     | 1.3                  | 106                    | 1.3                  | 89                     | 1.3                  | 209                    | 10.4            |
| <b>Heated Floorspace (square feet)</b> |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Fewer than 1,000                       | 1.7                  | 793                    | 1.7                  | 285                    | 1.3                  | 82                     | 1.7                  | 117                    | 1.7                  | 95                     | 1.7                  | 237                    | 7.3             |
| 1,000 to 1,999                         | 2.5                  | 1,119                  | 2.4                  | 387                    | 2.1                  | 115                    | 2.5                  | 139                    | 2.5                  | 125                    | 2.5                  | 379                    | 5.9             |
| 2,000 or More                          | 2.2                  | 1,412                  | 2.2                  | 495                    | 1.9                  | 170                    | 2.2                  | 152                    | 2.2                  | 147                    | 2.2                  | 473                    | 6.5             |
| <b>Ownership of Unit</b>               |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Owned                                  | 4.6                  | 1,249                  | 4.5                  | 432                    | 3.8                  | 144                    | 4.6                  | 145                    | 4.6                  | 136                    | 4.6                  | 422                    | 4.9             |
| Rented                                 | 1.9                  | 852                    | 1.9                  | 313                    | 1.5                  | 85                     | 1.9                  | 119                    | 1.9                  | 97                     | 1.9                  | 255                    | 8.4             |
| <b>Year of Construction</b>            |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1949 or Before                         | 2.3                  | 1,112                  | 2.3                  | 456                    | 1.7                  | 93                     | 2.3                  | 136                    | 2.3                  | 123                    | 2.3                  | 337                    | 6.9             |
| 1950 to 1979                           | 3.4                  | 1,159                  | 3.4                  | 378                    | 3.0                  | 137                    | 3.4                  | 139                    | 3.4                  | 129                    | 3.4                  | 395                    | 5.0             |
| 1980 or After <sup>2</sup>             | .7                   | 1,073                  | .7                   | 294                    | .6                   | 169                    | .7                   | 138                    | .7                   | 108                    | .7                   | 387                    | 15.0            |
| <b>1990 Family Income</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Less than \$10,000                     | 1.1                  | 912                    | 1.0                  | 385                    | .7                   | 77                     | 1.1                  | 108                    | 1.1                  | 113                    | 1.1                  | 264                    | 10.2            |
| \$10,000 to \$19,999                   | 1.6                  | 982                    | 1.6                  | 383                    | 1.3                  | 89                     | 1.6                  | 112                    | 1.6                  | 114                    | 1.6                  | 301                    | 5.4             |
| \$20,000 to \$34,999                   | 1.8                  | 1,093                  | 1.8                  | 360                    | 1.5                  | 126                    | 1.8                  | 143                    | 1.8                  | 112                    | 1.8                  | 385                    | 6.1             |
| \$35,000 or More                       | 2.0                  | 1,408                  | 2.0                  | 447                    | 1.8                  | 176                    | 2.0                  | 169                    | 2.0                  | 150                    | 2.0                  | 479                    | 8.4             |
| <b>Below Poverty Line</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 100 Percent                            | .6                   | 951                    | .6                   | 361                    | .4                   | 80                     | .6                   | 131                    | .6                   | 111                    | .6                   | 313                    | 13.3            |
| 125 Percent                            | 1.1                  | 968                    | 1.1                  | 359                    | .8                   | 86                     | 1.1                  | 131                    | 1.1                  | 110                    | 1.1                  | 320                    | 10.8            |
| <b>Age of Householder</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 35 Years                         | 1.8                  | 1,043                  | 1.7                  | 365                    | 1.4                  | 111                    | 1.8                  | 142                    | 1.8                  | 106                    | 1.8                  | 347                    | 6.3             |
| 35 to 59 Years                         | 2.7                  | 1,265                  | 2.6                  | 393                    | 2.2                  | 157                    | 2.7                  | 168                    | 2.7                  | 137                    | 2.7                  | 443                    | 5.9             |
| 60 Years and Over                      | 2.0                  | 1,037                  | 2.0                  | 428                    | 1.8                  | 102                    | 2.0                  | 94                     | 2.0                  | 123                    | 2.0                  | 304                    | 6.9             |
| <b>Household Size</b>                  |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1 Person                               | 1.8                  | 820                    | 1.8                  | 352                    | 1.5                  | 87                     | 1.8                  | 81                     | 1.8                  | 108                    | 1.8                  | 212                    | 8.0             |
| 2 to 4 Persons                         | 4.2                  | 1,238                  | 4.2                  | 419                    | 3.5                  | 141                    | 4.2                  | 155                    | 4.2                  | 130                    | 4.2                  | 421                    | 4.0             |
| 5 or More Persons                      | .4                   | 1,426                  | .4                   | 373                    | .4                   | 154                    | .4                   | 212                    | .4                   | 132                    | .4                   | 591                    | 12.1            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Consumption and Expenditure data are for major energy sources which include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

SPACE-HEATING CONSUMPTION/EXPENDITURES

MIDWEST

Table 41. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in Midwest Region Households, 1990

| Characteristics                             | Electricity          |                |               |                                      | Natural Gas          |                |                      |                                      | RSE Flow Factors |
|---|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|------------------|
|   | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                  |
|   |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |                  |
|   |                      | NF             | NF            |                                      |                      | NF             | NF                   |                                      |                  |
| RSE Column Factors:                         | 1.2                  |                |               | 0.6                                  |                      |                |                      | NF                                   | NF               |
| <b>Midwest Region</b>                       |                      |                |               |                                      |                      |                |                      |                                      |                  |
| <b>Total Region</b> .....                   | 6.0                  | 58.3           | 17.1          | 1.17                                 | 16.7                 | 1,426.7        | 1,401                | 7.01                                 | 9.4              |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Under 2,000 CDD and Over 5,500 HDD .....    | 4.8                  | 47.6           | 14.0          | .95                                  | 14.3                 | 1,246.6        | 1,224                | 6.12                                 | 12.0             |
| Under 5,500 HDD .....                       | 1.2                  | 10.7           | 3.1           | .22                                  | 2.3                  | 180.2          | 177                  | .89                                  | 23.1             |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                   | NC             | NC            | NC                                   | NC                   | NC             | NC                   | NC                                   | NC               |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Single-Family .....                         | 3.8                  | 40.3           | 11.8          | .76                                  | 11.6                 | 1,104.4        | 1,086                | 5.38                                 | 10.7             |
| Mobile Home .....                           | .4                   | 4.3            | 1.3           | Q                                    | 1.0                  | 64.6           | 64                   | .35                                  | 42.3             |
| Multifamily (2 or more units) .....         | 1.7                  | 13.7           | 4.0           | .31                                  | 4.1                  | 257.7          | 251                  | 1.28                                 | 17.5             |
| <b>Heated Floorspace (square feet)</b>      |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Fewer than 1,000 .....                      | 1.9                  | 16.5           | 4.8           | .37                                  | 4.4                  | 241.4          | 237                  | 1.22                                 | 16.7             |
| 1,000 to 1,999 .....                        | 2.4                  | 24.5           | 7.2           | .47                                  | 6.3                  | 544.7          | 535                  | 2.71                                 | 10.0             |
| 2,000 or More .....                         | 1.7                  | 17.4           | 5.1           | .33                                  | 5.9                  | 640.7          | 629                  | 3.08                                 | 14.9             |
| <b>Ownership of Unit</b>                    |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Owned .....                                 | 4.5                  | 48.7           | 14.3          | .95                                  | 11.2                 | 1,063.4        | 1,045                | 5.21                                 | 9.9              |
| Rented .....                                | 1.5                  | 9.6            | 2.8           | .22                                  | 5.5                  | 363.3          | 356                  | 1.80                                 | 13.4             |
| <b>Year of Construction</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                  |
| 1949 or Before .....                        | 2.0                  | 10.9           | 3.2           | .22                                  | 7.1                  | 712.6          | 700                  | 3.51                                 | 15.3             |
| 1950 to 1979 .....                          | 3.2                  | 37.2           | 10.9          | .75                                  | 7.7                  | 578.2          | 568                  | 2.85                                 | 12.2             |
| 1980 or After <sup>2</sup> .....            | .8                   | 10.2           | 3.0           | .20                                  | 1.8                  | 135.9          | 133                  | .66                                  | 22.2             |
| <b>1990 Family Income</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Less than \$10,000 .....                    | .9                   | 6.4            | 1.9           | .13                                  | 2.7                  | 242.9          | 238                  | 1.20                                 | 19.8             |
| \$10,000 to \$19,999 .....                  | 1.4                  | 9.9            | 2.9           | .21                                  | 3.7                  | 286.5          | 282                  | 1.43                                 | 12.7             |
| \$20,000 to \$34,999 .....                  | 1.8                  | 18.3           | 5.4           | .37                                  | 4.5                  | 356.8          | 351                  | 1.77                                 | 13.4             |
| \$35,000 or More .....                      | 1.9                  | 23.7           | 7.0           | .46                                  | 5.8                  | 540.5          | 531                  | 2.62                                 | 15.3             |
| <b>Below Poverty Line</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                  |
| 100 Percent .....                           | .5                   | 2.9            | .9            | .06                                  | 1.7                  | 153.6          | 150                  | .77                                  | 20.9             |
| 125 Percent .....                           | .8                   | 5.2            | 1.5           | .11                                  | 2.6                  | 222.4          | 218                  | 1.11                                 | 19.2             |
| <b>Age of Householder</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Under 35 Years .....                        | 1.5                  | 15.2           | 4.5           | .29                                  | 5.0                  | 376.9          | 370                  | 1.87                                 | 17.7             |
| 35 to 59 Years .....                        | 2.4                  | 26.5           | 7.8           | .54                                  | 6.7                  | 591.3          | 580                  | 2.87                                 | 10.0             |
| 60 Years and Over .....                     | 2.1                  | 16.6           | 4.9           | .34                                  | 5.0                  | 458.5          | 451                  | 2.27                                 | 14.3             |
| <b>Household Size</b>                       |                      |                |               |                                      |                      |                |                      |                                      |                  |
| 1 Person .....                              | 1.9                  | 13.0           | 3.8           | .29                                  | 4.4                  | 349.2          | 343                  | 1.72                                 | 15.7             |
| 2 to 4 Persons .....                        | 3.6                  | 40.7           | 11.9          | .81                                  | 10.9                 | 946.6          | 930                  | 4.65                                 | 8.8              |
| 5 or More Persons .....                     | .5                   | Q              | Q             | Q                                    | 1.3                  | 130.9          | 128                  | .64                                  | 25.2             |

See footnotes at end of table.

# SPACE-HEATING CONSUMPTION/EXPENDITURES

## Table 41. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in Midwest Region Households, 1990 (Continued)

| Characteristics                          | Electricity          |                |               |                                      | Natural Gas          |                |                      |                                      | RSE Row Factors |
|--|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|-----------------|
|  | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                 |
|  |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |                 |
| RSE Column Factors:                      | 1.2                  | NF             | NF            | NF                                   | 0.6                  | NF             | NF                   | NF                                   |                 |
| <b>East North Central Division</b> ..... | 4.4                  | 44.2           | 13.0          | 0.89                                 | 11.8                 | 1,050.6        | 1,027                | 5.24                                 | 12.1            |
| <b>Climate Zone</b> <sup>1</sup>         |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 2,000 CDD and                      |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Over 5,500 HDD                           | 4.1                  | 42.5           | 12.5          | .85                                  | 11.1                 | 988.6          | 966                  | 4.94                                 | 14.3            |
| Under 5,500 HDD                          | Q                    | Q              | Q             | Q                                    | Q                    | Q              | Q                    | Q                                    | NF              |
| 2,000 CDD or More and                    |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 4,000 HDD                          | NC                   | NC             | NC            | NC                                   | NC                   | NC             | NC                   | NC                                   | NC              |
| <b>Type of Housing Unit</b>              |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Single-Family                            | 2.6                  | 28.7           | 8.4           | .53                                  | 8.1                  | 806.6          | 789                  | 3.97                                 | 14.1            |
| Mobile Home                              | .3                   | Q              | Q             | Q                                    | .7                   | 46.0           | 45                   | .26                                  | 84.5            |
| Multifamily (2 or more units)            | 1.5                  | 12.3           | 3.6           | .28                                  | 2.9                  | 198.0          | 193                  | 1.01                                 | 19.7            |
| <b>Heated Floorspace (square feet)</b>   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Fewer than 1,000                         | 1.5                  | 13.6           | 4.0           | .31                                  | 3.1                  | 166.9          | 163                  | .87                                  | 21.8            |
| 1,000 to 1,999                           | 1.8                  | 17.9           | 5.3           | .35                                  | 4.5                  | 408.5          | 400                  | 2.08                                 | 12.8            |
| 2,000 or More                            | 1.1                  | 12.7           | 3.7           | .24                                  | 4.2                  | 475.2          | 464                  | 2.30                                 | 20.0            |
| <b>Ownership of Unit</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Owned                                    | 3.3                  | 37.5           | 11.0          | .73                                  | 7.9                  | 786.3          | 769                  | 3.90                                 | 12.7            |
| Rented                                   | 1.1                  | 6.7            | 2.0           | .16                                  | 3.8                  | 264.3          | 258                  | 1.34                                 | 16.9            |
| <b>Year of Construction</b>              |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1949 or Before                           | 1.5                  | 8.4            | 2.4           | .17                                  | 5.3                  | 547.1          | 535                  | 2.75                                 | 18.8            |
| 1950 to 1979                             | 2.3                  | 27.6           | 8.1           | .56                                  | 5.1                  | 390.1          | 381                  | 1.95                                 | 16.9            |
| 1980 or After?                           | .6                   | 8.2            | 2.4           | .16                                  | 1.3                  | 113.3          | 111                  | .54                                  | 26.7            |
| <b>1990 Family Income</b>                |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Less than \$10,000                       | .7                   | 5.1            | 1.5           | .10                                  | 1.9                  | 185.9          | 181                  | .94                                  | 24.9            |
| \$10,000 to \$19,999                     | 1.0                  | 6.4            | 1.9           | .14                                  | 2.5                  | 193.3          | 189                  | .99                                  | 16.3            |
| \$20,000 to \$34,999                     | 1.2                  | 14.1           | 4.1           | .29                                  | 3.1                  | 255.8          | 250                  | 1.30                                 | 17.1            |
| \$35,000 or More                         | 1.5                  | 18.6           | 5.5           | .36                                  | 4.3                  | 415.6          | 407                  | 2.01                                 | 19.7            |
| <b>Below Poverty Line</b>                |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 100 Percent                              | 4                    | Q              | Q             | .05                                  | 1.3                  | 123.5          | 120                  | .63                                  | 24.9            |
| 125 Percent                              | .6                   | 4.2            | 1.2           | .08                                  | 1.9                  | 173.9          | 169                  | .88                                  | 23.2            |
| <b>Age of Householder</b>                |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 35 Years                           | 1.1                  | 11.9           | 3.5           | .23                                  | 3.6                  | 283.7          | 277                  | 1.43                                 | 23.1            |
| 35 to 59 Years                           | 1.7                  | 21.2           | 6.2           | .43                                  | 4.7                  | 443.7          | 434                  | 2.17                                 | 12.4            |
| 60 Years and Over                        | 1.6                  | 11.1           | 3.3           | .23                                  | 3.5                  | 323.2          | 316                  | 1.65                                 | 18.1            |
| <b>Household Size</b>                    |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1 Person                                 | 1.5                  | 10.1           | 3.0           | .23                                  | 2.9                  | 239.8          | 234                  | 1.22                                 | 20.9            |
| 2 to 4 Persons                           | 2.5                  | 28.8           | 8.7           | .60                                  | 7.8                  | 700.6          | 685                  | 3.48                                 | 11.3            |
| 5 or More Persons                        | .4                   | Q              | Q             | Q                                    | 1.1                  | 110.2          | 107                  | .54                                  | 30.3            |

See footnotes at end of table.

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**Table 41. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in Midwest Region Households, 1990 (Continued)**

| Characteristics                             | Electricity          |                |               |                                      | Natural Gas          |                |                      |                                      | RSE Row Factors |
|---|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|-----------------|
|   | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                 |
|   |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |                 |
| RSE Column Factors:                         | 1.2                  | NF             | NF            | NF                                   | 0.6                  | NF             | NF                   | NF                                   |                 |
| <b>West North Central Division</b> ....     | 1.6                  | 14.1           | 4.1           | 0.27                                 | 4.9                  | 376.1          | 374                  | 1.77                                 | 10.2            |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | .7                   | 5.1            | 1.5           | .10                                  | 3.3                  | 257.9          | 257                  | 1.18                                 | 16.0            |
| Under 5,500 HDD .....                       | .8                   | 9.0            | 2.6           | .18                                  | 1.6                  | 118.2          | 117                  | .59                                  | 17.5            |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                   | NC             | NC            | NC                                   | NC                   | NC             | NC                   | NC                                   | NC              |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Single-Family .....                         | 1.2                  | 11.6           | 3.4           | .22                                  | 3.5                  | 297.8          | 297                  | 1.40                                 | 13.5            |
| Mobile Home .....                           | Q                    | Q              | Q             | Q                                    | .3                   | 18.6           | 19                   | .09                                  | 62.4            |
| Multifamily (2 or more units) .....         | .3                   | 1.4            | .4            | .03                                  | 1.1                  | 59.7           | 59                   | .28                                  | 20.4            |
| <b>Heated Floorspace (square feet)</b>      |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Fewer than 1,000 .....                      | .4                   | 2.9            | .8            | .06                                  | 1.4                  | 74.5           | 74                   | .35                                  | 14.9            |
| 1,000 to 1,999 .....                        | .6                   | 6.6            | 1.9           | .12                                  | 1.8                  | 136.2          | 136                  | .63                                  | 14.1            |
| 2,000 or More .....                         | .6                   | 4.7            | 1.4           | .09                                  | 1.7                  | 165.5          | 165                  | .79                                  | 11.8            |
| <b>Ownership of Unit</b>                    |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Owned .....                                 | 1.2                  | 11.3           | 3.3           | .22                                  | 3.3                  | 277.0          | 276                  | 1.31                                 | 12.8            |
| Rented .....                                | .4                   | 2.9            | .8            | .06                                  | 1.6                  | 99.1           | 98                   | .46                                  | 17.3            |
| <b>Year of Construction</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1949 or Before .....                        | .5                   | 2.6            | .7            | .05                                  | 1.8                  | 165.5          | 165                  | .76                                  | 14.5            |
| 1950 to 1979 .....                          | .9                   | 9.6            | 2.8           | .19                                  | 2.6                  | 188.0          | 187                  | .90                                  | 10.8            |
| 1980 or After <sup>2</sup> .....            | .2                   | 2.0            | .6            | .04                                  | .5                   | 22.6           | 22                   | .11                                  | 26.1            |
| <b>1990 Family Income</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Less than \$10,000 .....                    | .2                   | 1.3            | .4            | .03                                  | .8                   | 57.0           | 57                   | .26                                  | 24.6            |
| \$10,000 to \$19,999 .....                  | .4                   | 3.5            | 1.0           | .07                                  | 1.2                  | 93.2           | 93                   | .44                                  | 16.5            |
| \$20,000 to \$34,999 .....                  | .5                   | 4.2            | 1.2           | .08                                  | 1.3                  | 101.0          | 101                  | .47                                  | 13.3            |
| \$35,000 or More .....                      | .5                   | 5.1            | 1.5           | .10                                  | 1.5                  | 124.9          | 124                  | .61                                  | 14.6            |
| <b>Below Poverty Line</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 100 Percent .....                           | .1                   | .6             | .2            | .01                                  | .4                   | 30.1           | 30                   | .14                                  | 23.4            |
| 125 Percent .....                           | .2                   | 1.0            | .3            | .02                                  | .7                   | 48.5           | 48                   | .23                                  | 22.9            |
| <b>Age of Householder</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 35 Years .....                        | .4                   | 3.3            | 1.0           | .07                                  | 1.4                  | 93.2           | 93                   | .45                                  | 14.5            |
| 35 to 59 Years .....                        | .7                   | 5.3            | 1.6           | .10                                  | 2.0                  | 147.6          | 147                  | .70                                  | 13.7            |
| 60 Years and Over .....                     | .5                   | 5.5            | 1.6           | .10                                  | 1.5                  | 135.3          | 135                  | .62                                  | 20.7            |
| <b>Household Size</b>                       |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1 Person .....                              | .4                   | 2.9            | .8            | .06                                  | 1.5                  | 109.4          | 109                  | .50                                  | 17.5            |
| 2 to 4 Persons .....                        | 1.0                  | 10.9           | 3.2           | .21                                  | 3.1                  | 246.0          | 245                  | 1.17                                 | 11.2            |
| 5 or More Persons .....                     | .1                   | .3             | .1            | .01                                  | .3                   | 20.8           | 21                   | .10                                  | 16.5            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, E, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

SPACE-HEATING CONSUMPTION/EXPENDITURES

Table 42. Total Fuel Oil, Kerosene, and LPG Consumption and Expenditures for Space Heating in Midwest Region Households, 1990

| Characteristics                             | Fuel Oil       |                   |                                      |                      | Kerosene       |                   |                                      |                      | Liquefied Petroleum Gas |                   |                                      |      | RSE Row Factors |
|---|----------------|-------------------|--------------------------------------|----------------------|----------------|-------------------|--------------------------------------|----------------------|-------------------------|-------------------|--------------------------------------|------|-----------------|
|   | Total Consumed |                   | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                   | Total Expenditures (billion dollars) | Households (million) | Total Consumed          |                   | Total Expenditures (billion dollars) |      |                 |
|   | (trillion Btu) | (billion gallons) |                                      |                      | (trillion Btu) | (billion gallons) |                                      |                      | (trillion Btu)          | (billion gallons) |                                      |      |                 |
| RSE Column Factors:                         | 0.9            | NF                | NF                                   | NF                   | 1.1            | NF                | NF                                   | NF                   | 0.8                     | NF                | NF                                   | NF   |                 |
| Midwest Region                              |                |                   |                                      |                      |                |                   |                                      |                      |                         |                   |                                      |      |                 |
| <b>Total Region</b> .....                   | 1.6            | 120.2             | 0.87                                 | 0.92                 | 1.3            | Q                 | Q                                    | 0.09                 | 1.8                     | 96.2              | 1.05                                 | 0.92 | 22.6            |
| <b>Climate Zone<sup>1</sup></b>             |                |                   |                                      |                      |                |                   |                                      |                      |                         |                   |                                      |      |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 1.5            | 114.7             | .83                                  | .88                  | 1.1            | Q                 | Q                                    | Q                    | 1.3                     | 74.3              | .81                                  | .73  | 23.6            |
| Under 5,500 HDD and 2,000 CDD or More ..... | Q              | Q                 | Q                                    | Q                    | .2             | 0.3               | (*)                                  | (*)                  | .5                      | 21.9              | .24                                  | .19  | 40.4            |
| Under 4,000 HDD .....                       | NC             | NC                | NC                                   | NC                   | NC             | NC                | NC                                   | NC                   | NC                      | NC                | NC                                   | NC   | NC              |
| <b>Type of Housing Unit</b>                 |                |                   |                                      |                      |                |                   |                                      |                      |                         |                   |                                      |      |                 |
| Single-Family .....                         | 1.4            | 113.1             | .82                                  | .87                  | 1.0            | 3.9               | 0.03                                 | .04                  | 1.4                     | 80.2              | .88                                  | .76  | 23.1            |
| Mobile Home .....                           | Q              | Q                 | Q                                    | Q                    | Q              | Q                 | Q                                    | Q                    | .3                      | 13.6              | .15                                  | .14  | 36.6            |
| Multifamily (2 or more units) ..            | Q              | Q                 | Q                                    | Q                    | Q              | Q                 | Q                                    | Q                    | Q                       | Q                 | Q                                    | Q    | NF              |
| <b>Heated Floorspace (square feet)</b>      |                |                   |                                      |                      |                |                   |                                      |                      |                         |                   |                                      |      |                 |
| Fewer than 1,000 .....                      | .3             | 16.2              | .12                                  | .13                  | .4             | Q                 | Q                                    | Q                    | .5                      | 24.4              | .27                                  | .25  | 31.3            |
| 1,000 to 1,999 .....                        | .6             | 47.3              | .34                                  | .37                  | .5             | 2.8               | .02                                  | .03                  | .7                      | 38.3              | .42                                  | .36  | 26.5            |
| 2,000 or More .....                         | .6             | 56.7              | .41                                  | .42                  | .4             | Q                 | Q                                    | Q                    | .6                      | 33.5              | .37                                  | .30  | 29.5            |
| <b>Ownership of Unit</b>                    |                |                   |                                      |                      |                |                   |                                      |                      |                         |                   |                                      |      |                 |
| Owned .....                                 | 1.4            | 109.6             | .80                                  | .83                  | 1.0            | Q                 | Q                                    | Q                    | 1.5                     | 83.3              | .91                                  | .80  | 21.2            |
| Rented .....                                | .2             | 10.5              | .08                                  | .09                  | .3             | 1.7               | .01                                  | .02                  | .2                      | 12.9              | .14                                  | .12  | 37.9            |
| <b>Year of Construction</b>                 |                |                   |                                      |                      |                |                   |                                      |                      |                         |                   |                                      |      |                 |
| 1949 or Before .....                        | .8             | 60.7              | .44                                  | .48                  | .5             | 2.8               | .02                                  | .03                  | .6                      | 41.0              | .45                                  | .37  | 25.3            |
| 1950 to 1979 .....                          | .7             | 58.3              | .42                                  | .43                  | .6             | Q                 | Q                                    | Q                    | .7                      | 33.9              | .37                                  | .35  | 32.6            |
| 1980 or After <sup>2</sup> .....            | Q              | Q                 | Q                                    | Q                    | Q              | Q                 | Q                                    | Q                    | .4                      | 21.3              | .23                                  | .20  | 35.7            |
| <b>1990 Family Income</b>                   |                |                   |                                      |                      |                |                   |                                      |                      |                         |                   |                                      |      |                 |
| Less than \$10,000 .....                    | .3             | 24.3              | .18                                  | .20                  | Q              | Q                 | Q                                    | Q                    | .4                      | 18.8              | .21                                  | .21  | 45.2            |
| \$10,000 to \$19,999 .....                  | .2             | 18.0              | .13                                  | .14                  | .2             | Q                 | Q                                    | Q                    | .5                      | 26.3              | .29                                  | .26  | 29.5            |
| \$20,000 to \$34,999 .....                  | .5             | 40.5              | .29                                  | .31                  | .6             | Q                 | Q                                    | Q                    | .4                      | 23.6              | .26                                  | .21  | 34.7            |
| \$35,000 or More .....                      | .5             | 37.5              | .27                                  | .28                  | .3             | .8                | .01                                  | .01                  | .4                      | 27.5              | .30                                  | .24  | 29.2            |
| <b>Below Poverty Line</b>                   |                |                   |                                      |                      |                |                   |                                      |                      |                         |                   |                                      |      |                 |
| 100 Percent .....                           | .3             | 20.9              | .15                                  | .17                  | Q              | Q                 | Q                                    | Q                    | .3                      | 14.2              | .16                                  | .15  | 40.1            |
| 125 Percent .....                           | .3             | 23.4              | .17                                  | .19                  | Q              | Q                 | Q                                    | Q                    | .5                      | 26.3              | .29                                  | .29  | 38.4            |
| <b>Age of Householder</b>                   |                |                   |                                      |                      |                |                   |                                      |                      |                         |                   |                                      |      |                 |
| Under 35 Years .....                        | .3             | 23.2              | .17                                  | .19                  | .4             | 1.9               | .01                                  | .02                  | .5                      | 22.4              | .25                                  | .21  | 23.6            |
| 35 to 59 Years .....                        | .8             | 49.6              | .36                                  | .37                  | .7             | Q                 | Q                                    | Q                    | .7                      | 40.0              | .44                                  | .37  | 26.6            |
| 60 Years and Over .....                     | .5             | 47.4              | .34                                  | .36                  | Q              | Q                 | Q                                    | Q                    | .6                      | 33.8              | .37                                  | .34  | 27.0            |
| <b>Household Size</b>                       |                |                   |                                      |                      |                |                   |                                      |                      |                         |                   |                                      |      |                 |
| 1 Person .....                              | .1             | 11.4              | .08                                  | .09                  | Q              | Q                 | Q                                    | Q                    | .2                      | 11.6              | .13                                  | Q    | 47.6            |
| 2 to 4 Persons .....                        | 1.3            | 98.5              | .71                                  | .75                  | 1.0            | 5.6               | .04                                  | .06                  | 1.2                     | 71.1              | .78                                  | .66  | 24.4            |
| 5 or More Persons .....                     | Q              | Q                 | Q                                    | Q                    | Q              | Q                 | Q                                    | Q                    | .3                      | 13.5              | .15                                  | .13  | 31.7            |

See footnotes at end of table.

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SPACE-HEATING CONSUMPTION/EXPENDITURES

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Table 42. Total Fuel Oil, Kerosene, and LPG Consumption and Expenditures for Space Heating in Midwest Region Households, 1990 (Continued)

| Characteristics                        | Fuel Oil             |                |                   |                      | Kerosene                             |                      |                |                   | Liquefied Petroleum Gas |                                      |                |                   | RSE Row Factors |                                      |
|--|----------------------|----------------|-------------------|----------------------|--------------------------------------|----------------------|----------------|-------------------|-------------------------|--------------------------------------|----------------|-------------------|-----------------|--------------------------------------|
|  | Households (million) | Total Consumed |                   | Households (million) | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                   | Households (million)    | Total Expenditures (billion dollars) | Total Consumed |                   |                 | Total Expenditures (billion dollars) |
|  |                      | (trillion Btu) | (billion gallons) |                      |                                      |                      | (trillion Btu) | (billion gallons) |                         |                                      | (trillion Btu) | (billion gallons) |                 |                                      |
|  |                      |                |                   |                      |                                      |                      |                |                   |                         |                                      |                |                   |                 |                                      |
| RSE Column Factors:                    | 0.9                  | NF             | NF                | 1.1                  | 1.1                                  | Q                    | Q              | Q                 | 0.8                     | NF                                   | NF             | NF                | 27.5            |                                      |
| <b>East North Central Division</b>     | 1.2                  | 92.6           | 0.67              | 0.72                 | 1.1                                  | Q                    | Q              | Q                 | 1.2                     | 64.6                                 | 0.71           | 0.64              | 27.5            |                                      |
| <b>Climate Zone<sup>1</sup></b>        |                      |                |                   |                      |                                      |                      |                |                   |                         |                                      |                |                   |                 |                                      |
| Under 2,000 HDD and Over 5,500 HDD     | 1.2                  | 89.8           | .65               | .69                  | 1.1                                  | Q                    | Q              | Q                 | 1.0                     | 55.3                                 | .61            | .57               | 28.9            |                                      |
| Under 5,500 HDD                        | Q                    | Q              | Q                 | Q                    | Q                                    | Q                    | Q              | Q                 | Q                       | Q                                    | Q              | Q                 | NF              |                                      |
| 2,000 HDD or More and Under 4,000 HDD  | NC                   | NC             | NC                | NC                   | NC                                   | NC                   | NC             | NC                | NC                      | NC                                   | NC             | NC                | NC              |                                      |
| <b>Type of Housing Unit</b>            |                      |                |                   |                      |                                      |                      |                |                   |                         |                                      |                |                   |                 |                                      |
| Single-Family                          | 1.2                  | 88.0           | .64               | .68                  | .8                                   | Q                    | Q              | 0.02              | .9                      | 53.4                                 | .58            | .53               | 28.8            |                                      |
| Mobile Home                            | Q                    | Q              | Q                 | Q                    | Q                                    | Q                    | Q              | Q                 | .3                      | 9.6                                  | .11            | .10               | 47.0            |                                      |
| Multifamily (2 or more units)          | Q                    | Q              | Q                 | Q                    | Q                                    | Q                    | Q              | Q                 | Q                       | Q                                    | Q              | Q                 | NF              |                                      |
| <b>Heated Floorspace (square feet)</b> |                      |                |                   |                      |                                      |                      |                |                   |                         |                                      |                |                   |                 |                                      |
| Fewer than 1,000                       | Q                    | Q              | Q                 | Q                    | Q                                    | Q                    | Q              | Q                 | .4                      | 18.7                                 | .20            | .20               | 50.0            |                                      |
| 1,000 to 1,999                         | .5                   | 39.9           | .29               | .32                  | .4                                   | Q                    | .02            | .03               | .4                      | 23.7                                 | .26            | .23               | 33.1            |                                      |
| 2,000 or More                          | .5                   | 40.5           | .29               | .30                  | .3                                   | Q                    | Q              | Q                 | .4                      | 22.2                                 | .24            | .21               | 37.6            |                                      |
| <b>Ownership of Unit</b>               |                      |                |                   |                      |                                      |                      |                |                   |                         |                                      |                |                   |                 |                                      |
| Owned                                  | 1.1                  | 85.6           | .62               | .66                  | .8                                   | Q                    | Q              | Q                 | 1.0                     | 56.7                                 | .62            | .57               | 27.2            |                                      |
| Rented                                 | Q                    | Q              | Q                 | Q                    | .3                                   | 1.6                  | .01            | .02               | .3                      | 17.2                                 | .19            | .20               | 30.6            |                                      |
| <b>Year of Construction</b>            |                      |                |                   |                      |                                      |                      |                |                   |                         |                                      |                |                   |                 |                                      |
| 1949 or Before                         | .6                   | 44.7           | .33               | .36                  | .4                                   | 2.4                  | .02            | .02               | .4                      | 26.4                                 | .29            | .24               | 31.5            |                                      |
| 1950 to 1979                           | .6                   | 46.6           | .34               | .35                  | .5                                   | Q                    | Q              | Q                 | .5                      | 23.5                                 | .26            | .26               | 40.1            |                                      |
| 1980 or After <sup>2</sup>             | Q                    | Q              | Q                 | Q                    | Q                                    | Q                    | Q              | Q                 | .3                      | 14.7                                 | .16            | .14               | 49.7            |                                      |
| <b>1990 Family Income</b>              |                      |                |                   |                      |                                      |                      |                |                   |                         |                                      |                |                   |                 |                                      |
| Less than \$10,000                     | Q                    | 17.0           | .12               | .14                  | Q                                    | Q                    | Q              | Q                 | Q                       | Q                                    | Q              | Q                 | 52.3            |                                      |
| \$10,000 to \$19,999                   | Q                    | Q              | Q                 | Q                    | Q                                    | Q                    | Q              | Q                 | .3                      | 17.4                                 | .19            | .18               | 26.6            |                                      |
| \$20,000 to \$34,999                   | .5                   | 37.9           | .27               | .29                  | .6                                   | Q                    | Q              | Q                 | .3                      | 14.6                                 | .16            | .14               | 42.3            |                                      |
| \$35,000 or More                       | .3                   | 23.1           | .17               | .17                  | Q                                    | Q                    | Q              | Q                 | .3                      | 19.8                                 | .22            | .17               | 38.3            |                                      |
| <b>Below Poverty Line</b>              |                      |                |                   |                      |                                      |                      |                |                   |                         |                                      |                |                   |                 |                                      |
| 100 Percent                            | Q                    | 17.0           | .12               | .14                  | Q                                    | Q                    | Q              | Q                 | .2                      | 10.0                                 | .11            | .11               | 43.7            |                                      |
| 125 Percent                            | .2                   | 17.7           | .13               | .15                  | Q                                    | Q                    | Q              | Q                 | .3                      | 17.2                                 | .19            | .20               | 50.6            |                                      |
| <b>Age of Householder</b>              |                      |                |                   |                      |                                      |                      |                |                   |                         |                                      |                |                   |                 |                                      |
| Under 35 Years                         | .2                   | 17.1           | .13               | .14                  | .4                                   | 1.7                  | .01            | .02               | .3                      | 14.5                                 | .16            | .14               | 24.5            |                                      |
| 35 to 59 Years                         | .6                   | 35.2           | .26               | .27                  | .6                                   | Q                    | Q              | Q                 | .4                      | 27.2                                 | .30            | .26               | 34.9            |                                      |
| 60 Years and Over                      | .4                   | 40.2           | .29               | .31                  | Q                                    | Q                    | Q              | Q                 | .4                      | 22.9                                 | .25            | .25               | 32.1            |                                      |
| <b>Household Size</b>                  |                      |                |                   |                      |                                      |                      |                |                   |                         |                                      |                |                   |                 |                                      |
| 1 Person                               | Q                    | Q              | Q                 | Q                    | Q                                    | Q                    | Q              | Q                 | Q                       | Q                                    | Q              | Q                 | NF              |                                      |
| 2 to 4 Persons                         | 1.0                  | 75.5           | .55               | .58                  | .8                                   | 5.1                  | .04            | .05               | .8                      | 49.1                                 | .54            | .47               | 29.9            |                                      |
| 5 or More Persons                      | Q                    | Q              | Q                 | Q                    | Q                                    | Q                    | Q              | Q                 | Q                       | Q                                    | Q              | Q                 | NF              |                                      |

See footnotes at end of table.

SPACE-HEATING CONSUMPTION/EXPENDITURES

Table 42. Total Fuel Oil, Kerosene, and LPG Consumption and Expenditures for Space Heating in Midwest Region Households, 1990 (Continued)

| Characteristics                        | Fuel Oil             |                |                   | Kerosene             |                |                   | Liquefied Petroleum Gas |                |                   | RSE Row Factors |                   |      |
|--|----------------------|----------------|-------------------|----------------------|----------------|-------------------|-------------------------|----------------|-------------------|-----------------|-------------------|------|
|  | Households (million) | Total Consumed |                   | Households (million) | Total Consumed |                   | Households (million)    | Total Consumed |                   |                 |                   |      |
|  |                      | (trillion Btu) | (billion gallons) |                      | (trillion Btu) | (billion gallons) |                         | (trillion Btu) | (billion gallons) |                 | (billion dollars) |      |
| RSE Column Factors:                    | 0.9                  | NF             | NF                | NF                   | NF             | NF                | NF                      | NF             | NF                |                 |                   |      |
| West North Central Division            | 0.3                  | 27.6           | 0.20              | 0.20                 | 0.2            | 0.6 (*)           | 0.01                    | 0.6            | 31.6              | 0.35            | 0.28              | 28.6 |
| <b>Climate Zone<sup>1</sup></b>        |                      |                |                   |                      |                |                   |                         |                |                   |                 |                   |      |
| Under 2,000 HDD and Over 5,500 HDD     | .3                   | 24.9           | .18               | .19                  | .1             | .3 (*)            | .3 (*)                  | .3             | 19.0              | .21             | .16               | 25.4 |
| Under 5,500 HDD                        | Q                    | Q              | Q                 | Q                    | Q              | Q (*)             | Q (*)                   | .3             | 12.6              | .14             | .11               | 36.9 |
| 2,000 HDD or More and Under 4,000 HDD  | NC                   | NC             | NC                | NC                   | NC             | NC                | NC                      | NC             | NC                | NC              | NC                | NC   |
| <b>Type of Housing Unit</b>            |                      |                |                   |                      |                |                   |                         |                |                   |                 |                   |      |
| Single-Family                          | .3                   | 25.1           | .18               | .19                  | .2             | .6 (*)            | .3 (*)                  | .5             | 26.9              | .29             | .23               | 31.6 |
| Mobile Home                            | NC                   | NC             | NC                | NC                   | Q              | Q                 | Q                       | .1             | 3.9               | .04             | .04               | 36.6 |
| Multifamily (2 or more units)          | Q                    | Q              | Q                 | Q                    | NC             | NC                | NC                      | Q              | Q                 | Q               | Q                 | NF   |
| <b>Heated Floorspace (square feet)</b> |                      |                |                   |                      |                |                   |                         |                |                   |                 |                   |      |
| Fewer than 1,000                       | Q                    | Q              | Q                 | Q                    | Q              | Q                 | Q                       | .1             | 5.7               | .06             | .05               | 21.4 |
| 1,000 to 1,999                         | .1                   | 7.3            | .05               | .05                  | .1             | .3                | .3                      | .3             | 14.6              | .16             | .13               | 35.2 |
| 2,000 or More                          | .2                   | 16.3           | .12               | .12                  | Q              | Q                 | Q                       | .2             | 11.3              | .12             | .10               | 41.6 |
| <b>Ownership of Unit</b>               |                      |                |                   |                      |                |                   |                         |                |                   |                 |                   |      |
| Owned                                  | .3                   | 24.0           | .17               | .18                  | .2             | .6 (*)            | .3 (*)                  | .5             | 26.5              | .29             | .23               | 26.7 |
| Rented                                 | Q                    | Q              | Q                 | Q                    | Q              | Q                 | Q                       | Q              | Q                 | Q               | Q                 | NF   |
| <b>Year of Construction</b>            |                      |                |                   |                      |                |                   |                         |                |                   |                 |                   |      |
| 1949 or Before                         | .2                   | 16.0           | .12               | .12                  | Q              | Q                 | Q                       | .2             | 14.6              | .16             | .12               | 30.7 |
| 1950 to 1979                           | .2                   | 11.6           | .08               | .08                  | Q              | Q                 | Q                       | .2             | 10.4              | .11             | .10               | 49.7 |
| 1980 or After <sup>2</sup>             | NC                   | NC             | NC                | NC                   | NC             | NC                | NC                      | .1             | 6.6               | .07             | .06               | 29.3 |
| <b>1990 Family Income</b>              |                      |                |                   |                      |                |                   |                         |                |                   |                 |                   |      |
| Less than \$10,000                     | Q                    | Q              | Q                 | Q                    | Q              | Q                 | Q                       | .1             | 6.0               | .07             | .05               | 35.0 |
| \$10,000 to \$19,999                   | Q                    | Q              | Q                 | Q                    | Q              | Q                 | Q                       | .2             | 8.9               | .10             | .08               | 42.6 |
| \$20,000 to \$34,999                   | Q                    | Q              | Q                 | Q                    | Q              | Q                 | Q                       | .2             | 9.0               | .10             | .07               | 26.2 |
| \$35,000 or More                       | .1                   | 14.3           | .10               | .11                  | Q              | Q                 | Q                       | .1             | 7.7               | .08             | .07               | 34.8 |
| <b>Below Poverty Line</b>              |                      |                |                   |                      |                |                   |                         |                |                   |                 |                   |      |
| 100 Percent                            | Q                    | Q              | Q                 | Q                    | Q              | Q                 | Q                       | Q              | Q                 | Q               | Q                 | NF   |
| 125 Percent                            | Q                    | Q              | Q                 | Q                    | Q              | Q                 | Q                       | .2             | 9.0               | .10             | .08               | 45.6 |
| <b>Age of Householder</b>              |                      |                |                   |                      |                |                   |                         |                |                   |                 |                   |      |
| Under 35 Years                         | Q                    | Q              | Q                 | Q                    | Q              | Q                 | Q                       | .2             | 7.9               | .09             | .07               | 45.5 |
| 35 to 59 Years                         | .2                   | 14.4           | .10               | .11                  | Q              | Q                 | Q (*)                   | .2             | 12.8              | .14             | .11               | 28.3 |
| 60 Years and Over                      | .1                   | 7.1            | .05               | .05                  | Q              | Q                 | Q                       | .2             | 10.9              | .12             | .10               | 28.4 |
| <b>Household Size</b>                  |                      |                |                   |                      |                |                   |                         |                |                   |                 |                   |      |
| 1 Person                               | Q                    | Q              | Q                 | Q                    | Q              | Q                 | Q                       | .1             | 5.2               | .06             | .05               | 54.9 |
| 2 to 4 Persons                         | .3                   | 23.1           | .17               | .17                  | .2             | .5 (*)            | .5 (*)                  | .4             | 22.0              | .24             | .19               | 27.9 |
| 5 or More Persons                      | Q                    | Q              | Q                 | Q                    | Q              | Q                 | Q                       | .1             | 4.5               | .05             | .04               | 51.0 |

1 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

2 Does not include all new construction for 1990.

NC = No cases in sample.

(\*) = Data withheld due to rounding.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).



SPACE-HEATING CONSUMPTION/EXPENDITURES

MIDWEST

Table 43. Electricity Consumption and Expenditures for Main Space Heating, per Midwest Region Household, 1990

| Characteristics                                 | Households (million) | Consumption   |       | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Electricity Space-Heating Intensity     |  | RSE Row Factors |
|---|----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|---|--|-----------------|
|   |                      | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/HDD* 1000 square feet) | Expenditures (cents/HDD* 1000 square feet) |                 |
|   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| RSE Column Factors:                             |                      |               |       |                        |                                 |                            |                              |   |  |                 |
|   | 2.6                  | NF            | NF    | NF                     | 0.8                             | 0.5                        | 0.4                          | NF                                      | NF   | NF              |
| Midwest Region                                  |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| <b>Total Region</b> .....                       | 2.6                  | 19.0          | 5,580 | 372                    | 1,314                           | 5,379                      | 6,216                        | 0.79                                    | 5.3  | 8.9             |
| <b>Climate Zone<sup>1</sup></b>                 |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 2,000 HDD and Over 5,500 HDD .....        | 2.2                  | 18.8          | 5,505 | 365                    | 1,274                           | 5,601                      | 6,468                        | .77                                     | 5.1  | 11.0            |
| Under 5,500 HDD .....                           | .5                   | 20.3          | 5,945 | 410                    | 1,507                           | 4,308                      | 4,998                        | .92                                     | 6.3  | 8.3             |
| 2,000 HDD or More and Under 4,000 HDD .....     | NC                   | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                      | NC   | NC              |
| <b>Type of Housing Unit</b>                     |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Single-Family .....                             | 1.2                  | 27.1          | 7,938 | 489                    | 1,822                           | 5,399                      | 6,149                        | .81                                     | 5.0  | 7.5             |
| Mobile Home .....                               | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| Multifamily (2 or more units) ..                | 1.3                  | 10.4          | 3,044 | 232                    | 860                             | 5,440                      | 6,356                        | .65                                     | 5.0  | 12.4            |
| <b>Heated Floorspace (square feet)</b>          |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Fewer than 1,000 .....                          | 1.2                  | 13.0          | 3,824 | 290                    | 775                             | 5,266                      | 6,176                        | .94                                     | 7.1  | 10.1            |
| 1,000 to 1,999 .....                            | 1.0                  | 21.6          | 6,334 | 398                    | 1,402                           | 5,528                      | 6,318                        | .82                                     | 5.1  | 12.7            |
| 2,000 or More .....                             | .5                   | 29.1          | 8,533 | 532                    | 2,530                           | 5,352                      | 6,100                        | .63                                     | 3.9  | 11.0            |
| <b>Ownership of Unit</b>                        |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Owned .....                                     | 1.8                  | 22.8          | 6,676 | 431                    | 1,548                           | 5,509                      | 6,303                        | .78                                     | 5.1  | 10.8            |
| Rented .....                                    | .8                   | 10.5          | 3,084 | 238                    | 782                             | 5,084                      | 6,018                        | .78                                     | 6.0  | 11.0            |
| <b>Year of Construction</b>                     |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 1949 or Before .....                            | .2                   | 30.6          | 8,961 | 567                    | 1,449                           | 5,805                      | 6,565                        | 1.07                                    | 6.7  | 16.1            |
| 1950 to 1979 .....                              | 1.9                  | 18.0          | 5,270 | 355                    | 1,278                           | 5,357                      | 6,229                        | .77                                     | 5.2  | 11.4            |
| 1980 or After <sup>2</sup> .....                | .5                   | 17.4          | 5,096 | 341                    | 1,385                           | 5,255                      | 5,996                        | .70                                     | 4.7  | 12.1            |
| <b>1990 Family Income</b>                       |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Less than \$10,000 .....                        | .3                   | 17.0          | 4,981 | 331                    | 768                             | 5,409                      | 6,215                        | 1.20                                    | 8.0  | 18.9            |
| \$10,000 to \$19,999 .....                      | .5                   | 16.9          | 4,961 | 347                    | 1,051                           | 5,426                      | 6,268                        | .87                                     | 6.1  | 13.3            |
| \$20,000 to \$34,999 .....                      | .9                   | 18.8          | 5,522 | 376                    | 1,376                           | 5,227                      | 6,081                        | .77                                     | 5.2  | 10.8            |
| \$35,000 or More .....                          | 1.0                  | 21.0          | 6,168 | 397                    | 1,585                           | 5,482                      | 6,311                        | .71                                     | 4.6  | 12.4            |
| <b>Below Poverty Line</b>                       |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 100 Percent .....                               | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| 125 Percent .....                               | .3                   | 15.3          | 4,480 | 297                    | 783                             | 5,338                      | 6,138                        | 1.07                                    | 7.1  | 22.1            |
| <b>Age of Householder</b>                       |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 35 Years .....                            | .9                   | 15.4          | 4,517 | 291                    | 1,119                           | 5,210                      | 6,108                        | .77                                     | 5.0  | 11.4            |
| 35 to 59 Years .....                            | .9                   | 23.0          | 6,738 | 458                    | 1,468                           | 5,372                      | 6,179                        | .85                                     | 5.8  | 8.6             |
| 60 Years and Over .....                         | .8                   | 18.4          | 5,400 | 362                    | 1,351                           | 5,578                      | 6,381                        | .72                                     | 4.8  | 15.8            |
| <b>Household Size</b>                           |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 1 Person .....                                  | 1.1                  | 10.9          | 3,201 | 244                    | 831                             | 5,365                      | 6,272                        | .72                                     | 5.5  | 14.1            |
| 2 to 4 Persons .....                            | 1.4                  | 24.5          | 7,178 | 476                    | 1,622                           | 5,450                      | 6,221                        | .81                                     | 5.4  | 7.5             |
| 5 or More Persons .....                         | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| <b>Main Heating Equipment Using Electricity</b> |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Central Warm-Air .....                          | .8                   | 19.2          | 5,631 | 363                    | 1,372                           | 5,429                      | 6,252                        | .76                                     | 5.1  | 24.8            |
| Furnace .....                                   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Built-In Electric .....                         |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Units .....                                     | 1.5                  | 18.9          | 5,541 | 369                    | 1,126                           | 5,497                      | 6,368                        | .89                                     | 6.0  | 9.1             |
| Heat Pump .....                                 | .3                   | 19.3          | 5,649 | 366                    | 2,022                           | 4,660                      | 5,371                        | .60                                     | 3.9  | 8.1             |
| Other .....                                     | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |

See footnotes at end of table.

**SPACE-HEATING CONSUMPTION/EXPENDITURES**

**Table 43. Electricity Consumption and Expenditures for Main Space Heating, per Midwest Region Household, 1990 (Continued)**

| Characteristics   | House-holds (million) | Consumption   |       | Expenditures (dollars) | Heated Floor-space (square feet) | Annual Heating Degree-Days |                              | Consumption (kWh/HDD* 1000 square feet) | Electricity Space-Heating Intensity |                               | RSE Row Factors |
|---|-----------------------|---------------|-------|------------------------|----------------------------------|----------------------------|------------------------------|---|-------------------------------------|-------------------------------|-----------------|
|   |                       | (million Btu) | (kWh) |                        |                                  | 1990                       | 30-Year Average <sup>1</sup> |   | (kWh/HDD* 1000 square feet)         | (cents/HDD* 1000 square feet) |                 |
| RSE Column Factors:   | 2.6                   | NF            | NF    | NF                     | 0.8                              | 0.5                        | 0.4                          | NF                                      | NF                                  | NF                            |                 |
| <b>Midwest Region</b>   |                       |               |       |                        |                                  |                            |                              |   |                                     |                               |                 |
| <b>Age of Main Heating Equipment</b>  |                       |               |       |                        |                                  |                            |                              |   |                                     |                               |                 |
| Less than 5 Years .....   | 0.3                   | 23.4          | 6,852 | 435                    | 1,544                            | 5,246                      | 6,042                        | 0.85                                    | 5.4                                 | 14.8                          |                 |
| 5 to 9 Years .....  | 5                     | 24.2          | 7,096 | 438                    | 1,607                            | 5,305                      | 6,083                        | .83                                     | 5.1                                 | 12.5                          |                 |
| 10 to 19 Years .....  | 1.1                   | 17.4          | 5,110 | 352                    | 1,348                            | 5,550                      | 6,395                        | .68                                     | 4.7                                 | 14.7                          |                 |
| 20 Years or More .....  | .4                    | 18.1          | 5,294 | 358                    | 1,046                            | 4,934                      | 5,798                        | 1.03                                    | 6.9                                 | 14.9                          |                 |
| Don't Know .....  | .3                    | 13.7          | 4,026 | 301                    | 891                              | 5,583                      | 6,485                        | .82                                     | 6.1                                 | 15.3                          |                 |
| <b>Secondary Heating Fuel (more than one may apply)</b>                     |                       |               |       |                        |                                  |                            |                              |   |                                     |                               |                 |
| No .....  | 1.7                   | 16.1          | 4,725 | 311                    | 1,123                            | 5,528                      | 6,406                        | .76                                     | 5.0                                 | 12.1                          |                 |
| Yes .....   | .9                    | 24.3          | 7,115 | 482                    | 1,656                            | 5,113                      | 5,876                        | .84                                     | 5.7                                 | 7.4                           |                 |
| Wood .....  | .5                    | 24.8          | 7,259 | 484                    | 2,072                            | 5,086                      | 5,787                        | .69                                     | 4.6                                 | 8.5                           |                 |
| Electricity .....   | Q                     | Q             | Q     | Q                      | Q                                | Q                          | Q                            | Q                                       | Q                                   | NF                            |                 |
| Natural Gas .....   | NC                    | NC            | NC    | NC                     | NC                               | NC                         | NC                           | NC                                      | NC                                  | NC                            |                 |
| Kerosene .....  | Q                     | 23.1          | 6,779 | 482                    | 1,474                            | 5,174                      | 6,046                        | .89                                     | 6.3                                 | 21.0                          |                 |
| Other .....   | Q                     | Q             | Q     | Q                      | Q                                | Q                          | Q                            | Q                                       | Q                                   | NF                            |                 |
| <b>Average Electricity Expenditures for Main Space Heat (cents per kWh)</b> |                       |               |       |                        |                                  |                            |                              |   |                                     |                               |                 |
| Less than 6 .....   | Q                     | 26.8          | 7,852 | 357                    | 1,809                            | 5,404                      | 6,164                        | .80                                     | 3.6                                 | 10.9                          |                 |
| 6 to Less than 9 .....  | 1.9                   | 19.8          | 5,793 | 396                    | 1,329                            | 5,397                      | 6,215                        | .81                                     | 5.5                                 | 9.4                           |                 |
| 9 or More .....   | Q                     | 9.4           | 2,744 | 277                    | 838                              | 5,277                      | 6,264                        | .62                                     | 6.3                                 | 22.9                          |                 |
| <b>Winter Temperature Inside Housing Unit</b>                               |                       |               |       |                        |                                  |                            |                              |   |                                     |                               |                 |
| Prefer .....  |                       |               |       |                        |                                  |                            |                              |   |                                     |                               |                 |
| Usual Temperature .....   | 2.2                   | 18.3          | 5,382 | 356                    | 1,263                            | 5,346                      | 6,178                        | .79                                     | 5.3                                 | 8.4                           |                 |
| Warmer Temperature .....  | .4                    | 22.9          | 6,717 | 467                    | 1,534                            | 5,462                      | 6,325                        | .80                                     | 5.6                                 | 17.3                          |                 |
| Cooler Temperature .....  | Q                     | Q             | Q     | Q                      | Q                                | Q                          | Q                            | Q                                       | Q                                   | NF                            |                 |
| <b>Adequacy of Insulation</b>   |                       |               |       |                        |                                  |                            |                              |   |                                     |                               |                 |
| Well Insulated .....  | 1.5                   | 17.8          | 5,223 | 345                    | 1,394                            | 5,373                      | 6,207                        | .73                                     | 4.8                                 | 11.5                          |                 |
| Adequately Insulated .....  | .7                    | 23.0          | 6,722 | 429                    | 1,515                            | 5,666                      | 6,476                        | .78                                     | 5.0                                 | 10.2                          |                 |
| Poorly Insulated .....  | .4                    | 17.7          | 5,201 | 394                    | 949                              | 4,923                      | 5,829                        | 1.11                                    | 8.4                                 | 13.6                          |                 |
| Don't Know .....  | Q                     | Q             | Q     | Q                      | Q                                | Q                          | Q                            | Q                                       | Q                                   | NF                            |                 |

See footnotes at end of table.

SPACE-HEATING CONSUMPTION/EXPENDITURES

MIDWEST

Table 43. Electricity Consumption and Expenditures for Main Space Heating, per Midwest Region Household, 1990 (Continued)

| Characteristics                        | Households (million) |               | Consumption |      | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days   |   | Electricity Space-Heating Intensity        |      | RSE Row Factors |
|--|----------------------|---------------|-------------|------|------------------------|---------------------------------|------------------------------|---|--|------|-----------------|
|  | Households (million) | (million Btu) | (kWh)       | 1990 |                        |                                 | 30-Year Average <sup>1</sup> | Consumption (kWh/HDD* 1000 square feet) | Expenditures (cents/HDD* 1000 square feet) |      |                 |
|  |                      |               |             |      |                        |                                 |                              |   |  |      |                 |
| RSE Column Factors:                    | 2.6                  | NF            | NF          |      | NF                     | 0.8                             | 0.5                          | 0.4                                     | NF   | NF   |                 |
| <b>East North Central Division</b> ... | 2.1                  | 18.4          | 5,399       | 364  | 1,273                  | 5,484                           | 6,356                        | 0.77                                    | 5.2  | 11.6 |                 |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |             |      |                        |                                 |                              |   |  |      |                 |
| Under 2,000 CDD and Over 5,500 HDD     | 2.0                  | 18.2          | 5,324       | 355  | 1,270                  | 5,500                           | 6,373                        | .76                                     | 5.1  | 11.7 | NF              |
| Under 5,500 HDD                        | Q                    | Q             | Q           | Q    | Q                      | Q                               | Q                            | Q                                       | Q  | Q    |                 |
| 2,000 CDD or More and Under 4,000 HDD  | NC                   | NC            | NC          | NC   | NC                     | NC                              | NC                           | NC                                      | NC   | NC   | NC              |
| <b>Type of Housing Unit</b>            |                      |               |             |      |                        |                                 |                              |   |  |      |                 |
| Single-Family                          | .8                   | 28.3          | 8,282       | 502  | 1,856                  | 5,494                           | 6,284                        | .81                                     | 4.9  | 11.1 | NF              |
| Mobile Home                            | Q                    | Q             | Q           | Q    | Q                      | Q                               | Q                            | Q                                       | Q  | Q    |                 |
| Multifamily (2 or more units)          | 1.1                  | 10.4          | 3,052       | 236  | 875                    | 5,540                           | 6,461                        | .63                                     | 4.9  | 13.8 |                 |
| <b>Heated Floorspace (square feet)</b> |                      |               |             |      |                        |                                 |                              |   |  |      |                 |
| Fewer than 1,000                       | 1.0                  | 13.0          | 3,817       | 296  | 785                    | 5,381                           | 6,319                        | .90                                     | 7.0  | 12.2 |                 |
| 1,000 to 1,999                         | .8                   | 20.7          | 6,063       | 382  | 1,387                  | 5,552                           | 6,365                        | .79                                     | 5.0  | 18.1 |                 |
| 2,000 or More                          | .3                   | 29.5          | 8,649       | 528  | 2,486                  | 5,643                           | 6,448                        | .62                                     | 3.8  | 17.0 |                 |
| <b>Ownership of Unit</b>               |                      |               |             |      |                        |                                 |                              |   |  |      |                 |
| Owned                                  | 1.4                  | 22.6          | 6,609       | 429  | 1,511                  | 5,633                           | 6,465                        | .78                                     | 5.0  | 14.0 |                 |
| Rented                                 | .7                   | 9.3           | 2,726       | 220  | 747                    | 5,156                           | 6,115                        | .71                                     | 5.7  | 12.6 |                 |
| <b>Year of Construction</b>            |                      |               |             |      |                        |                                 |                              |   |  |      |                 |
| 1949 or Before                         | Q                    | Q             | Q           | Q    | Q                      | Q                               | Q                            | Q                                       | Q  | Q    | NF              |
| 1950 to 1979                           | 1.5                  | 16.8          | 4,913       | 335  | 1,244                  | 5,394                           | 6,297                        | .73                                     | 5.0  | 14.1 |                 |
| 1980 or After <sup>2</sup>             | .4                   | 18.5          | 5,433       | 367  | 1,360                  | 5,501                           | 6,267                        | .73                                     | 4.9  | 18.9 |                 |
| <b>1990 Family Income</b>              |                      |               |             |      |                        |                                 |                              |   |  |      |                 |
| Less than \$10,000                     | Q                    | Q             | Q           | Q    | Q                      | Q                               | Q                            | Q                                       | Q  | Q    | NF              |
| \$10,000 to \$19,999                   | .4                   | Q             | Q           | 317  | 966                    | 5,361                           | 6,239                        | .83                                     | 6.1  | 18.3 |                 |
| \$20,000 to \$34,999                   | .7                   | 18.8          | 5,499       | 383  | 1,317                  | 5,343                           | 6,249                        | .78                                     | 5.4  | 14.4 |                 |
| \$35,000 or More                       | .8                   | 20.4          | 5,985       | 381  | 1,548                  | 5,591                           | 6,451                        | .69                                     | 4.4  | 15.0 |                 |
| <b>Below Poverty Line</b>              |                      |               |             |      |                        |                                 |                              |   |  |      |                 |
| 100 Percent                            | Q                    | Q             | Q           | Q    | Q                      | Q                               | Q                            | Q                                       | Q  | Q    | NF              |
| 125 Percent                            | Q                    | Q             | Q           | Q    | Q                      | Q                               | Q                            | Q                                       | Q  | Q    | NF              |
| <b>Age of Householder</b>              |                      |               |             |      |                        |                                 |                              |   |  |      |                 |
| Under 35 Years                         | .8                   | 14.5          | 4,239       | 271  | 1,087                  | 5,140                           | 6,076                        | .76                                     | 4.8  | 13.8 |                 |
| 35 to 59 Years                         | .8                   | 23.5          | 6,889       | 473  | 1,501                  | 5,456                           | 6,284                        | .84                                     | 5.8  | 11.1 |                 |
| 60 Years and Over                      | Q                    | 16.9          | 4,966       | 343  | 1,216                  | 5,974                           | 6,818                        | .68                                     | 4.7  | 21.3 |                 |
| <b>Household Size</b>                  |                      |               |             |      |                        |                                 |                              |   |  |      |                 |
| 1 Person                               | .9                   | 10.1          | 2,975       | 234  | 822                    | 5,425                           | 6,350                        | .67                                     | 5.2  | 16.5 |                 |
| 2 to 4 Persons                         | 1.0                  | 24.5          | 7,187       | 483  | 1,576                  | 5,631                           | 6,444                        | .81                                     | 5.4  | 10.0 |                 |
| 5 or More Persons                      | Q                    | Q             | Q           | Q    | Q                      | Q                               | Q                            | Q                                       | Q  | Q    | NF              |

See footnotes at end of table

SPACE-HEATING CONSUMPTION/EXPENDITURES

Table 43. Electricity Consumption and Expenditures for Main Space Heating, per Midwest Region Household, 1990 (Continued)

| Characteristics                         | Consumption           |               |       | Expenditures (dollars) | Heated Floor-space (square feet) | Annual Heating Degree-Days |                              | Electricity Space-Heating Intensity     |  | RSE Row Factor's |
|---|-----------------------|---------------|-------|------------------------|----------------------------------|----------------------------|------------------------------|---|--|------------------|
|   | House-holds (million) | (million Btu) | (kWh) |                        |                                  | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/HDD* 1000 square feet) | Expenditures (cents/HDD* 1000 square feet) |                  |
| RSE Column Factors:                     | 2.6                   | NF            | NF    | NF                     | 0.8                              | 0.5                        | 0.4                          | NF                                      | NF   |                  |
| <b>West North Central Division</b>      | 0.6                   | 21.4          | 6,264 | 405                    | 1,469                            | 4,983                      | 5,689                        | 0.86                                    | 5.5  | 9.0              |
| <b>Climate Zone<sup>1</sup></b>         |                       |               |       |                        |                                  |                            |                              |   |  |                  |
| Under 2,000 HDD and                     |                       |               |       |                        |                                  |                            |                              |   |  |                  |
| Over 5,500 HDD                          | .1                    | 27.9          | 8,181 | 503                    | 1,337                            | 7,085                      | 7,870                        | .86                                     | 5.3  | 18.2             |
| Under 5,500 HDD                         | .4                    | 19.2          | 5,625 | 372                    | 1,513                            | 4,283                      | 4,963                        | .87                                     | 5.7  | 7.6              |
| 2,000 CDD or More and                   |                       |               |       |                        |                                  |                            |                              |   |  |                  |
| Under 4,000 HDD                         | NC                    | NC            | NC    | NC                     | NC                               | NC                         | NC                           | NC                                      | NC   | NC               |
| <b>Type of Housing Unit</b>             |                       |               |       |                        |                                  |                            |                              |   |  |                  |
| Single-Family                           | .4                    | 24.6          | 7,199 | 462                    | 1,750                            | 5,194                      | 5,959                        | .79                                     | 5.1  | 10.8             |
| Mobile Home                             | Q                     | Q             | Q     | Q                      | Q                                | Q                          | Q                            | Q                                       | Q  | NF               |
| Multifamily (2 or more units)           | .1                    | 10.1          | 2,969 | 198                    | 712                              | 4,482                      | 5,344                        | .93                                     | 6.2  | 20.2             |
| <b>Heated Floor-space (square feet)</b> |                       |               |       |                        |                                  |                            |                              |   |  |                  |
| Fewer than 1,000                        | .2                    | 13.2          | 3,860 | 260                    | 723                              | 4,685                      | 5,453                        | 1.14                                    | 7.7  | 12.2             |
| 1,000 to 1,999                          | .2                    | 24.7          | 7,226 | 451                    | 1,455                            | 5,451                      | 6,162                        | .91                                     | 5.7  | 12.2             |
| 2,000 or More                           | .1                    | 28.1          | 8,235 | 544                    | 2,646                            | 4,599                      | 5,201                        | .68                                     | 4.5  | 10.4             |
| <b>Ownership of Unit</b>                |                       |               |       |                        |                                  |                            |                              |   |  |                  |
| Owned                                   | .4                    | 23.6          | 6,916 | 439                    | 1,679                            | 5,062                      | 5,719                        | .81                                     | 5.2  | 9.7              |
| Rented                                  | .2                    | 15.6          | 4,582 | 315                    | 928                              | 4,781                      | 5,612                        | 1.03                                    | 7.1  | 15.2             |
| <b>Year of Construction</b>             |                       |               |       |                        |                                  |                            |                              |   |  |                  |
| 1949 or Before                          | Q                     | Q             | Q     | Q                      | Q                                | Q                          | Q                            | Q                                       | Q  | NF               |
| 1950 to 1979                            | .4                    | 23.1          | 6,763 | 442                    | 1,420                            | 5,203                      | 5,943                        | .92                                     | 6.0  | 11.9             |
| 1980 or After <sup>2</sup>              | .1                    | 14.2          | 4,162 | 270                    | 1,455                            | 4,573                      | 5,245                        | .63                                     | 4.1  | 9.4              |
| <b>1990 Family Income</b>               |                       |               |       |                        |                                  |                            |                              |   |  |                  |
| Less than \$10,000                      | Q                     | Q             | Q     | Q                      | Q                                | Q                          | Q                            | Q                                       | Q  | NF               |
| \$10,000 to \$19,999                    | .1                    | 23.9          | 7,013 | 439                    | 1,304                            | 5,620                      | 6,356                        | .96                                     | 6.0  | 18.6             |
| \$20,000 to \$34,999                    | .2                    | 19.1          | 5,612 | 350                    | 1,597                            | 4,792                      | 5,450                        | .73                                     | 4.8  | 9.7              |
| \$35,000 or More                        | .2                    | 23.7          | 6,953 | 467                    | 1,745                            | 5,011                      | 5,712                        | .80                                     | 5.3  | 11.9             |
| <b>Below Poverty Line</b>               |                       |               |       |                        |                                  |                            |                              |   |  |                  |
| 100 Percent                             | Q                     | Q             | Q     | Q                      | Q                                | Q                          | Q                            | Q                                       | Q  | NF               |
| 125 Percent                             | Q                     | Q             | Q     | Q                      | Q                                | Q                          | Q                            | Q                                       | Q  | NF               |
| <b>Age of Householder</b>               |                       |               |       |                        |                                  |                            |                              |   |  |                  |
| Under 35 Years                          | .1                    | 20.5          | 6,019 | 401                    | 1,287                            | 5,589                      | 6,282                        | .84                                     | 5.6  | 17.6             |
| 35 to 59 Years                          | .2                    | 21.0          | 6,142 | 401                    | 1,335                            | 5,039                      | 5,764                        | .91                                     | 6.0  | 12.2             |
| 60 Years and Over                       | .2                    | 22.2          | 6,520 | 410                    | 1,698                            | 4,556                      | 5,254                        | .84                                     | 5.3  | 17.8             |
| <b>Household Size</b>                   |                       |               |       |                        |                                  |                            |                              |   |  |                  |
| 1 Person                                | .2                    | 14.9          | 4,380 | 286                    | 879                              | 5,052                      | 5,866                        | .99                                     | 6.7  | 20.6             |
| 2 to 4 Persons                          | .4                    | 24.4          | 7,153 | 456                    | 1,748                            | 4,951                      | 5,606                        | .83                                     | 5.3  | 10.7             |
| 5 or More Persons                       | NC                    | NC            | NC    | NC                     | NC                               | NC                         | NC                           | NC                                      | NC   | NC               |

1 The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

2 Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**SPACE-HEATING CONSUMPTION/EXPENDITURES**

**MIDWEST**

**Table 44. Natural Gas Consumption and Expenditures for Main Space Heating, per Midwest Region Household, 1990**

| Characteristics                                 | Households (million) | Consumption   |                   | Heated Floorspace (square feet) | Annual Heating Degree-Days | Natural Gas Space-Heating Intensity |   | RSE Row Factors |   |      |
|---|----------------------|---------------|-------------------|---------------------------------|----------------------------|-------------------------------------|---|-----------------|---|------|
|   |                      | (million Btu) | (1000 cubic feet) |                                 |                            | Expenditures (dollars)              | Consumption (cubic feet/HDD*1000 square feet) |                 | Expenditures (cents/HDD*1000 square feet) |      |
|   |                      |               |                   |                                 |                            |                                     |   |                 |   | NF   |
| <b>RSE Column Factors:</b>                      |                      |               |                   |                                 |                            |                                     |   |                 |   |      |
|   | 2.4                  | NF            | NF                | 1.1                             | 0.4                        | 0.4                                 | NF  | NF              |   |      |
| <b>Midwest Region</b>                           |                      |               |                   |                                 |                            |                                     |   |                 |   |      |
| <b>Total Region</b> .....                       | 16.5                 | 86.2          | 84.6              | 423                             | 1,818                      | 5,670                               | 6,482   | 8.2             | 4.1                                       | 2.1  |
| <b>Climate Zone<sup>1</sup></b>                 |                      |               |                   |                                 |                            |                                     |   |                 |   |      |
| Under 2,000 CDD and Over 5,500 HDD .....        | 14.2                 | 87.3          | 85.7              | 428                             | 1,807                      | 5,849                               | 6,679   | 8.1             | 4.1                                       | 2.5  |
| Under 5,500 HDD .....                           | 2.3                  | 79.1          | 77.9              | 391                             | 1,887                      | 4,541                               | 5,248   | 9.1             | 4.6                                       | 5.5  |
| 2,000 CDD or More and Under 4,000 HDD .....     | NC                   | NC            | NC                | NC                              | NC                         | NC                                  | NC  | NC              | NC  | NC   |
| <b>Type of Housing Unit</b>                     |                      |               |                   |                                 |                            |                                     |   |                 |   |      |
| Single-Family .....                             | 11.5                 | 95.9          | 94.3              | 467                             | 2,161                      | 5,653                               | 6,444   | 7.7             | 3.8                                       | 2.4  |
| Mobile Home .....                               | 1.0                  | 66.8          | 65.7              | 360                             | 993                        | 5,867                               | 6,683   | 11.3            | 6.2                                       | 7.9  |
| Multifamily (2 or more units) ..                | 4.1                  | 63.3          | 61.8              | 316                             | 1,048                      | 5,670                               | 6,544   | 10.4            | 5.3                                       | 4.5  |
| <b>Heated Floorspace (square feet)</b>          |                      |               |                   |                                 |                            |                                     |   |                 |   |      |
| Fewer than 1,000 .....                          | 4.4                  | 54.7          | 53.6              | 277                             | 752                        | 5,643                               | 6,464   | 12.6            | 6.5                                       | 3.5  |
| 1,000 to 1,999 .....                            | 6.3                  | 86.2          | 84.8              | 429                             | 1,495                      | 5,664                               | 6,468   | 10.0            | 5.1                                       | 2.7  |
| 2,000 or More .....                             | 5.8                  | 110.1         | 108.1             | 529                             | 2,984                      | 5,697                               | 6,513   | 6.4             | 3.1                                       | 2.6  |
| <b>Ownership of Unit</b>                        |                      |               |                   |                                 |                            |                                     |   |                 |   |      |
| Owned .....                                     | 11.1                 | 95.7          | 94.1              | 469                             | 2,120                      | 5,694                               | 6,497   | 7.8             | 3.9                                       | 2.5  |
| Rented .....                                    | 5.4                  | 66.7          | 65.4              | 330                             | 1,204                      | 5,621                               | 6,453   | 9.7             | 4.9                                       | 3.4  |
| <b>Year of Construction</b>                     |                      |               |                   |                                 |                            |                                     |   |                 |   |      |
| 1949 or Before .....                            | 7.0                  | 100.8         | 99.0              | 496                             | 1,788                      | 5,601                               | 6,408   | 9.9             | 5.0                                       | 3.4  |
| 1950 to 1979 .....                              | 7.7                  | 75.1          | 73.7              | 370                             | 1,735                      | 5,701                               | 6,523   | 7.5             | 3.7                                       | 2.9  |
| 1980 or After <sup>2</sup> .....                | 1.8                  | 76.2          | 74.8              | 367                             | 2,299                      | 5,807                               | 6,601   | 5.6             | 2.7                                       | 6.4  |
| <b>1990 Family Income</b>                       |                      |               |                   |                                 |                            |                                     |   |                 |   |      |
| Less than \$10,000 .....                        | 2.7                  | 90.6          | 88.8              | 449                             | 1,441                      | 5,700                               | 6,478   | 10.8            | 5.5                                       | 5.5  |
| \$10,000 to \$19,999 .....                      | 3.7                  | 77.4          | 76.1              | 386                             | 1,413                      | 5,613                               | 6,419   | 9.6             | 4.9                                       | 3.0  |
| \$20,000 to \$34,999 .....                      | 4.4                  | 80.6          | 79.3              | 399                             | 1,771                      | 5,744                               | 6,550   | 7.8             | 3.9                                       | 3.4  |
| \$35,000 or More .....                          | 5.7                  | 93.9          | 92.2              | 454                             | 2,291                      | 5,635                               | 6,474   | 7.1             | 3.5                                       | 3.0  |
| <b>Below Poverty Line</b>                       |                      |               |                   |                                 |                            |                                     |   |                 |   |      |
| 100 Percent .....                               | 1.7                  | 89.9          | 87.9              | 449                             | 1,409                      | 5,740                               | 6,529   | 10.9            | 5.6                                       | 5.5  |
| 125 Percent .....                               | 2.6                  | 85.3          | 83.5              | 425                             | 1,366                      | 5,699                               | 6,472   | 10.7            | 5.5                                       | 4.2  |
| <b>Age of Householder</b>                       |                      |               |                   |                                 |                            |                                     |   |                 |   |      |
| Under 35 Years .....                            | 4.9                  | 76.2          | 74.8              | 379                             | 1,567                      | 5,647                               | 6,465   | 8.5             | 4.3                                       | 4.2  |
| 35 to 59 Years .....                            | 6.6                  | 89.1          | 87.5              | 433                             | 2,051                      | 5,636                               | 6,463   | 7.6             | 3.7                                       | 2.6  |
| 60 Years and Over .....                         | 4.9                  | 92.2          | 90.6              | 455                             | 1,759                      | 5,737                               | 6,527   | 9.0             | 4.5                                       | 3.2  |
| <b>Household Size</b>                           |                      |               |                   |                                 |                            |                                     |   |                 |   |      |
| 1 Person .....                                  | 4.4                  | 78.7          | 77.3              | 388                             | 1,380                      | 5,702                               | 6,502   | 9.8             | 4.9                                       | 4.5  |
| 2 to 4 Persons .....                            | 10.7                 | 87.7          | 86.2              | 430                             | 1,958                      | 5,681                               | 6,497   | 7.8             | 3.9                                       | 2.1  |
| 5 or More Persons .....                         | 1.3                  | 98.4          | 96.4              | 482                             | 2,156                      | 5,472                               | 6,300   | 8.2             | 4.1                                       | 4.2  |
| <b>Main Heating Equipment Using Natural Gas</b> |                      |               |                   |                                 |                            |                                     |   |                 |   |      |
| Central Warm-Air Furnace .....                  | 13.1                 | 86.6          | 85.0              | 426                             | 1,924                      | 5,677                               | 6,478   | 7.8             | 3.9                                       | 2.3  |
| Steam or Hot-Water System .....                 | 2.5                  | 85.7          | 83.9              | 415                             | 1,489                      | 5,661                               | 6,560   | 9.9             | 4.9                                       | 5.9  |
| Floor, Wall, or Pipeless Furnace .....          | 4                    | 74.3          | 73.5              | 369                             | 1,257                      | 5,417                               | 6,180   | 10.8            | 5.4                                       | 10.1 |
| Room Heater/Other .....                         | .4                   | 87.8          | 87.3              | 430                             | 1,021                      | 5,764                               | 6,445   | 14.8            | 7.3                                       | 18.0 |

See footnotes at end of table.

SPACE-HEATING CONSUMPTION/EXPENDITURES

Table 44. Natural Gas Consumption and Expenditures for Main Space Heating, per Midwest Region Household, 1990 (Continued)

| Characteristics   | Consumption          |               |                   | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Natural Gas Space-Heating Intensity           |   | RSE Row Factors |
|---|----------------------|---------------|-------------------|------------------------|---------------------------------|----------------------------|------------------------------|---|---|-----------------|
|   | Households (million) | (million Btu) | (1000 cubic feet) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (cubic feet/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
| RSE Column Factors:   | 2.4                  | NF            | NF                | NF                     | 1.1                             | 0.4                        | 0.4                          | NF  | NF  |                 |
| Midwest Region  |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| <b>Age of Main Heating Equipment</b>  |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Less than 5 Years .....   | 3.5                  | 93.8          | 92.1              | 457                    | 2,199                           | 5,661                      | 6,486                        | 7.4   | 3.7                                       | 3.8             |
| 5 to 9 Years .....  | 2.2                  | 86.0          | 84.8              | 430                    | 1,884                           | 5,840                      | 6,606                        | 7.7   | 3.9                                       | 4.4             |
| 10 to 19 Years .....  | 4.5                  | 84.6          | 83.0              | 419                    | 1,823                           | 5,780                      | 6,584                        | 7.9   | 4.0                                       | 3.2             |
| 20 Years or More .....  | 4.1                  | 91.6          | 90.0              | 446                    | 1,833                           | 5,562                      | 6,371                        | 8.8   | 4.4                                       | 3.9             |
| Don't Know .....  | 2.2                  | 67.3          | 65.8              | 330                    | 1,116                           | 5,491                      | 6,355                        | 10.7  | 5.4                                       | 4.3             |
| <b>Secondary Heating Fuel (more than one may apply)</b>                           |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| No .....  | 10.6                 | 80.6          | 79.2              | 401                    | 1,595                           | 5,656                      | 6,475                        | 8.8   | 4.4                                       | 2.2             |
| Yes .....   | 5.9                  | 96.2          | 94.4              | 464                    | 2,221                           | 5,691                      | 6,496                        | 7.5   | 3.7                                       | 3.2             |
| Wood .....  | 3.0                  | 101.0         | 99.2              | 484                    | 2,747                           | 5,821                      | 6,620                        | 6.2   | 3.0                                       | 4.0             |
| Electricity .....   | 2.6                  | 95.2          | 93.2              | 463                    | 1,894                           | 5,489                      | 6,308                        | 9.0   | 4.5                                       | 4.6             |
| Kerosene .....  | 5                    | 85.2          | 83.5              | 420                    | 1,982                           | 5,403                      | 6,175                        | 7.8   | 3.9                                       | 7.4             |
| Other .....   | .5                   | 77.0          | 75.5              | 365                    | 1,384                           | 5,896                      | 6,686                        | 9.2   | 4.5                                       | 9.7             |
| <b>Average Natural Gas Expenditures for Main Space Heat (dollars per 1000 cf)</b> |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Less than 4.50 .....  | 2.7                  | 102.7         | 102.0             | 419                    | 2,282                           | 5,767                      | 6,524                        | 7.8   | 3.2                                       | 6.7             |
| 4.50 to Less than 6 .....   | 12.7                 | 85.7          | 83.9              | 433                    | 1,764                           | 5,668                      | 6,490                        | 8.4   | 4.3                                       | 2.6             |
| 6 or More .....   | 1.1                  | 51.8          | 51.1              | 325                    | 1,329                           | 5,463                      | 6,294                        | 7.0   | 4.5                                       | 9.5             |
| <b>Winter Temperature Inside Housing Unit</b>                                     |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Prefer .....  |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Usual Temperature .....   | 13.5                 | 86.8          | 85.3              | 425                    | 1,836                           | 5,665                      | 6,479                        | 8.2   | 4.1                                       | 2.2             |
| Warmer Temperature .....  | 2.5                  | 87.0          | 85.3              | 433                    | 1,791                           | 5,710                      | 6,509                        | 8.3   | 4.2                                       | 4.0             |
| Cooler Temperature .....  | .5                   | 64.3          | 62.8              | 325                    | 1,482                           | 5,610                      | 6,453                        | 7.5   | 3.9                                       | 10.6            |
| <b>Adequacy of Insulation</b>   |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Well Insulated .....  | 5.7                  | 84.3          | 83.0              | 410                    | 2,039                           | 5,699                      | 6,506                        | 7.1   | 3.5                                       | 3.3             |
| Adequately Insulated .....  | 6.9                  | 83.7          | 82.2              | 417                    | 1,771                           | 5,682                      | 6,498                        | 8.2   | 4.1                                       | 2.9             |
| Poorly Insulated .....  | 3.3                  | 96.6          | 94.7              | 471                    | 1,627                           | 5,561                      | 6,364                        | 10.5  | 5.2                                       | 9.7             |
| Don't Know .....  | .6                   | 74.3          | 72.3              | 356                    | 1,345                           | 5,850                      | 6,737                        | 9.2   | 4.5                                       | 7.3             |

See footnotes at end of table.

MIDWEST

SPACE-HEATING CONSUMPTION/EXPENDITURES

MIDWEST

Table 44. Natural Gas Consumption and Expenditures for Main Space Heating, per Midwest Region Household, 1990 (Continued)

| Characteristics                             | Households (million) | Consumption   |                   | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Natural Gas Space-Heating Intensity           |   | RSE Flow Factors |
|---|----------------------|---------------|-------------------|------------------------|---------------------------------|----------------------------|------------------------------|---|---|------------------|
|   |                      | (million Btu) | (1000 cubic feet) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (cubic feet/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                  |
|   |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| RSE Column Factors:                         |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| East North Central Division ....            | 11.6                 | 89.8          | 87.8              | 448                    | 1,842                           | 5,613                      | 6,462                        | 8.5   | 4.3                                       | 2.7              |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| Under 2,000 CDD and Over 5,500 HDD .....    | 11.0                 | 89.6          | 87.6              | 447                    | 1,853                           | 5,665                      | 6,517                        | 8.3   | 4.3                                       | 2.9              |
| Under 5,500 HDD .....                       | Q                    | 93.9          | 91.5              | 461                    | 1,662                           | 4,731                      | 5,538                        | 11.6  | 5.9                                       | 8.3              |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                   | NC            | NC                | NC                     | NC                              | NC                         | NC                           | NC  | NC  | NC               |
| <b>Type of Housing Unit</b>                 |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| Single-Family .....                         | 8.0                  | 100.1         | 97.9              | 493                    | 2,197                           | 5,670                      | 6,502                        | 7.9   | 4.0                                       | 2.9              |
| Mobile Home .....                           | .7                   | 65.1          | 63.4              | 366                    | 982                             | 5,642                      | 6,463                        | 11.4  | 6.6                                       | 9.8              |
| Multifamily (2 or more units) ..            | 2.9                  | 67.7          | 66.0              | 344                    | 1,077                           | 5,448                      | 6,354                        | 11.2  | 5.9                                       | 5.5              |
| <b>Heated Floorspace (square feet)</b>      |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| Fewer than 1,000 .....                      | 3.1                  | 54.6          | 53.2              | 284                    | 757                             | 5,479                      | 6,344                        | 12.8  | 6.9                                       | 4.3              |
| 1,000 to 1,999 .....                        | 4.5                  | 90.3          | 88.4              | 459                    | 1,498                           | 5,598                      | 6,439                        | 10.5  | 5.5                                       | 3.3              |
| 2,000 or More .....                         | 4.1                  | 115.7         | 113.0             | 558                    | 3,036                           | 5,730                      | 6,577                        | 6.5   | 3.2                                       | 3.1              |
| <b>Ownership of Unit</b>                    |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| Owned .....                                 | 7.8                  | 99.9          | 97.7              | 496                    | 2,135                           | 5,686                      | 6,523                        | 8.0   | 4.1                                       | 3.1              |
| Rented .....                                | 3.8                  | 69.2          | 67.5              | 350                    | 1,242                           | 5,463                      | 6,338                        | 10.0  | 5.2                                       | 4.2              |
| <b>Year of Construction</b>                 |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| 1949 or Before .....                        | 5.2                  | 104.4         | 102.1             | 525                    | 1,822                           | 5,527                      | 6,370                        | 10.1  | 5.2                                       | 4.1              |
| 1950 to 1979 .....                          | 5.1                  | 76.2          | 74.4              | 380                    | 1,707                           | 5,624                      | 6,485                        | 7.7   | 4.0                                       | 3.7              |
| 1980 or After <sup>2</sup> .....            | 1.3                  | 85.0          | 83.4              | 406                    | 2,437                           | 5,904                      | 6,736                        | 5.8   | 2.8                                       | 7.6              |
| <b>1990 Family Income</b>                   |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| Less than \$10,000 .....                    | 1.9                  | 99.2          | 96.7              | 502                    | 1,526                           | 5,624                      | 6,465                        | 11.3  | 5.8                                       | 6.4              |
| \$10,000 to \$19,999 .....                  | 2.5                  | 77.9          | 76.0              | 399                    | 1,369                           | 5,540                      | 6,392                        | 10.0  | 5.3                                       | 4.0              |
| \$20,000 to \$34,999 .....                  | 3.1                  | 83.0          | 81.1              | 421                    | 1,817                           | 5,645                      | 6,485                        | 7.9   | 4.1                                       | 4.3              |
| \$35,000 or More .....                      | 4.2                  | 97.6          | 95.6              | 472                    | 2,276                           | 5,627                      | 6,485                        | 7.5   | 3.7                                       | 3.5              |
| <b>Below Poverty Line</b>                   |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| 100 Percent .....                           | 1.3                  | 97.8          | 95.2              | 496                    | 1,513                           | 5,648                      | 6,476                        | 11.1  | 5.8                                       | 6.4              |
| 125 Percent .....                           | 1.9                  | 93.1          | 90.7              | 472                    | 1,432                           | 5,654                      | 6,474                        | 11.2  | 5.8                                       | 4.8              |
| <b>Age of Householder</b>                   |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| Under 35 Years .....                        | 3.6                  | 79.6          | 77.8              | 400                    | 1,589                           | 5,537                      | 6,375                        | 8.8   | 4.5                                       | 5.5              |
| 35 to 59 Years .....                        | 4.7                  | 94.4          | 92.3              | 461                    | 2,091                           | 5,624                      | 6,493                        | 7.8   | 3.9                                       | 3.3              |
| 60 Years and Over .....                     | 3.4                  | 94.3          | 92.1              | 480                    | 1,765                           | 5,676                      | 6,512                        | 9.2   | 4.8                                       | 4.0              |
| <b>Household Size</b>                       |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| 1 Person .....                              | 2.9                  | 81.8          | 79.8              | 417                    | 1,413                           | 5,556                      | 6,423                        | 10.2  | 5.3                                       | 6.1              |
| 2 to 4 Persons .....                        | 7.7                  | 91.0          | 89.0              | 451                    | 1,963                           | 5,649                      | 6,490                        | 8.0   | 4.1                                       | 2.6              |
| 5 or More Persons .....                     | 1.1                  | 104.0         | 101.4             | 512                    | 2,155                           | 5,509                      | 6,374                        | 8.5   | 4.3                                       | 4.5              |

See footnotes at end of table.

SPACE-HEATING CONSUMPTION/EXPENDITURES

Table 44. Natural Gas Consumption and Expenditures for Main Space Heating, per Midwest Region Household, 1990 (Continued)

| Characteristics                        | Consumption          |               |                   | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Natural Gas Space-Heating Intensity           |   | RSE Row Factors |
|--|----------------------|---------------|-------------------|------------------------|---------------------------------|----------------------------|------------------------------|---|---|-----------------|
|  | Households (million) | (million Btu) | (1000 cubic feet) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (cubic feet/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
| RSE Column Factors:                    | 2.4                  | NF            | NF                | NF                     | 1.1                             | 0.4                        | 0.4                          | NF  | NF  |                 |
| <b>West North Central Division</b>     | 4.9                  | 77.3          | 77.0              | 364                    | 1,760                           | 5,807                      | 6,531                        | 7.5   | 3.6                                       | 3.5             |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Under 2,000 HDD and Over 5,500 HDD     | 3.2                  | 79.4          | 79.2              | 364                    | 1,652                           | 6,473                      | 7,227                        | 7.4   | 3.4                                       | 4.5             |
| Under 5,500 HDD and 2,000 HDD or More  | 1.6                  | 73.2          | 72.4              | 363                    | 1,978                           | 4,465                      | 5,130                        | 8.2   | 4.1                                       | 5.0             |
| Under 4,000 HDD                        | NC                   | NC            | NC                | NC                     | NC                              | NC                         | NC                           | NC  | NC  | NC              |
| <b>Type of Housing Unit</b>            |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Single-Family                          | 3.4                  | 86.2          | 85.9              | 406                    | 2,078                           | 5,613                      | 6,308                        | 7.4   | 3.5                                       | 4.2             |
| Mobile Home                            | .3                   | 71.6          | 71.8              | 344                    | 1,023                           | 6,476                      | 7,280                        | 10.8  | 5.2                                       | 15.3            |
| Multifamily (2 or more units)          | 1.1                  | 52.1          | 51.2              | 242                    | 975                             | 6,236                      | 7,031                        | 8.4   | 4.0                                       | 6.8             |
| <b>Heated Floorspace (square feet)</b> |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Fewer than 1,000                       | 1.4                  | 54.8          | 54.5              | 259                    | 742                             | 6,012                      | 6,733                        | 12.2  | 5.8                                       | 5.5             |
| 1,000 to 1,999                         | 1.8                  | 75.9          | 75.6              | 352                    | 1,486                           | 5,830                      | 6,542                        | 8.7   | 4.1                                       | 4.2             |
| 2,000 or More                          | 1.7                  | 96.8          | 96.3              | 460                    | 2,359                           | 5,619                      | 6,358                        | 6.0   | 2.9                                       | 4.7             |
| <b>Ownership of Unit</b>               |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Owned                                  | 3.2                  | 85.6          | 85.4              | 404                    | 2,085                           | 5,714                      | 6,439                        | 7.2   | 3.4                                       | 4.0             |
| Rented                                 | 1.6                  | 61.0          | 60.3              | 283                    | 1,115                           | 5,991                      | 6,724                        | 9.0   | 4.2                                       | 5.1             |
| <b>Year of Construction</b>            |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| 1949 or Before                         | 1.8                  | 90.6          | 90.2              | 414                    | 1,689                           | 5,811                      | 6,516                        | 9.2   | 4.2                                       | 5.3             |
| 1950 to 1979                           | 2.6                  | 72.8          | 72.5              | 348                    | 1,789                           | 5,853                      | 6,599                        | 6.9   | 3.3                                       | 4.2             |
| 1980 or After <sup>2</sup>             | .5                   | 50.0          | 49.4              | 253                    | 1,890                           | 5,521                      | 6,204                        | 4.7   | 2.4                                       | 10.5            |
| <b>1990 Family Income</b>              |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Less than \$10,000                     | .8                   | 70.6          | 70.5              | 325                    | 1,243                           | 5,875                      | 6,508                        | 9.7   | 4.5                                       | 8.6             |
| \$10,000 to \$19,999                   | 1.2                  | 76.5          | 76.3              | 358                    | 1,501                           | 5,762                      | 6,473                        | 8.8   | 4.1                                       | 4.2             |
| \$20,000 to \$34,999                   | 1.3                  | 75.2          | 75.1              | 347                    | 1,666                           | 5,971                      | 6,697                        | 7.6   | 3.5                                       | 5.0             |
| \$35,000 or More                       | 1.5                  | 83.5          | 82.7              | 405                    | 2,337                           | 5,659                      | 6,440                        | 6.3   | 3.1                                       | 5.6             |
| <b>Below Poverty Line</b>              |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| 100 Percent                            | .4                   | 67.4          | 67.3              | 317                    | 1,112                           | 6,000                      | 6,679                        | 10.1  | 4.8                                       | 9.0             |
| 125 Percent                            | .7                   | 65.4          | 65.2              | 307                    | 1,199                           | 5,813                      | 6,469                        | 9.4   | 4.4                                       | 8.0             |
| <b>Age of Householder</b>              |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Under 35 Years                         | 1.4                  | 67.5          | 66.9              | 324                    | 1,511                           | 5,932                      | 6,696                        | 7.5   | 3.6                                       | 4.9             |
| 35 to 59 Years                         | 1.9                  | 76.3          | 75.8              | 363                    | 1,952                           | 5,665                      | 6,389                        | 6.9   | 3.3                                       | 4.0             |
| 60 Years and Over                      | 1.5                  | 87.4          | 87.4              | 401                    | 1,746                           | 5,869                      | 6,559                        | 8.5   | 3.9                                       | 5.5             |
| <b>Household Size</b>                  |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| 1 Person                               | 1.5                  | 72.7          | 72.4              | 333                    | 1,315                           | 5,985                      | 6,658                        | 9.2   | 4.2                                       | 5.8             |
| 2 to 4 Persons                         | 3.1                  | 79.7          | 79.3              | 379                    | 1,943                           | 5,762                      | 6,514                        | 7.1   | 3.4                                       | 3.5             |
| 5 or More Persons                      | .3                   | 76.4          | 76.5              | 364                    | 2,158                           | 5,326                      | 6,012                        | 6.7   | 3.2                                       | 6.9             |

<sup>1</sup> The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).



SPACE-HEATING CONSUMPTION/EXPENDITURES

MIDWEST

Table 45. Fuel Oil Consumption and Expenditures for Main Space Heating, per Midwest Region Household, 1990

| Characteristics                              | Households (million) | Consumption   |           | Expenditures (dollars) | Heated Floor space (square feet) | Annual Heating Degree-Days |                              | Fuel Oil Space-Heating Intensity  |                                    | RSE Row Factors |
|--|----------------------|---------------|-----------|------------------------|----------------------------------|----------------------------|------------------------------|-----------------------------------|------------------------------------|-----------------|
|  |                      | (million Btu) | (gallons) |                        |                                  | 1990                       | 30-Year Average <sup>1</sup> | Consumption HDD*1000 square feet) | Expenditures HDD*1000 square feet) |                 |
|  |                      | NF            | NF        |                        |                                  | 0.6                        | 0.6                          | NF                                | NF                                 |                 |
| RSE Column Factors:                          |                      |               |           |                        |                                  |                            |                              |                                   |                                    |                 |
|  | 2.7                  | NF            | NF        | NF                     | 0.9                              | 0.6                        | 0.6                          | NF                                | NF                                 |                 |
| Midwest Region                               |                      |               |           |                        |                                  |                            |                              |                                   |                                    |                 |
| <b>Total Region</b>                          | 1.2                  | 89.8          | 652       | 690                    | 2,088                            | 6,353                      | 7,191                        | 0.049                             | 5.2                                | 8.3             |
| East North Central Division                  | .9                   | 88.8          | 644       | 688                    | 2,080                            | 6,276                      | 7,096                        | .049                              | 5.3                                | 10.5            |
| West North Central Division                  | .3                   | 93.2          | 676       | 698                    | 2,113                            | 6,603                      | 7,493                        | .048                              | 5.0                                | 12.1            |
| <b>Climate Zone<sup>1</sup></b>              |                      |               |           |                        |                                  |                            |                              |                                   |                                    |                 |
| Under 2,000 CDD and Over 5,500 HDD           | 1.1                  | 89.8          | 652       | 690                    | 2,118                            | 6,472                      | 7,307                        | .048                              | 5.0                                | 8.5             |
| Under 5,500 HDD                              | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q                                 | Q                                  | NF              |
| 2,000 CDD or More and Under 4,000 HDD        | NC                   | NC            | NC        | NC                     | NC                               | NC                         | NC                           | NC                                | NC                                 | NC              |
| <b>Type of Housing Unit</b>                  |                      |               |           |                        |                                  |                            |                              |                                   |                                    |                 |
| Single-Family                                | 1.2                  | 91.0          | 660       | 700                    | 2,125                            | 6,334                      | 7,170                        | .049                              | 5.2                                | 8.6             |
| Mobile Home                                  | NC                   | NC            | NC        | NC                     | NC                               | NC                         | NC                           | NC                                | NC                                 | NC              |
| Multifamily (2 or more units)                | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q                                 | Q                                  | NF              |
| <b>Heated Floorspace (square feet)</b>       |                      |               |           |                        |                                  |                            |                              |                                   |                                    |                 |
| Fewer than 1,000                             | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q                                 | Q                                  | NF              |
| 1,000 to 1,999                               | .5                   | 84.2          | 611       | 663                    | 1,581                            | 6,123                      | 6,926                        | .063                              | 6.8                                | 7.8             |
| 2,000 or More                                | .5                   | 100.6         | 728       | 743                    | 2,933                            | 6,631                      | 7,506                        | .037                              | 3.8                                | 9.7             |
| <b>Ownership of Unit</b>                     |                      |               |           |                        |                                  |                            |                              |                                   |                                    |                 |
| Owned  | 1.1                  | 90.6          | 657       | 691                    | 2,190                            | 6,350                      | 7,186                        | .047                              | 5.0                                | 7.9             |
| Rented                                       | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q                                 | Q                                  | NF              |
| <b>Year of Construction</b>                  |                      |               |           |                        |                                  |                            |                              |                                   |                                    |                 |
| 1949 or Before                               | .6                   | 93.6          | 680       | 737                    | 1,764                            | 5,939                      | 6,768                        | .065                              | 7.0                                | 7.6             |
| 1950 to 1979                                 | .6                   | 86.0          | 623       | 642                    | 2,417                            | 6,775                      | 7,620                        | .038                              | 3.9                                | 11.0            |
| 1980 or After <sup>2</sup>                   | NC                   | NC            | NC        | NC                     | NC                               | NC                         | NC                           | NC                                | NC                                 | NC              |
| <b>1990 Family Income</b>                    |                      |               |           |                        |                                  |                            |                              |                                   |                                    |                 |
| Less than \$10,000                           | .2                   | 96.8          | 707       | 786                    | 1,466                            | 6,511                      | 7,231                        | .074                              | 8.2                                | 15.7            |
| \$10,000 to \$19,999                         | .2                   | 87.6          | 636       | 676                    | 1,745                            | 6,062                      | 6,939                        | .060                              | Q                                  | 24.6            |
| \$20,000 to \$34,999                         | .5                   | 86.1          | 625       | 656                    | 2,181                            | 5,893                      | 6,729                        | .049                              | 5.1                                | 11.7            |
| \$35,000 or More                             | .4                   | 91.5          | 661       | 682                    | 2,504                            | 6,984                      | 7,876                        | .038                              | 3.9                                | 11.2            |
| <b>Below Poverty Line</b>                    |                      |               |           |                        |                                  |                            |                              |                                   |                                    |                 |
| 100 Percent                                  | .2                   | 92.7          | 676       | 753                    | 1,456                            | 6,382                      | 7,086                        | .073                              | 8.1                                | 18.6            |
| 125 Percent                                  | .2                   | 88.5          | 646       | 715                    | 1,397                            | 6,598                      | 7,344                        | .070                              | 7.8                                | 11.8            |
| <b>Age of Householder</b>                    |                      |               |           |                        |                                  |                            |                              |                                   |                                    |                 |
| Under 35 Years                               | .2                   | 90.6          | 663       | 736                    | 1,860                            | 6,527                      | 7,345                        | .055                              | 6.1                                | 11.3            |
| 35 to 59 Years                               | .5                   | 75.0          | 543       | 563                    | 2,189                            | 6,238                      | 7,073                        | .040                              | 4.1                                | 10.3            |
| 60 Years and Over                            | .4                   | 108.4         | 786       | 827                    | 2,088                            | 6,402                      | 7,253                        | .059                              | 6.2                                | 9.3             |
| <b>Household Size</b>                        |                      |               |           |                        |                                  |                            |                              |                                   |                                    |                 |
| 1 Person                                     | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q                                 | Q                                  | NF              |
| 2 to 4 Persons                               | 1.0                  | 88.8          | 644       | 674                    | 2,182                            | 6,266                      | 7,121                        | .047                              | 4.9                                | 8.2             |
| 5 or More Persons                            | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q                                 | Q                                  | NF              |
| <b>Main Heating Equipment Using Fuel Oil</b> |                      |               |           |                        |                                  |                            |                              |                                   |                                    |                 |
| Central Warm-Air Furnace                     | 1.0                  | 86.8          | 630       | 659                    | 2,176                            | 6,366                      | 7,214                        | .045                              | 4.8                                | 8.6             |
| Steam or Hot-Water System                    | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q                                 | Q                                  | NF              |
| Other  | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q                                 | Q                                  | NF              |

See footnotes at end of table.

SPACE-HEATING CONSUMPTION/EXPENDITURES

Table 45. Fuel Oil Consumption and Expenditures for Main Space Heating, per Midwest Region Household, 1990 (Continued)

| Characteristics   | Households (million) | Consumption   |           |           | Heated Floor Space (square feet) | Annual Heating Degree-Days |                              | Fuel Oil Space-Heating Intensity           |   | RSE Row Factors |
|---|----------------------|---------------|-----------|-----------|----------------------------------|----------------------------|------------------------------|--|---|-----------------|
|   |                      | (million Btu) | (gallons) | (dollars) |                                  | 1990                       | 30-Year Average <sup>1</sup> | Consumption (gallons/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
| RSE Column Factors:   | 2.7                  | NF            | NF        | NF        | 0.9                              | 0.6                        | 0.6                          | NF   | NF  |                 |
| Midwest Region  |                      |               |           |           |                                  |                            |                              |  |   |                 |
| <b>Age of Main Heating Equipment</b>  |                      |               |           |           |                                  |                            |                              |  |   |                 |
| Less than 5 Years   | Q                    | Q             | Q         | Q         | Q                                | Q                          | Q                            | Q  | Q   | NF              |
| 5 to 9 Years  | 0.2                  | 96.2          | 698       | 716       | 2,562                            | 6,642                      | 7,553                        | 0.041                                      | 4.2                                       | 17.1            |
| 10 to 19 Years  | .3                   | 82.6          | 601       | 630       | 2,364                            | 6,757                      | 7,578                        | .038                                       | 3.9                                       | 9.3             |
| 20 Years or More  | .5                   | 96.5          | 701       | 775       | 1,789                            | 5,966                      | 6,756                        | .066                                       | 7.3                                       | 8.3             |
| Don't Know  | Q                    | Q             | Q         | Q         | Q                                | Q                          | Q                            | Q  | Q   | NF              |
| <b>Secondary Heating Fuel (more than one may apply)</b>                       |                      |               |           |           |                                  |                            |                              |  |   |                 |
| No  | .5                   | 94.5          | 684       | 726       | 1,915                            | 6,534                      | 7,346                        | .055                                       | 5.8                                       | 7.9             |
| Yes   | .7                   | 86.7          | 630       | 666       | 2,204                            | 6,231                      | 7,085                        | .046                                       | 4.8                                       | 10.8            |
| Wood  | .5                   | 89.7          | 652       | 682       | 2,444                            | 6,390                      | 7,225                        | .042                                       | 4.4                                       | 11.6            |
| Electricity   | .2                   | 71.7          | 522       | 576       | 1,678                            | 6,015                      | 6,853                        | .052                                       | 5.7                                       | 16.3            |
| Kerosene  | Q                    | Q             | Q         | Q         | Q                                | Q                          | Q                            | Q  | Q   | NF              |
| Other   | Q                    | Q             | Q         | Q         | Q                                | Q                          | Q                            | Q  | Q   | NF              |
| <b>Average Fuel Oil Expenditures for Main Space Heat (dollars per gallon)</b> |                      |               |           |           |                                  |                            |                              |  |   |                 |
| Less than .95   | .2                   | 60.6          | 437       | 387       | 2,614                            | 6,633                      | 7,524                        | .025                                       | 2.2                                       | 14.7            |
| .95 to Less than 1.10   | .7                   | 101.4         | 735       | 767       | 2,159                            | 6,450                      | 7,322                        | .053                                       | 5.5                                       | 8.1             |
| 1.10 or More  | .3                   | 85.8          | 627       | 745       | 1,527                            | 5,920                      | 6,639                        | .069                                       | 8.2                                       | 12.2            |
| <b>Winter Temperature Inside Housing Unit</b>                                 |                      |               |           |           |                                  |                            |                              |  |   |                 |
| Prefer  |                      |               |           |           |                                  |                            |                              |  |   |                 |
| Usual Temperature   | .9                   | 93.8          | 680       | 717       | 2,084                            | 6,345                      | 7,170                        | .051                                       | 5.4                                       | 6.8             |
| Warmer Temperature  | .3                   | 77.4          | 563       | 606       | 2,099                            | 6,380                      | 7,256                        | .042                                       | 4.5                                       | 16.6            |
| Cooler Temperature  | NC                   | NC            | NC        | NC        | NC                               | NC                         | NC                           | NC   | NC  | NC              |
| <b>Adequacy of Insulation</b>   |                      |               |           |           |                                  |                            |                              |  |   |                 |
| Well Insulated  | .4                   | 88.7          | 643       | 672       | 2,452                            | 6,220                      | 7,065                        | .042                                       | 4.4                                       | 9.4             |
| Adequately Insulated  | .6                   | 85.7          | 621       | 655       | 2,126                            | 6,651                      | 7,487                        | .044                                       | 4.6                                       | 13.9            |
| Poorly Insulated  | .2                   | 105.8         | 770       | 834       | 1,504                            | 5,553                      | 6,379                        | .092                                       | 10.0                                      | 13.3            |
| Don't Know  | Q                    | Q             | Q         | Q         | Q                                | Q                          | Q                            | Q  | Q   | NF              |

1 The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.  
 2 Does not include all new construction for 1990.

NC = No cases in sample.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 NF = No applicable RSE row/column factor.  
 Notes: • Data in the East North Central and West North Central Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 46. Liquefied Petroleum Gas Consumption and Expenditures for Main Space Heating, per Midwest Region Household, 1990

| Characteristics                             | Households (million) | Consumption   |           | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Liquefied Petroleum Gas Space-Heating Intensity |   | RSE Row Factors |
|---|----------------------|---------------|-----------|------------------------|---------------------------------|----------------------------|------------------------------|---|---|-----------------|
|   |                      | (million Btu) | (gallons) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (gallons/HDD*1000 square feet)      | Expenditures (cents/HDD*1000 square feet) |                 |
|   |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| RSE Column Factors:                         |                      |               |           |                        |                                 |                            |                              |   |   |                 |
|   | 2.3                  | NF            | NF        | NF                     | 1.0                             | 0.6                        | 0.5                          | NF  | NF  |                 |
| <b>Midwest Region</b>                       |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| <b>Total Region</b> .....                   | 1.6                  | 58.8          | 644       | 561                    | 1,690                           | 5,912                      | 6,582                        | 0.064   | 5.6                                       | 7.5             |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 1.2                  | 60.1          | 658       | 588                    | 1,789                           | 6,349                      | 7,009                        | .058  | 5.2                                       | 8.4             |
| Under 5,500 HDD .....                       | .4                   | 54.6          | 598       | 474                    | 1,372                           | 4,505                      | 5,205                        | .097  | 7.7                                       | 12.9            |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                   | NC            | NC        | NC                     | NC                              | NC                         | NC                           | NC  | NC  | NC              |
| <b>Type of Housing Unit</b>                 |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Single-Family .....                         | 1.2                  | 62.7          | 687       | 592                    | 1,881                           | 5,993                      | 6,631                        | .061  | 5.3                                       | 8.6             |
| Mobile Home .....                           | .3                   | 43.7          | 479       | 439                    | 891                             | 5,700                      | 6,448                        | .094  | 8.6                                       | 10.8            |
| Multifamily (2 or more units) ..            | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |
| <b>Heated Floorspace (square feet)</b>      |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Fewer than 1,000 .....                      | .5                   | 48.5          | 531       | 505                    | 753                             | 5,856                      | 6,550                        | .120  | 11.4                                      | 9.1             |
| 1,000 to 1,999 .....                        | .6                   | 63.5          | 695       | 596                    | 1,442                           | 5,965                      | 6,654                        | .081  | 6.9                                       | 7.9             |
| 2,000 or More .....                         | .5                   | 63.3          | 694       | 577                    | 2,879                           | 5,904                      | 6,550                        | .041  | 3.4                                       | 8.2             |
| <b>Ownership of Unit</b>                    |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Owned .....                                 | 1.4                  | 58.4          | 639       | 559                    | 1,764                           | 5,981                      | 6,660                        | .061  | 5.3                                       | 8.2             |
| Rented .....                                | .2                   | 61.6          | 675       | 574                    | 1,187                           | 5,444                      | 6,054                        | .104  | 8.9                                       | 15.9            |
| <b>Year of Construction</b>                 |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| 1949 or Before .....                        | .6                   | 69.9          | 766       | 622                    | 1,596                           | 5,949                      | 6,568                        | .081  | 6.6                                       | 7.7             |
| 1950 to 1979 .....                          | .6                   | 54.5          | 596       | 565                    | 1,501                           | 5,795                      | 6,494                        | .069  | 6.5                                       | 11.5            |
| 1980 or After <sup>2</sup> .....            | .4                   | 49.9          | 546       | 474                    | 2,082                           | 6,025                      | 6,723                        | .044  | 3.8                                       | 13.3            |
| <b>1990 Family Income</b>                   |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Less than \$10,000 .....                    | .3                   | 59.0          | 646       | 644                    | 1,060                           | 6,161                      | 6,736                        | .099  | 9.9                                       | 14.1            |
| \$10,000 to \$19,999 .....                  | .5                   | 52.3          | 572       | 516                    | 1,368                           | 5,725                      | 6,450                        | .073  | 6.6                                       | 9.7             |
| \$20,000 to \$34,999 .....                  | .4                   | 58.3          | 638       | 522                    | 1,799                           | 6,040                      | 6,740                        | .059  | 4.8                                       | 8.0             |
| \$35,000 or More .....                      | .4                   | 67.3          | 737       | 591                    | 2,487                           | 5,816                      | 6,463                        | .051  | 4.1                                       | 16.0            |
| <b>Below Poverty Line</b>                   |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| 100 Percent .....                           | .3                   | 49.0          | 536       | 506                    | 1,096                           | 5,717                      | 6,372                        | .086  | 8.1                                       | 11.7            |
| 125 Percent .....                           | .5                   | 56.6          | 620       | 613                    | 1,128                           | 5,811                      | 6,452                        | .095  | 9.4                                       | 13.5            |
| <b>Age of Householder</b>                   |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Under 35 Years .....                        | .4                   | 49.4          | 541       | 472                    | 1,619                           | 6,136                      | 6,870                        | .054  | 4.8                                       | 10.9            |
| 35 to 59 Years .....                        | .6                   | 64.2          | 703       | 594                    | 2,025                           | 5,724                      | 6,343                        | .061  | 5.1                                       | 9.3             |
| 60 Years and Over .....                     | .5                   | 60.5          | 662       | 598                    | 1,377                           | 5,935                      | 6,609                        | .081  | 7.3                                       | 11.8            |
| <b>Household Size</b>                       |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| 1 Person .....                              | .2                   | 56.9          | 623       | 624                    | 1,046                           | 5,932                      | 6,450                        | .100  | 10.1                                      | 20.6            |
| 2 to 4 Persons .....                        | 1.1                  | 62.4          | 683       | 578                    | 1,743                           | 5,870                      | 6,541                        | .067  | 5.6                                       | 8.3             |
| 5 or More Persons .....                     | .3                   | 46.1          | 505       | 455                    | 1,926                           | 6,056                      | 6,825                        | .043  | 3.9                                       | 10.4            |
| <b>Main Heating Equipment Using LPG</b>     |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Central Warm-Air .....                      |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Furnace .....                               | 1.2                  | 57.7          | 632       | 539                    | 1,820                           | 5,854                      | 6,542                        | .059  | 5.1                                       | 7.3             |
| Room Heater/Other .....                     | .4                   | 62.3          | 682       | 635                    | 1,263                           | 6,101                      | 6,712                        | .088  | 8.2                                       | 14.4            |

See footnotes at end of table.

SPACE-HEATING CONSUMPTION/EXPENDITURES

Table 46. Liquefied Petroleum Gas Consumption and Expenditures for Main Space Heating, per Midwest Region Household, 1990 (Continued)

| Characteristics  | Households (million) | Consumption   |           | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Liquefied Petroleum Gas Space-Heating Intensity |   | RSE Row Factors |
|--|----------------------|---------------|-----------|------------------------|---------------------------------|----------------------------|------------------------------|---|---|-----------------|
|  |                      | (million Btu) | (gallons) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (gallons/HDD*1000 square feet)      | Expenditures (cents/HDD*1000 square feet) |                 |
| RSE Column Factors:  | 2,3                  | NF            | NF        | NF                     | 1.0                             | 0.6                        | 0.5                          | NF  | NF  |                 |
| Midwest Region   |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| <b>Age of Main Heating Equipment</b>                                     |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Less than 5 Years .....  | 0.6                  | 53.8          | 589       | 518                    | 1,869                           | 6,163                      | 6,843                        | 0.051   | 4.5                                       | 9.5             |
| 5 to 9 Years .....   | .3                   | 56.1          | 614       | 552                    | 1,486                           | 5,669                      | 6,312                        | .075  | 6.8                                       | 13.8            |
| 10 to 19 Years .....   | .4                   | 68.6          | 751       | 682                    | 1,609                           | 5,724                      | 6,388                        | .082  | 7.4                                       | 13.1            |
| 20 Years or More .....   | .2                   | 60.9          | 667       | 505                    | 1,814                           | 6,033                      | 6,765                        | .061  | 4.6                                       | 17.4            |
| Don't Know .....   | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |
| <b>Secondary Heating Fuel (more than one may apply)</b>                  |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| No .....   | .7                   | 61.6          | 675       | 582                    | 1,471                           | 5,851                      | 6,502                        | .078  | 6.8                                       | 8.9             |
| Yes .....  | .9                   | 56.6          | 620       | 545                    | 1,859                           | 5,958                      | 6,643                        | .056  | 4.9                                       | 10.2            |
| Wood .....   | .6                   | 54.1          | 593       | 507                    | 2,261                           | 5,886                      | 6,580                        | .045  | 3.8                                       | 9.0             |
| Electricity .....  | .2                   | 54.3          | 595       | 552                    | 1,616                           | 5,430                      | 6,149                        | .068  | 6.3                                       | 13.9            |
| Kerosene .....   | .2                   | 49.1          | 538       | 543                    | 1,830                           | 5,181                      | 5,970                        | .057  | 5.7                                       | 13.3            |
| Other .....  | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |
| <b>Average LPG Expenditures for Main Space Heat (dollars per gallon)</b> |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Less than .75 .....  | .3                   | 58.4          | 640       | 403                    | 1,798                           | 6,015                      | 6,652                        | .059  | 3.7                                       | 10.3            |
| .75 to Less than 1.00 .....  | .9                   | 58.4          | 639       | 555                    | 1,732                           | 5,950                      | 6,600                        | .062  | 5.4                                       | 8.6             |
| 1.00 or More .....   | .3                   | 60.3          | 660       | 746                    | 1,458                           | 5,697                      | 6,457                        | .079  | 9.0                                       | 19.5            |
| <b>Winter Temperature Inside Housing Unit</b>                            |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Prefer .....   | 1.2                  | 59.7          | 654       | 546                    | 1,722                           | 5,862                      | 6,528                        | .065  | 5.4                                       | 7.3             |
| Usual Temperature .....  | .4                   | 56.0          | 613       | 617                    | 1,578                           | 6,122                      | 6,808                        | .063  | 6.4                                       | 19.4            |
| Warmer Temperature .....   | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |
| Cooler Temperature .....   | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |
| <b>Adequacy of Insulation</b>  |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Well Insulated .....   | .8                   | 59.7          | 654       | 558                    | 1,893                           | 6,106                      | 6,786                        | .057  | 4.8                                       | 7.9             |
| Adequately Insulated .....   | .5                   | 57.6          | 631       | 548                    | 1,717                           | 5,697                      | 6,359                        | .064  | 5.6                                       | 12.2            |
| Poorly Insulated .....   | .3                   | 60.4          | 661       | 611                    | 1,211                           | 5,914                      | 6,559                        | .082  | 8.5                                       | 15.2            |
| Don't Know .....   | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |

See footnotes at end of table.

SPACE-HEATING CONSUMPTION/EXPENDITURES

MIDWEST

Table 46. Liquefied Petroleum Gas Consumption and Expenditures for Main Space Heating, per Midwest Region Household, 1990 (Continued)

| Characteristics   | Households (million) | Consumption   |           | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Liquefied Petroleum Gas Space-Heating Intensity |   | RSE Row Factors |
|---|----------------------|---------------|-----------|------------------------|---------------------------------|----------------------------|------------------------------|---|---|-----------------|
|   |                      | (million Btu) | (gallons) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (gallons/HDD*1000 square feet)      | Expenditures (cents/HDD*1000 square feet) |                 |
|   |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| RSE Column Factors:   |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| East North Central Division ...                                 | 1.1                  | 59.0          | 646       | 587                    | 1,684                           | 6,114                      | 6,831                        | 0.063   | 5.7                                       | 10.3            |
| <b>Climate Zone<sup>1</sup></b>                                 |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Under 2,000 HDD and Over 5,500 HDD .....                        | .9                   | 57.5          | 629       | 586                    | 1,761                           | 6,320                      | 7,027                        | .057  | 5.3                                       | 11.0            |
| Under 5,500 HDD and 2,000 HDD or More and Under 4,000 HDD ..... | NC                   | NC            | NC        | NC                     | NC                              | NC                         | NC                           | NC  | NC  | NC              |
| <b>Type of Housing Unit</b>                                     |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Single-Family .....   | .8                   | 64.3          | 704       | 633                    | 1,889                           | 6,232                      | 6,908                        | .060  | 5.4                                       | 11.8            |
| Mobile Home .....   | .2                   | 41.5          | 454       | 429                    | 894                             | 5,636                      | 6,637                        | .087  | 8.2                                       | 12.3            |
| Multifamily (2 or more units) ..                                | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |
| <b>Heated Floorspace (square feet)</b>                          |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Fewer than 1,000 .....  | .4                   | 48.1          | 527       | 519                    | 741                             | 6,164                      | 6,888                        | .115  | 11.4                                      | 11.7            |
| 1,000 to 1,999 .....  | .3                   | 68.1          | 746       | 664                    | 1,430                           | 6,150                      | 6,879                        | .085  | 7.6                                       | 13.0            |
| 2,000 or More .....   | .4                   | 62.1          | 680       | 586                    | 2,964                           | 6,026                      | 6,722                        | .038  | 3.3                                       | 10.2            |
| <b>Ownership of Unit</b>  |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Owned .....   | .9                   | 59.2          | 648       | 590                    | 1,768                           | 6,223                      | 6,929                        | .059  | 5.4                                       | 11.3            |
| Rented .....  | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |
| <b>Year of Construction</b>                                     |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| 1949 or Before .....  | .4                   | 71.8          | 786       | 660                    | 1,480                           | 6,179                      | 6,889                        | .086  | 7.2                                       | 10.7            |
| 1950 to 1979 .....  | .4                   | 55.5          | 608       | 603                    | 1,459                           | 6,024                      | 6,751                        | .068  | 6.9                                       | 14.0            |
| 1980 or After <sup>4</sup> .....                                | .3                   | 48.6          | 532       | 477                    | 2,235                           | 6,162                      | 6,873                        | .039  | 3.5                                       | 18.0            |
| <b>1990 Family Income</b>                                       |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Less than \$10,000 .....  | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |
| \$10,000 to \$19,999 .....                                      | .3                   | 53.2          | 583       | 548                    | 1,291                           | 5,986                      | 6,730                        | .075  | 7.1                                       | 12.9            |
| \$20,000 to \$34,999 .....                                      | .2                   | 60.0          | 657       | 568                    | 1,864                           | 6,237                      | 7,049                        | .057  | 4.9                                       | 12.3            |
| \$35,000 or More .....  | .3                   | 66.6          | 730       | 587                    | 2,569                           | 5,899                      | 6,540                        | Q   | 3.9                                       | 23.1            |
| <b>Below Poverty Line</b>                                       |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| 100 Percent .....   | .2                   | 47.6          | 521       | 505                    | 950                             | 5,980                      | 6,737                        | .092  | 8.9                                       | 12.8            |
| 125 Percent .....   | .3                   | 58.5          | 641       | 678                    | 935                             | 6,240                      | 6,941                        | .110  | 11.6                                      | 15.1            |
| <b>Age of Householder</b>                                       |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| Under 35 Years .....  | .3                   | 46.2          | 506       | 453                    | 1,612                           | 6,213                      | 7,009                        | .051  | 4.5                                       | 12.9            |
| 35 to 59 Years .....  | .4                   | 66.9          | 732       | 643                    | 2,171                           | 5,961                      | 6,603                        | .057  | 5.0                                       | 14.1            |
| 60 Years and Over .....   | .4                   | 61.4          | 672       | 640                    | 1,212                           | 6,198                      | 6,927                        | .089  | 8.5                                       | 17.0            |
| <b>Household Size</b>   |                      |               |           |                        |                                 |                            |                              |   |   |                 |
| 1 Person .....  | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |
| 2 to 4 Persons .....  | .8                   | 62.7          | 687       | 600                    | 1,742                           | 6,048                      | 6,759                        | .065  | 5.7                                       | 11.4            |
| 5 or More Persons .....   | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |

See footnotes at end of table.

**SPACE-HEATING CONSUMPTION/EXPENDITURES**

**Table 46. Liquefied Petroleum Gas Consumption and Expenditures for Main Space Heating, per Midwest Region Household, 1990 (Continued)**

| Characteristics                        | Consumption          |               |           | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Liquefied Petroleum Gas Space-Heating Intensity |   | RSE: Row Factors |
|--|----------------------|---------------|-----------|------------------------|---------------------------------|----------------------------|------------------------------|---|---|------------------|
|  | Households (million) | (million Btu) | (gallons) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (gallons/HDD*1000 square feet)      | Expenditures (cents/HDD*1000 square feet) |                  |
| RSE Column Factors:                    | 2.3                  | NF            | NF        | NF                     | 1.0                             | 0.6                        | 0.5                          | NF  | NF  |                  |
| <b>West North Central Division</b>     | 0.5                  | 58.4          | 639       | 508                    | 1,702                           | 5,488                      | 6,060                        | 0.068   | 5.4                                       | 7.4              |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |           |                        |                                 |                            |                              |   |   |                  |
| Under 2,000 HDD and Over 5,500 HDD     | .3                   | 69.4          | 759       | 596                    | 1,866                           | 6,453                      | 6,947                        | .062  | 4.9                                       | 8.1              |
| Under 5,500 HDD                        | .2                   | 46.7          | 512       | 414                    | 1,507                           | 4,463                      | 5,119                        | .076  | 6.2                                       | 11.2             |
| 2,000 CDD or More and Under 4,000 HDD  | NC                   | NC            | NC        | NC                     | NC                              | NC                         | NC                           | NC  | NC  | NC               |
| <b>Type of Housing Unit</b>            |                      |               |           |                        |                                 |                            |                              |   |   |                  |
| Single-Family                          | .4                   | 59.6          | 653       | 514                    | 1,865                           | 5,539                      | 6,106                        | .063  | 5.0                                       | 8.5              |
| Mobile Home                            | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF               |
| Multifamily (2 or more units)          | Q                    | Q             | Q         | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF               |
| <b>Heated Floorspace (square feet)</b> |                      |               |           |                        |                                 |                            |                              |   |   |                  |
| Fewer than 1,000                       | .1                   | 50.0          | 547       | 455                    | 794                             | 4,771                      | 5,358                        | .144  | 12.0                                      | 8.3              |
| 1,000 to 1,999                         | .2                   | 57.1          | 625       | 501                    | 1,459                           | 5,709                      | 6,342                        | .075  | 6.0                                       | 7.9              |
| 2,000 or More                          | .2                   | 66.1          | 724       | 555                    | 2,693                           | 5,639                      | 6,108                        | .048  | 3.7                                       | 14.7             |
| <b>Ownership of Unit</b>               |                      |               |           |                        |                                 |                            |                              |   |   |                  |
| Owned                                  | .4                   | 56.6          | 620       | 494                    | 1,756                           | 5,472                      | 6,093                        | .064  | 5.1                                       | 7.7              |
| Rented                                 | Q                    | Q             | Q         | Q                      | 1,353                           | 5,592                      | 5,847                        | Q   | Q   | 64.3             |
| <b>Year of Construction</b>            |                      |               |           |                        |                                 |                            |                              |   |   |                  |
| 1949 or Before                         | .2                   | 66.7          | 731       | 558                    | 1,789                           | 5,664                      | 6,028                        | .073  | 5.6                                       | 9.3              |
| 1950 to 1979                           | Q                    | 52.1          | 571       | 477                    | 1,598                           | 5,263                      | 5,900                        | .068  | 5.7                                       | 15.7             |
| 1980 or After <sup>2</sup>             | .1                   | 53.1          | 581       | 466                    | 1,703                           | 5,687                      | 6,352                        | .060  | 4.8                                       | 17.5             |
| <b>1990 Family Income</b>              |                      |               |           |                        |                                 |                            |                              |   |   |                  |
| Less than \$10,000                     | .1                   | 66.2          | 725       | 596                    | 1,437                           | 5,425                      | 5,739                        | .093  | 7.6                                       | 17.0             |
| \$10,000 to \$19,999                   | .2                   | 50.5          | 553       | 456                    | 1,513                           | 5,230                      | 5,918                        | .070  | 5.8                                       | 10.2             |
| \$20,000 to \$34,999                   | .2                   | 55.7          | 610       | 454                    | 1,701                           | 5,743                      | 6,275                        | .062  | 4.6                                       | 9.0              |
| \$35,000 or More                       | .1                   | 69.2          | 758       | 604                    | 2,251                           | 5,577                      | 6,241                        | .060  | 4.8                                       | 12.9             |
| <b>Below Poverty Line</b>              |                      |               |           |                        |                                 |                            |                              |   |   |                  |
| 100 Percent                            | Q                    | 52.9          | 579       | 510                    | 1,499                           | 4,985                      | 5,360                        | .077  | 6.8                                       | 43.3             |
| 125 Percent                            | .2                   | 53.2          | 583       | 496                    | 1,474                           | 5,042                      | 5,574                        | .078  | 6.7                                       | 20.2             |
| <b>Age of Householder</b>              |                      |               |           |                        |                                 |                            |                              |   |   |                  |
| Under 35 Years                         | .1                   | 56.9          | 624       | 518                    | 1,636                           | 5,952                      | 6,540                        | .064  | 5.3                                       | 19.4             |
| 35 to 59 Years                         | .2                   | 59.0          | 646       | 497                    | 1,739                           | 5,258                      | 5,830                        | .071  | 5.4                                       | 8.0              |
| 60 Years and Over                      | .2                   | 58.8          | 644       | 513                    | 1,709                           | 5,406                      | 5,967                        | .070  | 5.6                                       | 9.               |
| <b>Household Size</b>                  |                      |               |           |                        |                                 |                            |                              |   |   |                  |
| 1 Person                               | .1                   | 54.1          | 592       | 487                    | 1,479                           | 5,370                      | 5,794                        | .075  | 6.1                                       | 20.9             |
| 2 to 4 Persons                         | .3                   | 61.8          | 677       | 527                    | 1,745                           | 5,467                      | 6,047                        | .071  | 5.5                                       | 8.6              |
| 5 or More Persons                      | .1                   | 49.6          | 543       | 454                    | 1,788                           | 5,694                      | 6,393                        | .054  | 4.5                                       | 21.4             |

<sup>1</sup> The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-D of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 47. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, Midwest Region Households, 1990

| Characteristics                             | Electricity Used for Central Air Conditioning <sup>1</sup> |                                  |                                      |                      |               |               |                                  |                            |                                     |                                   | RSE Flow Factors |      |      |
|---|--|----------------------------------|--------------------------------------|----------------------|---------------|---------------|----------------------------------|----------------------------|-------------------------------------|-----------------------------------|------------------|------|------|
|   | Electricity Used for All Air Conditioning                  |                                  |                                      |                      |               | per Household |                                  |                            |                                     |                                   |                  |      |      |
|   | Households (million)                                       | Total Consumption (trillion Btu) | Total Expenditures (billion dollars) | Households (million) | Consumption   |               | Cooled Floor-space (square feet) | Annual Cooling Degree-Days | Electric Air-Conditioning Intensity |                                   |                  |      |      |
|   |  |                                  |                                      |                      | (million Btu) | (kWh)         |                                  |                            | (kWh/square foot)                   | (cents/1000 CDD*1000 square feet) |                  |      |      |
| 1.0   | NF   | NF                               | 1.6                                  | NF                   | NF            | 0.9           | 0.6                              | 0.6                        | NF                                  | NF                                |                  |      |      |
| <b>Midwest Region</b>                       |  |                                  |                                      |                      |               |               |                                  |                            |                                     |                                   |                  |      |      |
| <b>Total Region</b> .....                   | 16.0   | 70.9                             | 1.69                                 | 8.9                  | 6.4           | 1,875         | 150                              | 2,312                      | 947                                 | 900                               | 0.86             | 6.9  | 5.3  |
| <b>Climate Zone<sup>2</sup></b>             |  |                                  |                                      |                      |               |               |                                  |                            |                                     |                                   |                  |      |      |
| Under 2,000 CDD and Over 5,500 HDD .....    | 13.1   | 50.5                             | 1.20                                 | 7.0                  | 5.7           | 1,665         | 133                              | 2,307                      | 827                                 | 784                               | .87              | 7.0  | 7.0  |
| Under 5,500 HDD .....                       | 2.9  | 20.4                             | .49                                  | 1.9                  | 9.1           | 2,656         | 214                              | 2,332                      | 1,397                               | 1,329                             | .82              | 6.6  | 8.6  |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC   | NC                               | NC                                   | NC                   | NC            | NC            | NC                               | NC                         | NC                                  | NC                                | NC               | NC   | NC   |
| <b>Type of Housing Unit</b>                 |  |                                  |                                      |                      |               |               |                                  |                            |                                     |                                   |                  |      |      |
| Single-Family .....                         | 11.1   | 55.9                             | 1.32                                 | 6.7                  | 7.0           | 2,053         | 165                              | 2,747                      | 969                                 | 916                               | .77              | 6.2  | 5.0  |
| Mobile Home .....                           | 1.0  | 5.5                              | .13                                  | .7                   | 6.7           | 1,952         | 154                              | 994                        | 900                                 | 893                               | 2.18             | 17.2 | 14.3 |
| Multifamily (2 or more units) ..            | 3.8  | 9.5                              | .25                                  | 1.6                  | 3.8           | 1,108         | 90                               | 1,054                      | 877                                 | 834                               | 1.20             | 9.7  | 10.0 |
| <b>Heated Floorspace (square feet)</b>      |  |                                  |                                      |                      |               |               |                                  |                            |                                     |                                   |                  |      |      |
| Fewer than 1,000 .....                      | 4.1  | 11.9                             | .29                                  | 1.6                  | 4.6           | 1,352         | 107                              | 887                        | 952                                 | 931                               | 1.70             | 13.4 | 8.9  |
| 1,000 to 1,999 .....                        | 6.1  | 24.3                             | .57                                  | 3.4                  | 5.7           | 1,677         | 134                              | 1,737                      | 953                                 | 911                               | 1.01             | 8.1  | 6.8  |
| 2,000 or More .....                         | 5.8  | 34.7                             | .83                                  | 4.0                  | 7.7           | 2,250         | 182                              | 3,388                      | 940                                 | 878                               | .71              | 5.7  | 5.9  |
| <b>Ownership of Unit</b>                    |  |                                  |                                      |                      |               |               |                                  |                            |                                     |                                   |                  |      |      |
| Owned .....                                 | 11.8   | 58.3                             | 1.37                                 | 7.3                  | 6.7           | 1,969         | 158                              | 2,551                      | 936                                 | 886                               | .82              | 6.6  | 5.3  |
| Rented .....                                | 4.2  | 12.6                             | .32                                  | 1.6                  | 5.0           | 1,456         | 117                              | 1,254                      | 998                                 | 960                               | 1.16             | 9.4  | 9.8  |
| <b>Year of Construction</b>                 |  |                                  |                                      |                      |               |               |                                  |                            |                                     |                                   |                  |      |      |
| 1949 or Before .....                        | 5.1  | 15.8                             | .39                                  | 1.4                  | 6.3           | 1,832         | 145                              | 2,265                      | 985                                 | 924                               | .82              | 6.5  | 6.8  |
| 1950 to 1979 .....                          | 8.7  | 42.0                             | .98                                  | 5.8                  | 6.2           | 1,817         | 144                              | 2,149                      | 947                                 | 900                               | .89              | 7.1  | 6.4  |
| 1980 or After <sup>3</sup> .....            | 2.2  | 13.2                             | .32                                  | 1.7                  | 7.2           | 2,109         | 177                              | 2,914                      | 915                                 | 877                               | .79              | 6.6  | 10.6 |
| <b>1990 Family Income</b>                   |  |                                  |                                      |                      |               |               |                                  |                            |                                     |                                   |                  |      |      |
| Less than \$10,000 .....                    | 1.9  | 5.2                              | .13                                  | .6                   | 4.9           | 1,445         | 119                              | 1,387                      | 1,041                               | 1,004                             | 1.00             | 8.2  | 12.3 |
| \$10,000 to \$19,999 .....                  | 3.2  | 10.0                             | .25                                  | 1.5                  | 4.7           | 1,384         | 116                              | 1,795                      | 999                                 | 954                               | .77              | 6.5  | 7.9  |
| \$20,000 to \$34,999 .....                  | 4.6  | 17.9                             | .41                                  | 2.4                  | 5.7           | 1,676         | 128                              | 2,039                      | 920                                 | 884                               | .89              | 6.8  | 6.9  |
| \$35,000 or More .....                      | 6.3  | 37.8                             | .90                                  | 4.4                  | 7.5           | 2,204         | 178                              | 2,754                      | 933                                 | 876                               | .86              | 6.9  | 7.0  |
| <b>Below Poverty Line</b>                   |  |                                  |                                      |                      |               |               |                                  |                            |                                     |                                   |                  |      |      |
| 100 Percent .....                           | 1.2  | 3.4                              | .08                                  | .4                   | 4.9           | 1,438         | 116                              | 1,332                      | 999                                 | 981                               | 1.08             | 8.7  | 14.9 |
| 125 Percent .....                           | 1.9  | 5.8                              | .14                                  | .6                   | 4.9           | 1,430         | 117                              | 1,325                      | 1,059                               | 1,023                             | 1.02             | 8.3  | 11.2 |
| <b>Age of Householder</b>                   |  |                                  |                                      |                      |               |               |                                  |                            |                                     |                                   |                  |      |      |
| Under 35 Years .....                        | 4.3  | 17.8                             | .42                                  | 2.2                  | 6.2           | 1,809         | 143                              | 1,940                      | 989                                 | 952                               | .94              | 7.5  | 10.7 |
| 35 to 59 Years .....                        | 6.9  | 37.0                             | .89                                  | 4.2                  | 7.4           | 2,157         | 174                              | 2,631                      | 947                                 | 893                               | .87              | 7.0  | 5.7  |
| 60 Years and Over .....                     | 4.8  | 16.0                             | .39                                  | 2.5                  | 5.0           | 1,454         | 117                              | 2,100                      | 911                                 | 863                               | .76              | 6.1  | 7.9  |

See footnotes at end of table.

**AIR-CONDITIONING CONSUMPTION/EXPENDITURES**

**Table 47. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, Midwest Region Households, 1990 (Continued)**

| Characteristics  | Electricity Used for All Air Conditioning |                    | Electricity Used for Central Air Conditioning <sup>1</sup> |                      |               |       |                        |                                  |                            |                              |                                     |                                    | RSE Row Factors |                            |
|--|---|--------------------|--|----------------------|---------------|-------|------------------------|----------------------------------|----------------------------|------------------------------|-------------------------------------|------------------------------------|-----------------|----------------------------|
|  | Total Consumption                         | Total Expenditures | per Household  |                      | Consumption   |       | Expenditures (dollars) | Cooled Floor-space (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity | Expenditures/Cent/1000 square feet |                 |                            |
|  |   |                    | Households (million)                                       | Households (million) | (million Btu) | (kWh) |                        |                                  | 1990                       | 30-Year Average <sup>2</sup> |                                     |                                    |                 | (kWh/CDD*1000 square feet) |
| RSE Column Factors:  | 1.0                                       | NF                 | NF   | 1.6                  | NF            | NF    | NF                     | NF                               | 0.9                        | 0.6                          | 0.6                                 | NF                                 | NF              |                            |
| <b>Midwest Region</b>  |   |                    |  |                      |               |       |                        |                                  |                            |                              |                                     |                                    |                 |                            |
| <b>Household Size</b>  |   |                    |  |                      |               |       |                        |                                  |                            |                              |                                     |                                    |                 |                            |
| 1 Person .....   | 4.1                                       | 12.2               | 0.31   | 2.1                  | 4.5           | 1,304 | 111                    | 1,633                            | 937                        | 889                          | 0.85                                | 7.2                                | 8.8             |                            |
| 2 to 4 Persons .....   | 10.8                                      | 52.1               | 1.24   | 6.3                  | 6.8           | 1,982 | 159                    | 2,495                            | 947                        | 897                          | .84                                 | 6.7                                | 5.0             |                            |
| 5 or More Persons .....  | 1.1                                       | 6.6                | .14  | .5                   | 9.6           | 2,827 | 205                    | 2,816                            | 984                        | 965                          | 1.02                                | 7.4                                | 13.1            |                            |
| <b>Cooling Degree-Days (CDD)-1990</b>                            |   |                    |  |                      |               |       |                        |                                  |                            |                              |                                     |                                    |                 |                            |
| 2,000 or More .....  | NC  | NC                 | NC   | NC                   | NC            | NC    | NC                     | NC                               | NC                         | NC                           | NC                                  | NC                                 | NC              |                            |
| 1,000 to 1,999 .....   | 5.2                                       | 32.4               | .79  | 3.1                  | 8.7           | 2,563 | 209                    | 2,404                            | 1,345                      | 1,288                        | .79                                 | 6.5                                | 7.8             |                            |
| 500 to 999 .....   | 10.5                                      | 38.1               | .90  | 5.8                  | 5.2           | 1,522 | 121                    | 2,259                            | 743                        | 710                          | .91                                 | 7.2                                | 7.0             |                            |
| Fewer than 500 .....   | .3  | .4                 | .01  | Q                    | Q             | Q     | Q                      | Q                                | Q                          | Q                            | Q                                   | Q                                  | 25.1            |                            |
| <b>Average Humidity for June, July and August 1990 (percent)</b> |   |                    |  |                      |               |       |                        |                                  |                            |                              |                                     |                                    |                 |                            |
| Less than 65 .....   | Q   | Q                  | Q  | Q                    | Q             | Q     | Q                      | Q                                | Q                          | Q                            | Q                                   | Q                                  | NF              |                            |
| 65 to Less than 70 .....   | 5.9                                       | 26.5               | .69  | 3.5                  | 6.0           | 1,746 | 159                    | 2,253                            | 939                        | 855                          | .83                                 | 7.5                                | 11.6            |                            |
| 70 or Higher .....   | 9.7                                       | 43.7               | .96  | 5.3                  | 6.6           | 1,942 | 142                    | 2,340                            | 948                        | 924                          | .87                                 | 6.4                                | 5.7             |                            |
| <b>Average Electricity Expenditures (cents per kWh)</b>          |   |                    |  |                      |               |       |                        |                                  |                            |                              |                                     |                                    |                 |                            |
| Less than 6 .....  | 1.1                                       | 7.0                | .11  | .8                   | 8.4           | 2,454 | 125                    | 2,333                            | 864                        | 860                          | 1.22                                | 6.2                                | 18.2            |                            |
| 6 to Less than 9 .....   | 9.3                                       | 42.5               | .93  | 5.5                  | 6.3           | 1,858 | 139                    | 2,244                            | 955                        | 931                          | .86                                 | 6.4                                | 6.8             |                            |
| 9 or More .....  | 5.6                                       | 21.3               | .66  | 2.7                  | 6.0           | 1,747 | 180                    | 2,446                            | 934                        | 847                          | .76                                 | 7.9                                | 9.3             |                            |
| <b>Number of Rooms Usually Air Conditioned</b>                   |   |                    |  |                      |               |       |                        |                                  |                            |                              |                                     |                                    |                 |                            |
| 1 to 3 .....   | 5.6                                       | 10.0               | .25  | .7                   | 3.3           | 971   | 75                     | 870                              | 902                        | 892                          | 1.24                                | 9.6                                | 13.9            |                            |
| 4 to 6 .....   | 7.2                                       | 36.0               | .86  | 5.2                  | 5.8           | 1,708 | 138                    | 1,887                            | 959                        | 912                          | .94                                 | 7.6                                | 5.1             |                            |
| 7 or More .....  | 3.2                                       | 24.9               | .58  | 3.0                  | 8.1           | 2,385 | 190                    | 3,404                            | 938                        | 879                          | .75                                 | 6.0                                | 8.4             |                            |
| <b>Frequency of Use of Air Conditioning<sup>4</sup></b>          |   |                    |  |                      |               |       |                        |                                  |                            |                              |                                     |                                    |                 |                            |
| Only a Few Times .....   | 8.9                                       | 20.6               | .50  | 4.0                  | 3.9           | 1,156 | 95                     | 2,204                            | 831                        | 790                          | .63                                 | 5.2                                | 5.3             |                            |
| Quite a Bit .....  | 3.9                                       | 24.8               | .80  | 2.6                  | 7.8           | 2,299 | 186                    | 2,547                            | 987                        | 921                          | .91                                 | 7.4                                | 8.3             |                            |
| All Summer .....   | 3.1                                       | 24.9               | .57  | 2.4                  | 8.9           | 2,617 | 204                    | 2,244                            | 1,087                      | 1,052                        | 1.07                                | 8.4                                | 7.5             |                            |
| Other .....  | Q   | Q                  | Q  | Q                    | Q             | Q     | Q                      | Q                                | Q                          | Q                            | Q                                   | Q                                  | NF              |                            |
| <b>Age of Air Conditioning Equipment<sup>4</sup></b>             |   |                    |  |                      |               |       |                        |                                  |                            |                              |                                     |                                    |                 |                            |
| Less than 5 Years .....  | 4.9                                       | 23.5               | .58  | 2.7                  | 7.0           | 2,046 | 170                    | 2,765                            | 922                        | 872                          | .80                                 | 6.7                                | 7.1             |                            |
| 5 to 9 Years .....   | 3.3                                       | 13.6               | .32  | 1.5                  | 6.6           | 1,932 | 151                    | 2,213                            | 989                        | 941                          | .88                                 | 6.9                                | 8.0             |                            |
| 10 or More Years .....   | 6.0                                       | 28.3               | .66  | 3.9                  | 6.2           | 1,819 | 144                    | 2,186                            | 960                        | 915                          | .87                                 | 6.8                                | 7.3             |                            |
| Don't Know .....   | 1.5                                       | 4.7                | .12  | .6                   | 5.3           | 1,541 | 123                    | 1,667                            | 894                        | 838                          | 1.05                                | 8.4                                | 14.8            |                            |

See footnotes at end of table.

**MIDWEST**



AIR-CONDITIONING CONSUMPTION/EXPENDITURES

MIDWEST

Table 47. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, Midwest Region Households, 1990 (Continued)

| Characteristics                             | Electricity Used for All Air Conditioning |                                  |                                      |                      | Electricity Used for Central Air Conditioning <sup>1</sup> |                 |                                  |                            |       |                                     |      |                                   |                                  |                                       | RSE Row Factors |   |   |
|---|---|----------------------------------|--------------------------------------|----------------------|--|-----------------|----------------------------------|----------------------------|-------|-------------------------------------|------|-----------------------------------|----------------------------------|---------------------------------------|-----------------|---|---|
|   | Households (million)                      | Total Consumption (trillion Btu) | Total Expenditures (billion dollars) | Households (million) | Consumption  |                 | Cooled Floor-space (square feet) | Annual Cooling Degree-Days |       | Electric Air-Conditioning Intensity |      | 30-Year Average <sup>2</sup> 1990 | Con- sumption (kWh/ square foot) | Ex- pend- itures (cents/ square foot) |                 |   |   |
|   |   |                                  |                                      |                      | (mil- lion Btu)  | (mil- lion Btu) |                                  | NF                         | NF    | Q                                   | Q    |                                   |                                  |                                       |                 | Q | Q |
|   |   |                                  |                                      |                      |  |                 |                                  |                            |       |                                     |      |                                   |                                  |                                       |                 |   |   |
| 1.0   | NF  | NF                               | 1.6                                  | NF                   | NF   | NF              | 0.9                              | 0.6                        | 0.6   | NF                                  | NF   | NF                                |                                  |                                       |                 |   |   |
| <b>East North Central Division ...</b>      | 10.7                                      | 42.0                             | 1.02                                 | 5.7                  | 5.7  | 1,678           | 136                              | 2,340                      | 799   | 763                                 | 0.90 | 7.3                               | 8.0                              |                                       |                 |   |   |
| <b>Climate Zone<sup>2</sup></b>             |   |                                  |                                      |                      |  |                 |                                  |                            |       |                                     |      |                                   |                                  |                                       |                 |   |   |
| Under 2,000 CDD and Over 5,500 HDD .....    | 10.0                                      | 36.8                             | .94                                  | 5.4                  | 5.7  | 1,660           | 134                              | 2,349                      | 790   | 751                                 | .89  | 7.2                               | 8.9                              |                                       |                 |   |   |
| Under 5,500 HDD .....                       | Q   | Q                                | Q                                    | Q                    | 7.0  | 2,061           | 165                              | 2,130                      | 1,001 | 1,034                               | .97  | 7.7                               | 20.4                             |                                       |                 |   |   |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC  | NC                               | NC                                   | NC                   | NC   | NC              | NC                               | NC                         | NC    | NC                                  | NC   | NC                                | NC                               |                                       |                 |   |   |
| <b>Type of Housing Unit</b>                 |   |                                  |                                      |                      |  |                 |                                  |                            |       |                                     |      |                                   |                                  |                                       |                 |   |   |
| Single-Family .....                         | 7.2                                       | 32.2                             | .76                                  | 4.1                  | 6.4  | 1,881           | 152                              | 2,874                      | 808   | 764                                 | .81  | 6.5                               | 7.9                              |                                       |                 |   |   |
| Mobile Home .....                           | 7   | 3.7                              | .09                                  | .5                   | 5.9  | 1,723           | 135                              | 979                        | 728   | 748                                 | 2.42 | 19.0                              | 17.8                             |                                       |                 |   |   |
| Multifamily (2 or more units) ..            | 2.8                                       | 6.2                              | .17                                  | 1.2                  | 3.2  | 941             | 79                               | 1,028                      | 800   | 768                                 | 1.15 | 9.6                               | 12.4                             |                                       |                 |   |   |
| <b>Heated Floorspace (square feet)</b>      |   |                                  |                                      |                      |  |                 |                                  |                            |       |                                     |      |                                   |                                  |                                       |                 |   |   |
| Fewer than 1,000 .....                      | 2.8                                       | 7.3                              | .19                                  | 1.1                  | 3.9  | 1,141           | 91                               | 839                        | 810   | 808                                 | 1.68 | 13.4                              | 12.4                             |                                       |                 |   |   |
| 1,000 to 1,999 .....                        | 4.0                                       | 14.1                             | .34                                  | 2.1                  | 5.2  | 1,526           | 121                              | 1,694                      | 801   | 779                                 | 1.12 | 8.9                               | 10.0                             |                                       |                 |   |   |
| 2,000 or More .....                         | 3.9                                       | 20.6                             | .50                                  | 2.5                  | 6.9  | 2,036           | 167                              | 3,524                      | 793   | 731                                 | .73  | 6.0                               | 9.3                              |                                       |                 |   |   |
| <b>Ownership of Unit</b>                    |   |                                  |                                      |                      |  |                 |                                  |                            |       |                                     |      |                                   |                                  |                                       |                 |   |   |
| Owned .....                                 | 8.0                                       | 34.9                             | .83                                  | 4.7                  | 6.0  | 1,762           | 142                              | 2,563                      | 785   | 745                                 | .88  | 7.1                               | 7.7                              |                                       |                 |   |   |
| Rented .....                                | 2.7                                       | 7.1                              | .19                                  | 1.0                  | 4.3  | 1,264           | 104                              | 1,245                      | 869   | 853                                 | 1.17 | 9.6                               | 15.1                             |                                       |                 |   |   |
| <b>Year of Construction</b>                 |   |                                  |                                      |                      |  |                 |                                  |                            |       |                                     |      |                                   |                                  |                                       |                 |   |   |
| 1949 or Before .....                        | 3.4                                       | 9.2                              | .23                                  | .8                   | 5.3  | 1,550           | 125                              | 2,306                      | 787   | 733                                 | .85  | 6.9                               | 10.8                             |                                       |                 |   |   |
| 1950 to 1979 .....                          | 5.7                                       | 24.4                             | .57                                  | 3.8                  | 5.5  | 1,602           | 127                              | 2,086                      | 810   | 778                                 | .95  | 7.5                               | 9.2                              |                                       |                 |   |   |
| 1980 or After <sup>3</sup> .....            | 1.5                                       | 8.5                              | .22                                  | 1.1                  | 6.9  | 2,027           | 175                              | 3,221                      | 773   | 738                                 | .81  | 7.0                               | 12.9                             |                                       |                 |   |   |
| <b>1990 Family Income</b>                   |   |                                  |                                      |                      |  |                 |                                  |                            |       |                                     |      |                                   |                                  |                                       |                 |   |   |
| Less than \$10,000 .....                    | 1.2                                       | 2.9                              | .07                                  | .3                   | 4.3  | 1,255           | 104                              | 1,155                      | 893   | 856                                 | 1.22 | 10.1                              | 20.3                             |                                       |                 |   |   |
| \$10,000 to \$19,999 .....                  | 1.9                                       | 5.0                              | .13                                  | .8                   | 4.1  | 1,208           | 105                              | 1,743                      | 813   | 787                                 | .85  | 7.4                               | 13.0                             |                                       |                 |   |   |
| \$20,000 to \$34,999 .....                  | 3.2                                       | 10.1                             | .24                                  | 1.6                  | 4.7  | 1,392           | 106                              | 2,049                      | 745   | 727                                 | .91  | 7.0                               | 9.4                              |                                       |                 |   |   |
| \$35,000 or More .....                      | 4.4                                       | 24.0                             | .58                                  | 3.0                  | 6.8  | 1,996           | 162                              | 2,775                      | 814   | 766                                 | .88  | 7.2                               | 10.1                             |                                       |                 |   |   |
| <b>Below Poverty Line</b>                   |   |                                  |                                      |                      |  |                 |                                  |                            |       |                                     |      |                                   |                                  |                                       |                 |   |   |
| 100 Percent .....                           | .8  | 2.0                              | .05                                  | .3                   | 4.2  | 1,239           | 101                              | 1,138                      | 882   | 854                                 | 1.41 | 11.4                              | 20.0                             |                                       |                 |   |   |
| 125 Percent .....                           | 1.1                                       | 3.0                              | .08                                  | .3                   | 4.2  | 1,239           | 101                              | 1,138                      | 882   | 854                                 | 1.24 | 10.0                              | 17.6                             |                                       |                 |   |   |
| <b>Age of Householder</b>                   |   |                                  |                                      |                      |  |                 |                                  |                            |       |                                     |      |                                   |                                  |                                       |                 |   |   |
| Under 35 Years .....                        | 2.9                                       | 11.5                             | .27                                  | 1.4                  | 5.9  | 1,721           | 134                              | 1,934                      | 886   | 868                                 | 1.00 | 7.8                               | 16.9                             |                                       |                 |   |   |
| 35 to 59 Years .....                        | 4.7                                       | 22.4                             | .55                                  | 2.8                  | 6.5  | 1,904           | 156                              | 2,715                      | 787   | 747                                 | .89  | 7.3                               | 8.0                              |                                       |                 |   |   |
| 60 Years and Over .....                     | 3.1                                       | 8.1                              | .21                                  | 1.4                  | 4.1  | 1,199           | 99                               | 2,022                      | 737   | 692                                 | .80  | 6.7                               | 10.4                             |                                       |                 |   |   |
| <b>Household Size</b>                       |   |                                  |                                      |                      |  |                 |                                  |                            |       |                                     |      |                                   |                                  |                                       |                 |   |   |
| 1 Person .....                              | 2.6                                       | 7.0                              | .19                                  | 1.3                  | 3.9  | 1,139           | 100                              | 1,594                      | 800   | 765                                 | .89  | 7.8                               | 10.8                             |                                       |                 |   |   |
| 2 to 4 Persons .....                        | 7.3                                       | 30.6                             | .74                                  | 4.0                  | 6.0  | 1,758           | 143                              | 2,544                      | 796   | 756                                 | .87  | 7.1                               | 7.7                              |                                       |                 |   |   |
| 5 or More Persons .....                     | .8  | 4.4                              | .09                                  | .4                   | 9.3  | 2,794           | 184                              | 2,850                      | 828   | 836                                 | 1.16 | 7.8                               | 18.5                             |                                       |                 |   |   |

See footnotes at end of table.

**AIR-CONDITIONING CONSUMPTION/EXPENDITURES**

**Table 47. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, Midwest Region Households, 1990 (Continued)**

| Characteristics                        | Electricity Used for All Air Conditioning |               | Electricity Used for Central Air Conditioning <sup>1</sup> |                              |                        |                                  |                            |       |                                     |  |      |      | RSE F1W F1C- Lins |  |
|--|---|---------------|--|------------------------------|------------------------|----------------------------------|----------------------------|-------|-------------------------------------|--|------|------|-------------------|--|
|  | Total Consumption                         | per Household | Consumption  |                              | Expenditures (dollars) | Cooled Floor-space (square feet) | Annual Cooling Degree-Days |       | Electric Air-Conditioning Intensity | Expenditures (cents/1000 CDD*1000 square feet) |      |      |                   |  |
|  |   |               | 1990   | 30-Year Average <sup>2</sup> |                        |                                  |                            |       |                                     |  |      |      |                   |  |
| RSE Column Factors:                    | 1.0                                       | NF            | NF   | 1.6                          | NF                     | NF                               | NF                         | 0.9   | 0.6                                 | 0.6  | 0.6  | NF   | NF                |  |
| <b>West North Central Division</b>     | 5.3                                       | 28.9          | 0.67   | 3.2                          | 7.6                    | 2,221                            | 176                        | 2,264 | 1,207                               | 1,139  | 0.81 | 6.4  | 5.6               |  |
| <b>Climate Zone<sup>3</sup></b>        |   |               |  |                              |                        |                                  |                            |       |                                     |  |      |      |                   |  |
| Under 2,000 CDD and Over 5,500 HDD     | 3.1                                       | 11.7          | .26  | 1.6                          | 5.7                    | 1,683                            | 129                        | 2,163 | 951                                 | 898  | .82  | 6.3  | 5.8               |  |
| Under 5,500 HDD                        | 2.2                                       | 17.1          | .41  | 1.6                          | 9.4                    | 2,749                            | 222                        | 2,364 | 1,459                               | 1,376  | .80  | 6.4  | 7.9               |  |
| 2,000 CDD or More and Under 4,000 HDD  | NC  | NC            | NC   | NC                           | NC                     | NC                               | NC                         | NC    | NC                                  | NC   | NC   | NC   | NC                |  |
| <b>Type of Housing Unit</b>            |   |               |  |                              |                        |                                  |                            |       |                                     |  |      |      |                   |  |
| Single-Family                          | 3.9                                       | 23.7          | .55  | 2.6                          | 7.9                    | 2,320                            | 184                        | 2,548 | 1,220                               | 1,153  | .75  | 5.9  | 5.7               |  |
| Mobile Home                            | .3  | 1.8           | .04  | .2                           | 8.9                    | 2,599                            | 207                        | 1,038 | 1,387                               | 1,303  | 1.81 | 14.4 | 16.8              |  |
| Multifamily (2 or more units)          | 1.1                                       | 3.4           | .08  | .5                           | 5.2                    | 1,522                            | 117                        | 1,120 | 1,071                               | 1,001  | 1.27 | 9.8  | 12.4              |  |
| <b>Heated Floorspace (square feet)</b> |   |               |  |                              |                        |                                  |                            |       |                                     |  |      |      |                   |  |
| Fewer than 1,000                       | 1.3                                       | 4.6           | .11  | .5                           | 6.2                    | 1,827                            | 144                        | 833   | 1,274                               | 1,208  | 1.72 | 13.5 | 10.1              |  |
| 1,000 to 1,999                         | 2.1                                       | 10.1          | .24  | 1.3                          | 6.5                    | 1,919                            | 154                        | 1,806 | 1,197                               | 1,122  | .89  | 7.1  | 7.1               |  |
| 2,000 or More                          | 1.9                                       | 14.1          | .32  | 1.5                          | 8.9                    | 2,622                            | 206                        | 3,151 | 1,194                               | 1,131  | .70  | 5.5  | 6.3               |  |
| <b>Ownership of Unit</b>               |   |               |  |                              |                        |                                  |                            |       |                                     |  |      |      |                   |  |
| Owned                                  | 3.8                                       | 23.3          | .54  | 2.6                          | 8.0                    | 2,353                            | 187                        | 2,530 | 1,215                               | 1,146  | .77  | 6.1  | 5.6               |  |
| Rented                                 | 1.5                                       | 5.5           | .13  | .7                           | 5.9                    | 1,727                            | 136                        | 1,267 | 1,179                               | 1,111  | 1.16 | 9.1  | 10.7              |  |
| <b>Year of Construction</b>            |   |               |  |                              |                        |                                  |                            |       |                                     |  |      |      |                   |  |
| 1949 or Before                         | 1.7                                       | 6.6           | .15  | .6                           | 7.5                    | 2,204                            | 171                        | 2,211 | 1,247                               | 1,177  | .80  | 6.2  | 6.3               |  |
| 1950 to 1979                           | 3.0                                       | 17.6          | .41  | 2.0                          | 7.6                    | 2,213                            | 176                        | 2,265 | 1,200                               | 1,125  | .81  | 6.5  | 7.2               |  |
| 1980 or After <sup>4</sup>             | .6  | 4.6           | .11  | .6                           | 7.7                    | 2,268                            | 182                        | 2,320 | 1,189                               | 1,148  | .82  | 6.6  | 15.5              |  |
| <b>1990 Family Income</b>              |   |               |  |                              |                        |                                  |                            |       |                                     |  |      |      |                   |  |
| Less than \$10,000                     | .7  | 2.3           | .06  | .2                           | 5.8                    | 1,709                            | 140                        | 1,712 | 1,246                               | 1,209  | .80  | 6.5  | 14.2              |  |
| \$10,000 to \$19,999                   | 1.3                                       | 4.9           | .12  | .7                           | 5.4                    | 1,585                            | 130                        | 1,854 | 1,213                               | 1,145  | .70  | 5.8  | 8.1               |  |
| \$20,000 to \$34,999                   | 1.4                                       | 7.8           | .18  | .9                           | 7.4                    | 2,177                            | 167                        | 2,021 | 1,227                               | 1,160  | .88  | 6.7  | 8.2               |  |
| \$35,000 or More                       | 1.8                                       | 13.8          | .32  | 1.4                          | 9.0                    | 2,647                            | 210                        | 2,710 | 1,186                               | 1,111  | .82  | 6.5  | 8.2               |  |
| <b>Below Poverty Line</b>              |   |               |  |                              |                        |                                  |                            |       |                                     |  |      |      |                   |  |
| 100 Percent                            | 4   | 1.4           | .03  | .1                           | 6.3                    | 1,840                            | 148                        | 1,858 | 1,324                               | 1,276  | .75  | 6.0  | 15.5              |  |
| 125 Percent                            | 8   | 2.8           | .07  | .3                           | 5.7                    | 1,664                            | 137                        | 1,555 | 1,276                               | 1,230  | .84  | 6.9  | 11.6              |  |
| <b>Age of Householder</b>              |   |               |  |                              |                        |                                  |                            |       |                                     |  |      |      |                   |  |
| Under 35 Years                         | 1.4                                       | 6.4           | .15  | .7                           | 6.7                    | 1,978                            | 161                        | 1,952 | 1,189                               | 1,116  | .85  | 6.9  | 9.8               |  |
| 35 to 59 Years                         | 2.2                                       | 14.6          | .34  | 1.4                          | 9.0                    | 2,649                            | 208                        | 2,469 | 1,257                               | 1,179  | .85  | 6.7  | 7.2               |  |
| 60 Years and Over                      | 1.8                                       | 7.9           | .18  | 1.0                          | 6.2                    | 1,808                            | 142                        | 2,207 | 1,152                               | 1,100  | .71  | 5.6  | 8.2               |  |

See footnotes at end of table.

**MIDWEST**

**Table 47. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, Midwest Region Households, 1990 (Continued)**

| Characteristics         | Electricity Used for All Air Conditioning |                                  |                                      | Electricity Used for Central Air Conditioning <sup>1</sup> |               |       |                        |                                  |                            |                              |  |   | RSE Row Factors |
|-------------------------|---|----------------------------------|--------------------------------------|--|---------------|-------|------------------------|----------------------------------|----------------------------|------------------------------|--|---|-----------------|
|                         | Households (million)                      | Total Consumption (trillion Btu) | Total Expenditures (billion dollars) | Households (million)                                       | per Household |       |                        |                                  |                            |                              |  |   |                 |
|                         |   |                                  |                                      |  | Consumption   |       | Expenditures (dollars) | Cooled Floor-space (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity    |   |                 |
|                         |   |                                  |                                      |  | (million Btu) | (kWh) |                        |                                  | 1990                       | 30-Year Average <sup>2</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) |                 |
| RSE Column Factors:     | 1.0                                       | NF                               | NF                                   | 1.6  | NF            | NF    | NF                     | 0.9                              | 0.6                        | 0.6                          | NF                                     | NF  |                 |
| <b>Household Size</b>   |   |                                  |                                      |  |               |       |                        |                                  |                            |                              |  |   |                 |
| 1 Person .....          | 1.4                                       | 5.2                              | 0.12                                 | 0.7  | 5.5           | 1,606 | 131                    | 1,705                            | 1,185                      | 1,116                        | 0.79                                   | 6.5                                       | 10.1            |
| 2 to 4 Persons .....    | 3.5                                       | 21.4                             | .49                                  | 2.3  | 8.1           | 2,360 | 185                    | 2,410                            | 1,204                      | 1,137                        | .81                                    | 6.4                                       | 5.5             |
| 5 or More Persons ..... | .4  | 2.2                              | .05                                  | .2   | 10.4          | 3,051 | 254                    | 2,734                            | 1,363                      | 1,279                        | .82                                    | 6.8                                       | 17.1            |

<sup>1</sup> An estimated 2.0 million households have a central air conditioner and one or more room air conditioners. These households are included only under central air conditioners and not included under room air conditioners.

<sup>2</sup> The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>3</sup> Does not include all new construction for 1990.

<sup>4</sup> If a household has both a central and room air conditioner then the usage and age of the equipment is presented only for the central unit.

NC = No cases in sample.

(\*) = Data cannot be displayed due to rounding.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • This table reflects only those households that used their air conditioning equipment. See Appendix B, "Quality of the Data," in *Household Energy Consumption and Expenditures 1990* for a discussion of households that had air-conditioning equipment but did not use it. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 48. Electricity Consumption and Expenditures for Room Air Conditioning, per Midwest Region Household, 1990**

| Characteristics                             | House holds (million) | Consumption   |       | Expenditures (dollars) | Cooled Floorspace (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity    |   | RSE Row Factors |
|---|-----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|--|---|-----------------|
|   |                       | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) |                 |
|   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| RSE Column Factors:                         | 1.4                   | NF            | NF    | NF                     | 0.9                             | 0.5                        | 0.6                          | NF                                     | NF  |                 |
| <b>Midwest Region</b>                       |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| <b>Total Region</b> .....                   | 7.0                   | 1.9           | 569   | 49                     | 932                             | 855                        | 812                          | 0.71                                   | 6.2                                       | 6.6             |
| <b>Climate Zone<sup>1</sup></b>             |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 6.0                   | 1.7           | 508   | 44                     | 922                             | 790                        | 739                          | .70                                    | 6.0                                       | 6.6             |
| Under 5,500 HDD .....                       | 1.0                   | 3.2           | 936   | 82                     | 991                             | 1,245                      | 1,253                        | .76                                    | 6.7                                       | 13.2            |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                    | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                     | NC  | NC              |
| <b>Type of Housing Unit</b>                 |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Single-Family .....                         | 4.5                   | 2.0           | 599   | 49                     | 1,112                           | 847                        | 830                          | .64                                    | 5.2                                       | 6.6             |
| Mobile Home .....                           | .4                    | 3.1           | 915   | 82                     | 526                             | 793                        | 773                          | 2.19                                   | 19.6                                      | 19.2            |
| Multifamily (2 or more units) ..            | 2.2                   | 1.5           | 452   | 46                     | 637                             | 880                        | 783                          | .81                                    | 8.1                                       | 12.0            |
| <b>Heated Floorspace (square feet)</b>      |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Fewer than 1,000 .....                      | 2.5                   | 1.8           | 533   | 49                     | 562                             | 898                        | 830                          | 1.06                                   | 9.7                                       | 8.6             |
| 1,000 to 1,999 .....                        | 2.7                   | 1.8           | 527   | 45                     | 915                             | 831                        | 803                          | .69                                    | 5.9                                       | 7.2             |
| 2,000 or More .....                         | 1.8                   | 2.3           | 681   | 57                     | 1,475                           | 830                        | 801                          | .56                                    | 4.7                                       | 8.7             |
| <b>Ownership of Unit</b>                    |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Owned .....                                 | 4.5                   | 2.1           | 607   | 50                     | 1,058                           | 839                        | 808                          | .68                                    | 5.6                                       | 6.6             |
| Rented .....                                | 2.6                   | 1.7           | 504   | 49                     | 713                             | 883                        | 819                          | .80                                    | 7.8                                       | 7.6             |
| <b>Year of Construction</b>                 |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1949 or Before .....                        | 3.6                   | 1.9           | 545   | 48                     | 975                             | 885                        | 840                          | .63                                    | 5.6                                       | 6.6             |
| 1950 to 1979 .....                          | 2.9                   | 2.0           | 593   | 51                     | 922                             | 827                        | 780                          | .78                                    | 6.7                                       | 8.6             |
| 1980 or After <sup>2</sup> .....            | .5                    | 2.1           | 604   | 51                     | 673                             | 799                        | 802                          | 1.12                                   | 9.5                                       | 17.6            |
| <b>1990 Family Income</b>                   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Less than \$10,000 .....                    | 1.3                   | 1.8           | 536   | 48                     | 884                             | 920                        | 850                          | .66                                    | 5.9                                       | 9.5             |
| \$10,000 to \$19,999 .....                  | 1.7                   | 1.6           | 482   | 41                     | 777                             | 868                        | 840                          | .72                                    | 6.1                                       | 8.6             |
| \$20,000 to \$34,999 .....                  | 2.2                   | 1.8           | 539   | 47                     | 1,071                           | 807                        | 780                          | .62                                    | 5.4                                       | 8.3             |
| \$35,000 or More .....                      | 1.8                   | 2.4           | 712   | 61                     | 951                             | 851                        | 796                          | .88                                    | 7.6                                       | 8.9             |
| <b>Below Poverty Line</b>                   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 100 Percent .....                           | .8                    | 2.0           | 578   | 50                     | 762                             | 894                        | 838                          | .85                                    | 7.3                                       | 11.8            |
| 125 Percent .....                           | 1.2                   | 2.2           | 653   | 56                     | 878                             | 914                        | 858                          | .81                                    | 6.9                                       | 11.3            |
| <b>Age of Householder</b>                   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 35 Years .....                        | 2.1                   | 2.0           | 587   | 49                     | 869                             | 865                        | 836                          | .78                                    | 6.6                                       | 8.6             |
| 35 to 59 Years .....                        | 2.6                   | 2.2           | 650   | 57                     | 930                             | 823                        | 776                          | .85                                    | 7.4                                       | 7.7             |
| 60 Years and Over .....                     | 2.3                   | 1.6           | 462   | 41                     | 992                             | 881                        | 831                          | .53                                    | 4.7                                       | 8.8             |
| <b>Household Size</b>                       |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1 Person .....                              | 2.0                   | 1.5           | 433   | 41                     | 736                             | 905                        | 838                          | .65                                    | 6.1                                       | 10.1            |
| 2 to 4 Persons .....                        | 4.5                   | 2.1           | 619   | 53                     | 1,030                           | 836                        | 805                          | .72                                    | 6.1                                       | 6.8             |
| 5 or More Persons .....                     | .6                    | 2.2           | 641   | 54                     | 839                             | 832                        | 779                          | .92                                    | 7.7                                       | 14.0            |
| <b>Cooling Degree-Days (CDD)-1990</b>       |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 2,000 or More .....                         | NC                    | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                     | NC  | NC              |
| 1,000 to 1,999 .....                        | 2.1                   | 2.6           | 750   | 68                     | 931                             | 1,200                      | 1,125                        | .67                                    | 6.1                                       | 9.0             |
| 500 to 999 .....                            | 4.7                   | 1.7           | 504   | 43                     | 944                             | 727                        | 697                          | .73                                    | 6.2                                       | 6.7             |
| Fewer than 500 .....                        | .3                    | .9            | 275   | 20                     | 734                             | 353                        | 350                          | 1.06                                   | 7.7                                       | 16.5            |

See footnotes at end of table.

Table 48. Electricity Consumption and Expenditures for Room Air Conditioning, per Midwest Region Household, 1990 (Continued)

| Characteristics  | Consumption           |               | Expenditures (dollars) |           | Cooled Floorspace (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity    |   | RSE Row Factors |
|--|-----------------------|---------------|------------------------|-----------|---------------------------------|----------------------------|------------------------------|--|---|-----------------|
|  | House holds (million) | (million Btu) | (kWh)                  | (dollars) |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) |                 |
|  | 1.4                   | NF            | NF                     | NF        | 0.9                             | 0.5                        | 0.6                          | NF                                     | NF  |                 |
| Midwest Region   |                       |               |                        |           |                                 |                            |                              |  |   |                 |
| <b>Average Humidity for June, July and August 1990 (percent)</b> |                       |               |                        |           |                                 |                            |                              |  |   |                 |
| Less than 65 .....   | Q                     | Q             | Q                      | Q         | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| 65 to Less than 70 .....   | 2.4                   | 1.9           | 556                    | 53        | 910                             | 909                        | 830                          | 0.67                                   | 6.4                                       | 11.0            |
| 70 or Higher .....   | 4.4                   | 2.0           | 582                    | 48        | 959                             | 818                        | 796                          | .74                                    | 6.1                                       | 8.1             |
| <b>Average Electricity Expenditures (cents per kWh)</b>          |                       |               |                        |           |                                 |                            |                              |  |   |                 |
| Less than 6 .....  | 4                     | 2.0           | 577                    | 31        | 969                             | 739                        | 748                          | .81                                    | 4.3                                       | 14.7            |
| 6 to Less than 9 .....   | 3.8                   | 2.1           | 602                    | 45        | 1,043                           | 848                        | 816                          | .68                                    | 5.0                                       | 6.9             |
| 9 or More .....  | 2.9                   | 1.8           | 526                    | 58        | 784                             | 879                        | 816                          | .76                                    | 8.4                                       | 10.7            |
| <b>Number of Rooms Usually Air Conditioned</b>                   |                       |               |                        |           |                                 |                            |                              |  |   |                 |
| 1 Room .....   | 1.5                   | 1.2           | 361                    | 30        | 325                             | 790                        | 755                          | 1.40                                   | 11.8                                      | 5.9             |
| 2 Rooms .....  | 1.7                   | 1.5           | 432                    | 39        | 610                             | 862                        | 807                          | .82                                    | 7.4                                       | 8.4             |
| 3 or More .....  | 3.9                   | 2.4           | 707                    | 61        | 1,302                           | 876                        | 836                          | .62                                    | 5.4                                       | 6.6             |
| <b>Frequency of Use of Air Conditioning</b>                      |                       |               |                        |           |                                 |                            |                              |  |   |                 |
| Only a Few Times .....   | 4.9                   | 1.0           | 300                    | 26        | 912                             | 821                        | 781                          | .40                                    | 3.5                                       | 4.6             |
| Quite a Bit .....  | 1.4                   | 3.5           | 1,028                  | 94        | 1,028                           | 917                        | 864                          | 1.09                                   | 9.9                                       | 8.0             |
| All Summer .....   | .8                    | 5.1           | 1,490                  | 121       | 892                             | 953                        | 918                          | 1.75                                   | 14.3                                      | 10.3            |
| Other .....  | Q                     | Q             | Q                      | Q         | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| <b>Age of Air Conditioning Equipment</b>                         |                       |               |                        |           |                                 |                            |                              |  |   |                 |
| Less than 5 Years .....  | 2.3                   | 2.2           | 635                    | 57        | 963                             | 874                        | 841                          | .75                                    | 6.7                                       | 8.4             |
| 5 to 9 Years .....   | 1.8                   | 1.9           | 566                    | 46        | 980                             | 866                        | 820                          | .67                                    | 5.4                                       | 7.9             |
| 10 or More Years .....   | 2.1                   | 1.8           | 541                    | 46        | 963                             | 844                        | 798                          | .67                                    | 5.6                                       | 7.9             |
| Don't Know .....   | .9                    | 1.6           | 471                    | 46        | 685                             | 808                        | 758                          | .85                                    | 8.3                                       | 12.7            |
| <b>Size of Most-Used Room Air Conditioner</b>                    |                       |               |                        |           |                                 |                            |                              |  |   |                 |
| Small .....  | 2.1                   | 1.6           | 465                    | 40        | 595                             | 801                        | 778                          | .98                                    | 8.3                                       | 6.6             |
| Medium .....   | 3.4                   | 1.9           | 544                    | 48        | 987                             | 854                        | 792                          | .65                                    | 5.7                                       | 7.2             |
| Large .....  | 1.3                   | 2.7           | 787                    | 66        | 1,365                           | 895                        | 883                          | .64                                    | 5.4                                       | 9.5             |
| Don't Know .....   | .2                    | 2.2           | 654                    | 61        | 742                             | 1,116                      | 1,022                        | .79                                    | 7.4                                       | 29.1            |
| <b>Number of Room Air Conditioners</b>                           |                       |               |                        |           |                                 |                            |                              |  |   |                 |
| 1 .....  | 5.3                   | 1.9           | 543                    | 48        | 856                             | 858                        | 815                          | .74                                    | 6.6                                       | 6.9             |
| 2 .....  | 1.6                   | 2.3           | 660                    | 53        | 1,172                           | 837                        | 793                          | .67                                    | 5.4                                       | 9.1             |
| 3 or More .....  | Q                     | Q             | Q                      | Q         | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |

See footnotes at end of table.

**Table 48. Electricity Consumption and Expenditures for Room Air Conditioning, per Midwest Region Household, 1990 (Continued)**

| Characteristics                             | House holds (million) | Consumption   |       | Expenditures (dollars) | Cooled Floorspace (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity    |   | RSE Row Factors |
|---|-----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|--|---|-----------------|
|   |                       | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) |                 |
| RSE Column Factors:                         | 1.4                   | NF            | NF    | NF                     | 0.9                             | 0.5                        | 0.6                          | NF                                     | NF  |                 |
| <b>East North Central Division ...</b>      | 5.0                   | 1.9           | 557   | 50                     | 936                             | 788                        | 758                          | 0.76                                   | 6.8                                       | 8.0             |
| <b>Climate Zone<sup>1</sup></b>             |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 4.6                   | 1.8           | 514   | 46                     | 911                             | 762                        | 721                          | .74                                    | 6.6                                       | 8.0             |
| Under 5,500 HDD .....                       | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                    | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                     | NC  | NC              |
| <b>Type of Housing Unit</b>                 |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Single-Family .....                         | 3.1                   | 2.0           | 576   | 47                     | 1,133                           | 758                        | 763                          | .67                                    | 5.5                                       | 8.7             |
| Mobile Home .....                           | .2                    | Q             | Q     | Q                      | 510                             | 769                        | 768                          | 2.63                                   | 24.5                                      | 20.4            |
| Multifamily (2 or more units) ..            | 1.6                   | 1.5           | 449   | 50                     | 613                             | 848                        | 748                          | .86                                    | 9.5                                       | 14.2            |
| <b>Heated Floorspace (square feet)</b>      |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Fewer than 1,000 .....                      | 1.7                   | 1.8           | 522   | 51                     | 565                             | 816                        | 754                          | 1.13                                   | 11.0                                      | 11.6            |
| 1,000 to 1,999 .....                        | 1.9                   | 1.7           | 503   | 43                     | 906                             | 764                        | 754                          | .73                                    | 6.3                                       | 9.3             |
| 2,000 or More .....                         | 1.4                   | 2.3           | 677   | 59                     | 1,446                           | 787                        | 771                          | .59                                    | 5.2                                       | 10.5            |
| <b>Ownership of Unit</b>                    |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Owned .....                                 | 3.2                   | 2.0           | 588   | 49                     | 1,060                           | 774                        | 760                          | .72                                    | 6.0                                       | 8.6             |
| Rented .....                                | 1.7                   | 1.7           | 499   | 52                     | 705                             | 813                        | 756                          | .87                                    | 9.0                                       | 9.9             |
| <b>Year of Construction</b>                 |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1949 or Before .....                        | 2.6                   | 1.9           | 554   | 51                     | 983                             | 817                        | 780                          | .69                                    | 6.3                                       | 8.7             |
| 1950 to 1979 .....                          | 2.0                   | 1.9           | 558   | 50                     | 926                             | 765                        | 736                          | .79                                    | 7.0                                       | 11.2            |
| 1980 or After <sup>2</sup> .....            | .4                    | 1.9           | 566   | 50                     | 692                             | 717                        | 729                          | 1.14                                   | 10.1                                      | 21.1            |
| <b>1990 Family Income</b>                   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Less than \$10,000 .....                    | .8                    | 1.8           | 521   | 48                     | 1,009                           | 789                        | 715                          | .65                                    | 6.0                                       | 12.3            |
| \$10,000 to \$19,999 .....                  | 1.1                   | 1.5           | 454   | 42                     | 731                             | 776                        | 766                          | .80                                    | 7.4                                       | 12.0            |
| \$20,000 to \$34,999 .....                  | 1.6                   | 1.7           | 501   | 45                     | 1,094                           | 756                        | 745                          | .61                                    | 5.4                                       | 10.7            |
| \$35,000 or More .....                      | 1.4                   | 2.5           | 722   | 64                     | 876                             | 833                        | 794                          | .99                                    | 8.7                                       | 10.4            |
| <b>Below Poverty Line</b>                   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 100 Percent .....                           | .5                    | 2.0           | 578   | 50                     | 832                             | 761                        | 707                          | .91                                    | 7.9                                       | 16.4            |
| 125 Percent .....                           | .8                    | 2.1           | 622   | 55                     | 946                             | 774                        | 722                          | .85                                    | 7.6                                       | 15.1            |
| <b>Age of Householder</b>                   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 35 Years .....                        | 1.5                   | 2.0           | 581   | 49                     | 878                             | 794                        | 783                          | .83                                    | 7.0                                       | 11.5            |
| 35 to 59 Years .....                        | 1.9                   | 2.3           | 665   | 61                     | 897                             | 784                        | 750                          | .95                                    | 8.6                                       | 10.1            |
| 60 Years and Over .....                     | 1.6                   | 1.4           | 407   | 39                     | 1,035                           | 787                        | 746                          | .50                                    | 4.8                                       | 11.7            |
| <b>Household Size</b>                       |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1 Person .....                              | 1.3                   | 1.4           | 403   | 41                     | 754                             | 809                        | 741                          | .66                                    | 6.8                                       | 12.5            |
| 2 to 4 Persons .....                        | 3.3                   | 2.1           | 613   | 54                     | 1,040                           | 783                        | 769                          | .75                                    | 6.6                                       | 8.9             |
| 5 or More Persons .....                     | .4                    | 2.0           | 580   | 49                     | 651                             | 760                        | 731                          | 1.17                                   | 10.0                                      | 19.9            |

See footnotes at end of table.

**Table 48. Electricity Consumption and Expenditures for Room Air Conditioning, per Midwest Region Household, 1990 (Continued)**

| Characteristics                        | House holds (million) | Consumption   |       | Expenditures (dollars) | Cooled Floorspace (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity    |   | RSE Row Factors |
|--|-----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|--|---|-----------------|
|  |                       | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) |                 |
| RSE Column Factors:                    | 1.4                   | NF            | NF    | NF                     | 0.9                             | 0.5                        | 0.6                          | NF                                     | NF  |                 |
| <b>West North Central Division</b>     | 2.1                   | 2.0           | 599   | 47                     | 923                             | 1,018                      | 943                          | 0.64                                   | 5.1                                       | 7.8             |
| <b>Climate Zone<sup>1</sup></b>        |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 2,000 CDD and Over 5,500 HDD     | 1.5                   | 1.7           | 490   | 38                     | 958                             | 880                        | 796                          | .58                                    | 4.5                                       | 8.7             |
| Under 5,500 HDD                        | .6                    | 3.0           | 866   | 70                     | 836                             | 1,357                      | 1,306                        | .76                                    | 6.2                                       | 14.6            |
| 2,000 CDD or More and Under 4,000 HDD  | NC                    | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                     | NC  | NC              |
| <b>Type of Housing Unit</b>            |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Single-Family                          | 1.3                   | 2.2           | 654   | 52                     | 1,061                           | 1,058                      | 991                          | .58                                    | 4.7                                       | 9.2             |
| Mobile Home                            | .1                    | 2.4           | 692   | 54                     | 555                             | 839                        | 781                          | 1.49                                   | 11.6                                      | 25.2            |
| Multifamily (2 or more units)          | .6                    | 1.6           | 459   | 35                     | 698                             | 966                        | 873                          | .68                                    | 5.2                                       | 13.5            |
| <b>Heated Floorspace (square feet)</b> |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Fewer than 1,000                       | .8                    | 1.9           | 556   | 46                     | 558                             | 1,065                      | 985                          | .94                                    | 7.7                                       | 9.0             |
| 1,000 to 1,999                         | .7                    | 2.0           | 589   | 47                     | 939                             | 1,003                      | 930                          | .63                                    | 5.0                                       | 9.0             |
| 2,000 or More                          | .5                    | 2.4           | 692   | 51                     | 1,559                           | 955                        | 889                          | .46                                    | 3.4                                       | 14.9            |
| <b>Ownership of Unit</b>               |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Owned                                  | 1.2                   | 2.2           | 657   | 51                     | 1,053                           | 1,010                      | 938                          | .62                                    | 4.8                                       | 8.6             |
| Rented                                 | .8                    | 1.8           | 514   | 43                     | 731                             | 1,028                      | 951                          | .68                                    | 5.7                                       | 9.3             |
| <b>Year of Construction</b>            |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1949 or Before                         | 1.0                   | 1.8           | 523   | 41                     | 956                             | 1,054                      | 988                          | .52                                    | 4.1                                       | 9.7             |
| 1950 to 1979                           | .9                    | 2.3           | 666   | 54                     | 913                             | 957                        | 871                          | .76                                    | 6.1                                       | 12.5            |
| 1980 or After <sup>2</sup>             | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| <b>1990 Family Income</b>              |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Less than \$10,000                     | .5                    | 1.9           | 560   | 48                     | 674                             | 1,140                      | 1,076                        | .73                                    | 6.2                                       | 9.4             |
| \$10,000 to \$19,999                   | .6                    | 1.8           | 536   | 40                     | 863                             | 1,038                      | 978                          | .60                                    | 4.5                                       | 12.0            |
| \$20,000 to \$34,999                   | .5                    | 2.2           | 650   | 52                     | 1,005                           | 956                        | 883                          | .68                                    | 5.4                                       | 9.8             |
| \$35,000 or More                       | .4                    | 2.3           | 674   | 51                     | 1,219                           | 917                        | 803                          | .60                                    | 4.6                                       | 14.8            |
| <b>Below Poverty Line</b>              |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 100 Percent                            | .3                    | 2.0           | 578   | 49                     | 635                             | 1,134                      | 1,078                        | .80                                    | 6.8                                       | 11.4            |
| 125 Percent                            | .5                    | 2.4           | 701   | 56                     | 773                             | 1,132                      | 1,070                        | .80                                    | 6.4                                       | 13.8            |
| <b>Age of Householder</b>              |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 35 Years                         | .6                    | 2.1           | 603   | 51                     | 849                             | 1,034                      | 964                          | .69                                    | 5.8                                       | 11.1            |
| 35 to 59 Years                         | .7                    | 2.1           | 610   | 47                     | 1,017                           | 928                        | 847                          | .65                                    | 5.0                                       | 9.0             |
| 60 Years and Over                      | .7                    | 2.0           | 584   | 45                     | 895                             | 1,092                      | 1,020                        | .60                                    | 4.6                                       | 11.3            |
| <b>Household Size</b>                  |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1 Person                               | .7                    | 1.7           | 486   | 39                     | 704                             | 1,081                      | 1,015                        | .64                                    | 5.2                                       | 12.3            |
| 2 to 4 Persons                         | 1.2                   | 2.2           | 638   | 50                     | 1,001                           | 984                        | 910                          | .65                                    | 5.0                                       | 8.5             |
| 5 or More Persons                      | .2                    | 2.6           | 773   | 64                     | 1,250                           | 990                        | 885                          | .62                                    | 5.2                                       | 18.8            |

<sup>1</sup> The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • This table reflects only those households that used their air conditioning equipment. See Appendix B, "Quality of the Data," in *Household Energy Consumption and Expenditures 1990* for a discussion of households that had air-conditioning equipment but did not use it. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**WATER-HEATING CONSUMPTION/EXPENDITURES**

**Table 49. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in Midwest Region Households, 1990**

| Characteristics                             | Electricity          |                |               |                                      | Natural Gas          |                |                      |                                      | RSE: Row Factors |
|---|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|------------------|
|   | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                  |
|   |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |                  |
| RSE Column Factors:                         | 1.3                  | NF             | NF            | NF                                   | 0.7                  | NF             | NF                   | NF                                   |                  |
| <b>Midwest Region</b>                       |                      |                |               |                                      |                      |                |                      |                                      |                  |
| <b>Total Region</b> .....                   | 7.2                  | 75.3           | 22.1          | 1.57                                 | 14.8                 | 364.5          | 357                  | 1.78                                 | 8.7              |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Under 2,000 CDD and Over 5,500 HDD .....    | 6.2                  | 65.5           | 19.2          | 1.35                                 | 12.8                 | 318.4          | 312                  | 1.55                                 | 10.6             |
| Under 5,500 HDD .....                       | 1.1                  | 9.9            | 2.9           | .22                                  | 2.0                  | 46.1           | 46                   | .23                                  | 22.5             |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                   | NC             | NC            | NC                                   | NC                   | NC             | NC                   | NC                                   | NC               |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Single-Family .....                         | 4.8                  | 55.3           | 16.2          | 1.10                                 | 10.3                 | 260.3          | 256                  | 1.27                                 | 11.2             |
| Mobile Home .....                           | .9                   | 8.8            | 2.6           | .22                                  | .6                   | 13.6           | 13                   | .07                                  | 30.2             |
| Multifamily (2 or more units) ..            | 1.5                  | 11.2           | 3.3           | .25                                  | 3.9                  | 90.7           | 88                   | .44                                  | 15.3             |
| <b>Heated Floorspace (square feet)</b>      |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Fewer than 1,000 .....                      | 2.4                  | 21.0           | 6.2           | .47                                  | 3.9                  | 84.2           | 82                   | .41                                  | 15.3             |
| 1,000 to 1,999 .....                        | 2.8                  | 28.3           | 8.3           | .57                                  | 5.6                  | 133.7          | 131                  | .66                                  | 8.5              |
| 2,000 or More .....                         | 2.1                  | 26.0           | 7.6           | .53                                  | 5.3                  | 146.6          | 144                  | .70                                  | 12.4             |
| <b>Ownership of Unit</b>                    |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Owned .....                                 | 5.6                  | 61.2           | 17.9          | 1.25                                 | 9.8                  | 248.1          | 244                  | 1.21                                 | 9.4              |
| Rented .....                                | 1.6                  | 14.1           | 4.1           | .32                                  | 5.0                  | 116.4          | 114                  | .57                                  | 13.0             |
| <b>Year of Construction</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                  |
| 1949 or Before .....                        | 2.3                  | 24.5           | 7.2           | .51                                  | 6.3                  | 150.0          | 147                  | .74                                  | 11.3             |
| 1950 to 1979 .....                          | 3.9                  | 39.2           | 11.5          | .81                                  | 7.1                  | 171.3          | 168                  | .83                                  | 11.2             |
| 1980 or After .....                         | 1.1                  | 11.6           | 3.4           | .25                                  | 1.5                  | 43.2           | 42                   | .20                                  | 21.3             |
| <b>1990 Family Income</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Less than \$10,000 .....                    | 1.0                  | 7.9            | 2.3           | .17                                  | 2.5                  | 54.8           | 54                   | .27                                  | 19.8             |
| \$10,000 to \$19,999 .....                  | 1.6                  | 13.6           | 4.0           | .30                                  | 3.3                  | 83.3           | 62                   | .31                                  | 13.0             |
| \$20,000 to \$34,999 .....                  | 2.2                  | 24.1           | 7.1           | .50                                  | 3.9                  | 92.0           | 90                   | .45                                  | 13.4             |
| \$35,000 or More .....                      | 2.4                  | 28.7           | 8.7           | .59                                  | 5.1                  | 154.4          | 152                  | .74                                  | 12.4             |
| <b>Below Poverty Line</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                  |
| 100 Percent .....                           | .7                   | 6.3            | 1.9           | .14                                  | 1.6                  | 41.8           | 41                   | .21                                  | 18.7             |
| 125 Percent .....                           | 1.0                  | 9.3            | 2.7           | .20                                  | 2.4                  | 57.2           | 56                   | .28                                  | 16.3             |
| <b>Age of Householder</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Under 35 Years .....                        | 2.1                  | 22.4           | 6.6           | .47                                  | 4.3                  | 114.2          | 112                  | .56                                  | 14.5             |
| 35 to 59 Years .....                        | 2.9                  | 36.0           | 10.6          | .75                                  | 6.1                  | 177.7          | 174                  | .86                                  | 9.8              |
| 60 Years and Over .....                     | 2.2                  | 18.9           | 4.9           | .35                                  | 4.4                  | 72.5           | 71                   | .36                                  | 12.0             |
| <b>Household Size</b>                       |                      |                |               |                                      |                      |                |                      |                                      |                  |
| 1 Person .....                              | 1.7                  | 10.0           | 2.9           | .23                                  | 4.1                  | 64.6           | 63                   | .32                                  | 15.6             |
| 2 to 4 Persons .....                        | 4.9                  | 55.8           | 16.4          | 1.16                                 | 9.5                  | 252.5          | 248                  | 1.23                                 | 7.3              |
| 5 or More Persons .....                     | .5                   | 9.6            | 2.8           | .18                                  | 1.2                  | 47.4           | 46                   | .23                                  | 26.4             |

See footnotes at end of table.

**MIDWEST**



WATER-HEATING CONSUMPTION/EXPENDITURES

MIDWEST

Table 49. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in Midwest Region Households, 1990 (Continued)

| Characteristics                             | Electricity          |                |               |                                      |                      | Natural Gas    |                      |                                      |      | RSE Row Factors |
|---|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|------|-----------------|
|   | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |      |                 |
|   |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |      |                 |
|   |                      |                |               |                                      |                      |                |                      |                                      | NF   |                 |
| RSE Column Factors:                         | 1.3                  | NF             | NF            | NF                                   | 0.7                  | NF             | NF                   | NF                                   | NF   |                 |
| <b>East North Central Division</b> .....    | 5.6                  | 59.2           | 17.4          | 1.23                                 | 10.4                 | 267.9          | 262                  | 1.32                                 | 11.0 |                 |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                      |                      |                |                      |                                      |      |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 5.3                  | 56.5           | 16.5          | 1.16                                 | 9.9                  | 257.2          | 251                  | 1.27                                 | 12.3 |                 |
| Under 5,500 HDD .....                       | Q                    | Q              | Q             | Q                                    | Q                    | Q              | Q                    | Q                                    | NF   |                 |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                   | NC             | NC            | NC                                   | NC                   | NC             | NC                   | NC                                   | NC   |                 |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                      |                      |                |                      |                                      |      |                 |
| Single-Family .....                         | 3.6                  | 42.8           | 12.5          | .84                                  | 7.1                  | 188.8          | 184                  | .92                                  | 14.5 |                 |
| Mobile Home .....                           | 7                    | 7.1            | 2.1           | .18                                  | .4                   | 9.4            | 9                    | .05                                  | 37.8 |                 |
| Multifamily (2 or more units) .....         | 1.3                  | 9.3            | 2.7           | .22                                  | 2.8                  | 69.7           | 68                   | .35                                  | 17.7 |                 |
| <b>Heated Floorspace (square feet)</b>      |                      |                |               |                                      |                      |                |                      |                                      |      |                 |
| Fewer than 1,000 .....                      | 2.0                  | 17.5           | 5.1           | .40                                  | 2.6                  | 59.4           | 58                   | .30                                  | 19.1 |                 |
| 1,000 to 1,999 .....                        | 2.1                  | 21.6           | 6.3           | .44                                  | 3.9                  | 98.0           | 96                   | .50                                  | 9.9  |                 |
| 2,000 or More .....                         | 1.5                  | 20.1           | 5.9           | .40                                  | 3.8                  | 110.5          | 108                  | .53                                  | 16.0 |                 |
| <b>Ownership of Unit</b>                    |                      |                |               |                                      |                      |                |                      |                                      |      |                 |
| Owned .....                                 | 4.4                  | 48.3           | 14.2          | .98                                  | 6.9                  | 182.9          | 179                  | .90                                  | 11.8 |                 |
| Rented .....                                | 1.2                  | 10.9           | 3.2           | .25                                  | 3.5                  | 85.0           | 83                   | .42                                  | 15.6 |                 |
| <b>Year of Construction</b>                 |                      |                |               |                                      |                      |                |                      |                                      |      |                 |
| 1949 or Before .....                        | 1.8                  | 19.7           | 5.8           | .40                                  | 4.7                  | 114.7          | 112                  | .58                                  | 13.6 |                 |
| 1950 to 1979 .....                          | 2.9                  | 29.8           | 8.7           | .62                                  | 4.7                  | 119.7          | 117                  | .59                                  | 14.7 |                 |
| 1980 or After <sup>2</sup> .....            | .9                   | 9.7            | 2.8           | .21                                  | 1.0                  | 33.5           | 33                   | .15                                  | 24.9 |                 |
| <b>1990 Family Income</b>                   |                      |                |               |                                      |                      |                |                      |                                      |      |                 |
| Less than \$10,000 .....                    | .8                   | 6.2            | 1.8           | .13                                  | 1.7                  | 41.6           | 41                   | .21                                  | 25.2 |                 |
| \$10,000 to \$19,999 .....                  | 1.2                  | 10.7           | 3.1           | .24                                  | 2.2                  | 42.4           | 41                   | .21                                  | 16.8 |                 |
| \$20,000 to \$34,999 .....                  | 1.8                  | 19.6           | 5.8           | .42                                  | 2.6                  | 63.0           | 61                   | .32                                  | 16.7 |                 |
| \$35,000 or More .....                      | 1.8                  | 22.7           | 6.7           | .45                                  | 3.8                  | 120.9          | 118                  | .58                                  | 15.9 |                 |
| <b>Below Poverty Line</b>                   |                      |                |               |                                      |                      |                |                      |                                      |      |                 |
| 100 Percent .....                           | .6                   | 5.1            | 1.5           | .11                                  | 1.2                  | 33.4           | 33                   | .17                                  | 22.4 |                 |
| 125 Percent .....                           | .8                   | 7.2            | 2.1           | .15                                  | 1.7                  | 43.7           | 43                   | .22                                  | 20.6 |                 |
| <b>Age of Householder</b>                   |                      |                |               |                                      |                      |                |                      |                                      |      |                 |
| Under 35 Years .....                        | 1.7                  | 18.5           | 5.4           | .38                                  | 3.1                  | 84.1           | 82                   | .42                                  | 18.2 |                 |
| 35 to 59 Years .....                        | 2.2                  | 27.4           | 8.0           | .57                                  | 4.4                  | 133.2          | 130                  | .65                                  | 12.2 |                 |
| 60 Years and Over .....                     | 1.7                  | 13.4           | 3.9           | .28                                  | 2.9                  | 50.6           | 49                   | .26                                  | 14.9 |                 |
| <b>Household Size</b>                       |                      |                |               |                                      |                      |                |                      |                                      |      |                 |
| 1 Person .....                              | 1.4                  | 7.9            | 2.3           | .19                                  | 2.7                  | 44.2           | 43                   | .22                                  | 20.7 |                 |
| 2 to 4 Persons .....                        | 3.8                  | 43.0           | 12.6          | .90                                  | 6.7                  | 184.7          | 181                  | .91                                  | 9.9  |                 |
| 5 or More Persons .....                     | .5                   | 8.3            | 2.4           | .15                                  | 1.0                  | 39.1           | 38                   | .19                                  | 31.0 |                 |

See footnotes at end of table.

# WATER-HEATING CONSUMPTION/EXPENDITURES

**Table 49. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in Midwest Region Households, 1990 (Continued)**

| Characteristics                        | Electricity          |                |               |                                      | Natural Gas          |                |                      |                                      | RSE Row Factors |
|--|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|-----------------|
|  | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                 |
|  |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |                 |
| RSE Column Factors:                    | 1.3                  | NF             | NF            | NF                                   | 0.7                  | NF             | NF                   | NF                                   |                 |
| <b>West North Central Division</b>     | 1.6                  | 16.1           | 4.7           | 0.34                                 | 4.4                  | 96.6           | 96                   | 0.46                                 | 9.4             |
| <b>Climate Zone<sup>1</sup></b>        |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 2,000 CDD and Over 5,500 HDD     | .9                   | 9.0            | 2.6           | .19                                  | 2.9                  | 61.2           | 61                   | .28                                  | 13.0            |
| Under 5,500 HDD and 2,000 CDD or More  | .7                   | 7.1            | 2.1           | .15                                  | 1.5                  | 35.4           | 35                   | .18                                  | 15.6            |
| Under 4,000 HDD                        | NC                   | NC             | NC            | NC                                   | NC                   | NC             | NC                   | NC                                   | NC              |
| <b>Type of Housing Unit</b>            |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Single-Family                          | 1.3                  | 12.6           | 3.7           | .26                                  | 3.1                  | 71.5           | 71                   | .34                                  | 11.6            |
| Mobile Home                            | .2                   | 1.7            | .5            | .03                                  | .2                   | 4.2            | 4                    | .02                                  | 39.6            |
| Multifamily (2 or more units)          | .2                   | 1.8            | .5            | .04                                  | 1.1                  | 21.0           | 21                   | .10                                  | 20.0            |
| <b>Heated Floorspace (square feet)</b> |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Fewer than 1,000                       | .4                   | 3.5            | 1.0           | .07                                  | 1.3                  | 24.8           | 25                   | .12                                  | 13.4            |
| 1,000 to 1,999                         | .7                   | 6.6            | 1.9           | .14                                  | 1.7                  | 35.7           | 35                   | .17                                  | 12.3            |
| 2,000 or More                          | .6                   | 6.0            | 1.8           | .13                                  | 1.5                  | 36.1           | 36                   | .17                                  | 13.9            |
| <b>Ownership of Unit</b>               |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Owned                                  | 1.2                  | 12.9           | 3.8           | .27                                  | 3.0                  | 65.2           | 65                   | .31                                  | 12.4            |
| Rented                                 | .4                   | 3.2            | .9            | .07                                  | 1.5                  | 31.4           | 31                   | .14                                  | 18.4            |
| <b>Year of Construction</b>            |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1949 or Before                         | .5                   | 4.8            | 1.4           | .10                                  | 1.6                  | 35.3           | 35                   | .16                                  | 14.7            |
| 1950 to 1979                           | .9                   | 9.3            | 2.7           | .19                                  | 2.4                  | 51.6           | 51                   | .25                                  | 10.2            |
| 1980 or After                          | .2                   | 2.0            | .6            | .04                                  | .4                   | 9.7            | 10                   | .05                                  | 33.3            |
| <b>1990 Family Income</b>              |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Less than \$10,000                     | .2                   | 1.7            | .5            | .04                                  | .8                   | 13.2           | 13                   | .06                                  | 18.3            |
| \$10,000 to \$19,999                   | .4                   | 3.0            | .9            | .06                                  | 1.1                  | 20.9           | 21                   | .10                                  | 14.5            |
| \$20,000 to \$34,999                   | .4                   | 4.4            | 1.3           | .09                                  | 1.2                  | 29.0           | 29                   | .13                                  | 14.7            |
| \$35,000 or More                       | .6                   | 7.0            | 2.0           | .14                                  | 1.3                  | 33.6           | 33                   | .16                                  | 14.7            |
| <b>Below Poverty Line</b>              |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 100 Percent                            | .1                   | 1.2            | .4            | .03                                  | .4                   | 8.4            | 8                    | .04                                  | 24.0            |
| 125 Percent                            | .2                   | 2.1            | .6            | .05                                  | .7                   | 13.5           | 13                   | .06                                  | 18.6            |
| <b>Age of Householder</b>              |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 35 Years                         | .4                   | 3.9            | 1.1           | .08                                  | 1.3                  | 30.2           | 30                   | .15                                  | 14.6            |
| 35 to 59 Years                         | .8                   | 8.7            | 2.5           | .18                                  | 1.7                  | 44.5           | 44                   | .21                                  | 13.0            |
| 60 Years and Over                      | .5                   | 3.5            | 1.0           | .07                                  | 1.4                  | 21.9           | 22                   | .10                                  | 17.3            |
| <b>Household Size</b>                  |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1 Person                               | .4                   | 2.1            | .6            | .05                                  | 1.4                  | 20.5           | 20                   | .09                                  | 12.7            |
| 2 to 4 Persons                         | 1.2                  | 12.8           | 3.8           | .26                                  | 2.8                  | 67.8           | 67                   | .32                                  | 9.6             |
| 5 or More Persons                      | .1                   | 1.2            | .4            | .03                                  | .3                   | 8.3            | 8                    | .04                                  | 28.9            |

1 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

2 Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

<sup>1</sup>Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, E, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 50. Total LPG Consumption and Expenditures for Water Heating in Midwest Region Households, 1990

| Characteristics                             | Households (million) | Total Consumed |                   | Total Expenditures (billion dollars) | RSE Row Factors |
|---|----------------------|----------------|-------------------|--------------------------------------|-----------------|
|   |                      | (trillion Btu) | (billion gallons) |                                      |                 |
| RSE Column Factors:                         | 1.0                  | NF             | NF                | NF                                   |                 |
| Midwest Region                              |                      |                |                   |                                      |                 |
| <b>Total Region</b> .....                   | 1.2                  | 24.9           | 0.27              | 0.24                                 | 23.6            |
| East North Central Division .....           | .7                   | 14.8           | .16               | .15                                  | 31.8            |
| West North Central Division .....           | .5                   | 10.1           | .11               | .09                                  | 33.5            |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |                   |                                      |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | .8                   | 17.3           | .19               | .17                                  | 25.2            |
| Under 5,500 HDD .....                       | Q                    | Q              | Q                 | Q                                    | NF              |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                   | NC             | NC                | NC                                   | NC              |
| <b>Type of Housing Unit</b>                 |                      |                |                   |                                      |                 |
| Single-Family .....                         | 1.1                  | 22.6           | .25               | .22                                  | 25.2            |
| Mobile Home .....                           | Q                    | Q              | Q                 | Q                                    | NF              |
| Multifamily (2 or more units) .....         | Q                    | Q              | Q                 | Q                                    | NF              |
| <b>Heated Floorspace (square feet)</b>      |                      |                |                   |                                      |                 |
| Fewer than 1,000 .....                      | .3                   | 4.4            | .05               | .04                                  | 32.7            |
| 1,000 to 1,999 .....                        | .5                   | 11.7           | .13               | .11                                  | 29.2            |
| 2,000 or More .....                         | .4                   | 8.8            | .10               | .08                                  | 28.6            |
| <b>Ownership of Unit</b>                    |                      |                |                   |                                      |                 |
| Owned .....                                 | 1.1                  | 22.6           | .25               | .22                                  | 22.8            |
| Rented .....                                | Q                    | Q              | Q                 | Q                                    | NF              |
| <b>Year of Construction</b>                 |                      |                |                   |                                      |                 |
| 1949 or Before .....                        | .5                   | 10.4           | .11               | .10                                  | 25.6            |
| 1950 to 1979 .....                          | .4                   | 7.9            | .09               | .08                                  | 32.5            |
| 1980 or After <sup>2</sup> .....            | .3                   | 6.6            | .07               | .06                                  | 27.3            |
| <b>1990 Family Income</b>                   |                      |                |                   |                                      |                 |
| Less than \$10,000 .....                    | .2                   | 3.6            | .04               | Q                                    | 47.3            |
| \$10,000 to \$19,999 .....                  | .2                   | 4.4            | .05               | .04                                  | 24.5            |
| \$20,000 to \$34,999 .....                  | .4                   | 8.5            | .09               | .08                                  | 28.7            |
| \$35,000 or More .....                      | .3                   | 8.3            | .09               | .07                                  | 33.7            |
| <b>Below Poverty Line</b>                   |                      |                |                   |                                      |                 |
| 100 Percent .....                           | .2                   | 4.2            | .05               | .04                                  | 40.5            |
| 125 Percent .....                           | .4                   | 6.9            | .08               | .07                                  | 35.5            |
| <b>Age of Householder</b>                   |                      |                |                   |                                      |                 |
| Under 35 Years .....                        | .3                   | 6.5            | .07               | .06                                  | 19.4            |
| 35 to 59 Years .....                        | .5                   | 12.6           | .14               | .12                                  | 30.5            |
| 60 Years and Over .....                     | .4                   | 5.7            | .06               | .05                                  | 31.7            |
| <b>Household Size</b>                       |                      |                |                   |                                      |                 |
| 1 Person .....                              | Q                    | Q              | Q                 | Q                                    | NF              |
| 2 to 4 Persons .....                        | .8                   | 18.1           | .20               | .17                                  | 23.7            |
| 5 or More Persons .....                     | .2                   | 5.4            | .06               | .05                                  | 26.8            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the East North Central and West North Central Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 51. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per Midwest Region Household, 1990**

| Characteristics                             | Electricity          |               |       |                        |  |                      | Natural Gas   |                   |                        |  |      |    | RSE Row Factors |
|---|----------------------|---------------|-------|------------------------|--|----------------------|---------------|-------------------|------------------------|--|------|----|-----------------|
|   | Households (million) | Consumption   |       | Expenditures (dollars) | Electricity Heating Intensity (KWh per household member) | Households (million) | Consumption   |                   | Expenditures (dollars) | Natural Gas Water-Heating Intensity (1000 cubic feet per household member) |      |    |                 |
|   |                      | (million Btu) | (KWh) |                        |  |                      | (million Btu) | (1000 cubic feet) |                        |  |      |    |                 |
| RSE Column Factors:                         | 3.1                  | NF            | NF    | NF                     | NF   | 1.8                  | NF            | NF                | NF                     | NF   | NF   |    |                 |
| <b>Midwest Region</b>                       |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |
| <b>Total Region</b> .....                   | 7.0                  | 10.6          | 3,114 | 221                    | 1,278  | 14.8                 | 24.6          | 24.2              | 120                    | 9.8  | 3.2  |    |                 |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 6.0                  | 10.8          | 3,164 | 222                    | 1,300  | 12.8                 | 24.9          | 24.4              | 121                    | 9.9  | 3.6  |    |                 |
| Under 5,500 HDD and 2,000 CDD or More ..... | 1.0                  | 9.6           | 2,815 | 217                    | 1,146  | 2.0                  | 22.7          | 22.4              | 119                    | 8.9  | 6.5  |    |                 |
| Under 4,000 HDD .....                       | NC                   | NC            | NC    | NC                     | NC   | NC                   | NC            | NC                | NC                     | NC   | NC   | NC |                 |
| <b>Type of Housing Unit</b>                 |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |
| Single-Family .....                         | 4.6                  | 11.8          | 3,458 | 234                    | 1,285  | 10.2                 | 25.3          | 24.9              | 123                    | 9.1  | 3.7  |    |                 |
| Mobile Home .....                           | .9                   | 9.6           | 2,827 | 237                    | 1,067  | .6                   | 23.0          | 22.6              | 120                    | 10.0   | 10.1 |    |                 |
| Multifamily (2 or more units) ..            | 1.5                  | 7.5           | 2,211 | 172                    | 1,472  | 3.9                  | 23.0          | 22.4              | 112                    | 12.1   | 8.1  |    |                 |
| <b>Heated Floorpace (square feet)</b>       |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |
| Fewer than 1,000 .....                      | 2.4                  | 8.8           | 2,581 | 197                    | 1,303  | 3.9                  | 21.6          | 21.1              | 106                    | 11.1   | 5.9  |    |                 |
| 1,000 to 1,999 .....                        | 2.6                  | 10.5          | 3,089 | 213                    | 1,284  | 5.6                  | 23.9          | 23.4              | 118                    | 9.8  | 4.7  |    |                 |
| 2,000 or More .....                         | 2.0                  | 12.9          | 3,782 | 260                    | 1,252  | 5.3                  | 27.7          | 27.1              | 132                    | 9.1  | 4.4  |    |                 |
| <b>Ownership of Unit</b>                    |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |
| Owned .....                                 | 5.4                  | 11.1          | 3,263 | 227                    | 1,270  | 9.7                  | 25.4          | 24.9              | 124                    | 9.5  | 3.9  |    |                 |
| Rented .....                                | 1.6                  | 8.9           | 2,595 | 200                    | 1,314  | 5.0                  | 23.2          | 22.6              | 113                    | 10.5   | 6.3  |    |                 |
| <b>Year of Construction</b>                 |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |
| 1949 or Before .....                        | 2.2                  | 10.9          | 3,207 | 227                    | 1,246  | 6.3                  | 23.9          | 23.4              | 118                    | 9.7  | 4.8  |    |                 |
| 1950 to 1979 .....                          | 3.7                  | 10.4          | 3,043 | 215                    | 1,286  | 7.1                  | 24.2          | 23.7              | 118                    | 9.7  | 4.3  |    |                 |
| 1980 or After <sup>2</sup> .....            | 1.1                  | 10.8          | 3,171 | 232                    | 1,322  | 1.4                  | 30.0          | 29.4              | 141                    | 10.2   | 8.6  |    |                 |
| <b>1990 Family Income</b>                   |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |
| Less than \$10,000 .....                    | 1.0                  | 8.0           | 2,349 | 174                    | 1,291  | 2.5                  | 22.1          | 21.6              | 109                    | 10.7   | 8.2  |    |                 |
| \$10,000 to \$19,999 .....                  | 1.5                  | 8.8           | 2,576 | 194                    | 1,224  | 3.3                  | 18.9          | 18.6              | 93                     | 10.2   | 6.5  |    |                 |
| \$20,000 to \$34,999 .....                  | 2.2                  | 11.0          | 3,236 | 231                    | 1,282  | 3.9                  | 23.8          | 23.3              | 117                    | 9.1  | 5.5  |    |                 |
| \$35,000 or More .....                      | 2.3                  | 12.6          | 3,681 | 250                    | 1,298  | 5.1                  | 30.3          | 29.7              | 146                    | 9.7  | 5.0  |    |                 |
| <b>Below Poverty Line</b>                   |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |
| 100 Percent .....                           | .7                   | 8.6           | 2,535 | 193                    | 1,075  | 1.6                  | 25.4          | 24.8              | 126                    | 9.5  | 8.6  |    |                 |
| 125 Percent .....                           | 1.0                  | 8.9           | 2,621 | 194                    | 1,161  | 2.4                  | 23.7          | 23.1              | 118                    | 9.4  | 7.0  |    |                 |
| <b>Age of Householder</b>                   |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |
| Under 35 Years .....                        | 2.0                  | 10.9          | 3,204 | 227                    | 1,248  | 4.3                  | 26.3          | 25.8              | 129                    | 9.3  | 5.2  |    |                 |
| 35 to 59 Years .....                        | 2.8                  | 12.6          | 3,699 | 262                    | 1,302  | 6.1                  | 29.1          | 28.6              | 141                    | 9.9  | 3.4  |    |                 |
| 60 Years and Over .....                     | 2.2                  | 7.7           | 2,267 | 162                    | 1,270  | 4.3                  | 16.6          | 16.3              | 82                     | 10.1   | 4.6  |    |                 |
| <b>Household Size</b>                       |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |
| 1 Person .....                              | 1.7                  | 5.8           | 1,704 | 135                    | 1,704  | 4.1                  | 15.6          | 15.2              | 77                     | 15.2   | 8.2  |    |                 |
| 2 to 4 Persons .....                        | 4.8                  | 11.6          | 3,386 | 240                    | 1,296  | 9.4                  | 26.8          | 26.3              | 131                    | 9.6  | 3.1  |    |                 |
| 5 or More Persons .....                     | .5                   | 17.5          | 5,128 | 321                    | 957  | 1.2                  | 38.3          | 37.4              | 187                    | 6.8  | 10.4 |    |                 |

See footnotes at end of table.

**MIDWEST**

**WATER-HEATING CONSUMPTION/EXPENDITURES**

Table 51. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per Midwest Region Household, 1990 (Continued)

| Characteristics  | Electricity   |       |                        |  | Natural Gas          |               |                   |                        | RSE Row Factors |  |
|--|---------------|-------|------------------------|--|----------------------|---------------|-------------------|------------------------|-----------------|--|
|  | Consumption   |       | Expenditures (dollars) | Electricity Water-Heating intensity (kWh per household member) | Households (million) | Consumption   |                   | Expenditures (dollars) |                 | Natural Gas Water-Heating intensity (1000 cubic feet per household member) |
|  | (million Btu) | (kWh) |                        |  |                      | (million Btu) | (1000 cubic feet) |                        |                 |  |
| RSE Column Factors:  | 3.1           | NF    | NF                     | NF   | 1.8                  | NF            | NF                | NF                     | NF              |  |
| Midwest Region   |               |       |                        |  |                      |               |                   |                        |                 |  |
| <b>Average Electricity Expenditures</b><br>(cents per kWh)       |               |       |                        |  |                      |               |                   |                        |                 |  |
| Less than 6 .....  | 0.8           | 13.9  | 4,085                  | 202  | 1,355                | --            | --                | --                     | 5.1             |  |
| 6 to Less than 9 .....   | 5.1           | 10.6  | 3,121                  | 219  | 1,297                | --            | --                | --                     | 8.4             |  |
| 9 or More .....  | 1.1           | 7.9   | 2,308                  | 245  | 1,085                | --            | --                | --                     | 9.2             |  |
| <b>Average Natural Gas Expenditures</b><br>(dollars per 1000 cf) |               |       |                        |  |                      |               |                   |                        |                 |  |
| Less than 4.50 .....   | --            | --    | --                     | --   | --                   | 2.7           | 28.7              | 28.4                   | 11.1            |  |
| 4.50 to Less than 6 .....  | --            | --    | --                     | --   | --                   | 11.3          | 24.2              | 23.7                   | 9.5             |  |
| 6 or More .....  | --            | --    | --                     | --   | --                   | .8            | 16.2              | 15.9                   | 8.5             |  |
| <b>Water Heater Used</b><br>For One Housing Unit.....            | 6.9           | 10.7  | 3,122                  | 221  | 1,279                | 12.2          | 25.2              | 24.8                   | 9.3             |  |
| For Two or More Units .....                                      | Q             | Q     | Q                      | Q  | Q                    | 2.6           | 21.9              | 21.3                   | 13.0            |  |
| <b>Age of Water Heater</b><br>Less than 5 Years .....            | 2.2           | 11.8  | 3,462                  | 245  | 1,268                | 4.5           | 27.0              | 26.5                   | 131             |  |
| 5 to 9 Years .....   | 1.7           | 11.6  | 3,399                  | 237  | 1,400                | 2.8           | 24.2              | 23.8                   | 120             |  |
| 10 to 19 Years .....   | 2.0           | 9.8   | 2,877                  | 204  | 1,233                | 2.9           | 25.0              | 24.7                   | 123             |  |
| 20 Years or More .....   | .5            | 8.8   | 2,577                  | 183  | 1,125                | .8            | 21.1              | 20.8                   | 105             |  |
| Don't Know .....   | .5            | 7.8   | 2,272                  | 179  | 1,252                | 1.2           | 24.0              | 23.4                   | 119             |  |
| <b>Size of Water Heater</b><br>30 gallons or less .....          | 1.7           | 8.6   | 2,512                  | 199  | 1,137                | 2.9           | 21.6              | 21.2                   | 110             |  |
| 31 to 49 gallons .....   | 2.9           | 10.2  | 2,999                  | 210  | 1,233                | 7.0           | 24.7              | 24.3                   | 121             |  |
| 50 gallons or more .....   | 2.0           | 13.0  | 3,801                  | 257  | 1,409                | 1.6           | 34.1              | 33.5                   | 162             |  |
| Don't Know .....   | .3            | 11.3  | 3,298                  | 218  | 1,562                | .7            | 24.8              | 24.2                   | 124             |  |
| <b>Location of Water Heater</b><br>Heated Area .....             | 5.9           | 10.8  | 3,170                  | 223  | 1,298                | 10.8          | 25.3              | 24.9                   | 124             |  |
| Unheated Area .....  | 1.0           | 9.8   | 2,875                  | 213  | 1,181                | 1.2           | 24.5              | 24.1                   | 122             |  |
| <b>Clothes Washer Present in Household</b><br>Yes .....          | 5.3           | 11.6  | 3,398                  | 236  | 1,239                | 11.3          | 25.6              | 25.1                   | 125             |  |
| No .....   | 1.7           | 7.7   | 2,246                  | 176  | 1,499                | 3.5           | 21.6              | 21.1                   | 106             |  |
| <b>Dishwasher Present in Household</b><br>Yes .....              | 3.0           | 11.1  | 3,242                  | 226  | 1,294                | 5.8           | 27.1              | 26.6                   | 129             |  |
| No .....   | 4.0           | 10.3  | 3,020                  | 217  | 1,266                | 9.0           | 23.1              | 22.6                   | 115             |  |
| <b>Children Present in Household</b><br>No .....                 | 4.6           | 8.5   | 2,504                  | 185  | 1,473                | 9.6           | 20.4              | 20.0                   | 101             |  |
| Yes .....  | 2.4           | 14.5  | 4,259                  | 289  | 1,115                | 5.2           | 32.4              | 31.7                   | 156             |  |
| (more than one may apply)<br>Under 13 Years .....                | 1.8           | 14.2  | 4,148                  | 282  | 1,022                | 4.1           | 32.1              | 31.5                   | 156             |  |
| 13 to 18 Years .....   | 1.1           | 16.2  | 4,758                  | 306  | 1,245                | 2.2           | 35.2              | 34.5                   | 170             |  |

See footnotes at end of table.

**WATER-HEATING CONSUMPTION/EXPENDITURES**

**Table 51. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per Midwest Region Household, 1990 (Continued)**

| Characteristics                       | Electricity          |               |       |                        |  |                      | Natural Gas   |                   |                        |  |      |  | RSE Row Factors |
|---------------------------------------|----------------------|---------------|-------|------------------------|--|----------------------|---------------|-------------------|------------------------|--|------|--|-----------------|
|                                       | Households (million) | Consumption   |       | Expenditures (dollars) | Electricity Water-Heating Intensity (kWh per household member) | Households (million) | Consumption   |                   | Expenditures (dollars) | Natural Gas Water-Heating Intensity (1000 cubic feet per household member) |      |  |                 |
|                                       |                      | (million Btu) | (kWh) |                        |  |                      | (million Btu) | (1000 cubic feet) |                        |  |      |  |                 |
| RSE Column Factors:                   | 3.1                  | NF            | NF    | NF                     | NF   | 1.8                  | NF            | NF                | NF                     | NF   |      |  |                 |
| <b>East North Central Division</b> .. | 5.5                  | 10.7          | 3,135 | 223                    | 1,302  | 10.3                 | 25.9          | 25.2              | 128                    | 10.0   | 4.0  |  |                 |
| <b>Climate Zone<sup>1</sup></b>       |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| Under 2,000 CDD and                   |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| Over 5,500 HDD .....                  | 5.2                  | 10.8          | 3,167 | 221                    | 1,318  | 9.9                  | 26.1          | 25.5              | 129                    | 10.0   | 4.3  |  |                 |
| Under 5,500 HDD .....                 | Q                    | Q             | Q     | Q                      | Q  | Q                    | 21.2          | 20.7              | 104                    | 9.0  | 33.0 |  |                 |
| 2,000 CDD or More and                 |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| Under 4,000 HDD .....                 | NC                   | NC            | NC    | NC                     | NC   | NC                   | NC            | NC                | NC                     | NC   | NC   |  |                 |
| <b>Type of Housing Unit</b>           |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| Single-Family .....                   | 3.5                  | 12.2          | 3,582 | 238                    | 1,317  | 7.1                  | 26.5          | 25.9              | 130                    | 9.3  | 4.6  |  |                 |
| Mobile Home .....                     | .7                   | 9.6           | 2,818 | 246                    | 1,049  | .4                   | 23.5          | 23.0              | 129                    | 10.0   | 12.6 |  |                 |
| Multifamily (2 or more units) ..      | 1.3                  | 7.2           | 2,111 | 167                    | 1,496  | 2.8                  | 24.6          | 23.9              | 123                    | 12.4   | 9.4  |  |                 |
| <b>Heated Floorspace</b>              |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| (square feet)                         |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| Fewer than 1,000 .....                | 2.0                  | 8.8           | 2,581 | 201                    | 1,306  | 2.6                  | 22.6          | 22.0              | 114                    | 11.2   | 7.2  |  |                 |
| 1,000 to 1,999 .....                  | 2.1                  | 10.4          | 3,058 | 210                    | 1,327  | 3.9                  | 24.8          | 24.3              | 126                    | 10.0   | 5.8  |  |                 |
| 2,000 or More .....                   | 1.5                  | 13.6          | 3,993 | 270                    | 1,272  | 3.8                  | 29.1          | 28.5              | 139                    | 9.4  | 5.4  |  |                 |
| <b>Ownership of Unit</b>              |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| Owned .....                           | 4.3                  | 11.2          | 3,283 | 228                    | 1,287  | 6.8                  | 26.8          | 26.2              | 132                    | 9.8  | 5.0  |  |                 |
| Rented .....                          | 1.2                  | 8.9           | 2,608 | 204                    | 1,370  | 3.5                  | 24.0          | 23.3              | 119                    | 10.4   | 8.1  |  |                 |
| <b>Year of Construction</b>           |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| 1949 or Before .....                  | 1.7                  | 11.2          | 3,272 | 228                    | 1,280  | 4.7                  | 24.6          | 24.1              | 125                    | 9.8  | 5.8  |  |                 |
| 1950 to 1979 .....                    | 2.9                  | 10.3          | 3,017 | 214                    | 1,290  | 4.7                  | 25.4          | 24.8              | 125                    | 9.9  | 5.7  |  |                 |
| 1980 or After <sup>2</sup> .....      | .9                   | 11.1          | 3,249 | 241                    | 1,387  | 1.0                  | 33.7          | 33.0              | 156                    | 11.0   | 10.1 |  |                 |
| <b>1990 Family Income</b>             |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| Less than \$10,000 .....              | 8                    | 8.0           | 2,346 | 171                    | 1,300  | 1.7                  | 24.3          | 23.7              | 123                    | 10.8   | 10.0 |  |                 |
| \$10,000 to \$19,999 .....            | 1.2                  | 9.0           | 2,649 | 202                    | 1,250  | 2.2                  | 18.9          | 18.4              | 96                     | 10.3   | 5.2  |  |                 |
| \$20,000 to \$34,999 .....            | 1.8                  | 11.0          | 3,216 | 232                    | 1,318  | 2.6                  | 24.0          | 23.4              | 121                    | 9.1  | 5.9  |  |                 |
| \$35,000 or More .....                | 1.8                  | 12.7          | 3,721 | 250                    | 1,314  | 3.8                  | 31.9          | 31.2              | 153                    | 10.1   | 6.3  |  |                 |
| <b>Below Poverty Line</b>             |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| 100 Percent .....                     | 6                    | 8.4           | 2,450 | 186                    | 1,069  | 1.2                  | 27.6          | 26.9              | 139                    | 9.5  | 9.6  |  |                 |
| 125 Percent .....                     | .8                   | 8.8           | 2,571 | 189                    | 1,181  | 1.7                  | 25.6          | 24.9              | 129                    | 9.5  | 8.4  |  |                 |
| <b>Age of Householder</b>             |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| Under 35 Years .....                  | 1.7                  | 11.0          | 3,212 | 227                    | 1,285  | 3.0                  | 27.5          | 26.9              | 136                    | 9.4  | 6.6  |  |                 |
| 35 to 59 Years .....                  | 2.1                  | 12.8          | 3,760 | 267                    | 1,337  | 4.4                  | 30.4          | 29.7              | 148                    | 10.3   | 4.2  |  |                 |
| 60 Years and Over .....               | 1.7                  | 7.8           | 2,285 | 164                    | 1,257  | 2.9                  | 17.3          | 16.9              | 89                     | 10.1   | 6.2  |  |                 |
| <b>Household Size</b>                 |                      |               |       |                        |  |                      |               |                   |                        |  |      |  |                 |
| 1 Person .....                        | 1.4                  | 5.7           | 1,680 | 134                    | 1,680  | 2.7                  | 16.2          | 15.8              | 82                     | 15.8   | 10.9 |  |                 |
| 2 to 4 Persons .....                  | 3.7                  | 11.6          | 3,404 | 243                    | 1,323  | 6.6                  | 27.8          | 27.1              | 136                    | 10.0   | 3.6  |  |                 |
| 5 or More Persons .....               | .5                   | 18.4          | 5,381 | 326                    | 1,005  | 1.0                  | 39.6          | 38.4              | 194                    | 7.0  | 12.0 |  |                 |

See footnotes at end of table.

**MIDWEST**

**Table 51. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per Midwest Region Household, 1990 (Continued)**

| Characteristics                        | Electricity          |               |       |                        |  | Natural Gas          |               |                   |                        |  | RSE Row Factors |
|--|----------------------|---------------|-------|------------------------|--|----------------------|---------------|-------------------|------------------------|--|-----------------|
|  | Households (million) | Consumption   |       | Expenditures (dollars) | Electricity Water-Heating Intensity (kWh per household member) | Households (million) | Consumption   |                   | Expenditures (dollars) | Natural Gas Water-Heating Intensity (1000 cubic feet per household member) |                 |
|  |                      | (million Btu) | (kWh) |                        |  |                      | (million Btu) | (1000 cubic feet) |                        |  |                 |
| RSE Column Factors:                    | 3.1                  | NF            | NF    | NF                     | NF   | 1.8                  | NF            | NF                | NF                     | NF   |                 |
| <b>West North Central Division</b>     | 1.5                  | 10.4          | 3,040 | 215                    | 1,196  | 4.4                  | 21.8          | 21.6              | 103                    | 9.2  | 3.9             |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Under 2,000 CDD and Over 5,500 HDD     | .8                   | 10.7          | 3,143 | 225                    | 1,196  | 2.9                  | 21.1          | 20.9              | 96                     | 9.4  | 4.1             |
| Under 5,500 HDD                        | .7                   | 10.0          | 2,919 | 203                    | 1,197  | 1.5                  | 23.1          | 22.9              | 116                    | 8.8  | 6.3             |
| 2,000 CDD or More and Under 4,000 HDD  | NC                   | NC            | NC    | NC                     | NC   | NC                   | NC            | NC                | NC                     | NC   | NC              |
| <b>Type of Housing Unit</b>            |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Single-Family                          | 1.2                  | 10.5          | 3,084 | 219                    | 1,182  | 3.1                  | 22.8          | 22.6              | 109                    | 8.7  | 4.2             |
| Mobile Home                            | .2                   | 9.8           | 2,866 | 198                    | 1,149  | .2                   | 21.8          | 22.0              | 101                    | 9.9  | 16.1            |
| Multifamily (2 or more units)          | .2                   | 10.0          | 2,925 | 203                    | 1,360  | 1.1                  | 19.0          | 18.6              | 86                     | 11.1   | 11.0            |
| <b>Heated Floorspace (square feet)</b> |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Fewer than 1,000                       | .4                   | 8.8           | 2,582 | 180                    | 1,288  | 1.3                  | 19.5          | 19.3              | 91                     | 10.9   | 6.9             |
| 1,000 to 1,999                         | .6                   | 10.9          | 3,194 | 223                    | 1,161  | 1.7                  | 21.5          | 21.4              | 101                    | 9.2  | 5.5             |
| 2,000 or More                          | .5                   | 10.9          | 3,199 | 232                    | 1,188  | 1.5                  | 24.0          | 23.8              | 116                    | 8.3  | 5.9             |
| <b>Ownership of Unit</b>               |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Owned                                  | 1.2                  | 10.9          | 3,188 | 224                    | 1,208  | 3.0                  | 22.1          | 22.0              | 106                    | 8.7  | 4.1             |
| Rented                                 | .3                   | 8.7           | 2,552 | 186                    | 1,149  | 1.5                  | 21.2          | 20.9              | 98                     | 10.5   | 7.9             |
| <b>Year of Construction</b>            |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| 1949 or Before                         | .5                   | 10.1          | 2,962 | 221                    | 1,121  | 1.6                  | 21.7          | 21.6              | 99                     | 9.6  | 6.1             |
| 1950 to 1979                           | .8                   | 10.7          | 3,131 | 217                    | 1,272  | 2.4                  | 21.8          | 21.7              | 104                    | 9.2  | 4.8             |
| 1980 or After <sup>2</sup>             | .2                   | 9.7           | 2,839 | 191                    | 1,076  | .4                   | 21.7          | 21.4              | 109                    | 8.3  | 10.4            |
| <b>1990 Family Income</b>              |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Less than \$10,000                     | .2                   | 8.1           | 2,361 | 186                    | 1,259  | .8                   | 17.1          | 16.9              | 80                     | 10.4   | 10.0            |
| \$10,000 to \$19,999                   | .4                   | 8.0           | 2,334 | 169                    | 1,133  | 1.1                  | 18.9          | 18.8              | 88                     | 10.0   | 9.5             |
| \$20,000 to \$34,999                   | .4                   | 11.4          | 3,329 | 227                    | 1,144  | 1.2                  | 23.3          | 23.1              | 108                    | 9.0  | 6.8             |
| \$35,000 or More                       | .6                   | 12.1          | 3,553 | 248                    | 1,247  | 1.3                  | 25.5          | 25.3              | 125                    | 8.5  | 4.7             |
| <b>Below Poverty Line</b>              |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| 100 Percent                            | .1                   | 10.1          | 2,951 | 225                    | 1,100  | .4                   | 19.2          | 19.0              | 90                     | 9.2  | 12.7            |
| 125 Percent                            | .2                   | 9.6           | 2,806 | 212                    | 1,096  | .7                   | 19.0          | 18.8              | 90                     | 9.2  | 9.9             |
| <b>Age of Householder</b>              |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Under 35 Years                         | .4                   | 10.8          | 3,168 | 229                    | 1,100  | 1.3                  | 23.5          | 23.3              | 114                    | 9.0  | 4.5             |
| 35 to 59 Years                         | .7                   | 12.0          | 3,514 | 248                    | 1,199  | 1.7                  | 25.9          | 25.7              | 123                    | 9.0  | 4.8             |
| 60 Years and Over                      | .4                   | 7.5           | 2,197 | 152                    | 1,325  | 1.4                  | 15.3          | 15.2              | 69                     | 10.1   | 7.0             |
| <b>Household Size</b>                  |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| 1 Person                               | .3                   | 6.2           | 1,805 | 139                    | 1,805  | 1.4                  | 14.3          | 14.2              | 65                     | 14.2   | 7.8             |
| 2 to 4 Persons                         | 1.1                  | 11.4          | 3,329 | 230                    | 1,210  | 2.8                  | 24.6          | 24.4              | 117                    | 8.8  | 4.3             |
| 5 or More Persons                      | .1                   | 13.2          | 3,882 | 299                    | 721  | .3                   | 33.2          | 33.2              | 158                    | 6.2  | 11.8            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

-- = Not applicable.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, E, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 52. LPG Consumption and Expenditures for Main Water Heating, per Midwest Region Household, 1990**

| Characteristics                        | Households (million) | Consumption   |           | Expenditures (dollars) | LPG Water-Heating Intensity (gallons per household member) | RSE Row Factors |
|--|----------------------|---------------|-----------|------------------------|--|-----------------|
|  |                      | (million Btu) | (gallons) |                        |  |                 |
| RSE Column Factors:                    | 2.6                  | NF            | NF        | NF                     | NF   |                 |
| <b>Midwest Region</b>                  |                      |               |           |                        |  |                 |
| <b>Total Region</b>                    | 1.2                  | 20.7          | 226       | 197                    | 69   | 6.2             |
| East North Central Division            | .7                   | 21.0          | 230       | 207                    | 68   | 6.7             |
| West North Central Division            | .5                   | 20.2          | 221       | 183                    | 70   | 11.3            |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |           |                        |  |                 |
| Under 2,000 CDD and Over 5,500 HDD     | .8                   | 20.8          | 228       | 201                    | 69   | 6.2             |
| Under 5,500 HDD                        | Q                    | 20.3          | 222       | 188                    | 69   | 15.4            |
| 2,000 CDD or More and Under 4,000 HDD  | NC                   | NC            | NC        | NC                     | NC   | NC              |
| <b>Type of Housing Unit</b>            |                      |               |           |                        |  |                 |
| Single-Family                          | 1.1                  | 21.0          | 230       | 200                    | 71   | 6.5             |
| Mobile Home                            | Q                    | Q             | Q         | Q                      | Q  | NF              |
| Multifamily (2 or more units)          | Q                    | Q             | Q         | Q                      | Q  | NF              |
| <b>Heated Floorspace (square feet)</b> |                      |               |           |                        |  |                 |
| Fewer than 1,000                       | .3                   | 16.2          | 177       | 161                    | 70   | 18.7            |
| 1,000 to 1,999                         | .5                   | 23.1          | 233       | 223                    | 68   | 10.8            |
| 2,000 or More                          | .4                   | 20.6          | 226       | 189                    | 70   | 11.9            |
| <b>Ownership of Unit</b>               |                      |               |           |                        |  |                 |
| Owned                                  | 1.1                  | 20.3          | 222       | 196                    | 67   | 6.2             |
| Rented                                 | Q                    | 25.1          | 275       | 218                    | 95   | 45.3            |
| <b>Year of Construction</b>            |                      |               |           |                        |  |                 |
| 1949 or Before                         | .5                   | 22.5          | 246       | 214                    | 77   | 11.3            |
| 1950 to 1979                           | .4                   | 18.3          | 200       | 178                    | 64   | 14.3            |
| 1980 or After <sup>2</sup>             | .3                   | 21.3          | 233       | 199                    | 64   | 14.1            |
| <b>1990 Family Income</b>              |                      |               |           |                        |  |                 |
| Less than \$10,000                     | .2                   | 14.6          | 159       | 162                    | 52   | 22.3            |
| \$10,000 to \$19,999                   | .2                   | 18.0          | 197       | 182                    | 79   | 17.8            |
| \$20,000 to \$34,999                   | .4                   | 21.4          | 234       | 206                    | 64   | 9.9             |
| \$35,000 or More                       | .3                   | 26.9          | 294       | 228                    | 85   | 13.3            |
| <b>Below Poverty Line</b>              |                      |               |           |                        |  |                 |
| 100 Percent                            | .2                   | 18.7          | 205       | 194                    | 46   | 13.3            |
| 125 Percent                            | .4                   | 18.2          | 199       | 196                    | 53   | 14.7            |
| <b>Age of Householder</b>              |                      |               |           |                        |  |                 |
| Under 35 Years                         | .3                   | 20.0          | 219       | 192                    | 52   | 11.9            |
| 35 to 59 Years                         | .5                   | 26.2          | 287       | 248                    | 79   | 8.9             |
| 60 Years and Over                      | .4                   | 14.4          | 157       | 139                    | 78   | 13.2            |
| <b>Household Size</b>                  |                      |               |           |                        |  |                 |
| 1 Person                               | Q                    | 8.8           | 96        | 102                    | 96   | 27.1            |
| 2 to 4 Persons                         | .8                   | 22.2          | 243       | 207                    | 81   | 8.0             |
| 5 or More Persons                      | .2                   | 23.5          | 257       | 229                    | 44   | 16.6            |

See footnotes at end of table.

**MIDWEST**



**Table 52. LPG Consumption and Expenditures for Main Water Heating, per Midwest Region Household, 1990 (Continued)**

| Characteristics                                      | Households (million) | Consumption   |           | Expenditures (dollars) | LPG Water-Heating Intensity (gallons per household member) | RSE Row Factors |
|--|----------------------|---------------|-----------|------------------------|--|-----------------|
|  |                      | (million Btu) | (gallons) |                        |  |                 |
| RSE Column Factors:                                  | 2.6                  | NF            | NF        | NF                     | NF   |                 |
| <b>Midwest Region</b>                                |                      |               |           |                        |  |                 |
| <b>Average LPG Expenditures (dollars per gallon)</b> |                      |               |           |                        |  |                 |
| Less than 75 .....                                   | 0.3                  | 22.0          | 241       | 155                    | 76   | 11.6            |
| 75 to Less than 1.00 .....                           | .5                   | 21.7          | 237       | 202                    | 73   | 12.2            |
| 1.00 or More .....                                   | .4                   | 18.0          | 197       | 226                    | 57   | 12.2            |
| <b>Water Heater Used</b>                             |                      |               |           |                        |  |                 |
| For One Housing Unit .....                           | 1.2                  | 20.7          | 226       | 197                    | 69   | 6.2             |
| For Two or More Units .....                          | Q                    | Q             | Q         | Q                      | Q  | NF              |
| <b>Age of Water Heater</b>                           |                      |               |           |                        |  |                 |
| Less than 5 Years .....                              | .4                   | 21.1          | 231       | 200                    | 68   | 10.0            |
| 5 to 9 Years .....                                   | .3                   | 19.4          | 212       | 191                    | 72   | 17.5            |
| 10 to 19 Years .....                                 | .4                   | 20.6          | 226       | 193                    | 66   | 16.6            |
| 20 Years or More .....                               | Q                    | Q             | Q         | Q                      | Q  | NF              |
| Don't Know .....                                     | Q                    | Q             | Q         | Q                      | Q  | NF              |
| <b>Size of Water Heater</b>                          |                      |               |           |                        |  |                 |
| 30 gallons or less .....                             | .5                   | 18.0          | 197       | 176                    | 63   | 8.4             |
| 31 to 49 gallons .....                               | .4                   | 22.5          | 247       | 215                    | 81   | 14.3            |
| 50 gallons or more .....                             | .3                   | 22.9          | 251       | 212                    | 63   | 18.9            |
| Don't Know .....                                     | Q                    | Q             | Q         | Q                      | Q  | NF              |
| <b>Location of Water Heater</b>                      |                      |               |           |                        |  |                 |
| Heated Area .....                                    | 1.1                  | 20.7          | 227       | 198                    | 70   | 6.9             |
| Unheated Area .....                                  | .1                   | 20.3          | 222       | 190                    | 66   | 19.0            |
| <b>Clothes Washer Present in Household</b>           |                      |               |           |                        |  |                 |
| Yes .....  | 1.0                  | 22.3          | 244       | 210                    | 69   | 6.6             |
| No .....   | Q                    | Q             | Q         | Q                      | Q  | NF              |
| <b>Dishwasher Present in Household</b>               |                      |               |           |                        |  |                 |
| Yes .....  | .4                   | 24.4          | 268       | 212                    | 77   | 10.9            |
| No .....   | .8                   | 18.7          | 204       | 189                    | 64   | 8.2             |
| <b>Children Present in Household</b>                 |                      |               |           |                        |  |                 |
| No .....   | .5                   | 14.2          | 156       | 132                    | 86   | 9.9             |
| Yes .....  | .7                   | 25.6          | 281       | 248                    | 64   | 7.4             |
| <b>(more than one may apply)</b>                     |                      |               |           |                        |  |                 |
| Under 13 Years .....                                 | .5                   | 25.9          | 283       | 244                    | 59   | 9.4             |
| 13 to 18 Years .....                                 | .4                   | 26.2          | 287       | 268                    | 67   | 9.8             |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the East North Central and West North Central Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

APPLIANCE CONSUMPTION/EXPENDITURES

Table 53. Total Consumption and Expenditures for Appliances in Midwest Region Households, 1990

| Characteristics                        | Electricity          |                |               | Natural Gas          |                   |                | Liquefied Petroleum Gas |                      |                   | RSE Row Factors |                                |                   |      |
|--|----------------------|----------------|---------------|----------------------|-------------------|----------------|-------------------------|----------------------|-------------------|-----------------|--------------------------------|-------------------|------|
|  | Households (million) | Consumed       |               | Households (million) | Consumed          |                | Households (million)    | Consumed             |                   |                 | Expenditures (billion dollars) |                   |      |
|  |                      | (trillion Btu) | (billion kWh) |                      | (billion dollars) | (trillion Btu) |                         | (billion cubic feet) | (billion dollars) |                 |                                | (billion gallons) |      |
| RSE Column Factors:                    | 0.5                  | NF             | NF            | NF                   | NF                | NF             | NF                      | NF                   | NF                | NF              |                                |                   |      |
| Midwest Region                         |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |                   |      |
| Total Region                           | 23.1                 | 343.9          | 100.8         | 8.16                 | 10.9              | 88.8           | 87                      | 0.43                 | 1.5               | 10.2            | 0.11                           | 0.12              | 9.3  |
| <b>Climate Zone<sup>1</sup></b>        |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |                   |      |
| Under 2,000 CDD and Over 5,500 HDD     | 19.7                 | 286.6          | 84.0          | 6.76                 | 9.6               | 77.7           | 76                      | .38                  | 1.1               | 7.5             | .08                            | .09               | 11.7 |
| Under 5,500 HDD and 2,000 CDD or More  | 3.4                  | 57.3           | 16.8          | 1.39                 | 1.3               | 11.1           | 11                      | .05                  | .4                | Q               | Q                              | Q                 | 27.9 |
| Under 4,000 HDD                        | NC                   | NC             | NC            | NC                   | NC                | NC             | NC                      | NC                   | NC                | NC              | NC                             | NC                | NC   |
| <b>Type of Housing Unit</b>            |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |                   |      |
| Single-Family                          | 16.0                 | 281.0          | 82.3          | 6.54                 | 7.8               | 67.2           | 66                      | .32                  | 1.2               | 8.3             | .09                            | .09               | 10.4 |
| Mobile Home                            | 1.6                  | 20.9           | 6.1           | .50                  | .8                | 5.9            | 6                       | .03                  | .3                | 1.9             | .02                            | .02               | 31.4 |
| Multifamily (2 or more units)          | 5.4                  | 42.0           | 12.3          | 1.12                 | 2.3               | 15.6           | 15                      | .08                  | Q                 | Q               | Q                              | Q                 | 13.9 |
| <b>Heated Floorspace (square feet)</b> |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |                   |      |
| Fewer than 1,000                       | 6.5                  | 62.1           | 18.2          | 1.53                 | 2.5               | 16.1           | 16                      | .08                  | .5                | 2.8             | .03                            | .03               | 17.3 |
| 1,000 to 1,999                         | 8.8                  | 129.0          | 37.8          | 3.02                 | 4.3               | 32.3           | 32                      | .16                  | .6                | 4.4             | .05                            | .05               | 11.3 |
| 2,000 or More                          | 7.8                  | 152.7          | 44.8          | 3.61                 | 4.1               | 40.5           | 40                      | .19                  | .5                | 3.0             | .03                            | .03               | 12.4 |
| <b>Ownership of Unit</b>               |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |                   |      |
| Owned                                  | 16.4                 | 278.5          | 81.6          | 6.48                 | 7.8               | 68.2           | 67                      | .33                  | 1.4               | 9.0             | .10                            | .10               | 8.5  |
| Rented                                 | 6.7                  | 65.4           | 19.2          | 1.68                 | 3.1               | 20.6           | 20                      | .10                  | .2                | 1.2             | .01                            | .01               | 14.2 |
| <b>Year of Construction</b>            |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |                   |      |
| 1949 or Before                         | 9.0                  | 121.8          | 35.7          | 2.95                 | 5.2               | 37.1           | 36                      | .18                  | .6                | 4.6             | .05                            | .05               | 12.6 |
| 1950 to 1979                           | 11.3                 | 175.0          | 51.3          | 4.09                 | 4.7               | 39.4           | 39                      | .19                  | .6                | 3.5             | .04                            | .04               | 12.1 |
| 1980 or After <sup>2</sup>             | 2.8                  | 47.0           | 13.8          | 1.11                 | 1.1               | 12.3           | 12                      | .06                  | .3                | 2.1             | .02                            | .02               | 21.3 |
| <b>1990 Family Income</b>              |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |                   |      |
| Less than \$10,000                     | 3.7                  | 38.6           | 11.3          | .94                  | 1.8               | 13.6           | 13                      | .07                  | .4                | 2.3             | .03                            | .03               | 22.3 |
| \$10,000 to \$19,999                   | 5.2                  | 57.3           | 16.8          | 1.42                 | 2.4               | 14.9           | 15                      | .08                  | .5                | 2.6             | .03                            | .03               | 12.2 |
| \$20,000 to \$34,999                   | 6.4                  | 103.4          | 30.3          | 2.42                 | 2.9               | 19.2           | 19                      | .10                  | .4                | 2.6             | .03                            | .03               | 11.4 |
| \$35,000 or More                       | 7.7                  | 144.6          | 42.4          | 3.38                 | 3.8               | 41.1           | 40                      | .19                  | .2                | 2.8             | .03                            | .03               | 17.2 |
| <b>Below Poverty Line</b>              |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |                   |      |
| 100 Percent                            | 2.7                  | 32.1           | 9.4           | .79                  | 1.3               | 10.3           | 10                      | .05                  | .3                | 2.5             | .03                            | .03               | 19.1 |
| 125 Percent                            | 3.9                  | 46.2           | 13.5          | 1.13                 | 1.8               | 13.8           | 13                      | .07                  | .5                | 3.6             | .04                            | .05               | 18.2 |
| <b>Age of Householder</b>              |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |                   |      |
| Under 35 Years                         | 6.7                  | 93.3           | 27.3          | 2.20                 | 3.2               | 26.3           | 26                      | .13                  | .4                | 1.8             | .02                            | .02               | 15.2 |
| 35 to 59 Years                         | 9.4                  | 167.9          | 49.2          | 3.96                 | 4.6               | 41.1           | 40                      | .20                  | .7                | 5.7             | .06                            | .07               | 11.4 |
| 60 Years and Over                      | 7.0                  | 82.7           | 24.2          | 2.00                 | 3.1               | 21.4           | 21                      | .11                  | .5                | 2.7             | .03                            | .03               | 14.1 |
| <b>Household Size</b>                  |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |                   |      |
| 1 Person                               | 6.0                  | 43.5           | 12.7          | 1.10                 | 2.8               | 14.5           | 14                      | .07                  | Q                 | .6              | .01                            | Q                 | 15.2 |
| 2 to 4 Persons                         | 15.0                 | 251.6          | 73.7          | 5.95                 | 7.1               | 64.2           | 63                      | .31                  | 1.1               | 7.1             | .08                            | .07               | 9.3  |
| 5 or More Persons                      | 2.0                  | 48.8           | 14.3          | 1.11                 | 1.0               | 10.1           | 10                      | .05                  | .3                | 2.5             | .03                            | .04               | 19.0 |

See footnotes at end of table.

MIDWEST

APPLIANCE CONSUMPTION/EXPENDITURES

MIDWEST

Table 53. Total Consumption and Expenditures for Appliances in Midwest Region Households, 1990 (Continued)

| Characteristics                        | Electricity          |                |               |                                | Natural Gas          |                |                      |                                | Liquefied Petroleum Gas |                |                   |                                | RSE Row Factors |  |
|--|----------------------|----------------|---------------|--------------------------------|----------------------|----------------|----------------------|--------------------------------|-------------------------|----------------|-------------------|--------------------------------|-----------------|--|
|  | Households (million) | Consumed       |               | Expenditures (billion dollars) | Households (million) | Consumed       |                      | Expenditures (billion dollars) | Households (million)    | Consumed       |                   | Expenditures (billion dollars) |                 |  |
|  |                      | (trillion Btu) | (billion kWh) |                                |                      | (trillion Btu) | (billion cubic feet) |                                |                         | (trillion Btu) | (billion gallons) |                                |                 |  |
|  |                      | NF             | NF            |                                |                      | NF             | NF                   |                                |                         | NF             | NF                |                                |                 |  |
| RSE Column Factors:                    | 0.5                  | NF             | NF            | NF                             | 0.8                  | NF             | NF                   | NF                             | 1.9                     | NF             | NF                | NF                             |                 |  |
| East North Central Division            | 16.6                 | 243.4          | 71.3          | 5.87                           | 8.2                  | 68.7           | 67                   | 0.34                           | 1.0                     | 7.3            | 0.08              | 0.09                           | 11.1            |  |
| <b>Climate Zone<sup>1</sup></b>        |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |  |
| Under 2,000 CDD and Over 5,500 HDD     | 15.7                 | 228.8          | 67.0          | 5.47                           | 7.9                  | 67.2           | 66                   | .33                            | .9                      | 6.1            | .07               | .08                            | 14.4            |  |
| Under 5,500 HDD                        | Q                    | Q              | Q             | Q                              | Q                    | Q              | Q                    | Q                              | Q                       | Q              | Q                 | Q                              | NF              |  |
| 2,000 CDD or More and Under 4,000 HDD  | NC                   | NC             | NC            | NC                             | NC                   | NC             | NC                   | NC                             | NC                      | NC             | NC                | NC                             | NC              |  |
| <b>Type of Housing Unit</b>            |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |  |
| Single-Family                          | 11.3                 | 196.8          | 57.7          | 4.62                           | 5.6                  | 50.3           | 49                   | .24                            | .8                      | 5.7            | .06               | .07                            | 14.1            |  |
| Mobile Home                            | 1.2                  | 16.2           | 4.7           | .40                            | .6                   | 4.6            | 5                    | .03                            | .2                      | 1.6            | .02               | .02                            | 38.6            |  |
| Multifamily (2 or more units)          | 4.1                  | 30.4           | 8.9           | .85                            | 2.0                  | 13.8           | 13                   | .07                            | NC                      | NC             | NC                | NC                             | 15.6            |  |
| <b>Heated Floorspace (square feet)</b> |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |  |
| Fewer than 1,000                       | 4.8                  | 45.4           | 13.3          | 1.14                           | 1.9                  | 12.3           | 12                   | .06                            | .4                      | 2.1            | .02               | Q                              | 22.5            |  |
| 1,000 to 1,999                         | 6.3                  | 89.8           | 26.3          | 2.12                           | 3.3                  | 25.4           | 25                   | .13                            | .4                      | Q              | Q                 | .04                            | 13.1            |  |
| 2,000 or More                          | 5.5                  | 108.2          | 31.7          | 2.61                           | 3.0                  | 30.9           | 30                   | .14                            | .3                      | 1.8            | .02               | .03                            | 16.6            |  |
| <b>Ownership of Unit</b>               |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |  |
| Owned                                  | 11.8                 | 197.6          | 57.9          | 4.65                           | 5.7                  | 52.4           | 51                   | .25                            | .9                      | 6.4            | .07               | .08                            | 13.0            |  |
| Rented                                 | 4.8                  | 45.8           | 13.4          | 1.22                           | 2.5                  | 16.3           | 16                   | .08                            | Q                       | Q              | Q                 | Q                              | 13.5            |  |
| <b>Year of Construction</b>            |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |  |
| 1949 or Before                         | 6.6                  | 89.6           | 26.3          | 2.21                           | 4.0                  | 29.2           | 29                   | .15                            | .4                      | 3.2            | .03               | .03                            | 16.2            |  |
| 1950 to 1979                           | 7.9                  | 118.3          | 34.7          | 2.81                           | 3.3                  | 28.8           | 28                   | .14                            | .4                      | 2.5            | .03               | .03                            | 15.8            |  |
| 1980 or After <sup>2</sup>             | 2.1                  | 35.5           | 10.4          | .85                            | .9                   | 10.7           | 10                   | .05                            | Q                       | Q              | Q                 | Q                              | 31.1            |  |
| <b>1990 Family Income</b>              |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |  |
| Less than \$10,000                     | 2.7                  | 27.9           | 8.2           | .68                            | 1.4                  | 10.5           | 10                   | .05                            | Q                       | Q              | Q                 | Q                              | 30.7            |  |
| \$10,000 to \$19,999                   | 3.6                  | 37.8           | 11.1          | .96                            | 1.7                  | 10.8           | 11                   | .06                            | .3                      | 1.9            | .02               | .02                            | 15.9            |  |
| \$20,000 to \$34,999                   | 4.6                  | 73.6           | 21.6          | 1.76                           | 2.1                  | 14.1           | 14                   | .07                            | .3                      | 1.7            | .02               | .02                            | 15.1            |  |
| \$35,000 or More                       | 5.7                  | 104.1          | 30.5          | 2.47                           | 2.9                  | 33.2           | 32                   | .15                            | Q                       | Q              | Q                 | Q                              | 21.4            |  |
| <b>Below Poverty Line</b>              |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |  |
| 100 Percent                            | 2.0                  | 24.0           | 7.0           | .60                            | 1.0                  | 8.6            | 8                    | .04                            | .2                      | 1.9            | .02               | .03                            | 22.5            |  |
| 125 Percent                            | 2.8                  | 32.4           | 9.5           | .81                            | 1.4                  | 11.2           | 11                   | .06                            | Q                       | 2.5            | .03               | .03                            | 22.4            |  |
| <b>Age of Householder</b>              |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |  |
| Under 35 Years                         | 4.9                  | 68.0           | 19.9          | 1.62                           | 2.3                  | 20.7           | 20                   | .10                            | .2                      | 1.2            | .01               | .02                            | 19.9            |  |
| 35 to 59 Years                         | 6.8                  | 118.3          | 34.7          | 2.85                           | 3.5                  | 31.5           | 31                   | .15                            | .4                      | 4.1            | .05               | .05                            | 14.7            |  |
| 60 Years and Over                      | 4.9                  | 57.0           | 16.7          | 1.41                           | 2.4                  | 16.4           | 16                   | .08                            | .4                      | 2.0            | .02               | .02                            | 18.2            |  |
| <b>Household Size</b>                  |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |  |
| 1 Person                               | 4.2                  | 28.1           | 8.2           | .73                            | 2.1                  | 11.1           | 11                   | .06                            | Q                       | Q              | Q                 | Q                              | 20.1            |  |
| 2 to 4 Persons                         | 10.8                 | 176.8          | 51.8          | 4.27                           | 5.2                  | 49.1           | 48                   | .24                            | .7                      | 5.0            | .05               | .05                            | 13.5            |  |
| 5 or More Persons                      | 1.6                  | 38.5           | 11.3          | .87                            | .8                   | 8.4            | 8                    | .04                            | .2                      | 2.1            | .02               | .03                            | 22.2            |  |

See footnotes at end of table.

**Table 53. Total Consumption and Expenditures for Appliances in Midwest Region Households, 1990 (Continued)**

| Characteristics                        | Electricity          |                |               |                                 | Natural Gas          |                |                      |                                 | Liquefied Petroleum Gas |                |                   |                                 | RSE Row Factors |
|--|----------------------|----------------|---------------|---------------------------------|----------------------|----------------|----------------------|---------------------------------|-------------------------|----------------|-------------------|---------------------------------|-----------------|
|  | Households (million) | Consumed       |               | Expenditures (billions dollars) | Households (million) | Consumed       |                      | Expenditures (billions dollars) | Households (million)    | Consumed       |                   | Expenditures (billions dollars) |                 |
|  |                      | (trillion Btu) | (billion kWh) |                                 |                      | (trillion Btu) | (billion cubic feet) |                                 |                         | (trillion Btu) | (billion gallons) |                                 |                 |
| RSE Column Factors:                    | 0.5                  | NF             | NF            | NF                              | 0.8                  | NF             | NF                   | NF                              | 1.9                     | NF             | NF                | NF                              |                 |
| <b>West North Central Division</b>     | 6.5                  | 100.5          | 29.5          | 2.28                            | 2.8                  | 20.1           | 20                   | 0.10                            | 0.5                     | 2.9            | 0.03              | 0.03                            | 10.2            |
| <b>Climate Zone<sup>1</sup></b>        |                      |                |               |                                 |                      |                |                      |                                 |                         |                |                   |                                 |                 |
| Under 2,000 CDD and Over 5,500 HDD     | 4.0                  | 57.8           | 16.9          | 1.30                            | 1.7                  | 10.5           | 10                   | .05                             | .2                      | 1.4            | .02               | .02                             | 12.0            |
| Under 5,500 HDD and 2,000 CDD or More  | 2.5                  | 42.7           | 12.5          | .99                             | 1.0                  | 9.7            | 10                   | .05                             | .3                      | 1.5            | .02               | Q                               | 12.9            |
| Under 4,000 HDD                        | NC                   | NC             | NC            | NC                              | NC                   | NC             | NC                   | NC                              | NC                      | NC             | NC                | NC                              | NC              |
| <b>Type of Housing Unit</b>            |                      |                |               |                                 |                      |                |                      |                                 |                         |                |                   |                                 |                 |
| Single-Family                          | 4.8                  | 84.2           | 24.7          | 1.92                            | 2.2                  | 17.0           | 17                   | .08                             | .4                      | 2.5            | .03               | .02                             | 11.8            |
| Mobile Home                            | .4                   | 4.7            | 1.4           | .10                             | .2                   | 1.3            | 1                    | .01                             | .1                      | .4             | (*)               | (*)                             | 30.6            |
| Multifamily (2 or more units)          | 1.3                  | 11.6           | 3.4           | .26                             | .4                   | 1.9            | 2                    | .01                             | Q                       | Q              | Q                 | Q                               | 24.3            |
| <b>Heated Floorspace (square feet)</b> |                      |                |               |                                 |                      |                |                      |                                 |                         |                |                   |                                 |                 |
| Fewer than 1,000                       | 1.7                  | 16.7           | 4.9           | .39                             | .6                   | 3.8            | 4                    | .02                             | .2                      | .7             | .01               | Q                               | 15.8            |
| 1,000 to 1,999                         | 2.5                  | 39.2           | 11.5          | .90                             | 1.0                  | 6.9            | 7                    | .03                             | .2                      | 1.0            | .01               | .01                             | 15.7            |
| 2,000 or More                          | 2.2                  | 44.5           | 13.0          | 1.00                            | 1.1                  | 9.5            | 9                    | .05                             | .2                      | 1.2            | .01               | .01                             | 14.4            |
| <b>Ownership of Unit</b>               |                      |                |               |                                 |                      |                |                      |                                 |                         |                |                   |                                 |                 |
| Owned                                  | 4.6                  | 80.9           | 23.7          | 1.82                            | 2.1                  | 15.9           | 16                   | .08                             | .5                      | 2.6            | .03               | .03                             | 10.4            |
| Rented                                 | 1.9                  | 19.6           | 5.7           | .46                             | .7                   | 4.3            | 4                    | .02                             | Q                       | Q              | Q                 | Q                               | 22.5            |
| <b>Year of Construction</b>            |                      |                |               |                                 |                      |                |                      |                                 |                         |                |                   |                                 |                 |
| 1949 or Before                         | 2.3                  | 32.2           | 9.4           | .74                             | 1.2                  | 7.8            | 8                    | .04                             | .2                      | 1.4            | .02               | .01                             | 12.4            |
| 1950 to 1979                           | 3.4                  | 56.7           | 16.6          | 1.28                            | 1.3                  | 10.7           | 11                   | .05                             | Q                       | Q              | Q                 | Q                               | 12.8            |
| 1980 or After <sup>2</sup>             | .7                   | 11.6           | 3.4           | .27                             | Q                    | Q              | Q                    | Q                               | .1                      | .5             | (*)               | (*)                             | 24.7            |
| <b>1990 Family Income</b>              |                      |                |               |                                 |                      |                |                      |                                 |                         |                |                   |                                 |                 |
| Less than \$10,000                     | 1.1                  | 10.8           | 3.2           | .26                             | .4                   | 3.1            | 3                    | .01                             | Q                       | Q              | Q                 | Q                               | 24.5            |
| \$10,000 to \$19,999                   | 1.6                  | 19.5           | 5.7           | .45                             | .7                   | 4.0            | 4                    | .02                             | .1                      | .7             | .01               | Q                               | 16.9            |
| \$20,000 to \$34,999                   | 1.8                  | 29.7           | 8.7           | .67                             | .8                   | 5.1            | 5                    | .02                             | .2                      | .9             | .01               | .01                             | 11.0            |
| \$35,000 or More                       | 2.0                  | 40.5           | 11.9          | .90                             | .9                   | 7.9            | 8                    | .04                             | .1                      | .7             | .01               | .01                             | 17.5            |
| <b>Below Poverty Line</b>              |                      |                |               |                                 |                      |                |                      |                                 |                         |                |                   |                                 |                 |
| 100 Percent                            | .6                   | 8.2            | 2.4           | .19                             | .2                   | 1.7            | 2                    | .01                             | Q                       | Q              | Q                 | Q                               | 31.4            |
| 125 Percent                            | 1.1                  | 13.8           | 4.0           | .32                             | .4                   | 2.5            | 3                    | .01                             | Q                       | Q              | Q                 | Q                               | 26.8            |
| <b>Age of Householder</b>              |                      |                |               |                                 |                      |                |                      |                                 |                         |                |                   |                                 |                 |
| Under 35 Years                         | 1.8                  | 25.2           | 7.4           | .58                             | .9                   | 5.6            | 6                    | .03                             | .1                      | .5             | .01               | .01                             | 15.0            |
| 35 to 59 Years                         | 2.7                  | 49.6           | 14.5          | 1.12                            | 1.1                  | 9.5            | 9                    | .05                             | .2                      | 1.6            | .02               | .02                             | 14.0            |
| 60 Years and Over                      | 2.0                  | 25.6           | 7.5           | .59                             | .7                   | 5.0            | 5                    | .02                             | .2                      | .8             | .01               | .01                             | 13.4            |
| <b>Household Size</b>                  |                      |                |               |                                 |                      |                |                      |                                 |                         |                |                   |                                 |                 |
| 1 Person                               | 1.8                  | 15.4           | 4.5           | .37                             | .7                   | 3.4            | 3                    | .02                             | Q                       | .3             | (*)               | (*)                             | 20.4            |
| 2 to 4 Persons                         | 4.2                  | 74.7           | 21.9          | 1.68                            | 1.9                  | 15.1           | 15                   | .07                             | .4                      | 2.2            | .02               | .02                             | 9.3             |
| 5 or More Persons                      | .4                   | 10.4           | 3.0           | .24                             | .2                   | 1.7            | 2                    | .01                             | Q                       | Q              | Q                 | Q                               | 32.9            |

1 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.  
 2 Does not include all new construction for 1990.  
 NC = No cases in sample.

(\*) = Data cannot be displayed due to rounding.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Appliances do not include refrigerators. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 54. Electricity Consumption and Expenditures for Appliances and Refrigerators, per Midwest Region Household, 1990

| Characteristics   | Electricity Used for Appliances |               |       |                        | Electricity Used for Refrigerators |                                 |               |       | RSE Row Factors |                        |
|---|---------------------------------|---------------|-------|------------------------|------------------------------------|---------------------------------|---------------|-------|-----------------|------------------------|
|   | Households (million)            | Consumed      |       | Expenditures (dollars) | Households (million)               | Average Number of Refrigerators | Consumed      |       |                 | Expenditures (dollars) |
|   |                                 | (million Btu) | (kWh) |                        |                                    |                                 | (million Btu) | (kWh) |                 |                        |
| RSE Column Factors:                                     | 1.5                             | NF            | NF    | NF                     | 1.5                                | 0.5                             | NF            | NF    | NF              |                        |
| Midwest Region  |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| <b>Total Region</b> .....                               | 23.1                            | 14.9          | 4,369 | 354                    | 23.1                               | 1.2                             | 5.0           | 1,460 | 120             | 3.0                    |
| <b>Climate Zone<sup>1</sup></b>                         |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Under 2,000 CDD and Over 5,500 HDD .....                | 19.7                            | 14.6          | 4,267 | 344                    | 19.7                               | 1.2                             | 4.8           | 1,401 | 115             | 3.1                    |
| Under 5,500 HDD and 2,000 CDD or More .....             | 3.4                             | 16.9          | 4,958 | 411                    | 3.4                                | 1.3                             | 6.2           | 1,804 | 149             | 7.6                    |
| Under 4,000 HDD .....                                   | NC                              | NC            | NC    | NC                     | NC                                 | NC                              | NC            | NC    | NC              | NC                     |
| <b>Type of Housing Unit</b>                             |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Single-Family .....                                     | 16.0                            | 17.5          | 5,142 | 408                    | 16.0                               | 1.3                             | 5.6           | 1,640 | 132             | 2.8                    |
| Mobile Home .....                                       | 1.6                             | 13.0          | 3,801 | 310                    | 1.6                                | 1.0                             | 3.6           | 1,056 | 86              | 7.7                    |
| Multifamily (2 or more units) ..                        | 5.4                             | 7.7           | 2,263 | 205                    | 5.4                                | 1.0                             | 3.6           | 1,051 | 97              | 3.9                    |
| <b>Heated Floorspace (square feet)</b>                  |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Fewer than 1,000 .....                                  | 6.5                             | 9.5           | 2,783 | 234                    | 6.5                                | 1.0                             | 3.7           | 1,091 | 93              | 4.1                    |
| 1,000 to 1,999 .....                                    | 8.8                             | 14.7          | 4,321 | 345                    | 8.8                                | 1.2                             | 5.1           | 1,506 | 123             | 4.2                    |
| 2,000 or More .....                                     | 7.8                             | 19.6          | 5,756 | 464                    | 7.8                                | 1.4                             | 5.9           | 1,719 | 139             | 3.3                    |
| <b>Ownership of Unit</b>                                |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Owned .....   | 16.4                            | 17.0          | 4,984 | 396                    | 16.4                               | 1.3                             | 5.4           | 1,594 | 128             | 2.8                    |
| Rented .....  | 6.7                             | 9.8           | 2,863 | 251                    | 6.7                                | 1.1                             | 3.9           | 1,134 | 101             | 4.4                    |
| <b>Year of Construction</b>                             |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1949 or Before .....                                    | 9.0                             | 13.6          | 3,977 | 329                    | 9.0                                | 1.2                             | 5.0           | 1,454 | 122             | 3.9                    |
| 1950 to 1979 .....                                      | 11.3                            | 15.5          | 4,552 | 363                    | 11.3                               | 1.2                             | 5.1           | 1,480 | 120             | 3.7                    |
| 1980 or After <sup>2</sup> .....                        | 2.8                             | 16.7          | 4,881 | 395                    | 2.8                                | 1.3                             | 4.8           | 1,402 | 113             | 7.8                    |
| <b>1990 Family Income</b>                               |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Less than \$10,000 .....                                | 3.7                             | 10.3          | 3,032 | 251                    | 3.7                                | 1.1                             | 4.3           | 1,252 | 107             | 5.8                    |
| \$10,000 to \$19,999 .....                              | 5.2                             | 11.1          | 3,252 | 274                    | 5.2                                | 1.2                             | 4.5           | 1,309 | 112             | 4.0                    |
| \$20,000 to \$34,999 .....                              | 6.4                             | 16.0          | 4,703 | 376                    | 6.4                                | 1.2                             | 4.9           | 1,445 | 116             | 3.9                    |
| \$35,000 or More .....                                  | 7.7                             | 18.7          | 5,482 | 437                    | 7.7                                | 1.3                             | 5.7           | 1,675 | 136             | 4.1                    |
| <b>Below Poverty Line</b>                               |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 100 Percent .....                                       | 2.7                             | 12.1          | 3,554 | 297                    | 2.7                                | 1.1                             | 4.2           | 1,230 | 104             | 6.9                    |
| 125 Percent .....                                       | 3.9                             | 11.9          | 3,488 | 292                    | 3.9                                | 1.1                             | 4.2           | 1,235 | 104             | 5.6                    |
| <b>Age of Householder</b>                               |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Under 35 Years .....                                    | 6.7                             | 13.9          | 4,081 | 328                    | 6.7                                | 1.1                             | 4.3           | 1,248 | 103             | 4.6                    |
| 35 to 59 Years .....                                    | 9.4                             | 17.9          | 5,232 | 421                    | 9.4                                | 1.3                             | 5.5           | 1,614 | 132             | 3.2                    |
| 60 Years and Over .....                                 | 7.0                             | 11.9          | 3,480 | 287                    | 7.0                                | 1.2                             | 5.0           | 1,457 | 121             | 3.9                    |
| <b>Household Size</b>                                   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1 Person .....  | 6.0                             | 7.2           | 2,120 | 183                    | 6.0                                | 1.1                             | 3.9           | 1,148 | 101             | 3.9                    |
| 2 to 4 Persons .....                                    | 15.0                            | 16.7          | 4,901 | 395                    | 15.0                               | 1.3                             | 5.4           | 1,572 | 127             | 2.6                    |
| 5 or More Persons .....                                 | 2.0                             | 24.2          | 7,102 | 552                    | 2.0                                | 1.2                             | 5.3           | 1,558 | 123             | 6.9                    |
| <b>Average Electricity Expenditures (cents per kWh)</b> |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Less than 6 .....                                       | 1.7                             | 20.5          | 6,014 | 312                    | --                                 | --                              | --            | --    | --              | 13.9                   |
| 6 to Less than 9 .....                                  | 12.8                            | 16.1          | 4,711 | 345                    | --                                 | --                              | --            | --    | --              | 4.0                    |
| 9 or More .....   | 8.5                             | 12.0          | 3,524 | 375                    | --                                 | --                              | --            | --    | --              | 5.7                    |

See footnotes at end of table.

APPLIANCE CONSUMPTION/EXPENDITURES

Table 54. Electricity Consumption and Expenditures for Appliances and Refrigerators, per Midwest Region Household, 1990 (Continued)

| Characteristics  | Electricity Used for Appliances |               |       |                        | Electricity Used for Refrigerators |                                 |               |       | RSE Row Factors |                        |
|--|---------------------------------|---------------|-------|------------------------|------------------------------------|---------------------------------|---------------|-------|-----------------|------------------------|
|  | Households (million)            | Consumed      |       | Expenditures (dollars) | Households (million)               | Average Number of Refrigerators | Consumed      |       |                 | Expenditures (dollars) |
|  |                                 | (million Btu) | (kWh) |                        |                                    |                                 | (million Btu) | (kWh) |                 |                        |
| RSE Column Factors:  | 1.5                             | NF            | NF    | NF                     | 1.5                                | 0.5                             | NF            | NF    | NF              |                        |
| Midwest Region   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Average Electric Refrigerator Expenditures (cents per kWh) | --                              | --            | --    | --                     | 1.7                                | 1.4                             | 6.2           | 1,816 | 96              | 14.0                   |
| Less than 6  | --                              | --            | --    | --                     | 12.8                               | 1.2                             | 5.3           | 1,550 | 114             | 4.0                    |
| 6 to Less than 9   | --                              | --            | --    | --                     | 8.6                                | 1.1                             | 4.3           | 1,258 | 135             | 5.7                    |
| 9 or More  | --                              | --            | --    | --                     |                                    |                                 |               |       |                 |                        |
| Appliances Present in Household (more than one may apply)  |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Separate Freezer   | 9.1                             | 19.5          | 5,716 | 442                    | 9.1                                | 1.3                             | 5.5           | 1,600 | 123             | 3.0                    |
| Dishwasher   | 9.3                             | 18.2          | 5,346 | 423                    | 9.3                                | 1.3                             | 5.6           | 1,630 | 131             | 4.5                    |
| Clothes Washer   | 17.7                            | 17.3          | 5,074 | 406                    | 17.7                               | 1.3                             | 5.4           | 1,574 | 127             | 2.6                    |
| Clothes Dryer  | 11.7                            | 18.8          | 5,512 | 422                    | 11.7                               | 1.3                             | 5.4           | 1,586 | 121             | 3.4                    |
| Waterbed Heater  | 4.6                             | 19.5          | 5,721 | 430                    | 4.6                                | 1.3                             | 5.2           | 1,524 | 115             | 5.6                    |
| Swimming-Pool Pump   | .9                              | 28.5          | 8,367 | 683                    | .9                                 | 1.3                             | 6.0           | 1,758 | 140             | 14.0                   |
| Hot-Tub or Spa Pump  | .4                              | 27.4          | 8,036 | 642                    | .4                                 | 1.6                             | 8.2           | 2,400 | 191             | 19.1                   |
| Hot-Tub or Spa Heater                                      | .3                              | 25.4          | 7,442 | 592                    | .3                                 | 1.8                             | 7.1           | 2,083 | 166             | 18.2                   |
| Well Pump  | 4.8                             | 20.1          | 5,883 | 450                    | 4.8                                | 1.3                             | 5.6           | 1,628 | 124             | 6.4                    |
| Appliance Combinations                                     |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Dishwasher, Clothes Washer, and Clothes Dryer              |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| With   | 5.4                             | 21.1          | 6,191 | 466                    | 5.4                                | 1.3                             | 5.8           | 1,692 | 128             | 4.0                    |
| Without  | 4.0                             | 6.9           | 2,017 | 182                    | 4.0                                | 1.0                             | 3.8           | 1,108 | 102             | 5.4                    |
| Well Pump and Separate Freezer                             |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| With   | 3.2                             | 21.7          | 6,349 | 484                    | 3.2                                | 1.4                             | 5.6           | 1,648 | 125             | 6.5                    |
| Without  | 12.3                            | 11.2          | 3,291 | 284                    | 12.3                               | 1.1                             | 4.6           | 1,340 | 117             | 3.5                    |
| Main Heating Fuel  |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Natural Gas  | 16.5                            | 14.0          | 4,114 | 348                    | 16.5                               | 1.2                             | 4.9           | 1,445 | 124             | 3.1                    |
| Electricity  | 2.6                             | 15.0          | 4,392 | 283                    | 2.6                                | 1.2                             | 5.2           | 1,530 | 104             | 11.0                   |
| Fuel Oil or Kerosene                                       | 1.3                             | 18.7          | 5,494 | 395                    | 1.3                                | 1.3                             | 5.4           | 1,597 | 113             | 9.2                    |
| Wood   | 1.0                             | 18.1          | 5,314 | 416                    | 1.0                                | 1.3                             | 4.7           | 1,369 | 106             | 10.9                   |
| LPG  | 1.6                             | 18.3          | 5,370 | 441                    | 1.6                                | 1.2                             | 5.0           | 1,456 | 121             | 8.6                    |
| Other  | Q                               | Q             | Q     | Q                      | Q                                  | Q                               | Q             | Q     | Q               | NF                     |
| Number of Refrigerators                                    |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1  | 18.4                            | 13.6          | 3,988 | 330                    | 18.4                               | 1.0                             | 4.1           | 1,204 | 102             | 2.2                    |
| 2 or More  | 4.7                             | 20.0          | 5,850 | 444                    | 4.7                                | 2.0                             | 8.4           | 2,451 | 190             | 3.7                    |

See footnotes at end of table.

MIDWEST

Table 54. Electricity Consumption and Expenditures for Appliances and Refrigerators, per Midwest Region Household, 1990 (Continued)

| Characteristics   | Electricity Used for Appliances |                 |       |                          | Electricity Used for Refrigerators |                                   |                 |       | RSE Row Factors |                          |
|---|---------------------------------|-----------------|-------|--------------------------|------------------------------------|-----------------------------------|-----------------|-------|-----------------|--------------------------|
|   | Households (mil- lion)          | Consumed        |       | Expend- itures (dollars) | House- holds (mil- lion)           | Average Number of Refrig- erators | Consumed        |       |                 | Expend- itures (dollars) |
|   |                                 | (mil- lion Btu) | (kWh) |                          |                                    |                                   | (mil- lion Btu) | (kWh) |                 |                          |
| RSE Column Factors:   | 1.5                             | NF              | NF    | NF                       | 1.5                                | 0.5                               | NF              | NF    | NF              |                          |
| <b>East North Central Division ...</b>                          | 16.6                            | 14.7            | 4,294 | 354                      | 16.6                               | 1.2                               | 4.8             | 1,413 | 119             | 2.9                      |
| <b>Climate Zone<sup>1</sup></b>                                 |                                 |                 |       |                          |                                    |                                   |                 |       |                 |                          |
| Under 2,000 CDD and Over 5,500 HDD .....                        | 15.7                            | 14.6            | 4,274 | 349                      | 15.7                               | 1.2                               | 4.8             | 1,395 | 117             | 3.9                      |
| Under 5,500 HDD and 2,000 CDD or More and Under 4,000 HDD ..... | NC                              | NC              | 4,632 | 437                      | Q                                  | 1.3                               | 5.8             | 1,711 | 153             | 15.7                     |
| <b>Type of Housing Unit</b>                                     |                                 |                 |       |                          |                                    |                                   |                 |       |                 |                          |
| Single-Family .....   | 11.3                            | 17.5            | 5,127 | 411                      | 11.3                               | 1.3                               | 5.4             | 1,596 | 129             | 3.8                      |
| Mobile Home .....   | 1.2                             | 13.2            | 3,878 | 324                      | 1.2                                | 1.0                               | 3.5             | 1,040 | 86              | 10.0                     |
| Multifamily (2 or more units) ..                                | 4.1                             | 7.3             | 2,153 | 206                      | 4.1                                | 1.0                               | 3.5             | 1,024 | 99              | 4.8                      |
| <b>Heated Floorspace (square feet)</b>                          |                                 |                 |       |                          |                                    |                                   |                 |       |                 |                          |
| Fewer than 1,000 .....  | 4.8                             | 9.5             | 2,772 | 238                      | 4.8                                | 1.0                               | 3.6             | 1,057 | 92              | 5.3                      |
| 1,000 to 1,999 .....  | 6.3                             | 14.3            | 4,200 | 339                      | 6.3                                | 1.2                               | 5.1             | 1,482 | 123             | 5.8                      |
| 2,000 or More .....   | 5.5                             | 19.5            | 5,717 | 470                      | 5.5                                | 1.4                               | 5.6             | 1,642 | 136             | 3.9                      |
| <b>Ownership of Unit</b>  |                                 |                 |       |                          |                                    |                                   |                 |       |                 |                          |
| Owned .....   | 11.8                            | 16.7            | 4,902 | 394                      | 11.8                               | 1.3                               | 5.2             | 1,536 | 125             | 3.8                      |
| Rented .....  | 4.8                             | 9.5             | 2,797 | 254                      | 4.8                                | 1.1                               | 3.8             | 1,108 | 103             | 5.7                      |
| <b>Year of Construction</b>                                     |                                 |                 |       |                          |                                    |                                   |                 |       |                 |                          |
| 1949 or Before .....  | 6.6                             | 13.5            | 3,961 | 334                      | 6.6                                | 1.2                               | 4.9             | 1,423 | 122             | 5.0                      |
| 1950 to 1979 .....  | 7.9                             | 15.0            | 4,401 | 357                      | 7.9                                | 1.2                               | 4.8             | 1,404 | 116             | 4.9                      |
| 1980 or After .....   | 2.1                             | 16.9            | 4,945 | 404                      | 2.1                                | 1.3                               | 4.8             | 1,413 | 115             | 10.2                     |
| <b>1990 Family Income</b>                                       |                                 |                 |       |                          |                                    |                                   |                 |       |                 |                          |
| Less than \$10,000 .....  | 2.7                             | 10.4            | 3,056 | 254                      | 2.7                                | 1.2                               | 4.1             | 1,211 | 104             | 7.8                      |
| \$10,000 to \$19,999 .....                                      | 3.6                             | 10.6            | 3,105 | 270                      | 3.6                                | 1.2                               | 4.3             | 1,257 | 111             | 5.3                      |
| \$20,000 to \$34,999 .....                                      | 4.6                             | 15.9            | 4,667 | 380                      | 4.6                                | 1.2                               | 4.9             | 1,441 | 117             | 5.2                      |
| \$35,000 or More .....  | 5.7                             | 18.1            | 5,308 | 430                      | 5.7                                | 1.3                               | 5.4             | 1,580 | 131             | 5.4                      |
| <b>Below Poverty Line</b>                                       |                                 |                 |       |                          |                                    |                                   |                 |       |                 |                          |
| 100 Percent .....   | 2.0                             | 12.0            | 3,511 | 298                      | 2.0                                | 1.1                               | 4.0             | 1,186 | 102             | 8.7                      |
| 125 Percent .....   | 2.8                             | 11.6            | 3,399 | 290                      | 2.8                                | 1.1                               | 4.1             | 1,188 | 102             | 7.4                      |
| <b>Age of Householder</b>                                       |                                 |                 |       |                          |                                    |                                   |                 |       |                 |                          |
| Under 35 Years .....  | 4.9                             | 13.8            | 4,042 | 328                      | 4.9                                | 1.1                               | 4.2             | 1,219 | 102             | 6.1                      |
| 35 to 59 Years .....  | 6.8                             | 17.5            | 5,135 | 421                      | 6.8                                | 1.3                               | 5.3             | 1,554 | 130             | 4.2                      |
| 60 Years and Over .....   | 4.9                             | 11.6            | 3,393 | 286                      | 4.9                                | 1.2                               | 4.8             | 1,413 | 120             | 5.2                      |
| <b>Household Size</b>   |                                 |                 |       |                          |                                    |                                   |                 |       |                 |                          |
| 1 Person .....  | 4.2                             | 6.7             | 1,965 | 175                      | 4.2                                | 1.1                               | 3.7             | 1,080 | 98              | 5.3                      |
| 2 to 4 Persons .....  | 10.8                            | 16.3            | 4,785 | 394                      | 10.8                               | 1.3                               | 5.2             | 1,524 | 126             | 3.4                      |
| 5 or More Persons .....   | 1.6                             | 24.2            | 7,086 | 549                      | 1.6                                | 1.2                               | 5.2             | 1,529 | 121             | 8.5                      |

See footnotes at end of table.

APPLIANCE CONSUMPTION/EXPENDITURES

Table 54. Electricity Consumption and Expenditures for Appliances and Refrigerators, per Midwest Region Household, 1990 (Continued)

| Characteristics                        | Electricity Used for Appliances |               |       |                      | Electricity Used for Refrigerators |               |       |                        | RSE Flow Factors |     |
|--|---------------------------------|---------------|-------|----------------------|------------------------------------|---------------|-------|------------------------|------------------|-----|
|  | Households (million)            | Consumed      |       | Households (million) | Average Number of Refrigerators    | Consumed      |       | Expenditures (dollars) |                  |     |
|  |                                 | (million Btu) | (KWh) |                      |                                    | (million Btu) | (KWh) |                        |                  |     |
| RSE Column Factors:                    | 1.5                             | NF            | NF    | NF                   | 1.5                                | 0.5           | NF    | NF                     | NF               |     |
| <b>West North Central Division</b>     | 6.5                             | 15.6          | 4,561 | 384                  | 6.5                                | 1.2           | 5.4   | 1,583                  | 124              | 3.6 |
| <b>Climate Zone<sup>1</sup></b>        |                                 |               |       |                      |                                    |               |       |                        |                  |     |
| Under 2,000 CDD and Over 5,500 HDD     | 4.0                             | 14.5          | 4,240 | 324                  | 4.0                                | 1.2           | 4.9   | 1,426                  | 110              | 3.7 |
| Under 5,500 HDD and 2,000 CDD or More  | 2.5                             | 17.3          | 5,081 | 401                  | 2.5                                | 1.3           | 6.3   | 1,839                  | 147              | 7.6 |
| Under 4,000 HDD                        | NC                              | NC            | NC    | NC                   | NC                                 | NC            | NC    | NC                     | NC               | NC  |
| <b>Type of Housing Unit</b>            |                                 |               |       |                      |                                    |               |       |                        |                  |     |
| Single-Family                          | 4.8                             | 17.7          | 5,176 | 402                  | 4.8                                | 1.3           | 6.0   | 1,745                  | 137              | 4.0 |
| Mobile Home                            | .4                              | 12.1          | 3,556 | 269                  | .4                                 | 1.0           | 3.8   | 1,108                  | 86               | 9.5 |
| Multifamily (2 or more units)          | 1.3                             | 8.9           | 2,612 | 202                  | 1.3                                | 1.0           | 3.9   | 1,134                  | 89               | 5.9 |
| <b>Heated Floorspace (square feet)</b> |                                 |               |       |                      |                                    |               |       |                        |                  |     |
| Fewer than 1,000                       | 1.7                             | 9.6           | 2,816 | 223                  | 1.7                                | 1.0           | 4.0   | 1,185                  | 95               | 5.1 |
| 1,000 to 1,999                         | 2.5                             | 15.8          | 4,625 | 361                  | 2.5                                | 1.2           | 5.4   | 1,569                  | 125              | 4.7 |
| 2,000 or More                          | 2.2                             | 20.0          | 5,852 | 448                  | 2.2                                | 1.4           | 6.5   | 1,911                  | 147              | 5.8 |
| <b>Ownership of Unit</b>               |                                 |               |       |                      |                                    |               |       |                        |                  |     |
| Owned                                  | 4.6                             | 17.7          | 5,196 | 400                  | 4.6                                | 1.3           | 5.9   | 1,742                  | 136              | 4.1 |
| Rented                                 | 1.9                             | 10.3          | 3,030 | 243                  | 1.9                                | 1.1           | 4.1   | 1,202                  | 97               | 5.5 |
| <b>Year of Construction</b>            |                                 |               |       |                      |                                    |               |       |                        |                  |     |
| 1949 or Before                         | 2.3                             | 13.7          | 4,023 | 315                  | 2.3                                | 1.2           | 5.3   | 1,543                  | 123              | 4.2 |
| 1950 to 1979                           | 3.4                             | 16.7          | 4,904 | 377                  | 3.4                                | 1.3           | 5.7   | 1,657                  | 129              | 5.0 |
| 1980 or After <sup>2</sup>             | .7                              | 16.0          | 4,893 | 369                  | .7                                 | 1.1           | 4.7   | 1,369                  | 108              | 9.3 |
| <b>1990 Family Income</b>              |                                 |               |       |                      |                                    |               |       |                        |                  |     |
| Less than \$10,000                     | 1.1                             | 10.1          | 2,974 | 244                  | 1.1                                | 1.1           | 4.6   | 1,355                  | 113              | 6.1 |
| \$10,000 to \$19,999                   | 1.6                             | 12.2          | 3,581 | 284                  | 1.6                                | 1.2           | 4.9   | 1,426                  | 114              | 5.0 |
| \$20,000 to \$34,999                   | 1.8                             | 16.4          | 4,793 | 367                  | 1.8                                | 1.2           | 5.0   | 1,456                  | 112              | 3.9 |
| \$35,000 or More                       | 2.0                             | 20.4          | 5,990 | 456                  | 2.0                                | 1.4           | 6.7   | 1,949                  | 150              | 7.1 |
| <b>Below Poverty Line</b>              |                                 |               |       |                      |                                    |               |       |                        |                  |     |
| 100 Percent                            | .6                              | 12.6          | 3,684 | 291                  | .6                                 | 1.1           | 4.7   | 1,365                  | 111              | 9.4 |
| 125 Percent                            | 1.1                             | 12.7          | 3,717 | 297                  | 1.1                                | 1.1           | 4.6   | 1,357                  | 110              | 6.8 |
| <b>Age of Householder</b>              |                                 |               |       |                      |                                    |               |       |                        |                  |     |
| Under 35 Years                         | 1.8                             | 14.3          | 4,190 | 329                  | 1.8                                | 1.1           | 4.5   | 1,390                  | 106              | 4.7 |
| 35 to 59 Years                         | 2.7                             | 18.7          | 5,477 | 420                  | 2.7                                | 1.3           | 6.0   | 1,768                  | 137              | 5.2 |
| 60 Years and Over                      | 2.0                             | 12.6          | 3,688 | 289                  | 2.0                                | 1.2           | 5.3   | 1,563                  | 123              | 5.2 |
| <b>Household Size</b>                  |                                 |               |       |                      |                                    |               |       |                        |                  |     |
| 1 Person                               | 1.8                             | 8.5           | 2,477 | 201                  | 1.8                                | 1.1           | 4.5   | 1,307                  | 108              | 5.1 |
| 2 to 4 Persons                         | 4.2                             | 17.7          | 5,200 | 399                  | 4.2                                | 1.3           | 5.8   | 1,695                  | 130              | 3.8 |
| 5 or More Persons                      | .4                              | 24.4          | 7,158 | 563                  | .4                                 | 1.2           | 5.7   | 1,668                  | 132              | 7.3 |

1 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

2 Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

-- = Not applicable.

Notes: \* To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. \* Because of rounding, data may not sum to totals. \* See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).



Table 55. Natural Gas and LPG Consumption and Expenditures for Appliances, per Midwest Region Household, 1990

| Characteristics   | Natural Gas          |               |                   |                        | Liquefied Petroleum Gas |               |           |                        | RSE Row Factors |
|---|----------------------|---------------|-------------------|------------------------|-------------------------|---------------|-----------|------------------------|-----------------|
|   | Households (million) | Consumed      |                   | Expenditures (dollars) | Households (million)    | Consumed      |           | Expenditures (dollars) |                 |
|   |                      | (million Btu) | (1000 cubic feet) |                        |                         | (million Btu) | (gallons) |                        |                 |
|   |                      | NF            | NF                |                        |                         | NF            | NF        |                        |                 |
| RSE Column Factors:   | 1.0                  | NF            | NF                | 2.3                    | NF                      | NF            | NF        | NF                     |                 |
| Midwest Region  |                      |               |                   |                        |                         |               |           |                        |                 |
| <b>Total Region</b> .....                                       | 10.9                 | 8.1           | 7.9               | 40                     | 1.5                     | 6.6           | 72        | 75                     | 7.7             |
| <b>Climate Zone<sup>1</sup></b>                                 |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 2,000 HDD and Over 5,500 HDD .....                        | 9.6                  | 8.1           | 7.9               | 39                     | 1.1                     | 6.7           | 74        | 82                     | 9.2             |
| Under 5,500 HDD and 2,000 HDD or More and Under 4,000 HDD ..... | 1.3                  | 8.3           | 8.2               | 41                     | .4                      | 6.2           | 68        | 57                     | 14.9            |
| <b>Type of Housing Unit</b>                                     | NC                   | NC            | NC                | NC                     | NC                      | NC            | NC        | NC                     | NC              |
| Single-Family .....   | 7.8                  | 8.6           | 8.5               | 41                     | 1.2                     | 6.7           | 74        | 76                     | 8.8             |
| Mobile Home .....   | .8                   | 7.1           | 6.9               | 37                     | .3                      | 6.2           | 68        | 73                     | 15.4            |
| Multifamily (2 or more units) ..                                | 2.3                  | 6.7           | 6.6               | 34                     | Q                       | Q             | Q         | Q                      | 8.2             |
| <b>Heated Floorspace (square feet)</b>                          |                      |               |                   |                        |                         |               |           |                        |                 |
| Fewer than 1,000 .....  | 2.5                  | 6.3           | 6.2               | 32                     | .5                      | 5.3           | 58        | 63                     | 10.6            |
| 1,000 to 1,999 .....  | 4.3                  | 7.6           | 7.4               | 38                     | .6                      | 7.8           | 85        | 83                     | 10.9            |
| 2,000 or More .....   | 4.1                  | 9.8           | 9.6               | 45                     | .5                      | 6.6           | 72        | 80                     | 12.1            |
| <b>Ownership of Unit</b>  |                      |               |                   |                        |                         |               |           |                        |                 |
| Owned .....   | 7.8                  | 8.7           | 8.6               | 42                     | 1.4                     | 6.6           | 72        | 75                     | 8.5             |
| Rented .....  | 3.1                  | 6.5           | 6.4               | 33                     | .2                      | 6.6           | 73        | 81                     | 13.8            |
| <b>Year of Construction</b>                                     |                      |               |                   |                        |                         |               |           |                        |                 |
| 1949 or Before .....  | 5.2                  | 7.2           | 7.0               | 36                     | .6                      | 7.5           | 82        | 80                     | 10.1            |
| 1950 to 1979 .....  | 4.7                  | 8.5           | 8.3               | 41                     | .6                      | 5.8           | 63        | 72                     | 9.4             |
| 1980 or After <sup>2</sup> .....                                | 1.1                  | 11.0          | 10.8              | 51                     | .3                      | 6.4           | 71        | 73                     | 23.4            |
| <b>1990 Family Income</b>                                       |                      |               |                   |                        |                         |               |           |                        |                 |
| Less than \$10,000 .....  | 1.8                  | 7.4           | 7.3               | 37                     | .4                      | 5.7           | 62        | 78                     | 17.0            |
| \$10,000 to \$19,999 .....                                      | 2.4                  | 6.2           | 6.1               | 32                     | .5                      | 5.6           | 61        | 64                     | 10.1            |
| \$20,000 to \$34,999 .....                                      | 2.9                  | 6.6           | 6.4               | 33                     | .4                      | 5.7           | 63        | 64                     | 8.6             |
| \$35,000 or More .....  | 3.8                  | 10.9          | 10.6              | 51                     | .2                      | 11.9          | 130       | 115                    | 20.4            |
| <b>Below Poverty Line</b>                                       |                      |               |                   |                        |                         |               |           |                        |                 |
| 100 Percent .....   | 1.3                  | 8.2           | 8.0               | 41                     | .3                      | 7.3           | 80        | 97                     | 12.9            |
| 125 Percent .....   | 1.8                  | 7.4           | 7.3               | 37                     | .5                      | 6.6           | 72        | 85                     | 12.7            |
| <b>Age of Householder</b>                                       |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 35 Years .....  | 3.2                  | 8.3           | 8.1               | 40                     | .4                      | 5.0           | 55        | 62                     | 12.1            |
| 35 to 59 Years .....  | 4.6                  | 8.9           | 8.7               | 42                     | .7                      | 8.5           | 93        | 99                     | 9.7             |
| 60 Years and Over .....   | 3.1                  | 6.9           | 6.7               | 35                     | .5                      | 5.2           | 57        | 53                     | 12.2            |
| <b>Household Size</b>   |                      |               |                   |                        |                         |               |           |                        |                 |
| 1 Person .....  | 2.8                  | 5.2           | 5.1               | 26                     | Q                       | 3.7           | 40        | 45                     | 18.2            |
| 2 to 4 Persons .....  | 7.1                  | 9.0           | 8.8               | 43                     | 1.1                     | 6.6           | 72        | 66                     | 10.7            |
| 5 or More Persons .....   | 1.0                  | 9.9           | 9.7               | 49                     | .3                      | 8.3           | 90        | 123                    | 17.6            |

See footnotes at end of table.

**Table 55. Natural Gas and LPG Consumption and Expenditures for Appliances, per Midwest Region Household, 1990 (Continued)**

| Characteristics                             | Natural Gas          |               |                   |                        |                      |               | Liquefied Petroleum Gas |                        |            |  |  |  | RSE Row Factors |
|---|----------------------|---------------|-------------------|------------------------|----------------------|---------------|-------------------------|------------------------|------------|--|--|--|-----------------|
|   | Households (million) | Consumed      |                   | Expenditures (dollars) | Households (million) | Consumed      |                         | Expenditures (dollars) |            |  |  |  |                 |
|   |                      | (million Btu) | (1000 cubic feet) |                        |                      | (million Btu) | (gallons)               |                        |            |  |  |  |                 |
| RSE Column Factors:                         | 1.0                  | NF            | NF                | NF                     | 2.3                  | NF            | NF                      | NF                     | NF         |  |  |  |                 |
| <b>East North Central Division ...</b>      | <b>8.2</b>           | <b>8.4</b>    | <b>8.2</b>        | <b>41</b>              | <b>1.0</b>           | <b>7.1</b>    | <b>78</b>               | <b>86</b>              | <b>9.7</b> |  |  |  |                 |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |                   |                        |                      |               |                         |                        |            |  |  |  |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 7.9                  | 8.5           | 8.3               | 42                     | .9                   | 6.9           | 76                      | 87                     | 10.7       |  |  |  |                 |
| Under 5,500 HDD .....                       | Q                    | 4.5           | 4.4               | 23                     | Q                    | Q             | Q                       | Q                      | 26.1       |  |  |  |                 |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                   | NC            | NC                | NC                     | NC                   | NC            | NC                      | NC                     | NC         |  |  |  |                 |
| <b>Type of Housing Unit</b>                 |                      |               |                   |                        |                      |               |                         |                        |            |  |  |  |                 |
| Single-Family .....                         | 5.6                  | 9.0           | 8.8               | 43                     | .8                   | 7.2           | 79                      | 87                     | 11.5       |  |  |  |                 |
| Mobile Home .....                           | 6                    | 7.1           | 6.9               | 39                     | .2                   | 6.9           | 75                      | 85                     | 18.7       |  |  |  |                 |
| Multifamily (2 or more units) ..            | 2.0                  | 7.0           | 6.8               | 36                     | NC                   | NC            | NC                      | NC                     | 8.8        |  |  |  |                 |
| <b>Heated Floorspace (square feet)</b>      |                      |               |                   |                        |                      |               |                         |                        |            |  |  |  |                 |
| Fewer than 1,000 .....                      | 1.9                  | 6.5           | 6.3               | 34                     | .4                   | 5.6           | 61                      | 71                     | 12.8       |  |  |  |                 |
| 1,000 to 1,999 .....                        | 3.3                  | 7.8           | 7.6               | 39                     | .4                   | 9.0           | 98                      | 96                     | 13.0       |  |  |  |                 |
| 2,000 or More .....                         | 3.0                  | 10.2          | 10.0              | 47                     | .3                   | 6.8           | 75                      | 94                     | 16.0       |  |  |  |                 |
| <b>Ownership of Unit</b>                    |                      |               |                   |                        |                      |               |                         |                        |            |  |  |  |                 |
| Owned .....                                 | 5.7                  | 9.1           | 8.9               | 44                     | .9                   | 7.0           | 77                      | 84                     | 10.7       |  |  |  |                 |
| Rented .....                                | 2.5                  | 6.6           | 6.5               | 34                     | Q                    | Q             | Q                       | Q                      | 9.4        |  |  |  |                 |
| <b>Year of Construction</b>                 |                      |               |                   |                        |                      |               |                         |                        |            |  |  |  |                 |
| 1949 or Before .....                        | 4.0                  | 7.3           | 7.2               | 37                     | .4                   | 8.5           | 93                      | 93                     | 12.5       |  |  |  |                 |
| 1950 to 1979 .....                          | 3.3                  | 8.6           | 8.4               | 42                     | .4                   | 5.6           | 62                      | 77                     | 11.6       |  |  |  |                 |
| 1980 or After <sup>2</sup> .....            | .9                   | 12.4          | 12.2              | 56                     | Q                    | Q             | Q                       | Q                      | 42.9       |  |  |  |                 |
| <b>1990 Family Income</b>                   |                      |               |                   |                        |                      |               |                         |                        |            |  |  |  |                 |
| Less than \$10,000 .....                    | 1.4                  | 7.6           | 7.4               | 38                     | Q                    | 5.8           | 63                      | 85                     | 23.4       |  |  |  |                 |
| \$10,000 to \$19,999 .....                  | 1.7                  | 6.2           | 6.1               | 32                     | .3                   | 6.0           | 66                      | 72                     | 12.2       |  |  |  |                 |
| \$20,000 to \$34,999 .....                  | 2.1                  | 6.6           | 6.4               | 33                     | .3                   | 5.8           | 63                      | 73                     | 11.2       |  |  |  |                 |
| \$35,000 or More .....                      | 2.9                  | 11.4          | 11.1              | 53                     | Q                    | Q             | Q                       | Q                      | 18.5       |  |  |  |                 |
| <b>Below Poverty Line</b>                   |                      |               |                   |                        |                      |               |                         |                        |            |  |  |  |                 |
| 100 Percent .....                           | 1.0                  | 8.5           | 8.2               | 43                     | .2                   | 8.2           | 90                      | 113                    | 14.9       |  |  |  |                 |
| 125 Percent .....                           | 1.4                  | 7.8           | 7.5               | 39                     | Q                    | 7.0           | 76                      | 96                     | 15.7       |  |  |  |                 |
| <b>Age of Householder</b>                   |                      |               |                   |                        |                      |               |                         |                        |            |  |  |  |                 |
| Under 35 Years .....                        | 2.3                  | 9.1           | 8.8               | 44                     | .2                   | 5.5           | 60                      | 75                     | 15.3       |  |  |  |                 |
| 35 to 59 Years .....                        | 3.5                  | 9.0           | 8.8               | 43                     | .4                   | 9.4           | 103                     | 117                    | 12.3       |  |  |  |                 |
| 60 Years and Over .....                     | 2.4                  | 6.9           | 6.7               | 35                     | .4                   | 5.4           | 59                      | 57                     | 15.0       |  |  |  |                 |
| <b>Household Size</b>                       |                      |               |                   |                        |                      |               |                         |                        |            |  |  |  |                 |
| 1 Person .....                              | 2.1                  | 5.3           | 5.1               | 27                     | Q                    | Q             | Q                       | Q                      | 24.0       |  |  |  |                 |
| 2 to 4 Persons .....                        | 5.2                  | 9.4           | 9.1               | 45                     | .7                   | 6.9           | 76                      | 72                     | 14.5       |  |  |  |                 |
| 5 or More Persons .....                     | .8                   | 10.2          | 9.9               | 50                     | .2                   | 8.9           | 98                      | 141                    | 21.6       |  |  |  |                 |

See footnotes at end of table.

**MIDWEST**

**Table 55. Natural Gas and LPG Consumption and Expenditures for Appliances, per Midwest Region Household, 1990 (Continued)**

| Characteristics                        | Natural Gas          |               |                   |                        | Liquefied Petroleum Gas |               |           |                        | RSE Row Factors |
|--|----------------------|---------------|-------------------|------------------------|-------------------------|---------------|-----------|------------------------|-----------------|
|  | Households (million) | Consumed      |                   | Expenditures (dollars) | Households (million)    | Consumed      |           | Expenditures (dollars) |                 |
|  |                      | (million Btu) | (1000 cubic feet) |                        |                         | (million Btu) | (gallons) |                        |                 |
| RSE Column Factors:                    | 1.0                  | NF            | NF                | NF                     | 2.3                     | NF            | NF        | NF                     |                 |
| <b>West North Central Division</b>     | 2.8                  | 7.3           | 7.2               | 35                     | 0.5                     | 5.6           | 61        | 54                     | 6.6             |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 2,000 CDD and Over 5,500 HDD     | 1.7                  | 6.0           | 6.0               | 28                     | .2                      | 6.1           | 67        | 64                     | 9.0             |
| Under 5,500 HDD                        | 1.0                  | 9.6           | 9.4               | 47                     | .3                      | 5.1           | 56        | 46                     | 9.3             |
| 2,000 CDD or More and Under 4,000 HDD  | NC                   | NC            | NC                | NC                     | NC                      | NC            | NC        | NC                     | NC              |
| <b>Type of Housing Unit</b>            |                      |               |                   |                        |                         |               |           |                        |                 |
| Single-Family                          | 2.2                  | 7.7           | 7.6               | 37                     | .4                      | 5.8           | 64        | 57                     | 7.5             |
| Mobile Home                            | .2                   | 6.8           | 6.9               | 32                     | .1                      | 4.5           | 49        | 40                     | 15.8            |
| Multifamily (2 or more units)          | .4                   | 5.1           | 5.1               | 24                     | Q                       | Q             | Q         | Q                      | 14.0            |
| <b>Heated Floorspace (square feet)</b> |                      |               |                   |                        |                         |               |           |                        |                 |
| Fewer than 1,000                       | .6                   | 5.9           | 5.8               | 28                     | .2                      | 4.7           | 51        | 43                     | 13.0            |
| 1,000 to 1,999                         | 1.0                  | 6.9           | 6.9               | 33                     | .2                      | 5.5           | 60        | 57                     | 13.7            |
| 2,000 or More                          | 1.1                  | 8.5           | 8.4               | 41                     | .2                      | 6.4           | 70        | 59                     | 15.4            |
| <b>Ownership of Unit</b>               |                      |               |                   |                        |                         |               |           |                        |                 |
| Owned                                  | 2.1                  | 7.7           | 7.6               | 37                     | .5                      | 5.7           | 62        | 56                     | 7.6             |
| Rented                                 | .7                   | 6.2           | 6.2               | 29                     | Q                       | 4.6           | 50        | 41                     | 18.1            |
| <b>Year of Construction</b>            |                      |               |                   |                        |                         |               |           |                        |                 |
| 1949 or Before                         | 1.2                  | 6.6           | 6.5               | 30                     | .2                      | 6.0           | 65        | 61                     | 9.6             |
| 1950 to 1979                           | 1.3                  | 8.2           | 8.1               | 39                     | Q                       | 6.2           | 68        | 56                     | 16.1            |
| 1980 or After <sup>2</sup>             | Q                    | 6.4           | 6.3               | 35                     | .1                      | 3.9           | 42        | 36                     | 16.4            |
| <b>1990 Family Income</b>              |                      |               |                   |                        |                         |               |           |                        |                 |
| Less than \$10,000                     | .4                   | 7.0           | 6.9               | 31                     | Q                       | 5.3           | 58        | 63                     | 17.1            |
| \$10,000 to \$19,999                   | .7                   | 6.2           | 6.1               | 30                     | .1                      | 4.7           | 52        | 47                     | 13.9            |
| \$20,000 to \$34,999                   | .8                   | 6.4           | 6.4               | 31                     | .2                      | 5.6           | 62        | 47                     | 10.4            |
| \$35,000 or More                       | .9                   | 9.1           | 9.0               | 45                     | .1                      | 6.9           | 75        | 64                     | 14.4            |
| <b>Below Poverty Line</b>              |                      |               |                   |                        |                         |               |           |                        |                 |
| 100 Percent                            | .2                   | 6.9           | 6.9               | 32                     | Q                       | 5.4           | 59        | 62                     | 19.0            |
| 125 Percent                            | .4                   | 6.3           | 6.3               | 30                     | Q                       | 5.8           | 63        | 65                     | 14.6            |
| <b>Age of Householder</b>              |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 35 Years                         | .9                   | 6.2           | 6.2               | 31                     | .1                      | 4.2           | 46        | 41                     | 11.1            |
| 35 to 59 Years                         | 1.1                  | 8.4           | 8.3               | 40                     | .2                      | 6.8           | 74        | 66                     | 9.8             |
| 60 Years and Over                      | .7                   | 6.9           | 6.8               | 32                     | .2                      | 4.9           | 53        | 46                     | 16.7            |
| <b>Household Size</b>                  |                      |               |                   |                        |                         |               |           |                        |                 |
| 1 Person                               | .7                   | 5.1           | 5.0               | 23                     | Q                       | 3.9           | 43        | 47                     | 21.7            |
| 2 to 4 Persons                         | 1.9                  | 7.9           | 7.9               | 39                     | .4                      | 5.9           | 64        | 54                     | 8.0             |
| 5 or More Persons                      | .2                   | 8.7           | 8.7               | 42                     | Q                       | Q             | Q         | Q                      | 22.4            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

ENERGY CONSUMPTION AND EXPENDITURES

Table 56. Consumption and Expenditures in South Region Households, 1990

| Characteristics   | RSE Column Factors: | Average of Major Energy Sources <sup>1</sup> |                        |                                     |                            |                                |                             |                                    |              |                        |               | RSE Row Factors |
|---|---------------------|--|------------------------|-------------------------------------|----------------------------|--------------------------------|-----------------------------|------------------------------------|--------------|------------------------|---------------|-----------------|
|   |                     | Residential Buildings                        |                        |                                     | Consumption                |                                |                             |                                    |              | Expenditures (dollars) |               |                 |
|   |                     | Total Households (million)                   | Total Number (million) | Total Floor-space (billion sq. ft.) | per Building (million Btu) | per Square Foot (thousand Btu) | per Household (million Btu) | per Household Member (million Btu) | per Building | per Square Foot        | per Household |                 |
| <b>South Region</b>   |                     |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                 |
| <b>Total Region</b> .....                                       | 32.3                | 26.7   | 52.4                   | 97                                  | 50                         | 80.6                           | 31                          | 1,390                              | 0.71         | 1,151                  | 441           | 2.9             |
| <b>Climate Zone:<sup>2</sup></b>                                |                     |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                 |
| Under 2,000 CDD and Over 5,500 HDD .....                        | Q                   | Q  | Q                      | Q                                   | Q                          | Q                              | Q                           | Q                                  | Q            | Q                      | Q             | NE              |
| Under 5,500 HDD and 2,000 CDD or More and Under 4,000 HDD ..... | 17.6                | 14.9   | 29.7                   | 98                                  | 49                         | 83.5                           | 33                          | 1,300                              | .65          | 1,103                  | 430           | 5.0             |
| 14.7  | 11.8                | 22.7   | 96                     | 50                                  | 77.2                       | 29                             | 1,505                       | .78                                | 1,209        | 454                    | 4.5           |                 |
| <b>Type of Housing Unit</b>                                     |                     |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                 |
| Single-Family .....   | 23.7                | 23.7   | 45.1                   | 91                                  | 48                         | 91.4                           | 33                          | 1,277                              | .67          | 1,277                  | 466           | 3.1             |
| Mobile Home .....   | 1.9                 | 1.9  | 1.7                    | 62                                  | 69                         | 61.8                           | 20                          | 1,013                              | 1.13         | 1,013                  | 386           | 9.4             |
| Multifamily (2 or more units) ...                               | 6.7                 | 1.2  | 5.7                    | 276                                 | 56                         | 47.5                           | 23                          | 4,331                              | .88          | 744                    | 367           | 6.7             |
| <b>Heated Floorspace (square feet)</b>                          |                     |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                 |
| Fewer than 1,000 .....  | 10.9                | 6.4  | 8.9                    | 94                                  | 68                         | 55.3                           | 25                          | 1,414                              | 1.02         | 830                    | 380           | 4.3             |
| 1,000 to 1,999 .....  | 14.8                | 13.8   | 23.1                   | 89                                  | 53                         | 83.5                           | 30                          | 1,279                              | .77          | 1,197                  | 425           | 3.1             |
| 2,000 or More .....   | 6.6                 | 6.5  | 20.4                   | 118                                 | 38                         | 115.7                          | 41                          | 1,602                              | .51          | 1,576                  | 553           | 5.7             |
| <b>Ownership of Unit</b>  |                     |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                 |
| Owned .....   | 21.6                | 21.1   | 41.8                   | 92                                  | 47                         | 90.3                           | 33                          | 1,306                              | .66          | 1,277                  | 473           | 3.4             |
| Rented .....  | 10.7                | 5.7  | 10.7                   | 116                                 | 61                         | 61.0                           | 25                          | 1,701                              | .90          | 897                    | 369           | 4.7             |
| <b>Year of Construction</b>                                     |                     |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                 |
| 1949 or Before .....  | 6.0                 | 5.5  | 9.1                    | 100                                 | 61                         | 91.4                           | 37                          | 1,207                              | .73          | 1,105                  | 449           | 5.5             |
| 1950 to 1979 .....  | 18.8                | 15.5   | 30.9                   | 103                                 | 52                         | 84.7                           | 32                          | 1,453                              | .73          | 1,198                  | 453           | 3.2             |
| 1980 or After <sup>3</sup> .....                                | 7.4                 | 5.7  | 12.5                   | 80                                  | 37                         | 61.3                           | 23                          | 1,395                              | .64          | 1,071                  | 405           | 7.1             |
| <b>1990 Family Income</b>                                       |                     |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                 |
| Less than \$10,000 .....  | 6.4                 | 4.9  | 7.4                    | 82                                  | 54                         | 63.1                           | 29                          | 1,129                              | .75          | 869                    | 405           | 5.6             |
| \$10,000 to \$19,999 .....                                      | 7.0                 | 5.5  | 9.2                    | 90                                  | 53                         | 70.1                           | 28                          | 1,296                              | .77          | 1,013                  | 408           | 5.4             |
| \$20,000 to \$34,999 .....                                      | 8.3                 | 6.7  | 12.5                   | 97                                  | 52                         | 78.8                           | 30                          | 1,360                              | .73          | 1,100                  | 419           | 4.2             |
| \$35,000 or More .....  | 10.6                | 9.6  | 23.3                   | 109                                 | 45                         | 99.5                           | 34                          | 1,598                              | .66          | 1,452                  | 491           | 4.3             |
| <b>Below Poverty Line</b>                                       |                     |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                 |
| 100 Percent .....   | 5.5                 | 4.3  | 6.4                    | 84                                  | 57                         | 66.0                           | 24                          | 1,157                              | .78          | 904                    | 326           | 5.9             |
| 125 Percent .....   | 7.5                 | 6.0  | 8.9                    | 83                                  | 55                         | 66.4                           | 24                          | 1,167                              | .78          | 931                    | 338           | 5.5             |
| <b>Age of Householder</b>                                       |                     |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                 |
| Under 35 Years .....  | 9.2                 | 6.2  | 11.7                   | 103                                 | 54                         | 69.3                           | 24                          | 1,508                              | .80          | 1,019                  | 350           | 4.3             |
| 35 to 59 Years .....  | 14.1                | 12.6   | 26.0                   | 99                                  | 48                         | 88.9                           | 31                          | 1,454                              | .70          | 1,304                  | 449           | 3.8             |
| 60 Years and Over .....   | 9.1                 | 7.9  | 14.7                   | 90                                  | 49                         | 79.0                           | 43                          | 1,196                              | .65          | 1,048                  | 566           | 4.2             |
| <b>Household Size</b>   |                     |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                 |
| 1 Person .....  | 7.8                 | 5.5  | 9.9                    | 80                                  | 45                         | 56.4                           | 56                          | 1,133                              | .63          | 799                    | 799           | 4.8             |
| 2 to 4 Persons .....  | 21.0                | 17.9   | 36.6                   | 101                                 | 49                         | 86.0                           | 31                          | 1,445                              | .71          | 1,233                  | 451           | 3.0             |
| 5 or More Persons .....   | 3.5                 | 3.3  | 5.9                    | 108                                 | 61                         | 102.6                          | 19                          | 1,523                              | .86          | 1,447                  | 264           | 4.3             |

See footnotes at end of table.

SOUTH

Table 56. Consumption and Expenditures in South Region Households, 1990 (Continued)

| Characteristics                        | Average of Major Energy Sources <sup>1</sup> |                        |                                     |                            |                                |                                    |                                    |              |                        |                      |                      |                      | RSE Row Factors |
|--|--|------------------------|-------------------------------------|----------------------------|--------------------------------|------------------------------------|------------------------------------|--------------|------------------------|----------------------|----------------------|----------------------|-----------------|
|  | Residential Buildings                        |                        |                                     |                            | Consumption                    |                                    |                                    |              | Expenditures (dollars) |                      |                      |                      |                 |
|  | Total Households (million)                   | Total Number (million) | Total Floor-space (billion sq. ft.) | per Building (million Btu) | per Square Foot (thousand Btu) | per Household Member (million Btu) | per Household Member (million Btu) | per Building | per Square Foot        | per Household Member | per Household Member | per Household Member |                 |
| <b>RSE Column Factors:</b>             | 1.4  | 1.5                    | 1.7                                 | 1.0                        | 1.0                            | 0.9                                | 0.9                                | 0.8          | 0.9                    | 0.6                  | 0.7                  |                      |                 |
| <b>South Atlantic Division</b> .....   | 16.6   | 13.4                   | 26.6                                | 89                         | 45                             | 72.1                               | 29                                 | 1,437        | 0.72                   | 1,164                | 460                  |                      | 4.0             |
| <b>Climate Zone:<sup>2</sup></b>       |  |                        |                                     |                            |                                |                                    |                                    |              |                        |                      |                      |                      |                 |
| Under 2,000 HDD .....                  |  | Q                      | Q                                   | Q                          | Q                              | Q                                  | Q                                  | Q            | Q                      | Q                    | Q                    |                      | NF              |
| Over 5,500 HDD .....                   |  | 11.1                   | 9.1                                 | 18.3                       | 98                             | 49                                 | 80.5                               | 32           | 1,406                  | .70                  | 1,153                | 458                  | 5.4             |
| Under 5,500 HDD .....                  |  |                        |                                     |                            |                                |                                    |                                    |              |                        |                      |                      |                      |                 |
| 2,000 HDD or More and .....            |  | 5.4                    | 4.2                                 | 8.3                        | 70                             | 36                                 | 55.2                               | 22           | 1,509                  | .77                  | 1,187                | 464                  | 6.4             |
| Under 4,000 HDD .....                  |  |                        |                                     |                            |                                |                                    |                                    |              |                        |                      |                      |                      |                 |
| <b>Type of Housing Unit</b>            |  |                        |                                     |                            |                                |                                    |                                    |              |                        |                      |                      |                      |                 |
| Single-Family .....                    | 11.7   | 11.7                   | 22.3                                | 83                         | 43                             | 82.6                               | 31                                 | 1,309        | .69                    | 1,309                | 487                  |                      | 4.6             |
| Mobile Home .....                      | 1.1  | 1.1                    | 1.0                                 | 62                         | 70                             | 62.3                               | 21                                 | 1,073        | 1.20                   | 1,073                | 366                  |                      | 14.5            |
| Multifamily (2 or more units) ...      | 3.8  | .6                     | 3.3                                 | 254                        | 48                             | 42.6                               | 22                                 | 4,405        | .84                    | 740                  | 382                  |                      | 9.3             |
| <b>Heated Floorspace (square feet)</b> |  |                        |                                     |                            |                                |                                    |                                    |              |                        |                      |                      |                      |                 |
| Fewer than 1,000 .....                 | 5.9  | 3.4                    | 4.9                                 | 90                         | 61                             | 50.7                               | 24                                 | 1,500        | 1.03                   | 848                  | 393                  |                      | 6.0             |
| 1,000 to 1,999 .....                   | 7.0  | 6.5                    | 10.9                                | 78                         | 47                             | 72.3                               | 27                                 | 1,279        | .77                    | 1,190                | 442                  |                      | 5.3             |
| 2,000 or More .....                    | 3.6  | 3.5                    | 10.8                                | 110                        | 36                             | 107.2                              | 38                                 | 1,672        | .54                    | 1,633                | 577                  |                      | 6.8             |
| <b>Ownership of Unit</b>               |  |                        |                                     |                            |                                |                                    |                                    |              |                        |                      |                      |                      |                 |
| Owned .....                            | 10.8   | 10.4                   | 20.9                                | 84                         | 42                             | 80.9                               | 31                                 | 1,354        | .67                    | 1,302                | 496                  |                      | 4.8             |
| Rented .....                           | 5.8  | 3.0                    | 5.7                                 | 106                        | 56                             | 55.6                               | 24                                 | 1,722        | .91                    | 903                  | 383                  |                      | 6.7             |
| <b>Year of Construction</b>            |  |                        |                                     |                            |                                |                                    |                                    |              |                        |                      |                      |                      |                 |
| 1949 or Before .....                   | 3.0  | 2.7                    | 4.8                                 | 102                        | 57                             | 92.1                               | 37                                 | 1,322        | .74                    | 1,189                | 479                  |                      | 8.1             |
| 1950 to 1979 .....                     | 8.9  | 7.3                    | 14.8                                | 93                         | 46                             | 77.0                               | 30                                 | 1,486        | .74                    | 1,227                | 475                  |                      | 4.9             |
| 1980 or After <sup>3</sup> .....       | 4.6  | 3.4                    | 7.0                                 | 69                         | 33                             | 49.9                               | 20                                 | 1,422        | .68                    | 1,026                | 415                  |                      | 8.2             |
| <b>1990 Family Income</b>              |  |                        |                                     |                            |                                |                                    |                                    |              |                        |                      |                      |                      |                 |
| Less than \$10,000 .....               | 2.7  | 2.0                    | 3.2                                 | 77                         | 48                             | 57.7                               | 28                                 | 1,234        | .77                    | 920                  | 449                  |                      | 8.9             |
| \$10,000 to \$19,999 .....             | 3.6  | 2.7                    | 4.6                                 | 83                         | 49                             | 61.4                               | 25                                 | 1,324        | .78                    | 982                  | 405                  |                      | 8.9             |
| \$20,000 to \$34,999 .....             | 4.3  | 3.4                    | 6.0                                 | 85                         | 48                             | 66.0                               | 28                                 | 1,353        | .77                    | 1,088                | 442                  |                      | 5.6             |
| \$35,000 or More .....                 | 6.0  | 5.3                    | 12.8                                | 100                        | 41                             | 88.1                               | 31                                 | 1,626        | .67                    | 1,437                | 503                  |                      | 6.1             |
| <b>Below Poverty Line</b>              |  |                        |                                     |                            |                                |                                    |                                    |              |                        |                      |                      |                      |                 |
| 100 Percent .....                      | 2.0  | 1.5                    | 2.4                                 | 81                         | 51                             | 60.1                               | 22                                 | 1,328        | .84                    | 988                  | 362                  |                      | 10.2            |
| 125 Percent .....                      | 3.0  | 2.3                    | 3.7                                 | 78                         | 49                             | 59.6                               | 22                                 | 1,287        | .82                    | 988                  | 362                  |                      | 8.2             |
| <b>Age of Householder</b>              |  |                        |                                     |                            |                                |                                    |                                    |              |                        |                      |                      |                      |                 |
| Under 35 Years .....                   | 4.9  | 3.2                    | 5.9                                 | 90                         | 49                             | 58.9                               | 22                                 | 1,537        | .83                    | 1,003                | 367                  |                      | 6.2             |
| 35 to 59 Years .....                   | 7.4  | 6.7                    | 14.2                                | 90                         | 43                             | 81.7                               | 29                                 | 1,476        | .70                    | 1,332                | 478                  |                      | 6.0             |
| 60 Years and Over .....                | 4.3  | 3.5                    | 6.6                                 | 85                         | 46                             | 70.6                               | 38                                 | 1,272        | .68                    | 1,051                | 567                  |                      | 6.7             |
| <b>Household Size</b>                  |  |                        |                                     |                            |                                |                                    |                                    |              |                        |                      |                      |                      |                 |
| 1 Person .....                         | 4.2  | 2.8                    | 5.2                                 | 72                         | 39                             | 48.9                               | 49                                 | 1,157        | .63                    | 763                  | 783                  |                      | 8.1             |
| 2 to 4 Persons .....                   | 10.9   | 9.2                    | 18.8                                | 93                         | 45                             | 77.7                               | 28                                 | 1,506        | .73                    | 1,265                | 462                  |                      | 4.8             |
| 5 or More Persons .....                | 1.5  | 1.4                    | 2.6                                 | 100                        | 54                             | 97.1                               | 18                                 | 1,550        | .83                    | 1,500                | 280                  |                      | 6.6             |

See footnotes at end of table.

ENERGY CONSUMPTION AND EXPENDITURES

Table 56. Consumption and Expenditures in South Region Households, 1990 (Continued)

| Characteristics                        | Average of Major Energy Sources <sup>1</sup> |                        |                                     |                            |                                |                             |                                    |              |                        |               |                      |      |    | RSE Row Factors |
|--|--|------------------------|-------------------------------------|----------------------------|--------------------------------|-----------------------------|------------------------------------|--------------|------------------------|---------------|----------------------|------|----|-----------------|
|  | Residential Buildings                        |                        |                                     | Consumption                |                                |                             |                                    |              | Expenditures (dollars) |               |                      |      |    |                 |
|  | Total Households (million)                   | Total Number (million) | Total Floor-space (billion sq. ft.) | per Building (million Btu) | per Square Foot (thousand Btu) | per Household (million Btu) | per Household Member (million Btu) | per Building | per Square Foot        | per Household | per Household Member |      |    |                 |
| RSE Column Factors:                    | 1.4  | 1.5                    | 1.7                                 | 1.0                        | 1.0                            | 0.9                         | 0.9                                | 0.8          | 0.9                    | 0.6           | 0.7                  |      |    |                 |
| <b>East South Central Division</b> ... | 6.4  | 5.4                    | 10.8                                | 97                         | 49                             | 82.1                        | 33                                 | 1,152        | 0.58                   | 97.4          | 386                  | 6.2  |    |                 |
| <b>Climate Zone<sup>2</sup></b>        |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                      |      |    |                 |
| Under 2,000 CDD and Over 5,500 HDD     | NC   | NC                     | NC                                  | NC                         | NC                             | NC                          | NC                                 | NC           | NC                     | NC            | NC                   | NC   | NC |                 |
| Under 5,500 HDD                        | 5.1  | 4.6                    | 9.2                                 | 91                         | 45                             | 81.5                        | 32                                 | 1,104        | .55                    | 99.2          | 386                  | 9.4  |    |                 |
| 2,000 CDD or More and Under 4,000 HDD  | Q  | Q                      | Q                                   | 132                        | 71                             | 84.4                        | 36                                 | 1,419        | .77                    | 90.7          | 385                  | 43.4 |    |                 |
| <b>Type of Housing Unit</b>            |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                      |      |    |                 |
| Single-Family                          | 4.7  | 4.7                    | 9.4                                 | 91                         | 46                             | 91.5                        | 34                                 | 1,076        | .54                    | 1,076         | 403                  | 7.1  |    |                 |
| Mobile Home                            | .5   | .5                     | .4                                  | 62                         | 68                             | 61.5                        | 21                                 | 924          | 1.02                   | 924           | 320                  | 10.3 |    |                 |
| Multifamily (2 or more units)          | 1.3  | .3                     | 1.0                                 | 249                        | 73                             | 55.6                        | 30                                 | 2,800        | .82                    | 62.4          | 338                  | 10.8 |    |                 |
| <b>Heated Floorspace (square feet)</b> |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                      |      |    |                 |
| Fewer than 1,000                       | 2.4  | 1.5                    | 1.9                                 | 100                        | 78                             | 63.0                        | 28                                 | 1,204        | .94                    | 760           | 342                  | 7.1  |    |                 |
| 1,000 to 1,999                         | 2.5  | 2.4                    | 3.8                                 | 84                         | 52                             | 80.5                        | 31                                 | 1,065        | .66                    | 1,015         | 388                  | 4.9  |    |                 |
| 2,000 or More                          | 1.6  | 1.6                    | 5.0                                 | 114                        | 36                             | 113.0                       | 40                                 | 1,236        | .39                    | 1,229         | 434                  | 12.9 |    |                 |
| <b>Ownership of Unit</b>               |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                      |      |    |                 |
| Owned                                  | 4.4  | 4.4                    | 8.9                                 | 91                         | 45                             | 89.9                        | 34                                 | 1,077        | .53                    | 1,064         | 406                  | 7.7  |    |                 |
| Rented                                 | 2.0  | 1.1                    | 1.9                                 | 122                        | 68                             | 64.6                        | 28                                 | 1,466        | .82                    | 77.4          | 336                  | 7.9  |    |                 |
| <b>Year of Construction</b>            |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                      |      |    |                 |
| 1949 or Before                         | 1.4  | 1.2                    | 1.9                                 | 99                         | 63                             | 89.0                        | 39                                 | 1,006        | .64                    | 903           | 400                  | 9.2  |    |                 |
| 1950 to 1979                           | 3.7  | 3.0                    | 5.7                                 | 95                         | 50                             | 77.7                        | 31                                 | 1,190        | .63                    | 969           | 392                  | 6.7  |    |                 |
| 1980 or After <sup>3</sup>             | 1.3  | 1.2                    | 3.1                                 | 99                         | 37                             | 87.1                        | 29                                 | 1,210        | .46                    | 1,065         | 380                  | 19.8 |    |                 |
| <b>1990 Family Income</b>              |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                      |      |    |                 |
| Less than \$10,000                     | 1.6  | 1.3                    | 1.9                                 | 78                         | 54                             | 61.0                        | 28                                 | 919          | .63                    | 716           | 334                  | 10.2 |    |                 |
| \$10,000 to \$19,999                   | 1.5  | 1.1                    | 1.9                                 | 95                         | 54                             | 72.5                        | 32                                 | 1,210        | .69                    | 921           | 404                  | 8.7  |    |                 |
| \$20,000 to \$34,999                   | 1.6  | 1.4                    | 2.8                                 | 94                         | 46                             | 80.9                        | 30                                 | 1,146        | .56                    | 987           | 363                  | 8.1  |    |                 |
| \$35,000 or More                       | 1.8  | 1.7                    | 4.2                                 | 115                        | 46                             | 110.8                       | 38                                 | 1,298        | .52                    | 1,250         | 430                  | 9.7  |    |                 |
| <b>Below Poverty Line</b>              |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                      |      |    |                 |
| 100 Percent                            | 1.3  | 1.1                    | 1.5                                 | 80                         | 56                             | 63.9                        | 24                                 | 944          | .66                    | 756           | 287                  | 9.8  |    |                 |
| 125 Percent                            | 1.8  | 1.5                    | 2.0                                 | 78                         | 56                             | 64.3                        | 25                                 | 939          | .67                    | 772           | 306                  | 9.6  |    |                 |
| <b>Age of Householder</b>              |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                      |      |    |                 |
| Under 35 Years                         | 1.7  | 1.2                    | 2.4                                 | 104                        | 55                             | 78.3                        | 28                                 | 1,240        | .65                    | 930           | 336                  | 9.2  |    |                 |
| 35 to 59 Years                         | 2.9  | 2.5                    | 5.4                                 | 101                        | 48                             | 89.6                        | 31                                 | 1,218        | .58                    | 1,079         | 374                  | 7.3  |    |                 |
| 60 Years and Over                      | 1.9  | 1.7                    | 3.0                                 | 85                         | 47                             | 74.0                        | 42                                 | 985          | .54                    | 854           | 484                  | 8.9  |    |                 |
| <b>Household Size</b>                  |  |                        |                                     |                            |                                |                             |                                    |              |                        |               |                      |      |    |                 |
| 1 Person                               | 1.6  | 1.2                    | 2.0                                 | 86                         | 50                             | 61.8                        | 62                                 | 953          | .55                    | 685           | 685                  | 7.7  |    |                 |
| 2 to 4 Persons                         | 4.3  | 3.7                    | 7.9                                 | 99                         | 47                             | 86.7                        | 32                                 | 1,203        | .57                    | 1,058         | 388                  | 6.7  |    |                 |
| 5 or More Persons                      | .5   | .5                     | .9                                  | 111                        | 65                             | 107.1                       | 19                                 | 1,244        | .73                    | 1,193         | 216                  | 9.8  |    |                 |

See footnotes at end of table.

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Table 56. Consumption and Expenditures in South Region Households, 1990 (Continued)

| Characteristics                        | Average of Major Energy Sources <sup>1</sup> |                        |                                     |                            |                                |                             |                                |                        |               |                  | RSE Row Factors |      |
|--|--|------------------------|-------------------------------------|----------------------------|--------------------------------|-----------------------------|--------------------------------|------------------------|---------------|------------------|-----------------|------|
|  | Residential Buildings                        |                        | Consumption                         |                            |                                |                             |                                | Expenditures (dollars) |               |                  |                 |      |
|  | Total Households (million)                   | Total Number (million) | Total Floor-space (billion sq. ft.) | per Building (million Btu) | per Square Foot (thousand Btu) | per Household (million Btu) | per House Member (million Btu) | per Square Foot        | per Household | per House Member |                 |      |
| RSE Column Factors:                    | 1.4  | 1.5                    | 1.7                                 | 1.0                        | 1.0                            | 0.9                         | 0.9                            | 0.8                    | 0.9           | 0.6              | 0.7             |      |
| <b>West South Central Division</b>     | 9.3  | 7.9                    | 15.1                                | 111                        | 58                             | 94.5                        | 34                             | 1,474                  | 0.77          | 1,251            | 445             | 4.2  |
| <b>Climate Zone:<sup>2</sup></b>       |  |                        |                                     |                            |                                |                             |                                |                        |               |                  |                 |      |
| Under 2,000 HDD                        | NC   | NC                     | NC                                  | NC                         | NC                             | NC                          | NC                             | NC                     | NC            | NC               | NC              | NC   |
| Over 5,500 HDD                         | 1.3  | 1.1                    | 2.2                                 | 133                        | 70                             | 118.5                       | 40                             | 1,243                  | .66           | 1,110            | 374             | 17.7 |
| Under 5,500 HDD                        | 8.0  | 6.7                    | 12.9                                | 108                        | 56                             | 90.7                        | 33                             | 1,513                  | .79           | 1,273            | 457             | 5.3  |
| 2,000 HDD or More and Under 4,000 HDD  |  |                        |                                     |                            |                                |                             |                                |                        |               |                  |                 |      |
| <b>Type of Housing Unit</b>            |  |                        |                                     |                            |                                |                             |                                |                        |               |                  |                 |      |
| Single-Family                          | 7.3  | 7.3                    | 13.4                                | 106                        | 58                             | 105.5                       | 37                             | 1,355                  | .74           | 1,355            | 471             | 4.6  |
| Mobile Home                            | .3   | .3                     | .3                                  | 60                         | 69                             | 60.3                        | Q                              | 949                    | 1.09          | 949              | 271             | 21.2 |
| Multifamily (2 or more units)          | 1.6  | .2                     | 1.4                                 | 372                        | 62                             | 52.3                        | 22                             | 6,014                  | 1.01          | 846              | 355             | 12.3 |
| <b>Heated Floorspace (square feet)</b> |  |                        |                                     |                            |                                |                             |                                |                        |               |                  |                 |      |
| Fewer than 1,000                       | 2.6  | 1.6                    | 2.1                                 | 98                         | 72                             | 58.7                        | 26                             | 1,431                  | 1.05          | 854              | 384             | 10.0 |
| 1,000 to 1,999                         | 5.2  | 4.9                    | 8.3                                 | 107                        | 63                             | 100.0                       | 33                             | 1,383                  | .81           | 1,293            | 421             | 4.6  |
| 2,000 or More                          | 1.5  | 1.4                    | 4.6                                 | 141                        | 44                             | 139.8                       | 48                             | 1,829                  | .57           | 1,815            | 625             | 10.4 |
| <b>Ownership of Unit</b>               |  |                        |                                     |                            |                                |                             |                                |                        |               |                  |                 |      |
| Owned                                  | 6.3  | 6.3                    | 12.0                                | 107                        | 56                             | 106.7                       | 37                             | 1,387                  | .73           | 1,385            | 481             | 5.7  |
| Rented                                 | 3.0  | 1.6                    | 3.1                                 | 129                        | 67                             | 68.8                        | 26                             | 1,818                  | .94           | 968              | 364             | 8.8  |
| <b>Year of Construction</b>            |  |                        |                                     |                            |                                |                             |                                |                        |               |                  |                 |      |
| 1949 or Before                         | 1.6  | 1.6                    | 2.3                                 | 96                         | 65                             | 91.9                        | 35                             | 1,168                  | .79           | 1,119            | 430             | 9.8  |
| 1950 to 1979                           | 6.2  | 5.1                    | 10.3                                | 121                        | 60                             | 100.0                       | 35                             | 1,561                  | .78           | 1,293            | 455             | 4.7  |
| 1980 or After <sup>3</sup>             | 1.5  | 1.2                    | 2.4                                 | 91                         | 45                             | 74.0                        | 26                             | 1,502                  | .74           | 1,220            | 421             | 10.5 |
| <b>1990 Family Income</b>              |  |                        |                                     |                            |                                |                             |                                |                        |               |                  |                 |      |
| Less than \$10,000                     | 2.1  | 1.7                    | 2.4                                 | 90                         | 62                             | 71.6                        | 32                             | 1,167                  | .81           | 925              | 408             | 9.7  |
| \$10,000 to \$19,999                   | 1.9  | 1.7                    | 2.7                                 | 97                         | 60                             | 84.8                        | 31                             | 1,309                  | .81           | 1,141            | 416             | 8.4  |
| \$20,000 to \$34,999                   | 2.4  | 1.9                    | 3.7                                 | 123                        | 63                             | 96.5                        | 34                             | 1,524                  | .78           | 1,196            | 419             | 7.4  |
| \$35,000 or More                       | 2.9  | 2.7                    | 6.2                                 | 125                        | 53                             | 116.2                       | 36                             | 1,734                  | .74           | 1,607            | 502             | 7.3  |
| <b>Below Poverty Line</b>              |  |                        |                                     |                            |                                |                             |                                |                        |               |                  |                 |      |
| 100 Percent                            | 2.2  | 1.7                    | 2.5                                 | 90                         | 63                             | 72.8                        | 25                             | 1,137                  | .80           | 917              | 317             | 9.9  |
| 125 Percent                            | 2.7  | 2.2                    | 3.2                                 | 93                         | 62                             | 75.4                        | 26                             | 1,191                  | .80           | 971              | 330             | 9.9  |
| <b>Age of Householder</b>              |  |                        |                                     |                            |                                |                             |                                |                        |               |                  |                 |      |
| Under 35 Years                         | 2.7  | 1.8                    | 3.5                                 | 124                        | 64                             | 82.8                        | 25                             | 1,644                  | .85           | 1,101            | 331             | 6.5  |
| 35 to 59 Years                         | 3.7  | 3.3                    | 6.5                                 | 115                        | 59                             | 102.8                       | 33                             | 1,590                  | .82           | 1,419            | 451             | 5.3  |
| 60 Years and Over                      | 2.9  | 2.8                    | 5.1                                 | 99                         | 54                             | 94.7                        | 50                             | 1,225                  | .67           | 1,171            | 615             | 6.5  |
| <b>Household Size</b>                  |  |                        |                                     |                            |                                |                             |                                |                        |               |                  |                 |      |
| 1 Person                               | 2.0  | 1.5                    | 2.7                                 | 90                         | 51                             | 67.5                        | 68                             | 1,230                  | .70           | 926              | 926             | 8.9  |
| 2 to 4 Persons                         | 5.8  | 5.0                    | 10.0                                | 117                        | 58                             | 100.9                       | 37                             | 1,513                  | .75           | 1,303            | 478             | 4.9  |
| 5 or More Persons                      | 1.5  | 1.4                    | 2.4                                 | 114                        | 67                             | 106.3                       | 19                             | 1,600                  | .94           | 1,487            | 267             | 6.3  |

1 Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.  
 2 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.  
 3 Does not include all new construction for 1990.  
 NC = No cases in sample.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 NF = No applicable RSE row/column factor.  
 Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

ENERGY CONSUMPTION AND EXPENDITURES

Table 57. Total Consumption in South Region Households, 1990

| Characteristics                             | Major Energy Sources <sup>1</sup><br>(trillion Btu) | Electricity    |               | Natural Gas    |                      | Fuel Oil       |                   | Kerosene       |                   | Liquefied Petroleum Gas |                   | RSE Row Factors |
|---|---|----------------|---------------|----------------|----------------------|----------------|-------------------|----------------|-------------------|-------------------------|-------------------|-----------------|
|   |   | (trillion Btu) | (billion kWh) | (trillion Btu) | (billion cubic feet) | (trillion Btu) | (billion gallons) | (trillion Btu) | (billion gallons) | (trillion Btu)          | (billion gallons) |                 |
| RSE Column Factors:                         | 0.5   | 0.4            | 0.4           | 0.8            | 0.8                  | 1.7            | 1.7               | 1.7            | 1.7               | 1.7                     | 1.5               | 1.5             |
| South Region                                |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Total Region .....                          | 2,602.3   | 1,361.3        | 399.0         | 1,030.3        | 999                  | 78.7           | 0.57              | 34.1           | 0.25              | 97.8                    | 1.07              | 10.4            |
| <b>Climate Zone<sup>2</sup></b>             |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q   | Q              | Q             | NC             | NC                   | NC             | NC                | NC             | NC                | NC                      | NC                | NF              |
| Under 5,500 HDD .....                       | 1,466.9   | 693.4          | 203.2         | 594.4          | 578                  | 77.9           | .57               | 29.8           | .22               | 71.4                    | .78               | 16.3            |
| 2,000 CDD or More and Under 4,000 HDD ..... | 1,133.8   | 666.3          | 195.3         | 435.9          | 422                  | Q              | Q                 | Q              | Q                 | 26.4                    | .29               | 21.3            |
| <b>Type of Housing Unit</b>                 |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Single-Family .....                         | 2,168.0   | 1,095.1        | 321.0         | 901.3          | 874                  | 68.3           | .50               | 25.2           | .19               | 77.1                    | .84               | 12.3            |
| Mobile Home .....                           | 116.1   | 69.6           | 20.4          | 15.5           | 15                   | Q              | Q                 | 8.9            | .07               | 18.7                    | .20               | 33.5            |
| Multifamily (2 or more units) .....         | 318.2   | 198.5          | 57.6          | 113.6          | 110                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 26.3            |
| <b>Heated Floorspace (square feet)</b>      |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Fewer than 1,000 .....                      | 602.7   | 327.1          | 95.9          | 204.6          | 199                  | 18.0           | .13               | 21.6           | .16               | 31.4                    | .34               | 15.6            |
| 1,000 to 1,999 .....                        | 1,232.8   | 646.1          | 189.4         | 497.4          | 483                  | 28.5           | .21               | 11.1           | .08               | 49.6                    | .54               | 14.1            |
| 2,000 or More .....                         | 768.8   | 389.1          | 113.7         | 328.3          | 318                  | 32.2           | .23               | 1.4            | .01               | 16.8                    | .18               | 24.2            |
| <b>Ownership of Unit</b>                    |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Owned .....                                 | 1,947.6   | 1,004.3        | 294.4         | 782.2          | 759                  | 57.5           | .42               | 21.8           | .16               | 81.8                    | .90               | 13.7            |
| Rented .....                                | 654.7   | 357.0          | 104.6         | 248.1          | 241                  | 21.2           | .16               | 12.3           | .09               | 16.1                    | .18               | 19.6            |
| <b>Year of Construction</b>                 |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 1949 or Before .....                        | 551.1   | 197.0          | 57.7          | 275.0          | 266                  | 35.5           | .26               | 14.8           | .11               | 28.7                    | .31               | 18.9            |
| 1950 to 1979 .....                          | 1,595.7   | 833.5          | 244.3         | 659.9          | 641                  | 41.9           | .30               | 16.6           | .12               | 43.7                    | .48               | 13.6            |
| 1980 or After <sup>3</sup> .....            | 455.5   | 330.7          | 96.9          | 95.4           | 93                   | Q              | Q                 | Q              | Q                 | 25.4                    | .28               | 32.1            |
| <b>1990 Family Income</b>                   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Less than \$10,000 .....                    | 403.6   | 186.0          | 54.5          | 166.8          | 161                  | 13.8           | .10               | Q              | Q                 | 29.6                    | .32               | 16.7            |
| \$10,000 to \$19,999 .....                  | 492.6   | 258.7          | 75.8          | 168.8          | 164                  | 24.2           | .18               | 10.7           | .08               | 30.0                    | .33               | 16.3            |
| \$20,000 to \$34,999 .....                  | 652.3   | 332.2          | 97.4          | 276.7          | 268                  | 16.5           | .12               | 11.9           | .09               | 15.0                    | .16               | 15.5            |
| \$35,000 or More .....                      | 1,053.9   | 584.3          | 171.3         | 418.0          | 406                  | 24.1           | .17               | 4.2            | .03               | 23.2                    | .25               | 20.4            |
| <b>Below Poverty Line</b>                   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 100 Percent .....                           | 365.6   | 168.1          | 49.3          | 150.5          | 146                  | 9.5            | .07               | 7.9            | .06               | 29.7                    | .32               | 21.1            |
| 125 Percent .....                           | 495.8   | 241.2          | 70.7          | 194.5          | 189                  | 13.8           | .10               | 10.5           | .08               | 35.8                    | .39               | 20.3            |
| <b>Age of Householder</b>                   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 35 Years .....                        | 636.1   | 347.9          | 102.0         | 244.4          | 237                  | Q              | Q                 | 9.3            | .07               | 22.7                    | .25               | 15.5            |
| 35 to 59 Years .....                        | 1,250.0   | 639.2          | 203.2         | 460.1          | 447                  | 38.0           | .28               | 20.2           | .15               | 38.6                    | .42               | 15.5            |
| 60 Years and Over .....                     | 716.1   | 320.1          | 93.8          | 325.9          | 315                  | 28.9           | .21               | 4.7            | .03               | 36.6                    | .40               | 15.1            |
| <b>Household Size</b>                       |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 1 Person .....                              | 442.1   | 216.2          | 63.4          | 188.4          | 182                  | 12.3           | .09               | 5.1            | .04               | 20.2                    | .22               | 16.7            |
| 2 to 4 Persons .....                        | 1,801.1   | 959.2          | 281.1         | 698.0          | 677                  | 60.4           | .44               | 21.5           | .16               | 62.1                    | .68               | 12.4            |
| 5 or More Persons .....                     | 359.0   | 185.9          | 54.5          | 144.0          | 140                  | Q              | Q                 | 7.6            | .06               | 15.6                    | .17               | 20.6            |

See footnotes at end of table.

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Table 57. Total Consumption in South Region Households, 1990 (Continued)

| Characteristics                             | Major Energy Sources <sup>1</sup><br>(trillion Btu) | Electricity    |               | Natural Gas    |                      | Fuel Oil       |                   | Kerosene       |                   | Liquefied Petroleum Gas |                   | RSE Row Factors |
|---|---|----------------|---------------|----------------|----------------------|----------------|-------------------|----------------|-------------------|-------------------------|-------------------|-----------------|
|   |   | (trillion Btu) | (billion kWh) | (trillion Btu) | (billion cubic feet) | (trillion Btu) | (billion gallons) | (trillion Btu) | (billion gallons) | (trillion Btu)          | (billion gallons) |                 |
|   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| RSE Column Factors:                         | 0.5   | 0.4            | 0.4           | 0.8            | 0.8                  | 1.7            | 1.7               | 1.7            | 1.7               | 1.5                     | 1.5               |                 |
| South Atlantic Division .....               | 1,194.6   | 673.1          | 197.3         | 373.4          | 361                  | 73.1           | 0.53              | 26.0           | 0.19              | 49.0                    | 0.54              | 14.7            |
| <b>Climate Zone<sup>2</sup></b>             |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q   | Q              | Q             | NC             | NC                   | NC             | NC                | NC             | NC                | NC                      | NC                | NC              |
| Under 5,500 HDD .....                       | 896.7   | 423.2          | 124.0         | 346.6          | 336                  | 72.3           | .53               | 21.8           | .16               | 32.8                    | .36               | 16.6            |
| 2,000 CDD or More and Under 4,000 HDD ..... | 296.3   | 248.3          | 72.8          | Q              | Q                    | Q              | Q                 | Q              | Q                 | 16.2                    | .18               | 19.6            |
| <b>Type of Housing Unit</b>                 |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Single-Family .....                         | 966.5   | 530.4          | 155.5         | 318.7          | 308                  | 64.0           | .46               | 20.6           | .15               | 32.9                    | .36               | 16.4            |
| Mobile Home .....                           | 66.6  | 38.6           | 11.3          | Q              | Q                    | Q              | Q                 | Q              | Q                 | 14.0                    | .15               | 47.6            |
| Multifamily (2 or more units) ..            | 161.4   | 104.0          | 30.5          | 49.4           | 48                   | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 31.5            |
| <b>Heated Floorspace (square feet)</b>      |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Fewer than 1,000 .....                      | 300.7   | 174.1          | 51.0          | 78.4           | 76                   | 15.7           | .12               | 16.6           | .12               | 16.0                    | .18               | 20.2            |
| 1,000 to 1,999 .....                        | 508.8   | 296.4          | 86.9          | 151.9          | 147                  | 28.3           | .21               | 8.1            | .06               | 24.2                    | .26               | 20.5            |
| 2,000 or More .....                         | 365.0   | 202.6          | 59.4          | 143.2          | 139                  | 29.1           | .21               | Q              | Q                 | Q                       | Q                 | 26.9            |
| <b>Ownership of Unit</b>                    |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Owned .....                                 | 874.3   | 491.2          | 144.0         | 277.2          | 268                  | 52.1           | .38               | 15.2           | .11               | 38.7                    | .42               | 17.3            |
| Rented .....                                | 320.2   | 181.9          | 53.3          | 96.2           | 93                   | 20.9           | .15               | 10.8           | .08               | 10.4                    | .11               | 24.4            |
| <b>Year of Construction</b>                 |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 1949 or Before .....                        | 277.2   | 96.3           | 28.2          | 118.3          | 115                  | 32.9           | .24               | 11.8           | .09               | 18.0                    | .20               | 24.4            |
| 1950 to 1979 .....                          | 685.1   | 383.8          | 112.5         | 229.0          | 221                  | 38.9           | .28               | 12.5           | .09               | 20.8                    | .23               | 18.5            |
| 1980 or After <sup>3</sup> .....            | 232.2   | 193.0          | 56.6          | 26.1           | 25                   | Q              | Q                 | Q              | Q                 | 10.2                    | .11               | 38.7            |
| <b>1990 Family Income</b>                   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Less than \$10,000 .....                    | 153.5   | 78.8           | 23.1          | 40.5           | 39                   | 11.3           | .08               | Q              | Q                 | 16.6                    | .18               | 25.7            |
| \$10,000 to \$19,999 .....                  | 224.0   | 124.4          | 36.4          | 55.9           | 54                   | 22.1           | .16               | 8.3            | .06               | 13.4                    | .15               | 21.7            |
| \$20,000 to \$34,999 .....                  | 290.4   | 163.0          | 47.8          | 96.0           | 93                   | 16.5           | .12               | 7.8            | .06               | 7.0                     | .08               | 21.1            |
| \$35,000 or More .....                      | 526.6   | 306.8          | 89.9          | 181.0          | 176                  | 23.1           | .17               | 3.6            | .03               | Q                       | Q                 | 22.2            |
| <b>Below Poverty Line</b>                   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 100 Percent .....                           | 122.8   | 65.8           | 19.3          | 27.3           | 26                   | Q              | Q                 | 7.0            | .05               | 14.8                    | .16               | 33.0            |
| 125 Percent .....                           | 181.2   | 102.1          | 29.9          | 40.6           | 39                   | Q              | Q                 | Q              | Q                 | 18.1                    | .20               | 26.3            |
| <b>Age of Householder</b>                   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 35 Years .....                        | 266.0   | 173.6          | 50.9          | 81.3           | 78                   | Q              | Q                 | 6.3            | .05               | 13.2                    | .14               | 23.4            |
| 35 to 59 Years .....                        | 608.2   | 357.1          | 104.6         | 181.8          | 177                  | 34.9           | .25               | 16.9           | .13               | 17.6                    | .19               | 19.7            |
| 60 Years and Over .....                     | 300.3   | 142.4          | 41.7          | 110.3          | 106                  | 26.6           | .19               | 2.8            | .02               | 18.1                    | .20               | 23.7            |
| <b>Household Size</b>                       |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 1 Person .....                              | 204.7   | 110.4          | 32.3          | 70.7           | 68                   | 10.9           | .08               | 3.7            | .03               | 9.0                     | .10               | 24.6            |
| 2 to 4 Persons .....                        | 847.4   | 486.7          | 142.6         | 255.7          | 247                  | 56.6           | .41               | 16.0           | .12               | 32.4                    | .35               | 17.1            |
| 5 or More Persons .....                     | 142.4   | 76.0           | 22.3          | 47.0           | 46                   | Q              | Q                 | 6.2            | .05               | Q                       | Q                 | 27.4            |

See footnotes at end of table.

ENERGY CONSUMPTION AND EXPENDITURES

Table 57. Total Consumption in South Region Households, 1990 (Continued)

| Characteristics                             | Major Energy Sources <sup>1</sup> (trillion Btu) | Electricity    |               | Natural Gas    |                      | Fuel Oil       |                   | Kerosene       |                   | Liquefied Petroleum Gas |                   | RSE Flow Factors |
|---|--|----------------|---------------|----------------|----------------------|----------------|-------------------|----------------|-------------------|-------------------------|-------------------|------------------|
|   |  | (trillion Btu) | (billion kWh) | (trillion Btu) | (billion cubic feet) | (trillion Btu) | (billion gallons) | (trillion Btu) | (billion gallons) | (trillion Btu)          | (billion gallons) |                  |
| RSE Column Factors:                         | 0.5  | 0.4            | 0.4           | 0.8            | 0.8                  | 1.7            | 1.7               | 1.7            | 1.7               | 1.7                     | 1.5               | 1.5              |
| East South Central Division ....            | 527.8  | 277.0          | 81.2          | 208.8          | 202                  | Q              | Q                 | 8.0            | 0.06              | 28.4                    | 0.31              | 18.8             |
| <b>Climate Zone<sup>2</sup></b>             |  |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC   | NC             | NC            | NC             | NC                   | NC             | NC                | NC             | NC                | NC                      | NC                | NC               |
| Under 5,500 HDD .....                       | 417.8  | 226.2          | 66.3          | 149.6          | 145                  | Q              | Q                 | 8.0            | .06               | 28.4                    | .31               | 32.7             |
| 2,000 CDD or More and Under 4,000 HDD ..... | Q  | Q              | Q             | Q              | Q                    | NC             | NC                | NC             | NC                | NC                      | NC                | NC               |
| <b>Type of Housing Unit</b>                 |  |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| Single-Family .....                         | 426.8  | 219.4          | 64.3          | 172.8          | 167                  | Q              | Q                 | 4.5            | .03               | 24.8                    | .27               | 26.7             |
| Mobile Home .....                           | 30.0   | 19.8           | 5.8           | Q              | Q                    | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 56.3             |
| Multifamily (2 or more units) ...           | 71.0   | 37.8           | 11.1          | 33.2           | 32                   | NC             | NC                | NC             | NC                | NC                      | NC                | 58.1             |
| <b>Heated Floorspace (square feet)</b>      |  |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| Fewer than 1,000 .....                      | 148.2  | 76.6           | 22.4          | 53.3           | 52                   | Q              | Q                 | 5.0            | .04               | 11.2                    | .12               | 23.2             |
| 1,000 to 1,999 .....                        | 200.6  | 114.1          | 33.4          | 70.2           | 68                   | Q              | Q                 | Q              | Q                 | 13.1                    | .14               | 21.7             |
| 2,000 or More .....                         | 179.0  | 86.3           | 25.3          | Q              | Q                    | Q              | Q                 | Q              | Q                 | 4.1                     | .04               | 47.5             |
| <b>Ownership of Unit</b>                    |  |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| Owned .....                                 | 399.1  | 206.3          | 60.5          | 155.7          | 150                  | Q              | Q                 | Q              | Q                 | 25.4                    | .28               | 27.9             |
| Rented .....                                | 128.6  | 70.7           | 20.7          | 53.1           | 51                   | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 35.7             |
| <b>Year of Construction</b>                 |  |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| 1949 or Before .....                        | 123.0  | 43.7           | 12.8          | 64.4           | 62                   | Q              | Q                 | Q              | Q                 | 9.3                     | .10               | 37.2             |
| 1950 to 1979 .....                          | 288.8  | 165.4          | 48.5          | 100.6          | 97                   | Q              | Q                 | Q              | Q                 | 15.8                    | .17               | 20.5             |
| 1980 or After <sup>3</sup> .....            | 115.9  | 68.0           | 19.9          | Q              | Q                    | NC             | NC                | Q              | Q                 | Q                       | Q                 | 76.8             |
| <b>1990 Family Income</b>                   |  |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| Less than \$10,000 .....                    | 100.5  | 48.3           | 14.2          | 38.5           | 37                   | Q              | Q                 | Q              | Q                 | 10.4                    | .11               | 24.5             |
| \$10,000 to \$19,999 .....                  | 105.2  | 60.5           | 17.7          | 32.5           | 31                   | Q              | Q                 | Q              | Q                 | 7.9                     | .09               | 27.5             |
| \$20,000 to \$34,999 .....                  | 127.8  | 69.2           | 20.3          | 49.2           | 47                   | NC             | NC                | 4.0            | .03               | 5.5                     | .06               | 15.8             |
| \$35,000 or More .....                      | 194.2  | 99.1           | 29.0          | 88.7           | 86                   | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 52.2             |
| <b>Below Poverty Line</b>                   |  |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| 100 Percent .....                           | 84.9   | 42.2           | 12.4          | 30.9           | 30                   | Q              | Q                 | Q              | Q                 | 9.3                     | .10               | 26.3             |
| 125 Percent .....                           | 113.4  | 57.4           | 16.8          | 40.2           | 39                   | Q              | Q                 | Q              | Q                 | 11.9                    | .13               | 27.8             |
| <b>Age of Householder</b>                   |  |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| Under 35 Years .....                        | 129.7  | 69.2           | 20.3          | 53.2           | 52                   | Q              | Q                 | 2.9            | .02               | Q                       | Q                 | 22.8             |
| 35 to 59 Years .....                        | 257.2  | 142.1          | 41.6          | 98.6           | 95                   | Q              | Q                 | Q              | Q                 | 10.1                    | .11               | 28.7             |
| 60 Years and Over .....                     | 140.8  | 65.7           | 19.3          | 56.9           | 55                   | Q              | Q                 | Q              | Q                 | 14.2                    | .16               | 21.1             |
| <b>Household Size</b>                       |  |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| 1 Person .....                              | 101.2  | 44.6           | 13.1          | 46.5           | 45                   | Q              | Q                 | Q              | Q                 | 7.4                     | .08               | 21.4             |
| 2 to 4 Persons .....                        | 368.8  | 204.8          | 60.0          | 137.4          | 132                  | Q              | Q                 | 5.3            | .04               | 17.5                    | .19               | 22.2             |
| 5 or More Persons .....                     | 57.8   | 27.6           | 8.1           | 24.9           | 24                   | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 50.0             |

See footnotes at end of table.

SOUTH

Table 57. Total Consumption in South Region Households, 1990 (Continued)

| Characteristics                        | Major Energy Sources <sup>1</sup><br>(trillion Btu) | Electricity    |               | Natural Gas    |                      | Fuel Oil       |                   | Kerosene       |                   | Liquefied Petroleum Gas |                   | RSE Row Factors |
|--|---|----------------|---------------|----------------|----------------------|----------------|-------------------|----------------|-------------------|-------------------------|-------------------|-----------------|
|  |   | (trillion Btu) | (billion kWh) | (trillion Btu) | (billion cubic feet) | (trillion Btu) | (billion gallons) | (trillion Btu) | (billion gallons) | (trillion Btu)          | (billion gallons) |                 |
|  |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| RSE Column Factors:                    | 0.5   | 0.4            | 0.4           | 0.8            | 0.8                  | 1.7            | 1.7               | 1.7            | 1.7               | 1.5                     | 1.5               |                 |
| <b>West South Central Division</b>     | 880.0   | 411.2          | 120.5         | 448.1          | 496                  | NC             | NC                | Q              | Q                 | Q                       | Q                 | 14.0            |
| <b>Climate Zone<sup>2</sup></b>        |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 2,000 CDD and Over 5,500 HDD     | NC  | NC             | NC            | NC             | NC                   | NC             | NC                | NC             | NC                | NC                      | NC                | NC              |
| Under 5,500 HDD                        | Q   | 44.0           | 12.9          | Q              | Q                    | NC             | NC                | Q              | Q                 | Q                       | Q                 | 85.2            |
| 2,000 CDD or More and Under 4,000 HDD  | 727.5   | 367.2          | 107.6         | 349.9          | 339                  | NC             | NC                | Q              | Q                 | Q                       | Q                 | 23.1            |
| <b>Type of Housing Unit</b>            |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Single-Family                          | 774.6   | 345.3          | 101.2         | 409.9          | 399                  | NC             | NC                | Q              | Q                 | Q                       | Q                 | 16.3            |
| Mobile Home                            | 19.6  | Q              | Q             | Q              | Q                    | NC             | NC                | Q              | Q                 | Q                       | Q                 | 75.9            |
| Multifamily (2 or more units)          | 85.7  | 54.7           | 16.0          | 31.0           | 30                   | NC             | NC                | NC             | NC                | NC                      | NC                | 54.4            |
| <b>Heated Floorspace (square feet)</b> |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Fewer than 1,000                       | 153.7   | 76.5           | 22.4          | 73.0           | 71                   | NC             | NC                | Q              | Q                 | Q                       | Q                 | 30.0            |
| 1,000 to 1,999                         | 523.4   | 235.6          | 69.0          | 275.4          | 268                  | NC             | NC                | Q              | Q                 | Q                       | Q                 | 13.5            |
| 2,000 or More                          | 202.9   | 99.1           | 29.0          | 99.8           | 97                   | NC             | NC                | NC             | NC                | NC                      | NC                | 37.0            |
| <b>Ownership of Unit</b>               |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Owned                                  | 674.1   | 306.9          | 89.9          | 349.4          | 340                  | NC             | NC                | Q              | Q                 | Q                       | Q                 | 21.7            |
| Rented                                 | 205.9   | 104.3          | 30.6          | 98.8           | 96                   | NC             | NC                | NC             | NC                | NC                      | NC                | 29.1            |
| <b>Year of Construction</b>            |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 1949 or Before                         | 150.8   | 57.1           | 16.7          | 92.2           | 89                   | NC             | NC                | Q              | Q                 | Q                       | Q                 | 27.2            |
| 1950 to 1979                           | 621.7   | 284.3          | 83.3          | 330.3          | 322                  | NC             | NC                | Q              | Q                 | Q                       | Q                 | 17.4            |
| 1980 or After <sup>3</sup>             | 107.4   | 69.8           | 20.4          | 25.7           | 25                   | NC             | NC                | NC             | NC                | NC                      | NC                | 43.3            |
| <b>1990 Family Income</b>              |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Less than \$10,000                     | 149.5   | 58.9           | 17.3          | 87.9           | 85                   | NC             | NC                | NC             | NC                | NC                      | NC                | 32.4            |
| \$10,000 to \$19,999                   | 163.3   | 73.9           | 21.7          | 80.5           | 78                   | NC             | NC                | Q              | Q                 | Q                       | Q                 | 24.0            |
| \$20,000 to \$34,999                   | 234.0   | 100.0          | 29.3          | 131.5          | 128                  | NC             | NC                | Q              | Q                 | Q                       | Q                 | 24.3            |
| \$35,000 or More                       | 333.1   | 178.4          | 52.3          | 148.2          | 144                  | NC             | NC                | NC             | NC                | NC                      | NC                | 30.6            |
| <b>Below Poverty Line</b>              |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 100 Percent                            | 158.0   | 60.1           | 17.6          | 92.3           | 90                   | NC             | NC                | NC             | NC                | NC                      | NC                | 29.7            |
| 125 Percent                            | 201.2   | 81.6           | 23.9          | 113.7          | 111                  | NC             | NC                | NC             | NC                | NC                      | NC                | 32.8            |
| <b>Age of Householder</b>              |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 35 Years                         | 220.4   | 105.1          | 30.8          | 109.9          | 107                  | NC             | NC                | Q              | Q                 | Q                       | Q                 | 22.8            |
| 35 to 59 Years                         | 384.6   | 194.1          | 56.9          | 179.7          | 175                  | NC             | NC                | NC             | NC                | NC                      | NC                | 23.8            |
| 60 Years and Over                      | 275.0   | 112.0          | 32.8          | 158.6          | 154                  | NC             | NC                | Q              | Q                 | Q                       | Q                 | 13.6            |
| <b>Household Size</b>                  |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 1 Person                               | 136.2   | 61.2           | 17.9          | 71.2           | 69                   | NC             | NC                | NC             | NC                | NC                      | NC                | 24.6            |
| 2 to 4 Persons                         | 585.0   | 287.7          | 78.5          | 304.9          | 297                  | NC             | NC                | Q              | Q                 | Q                       | Q                 | 16.5            |
| 5 or More Persons                      | 158.8   | 82.3           | 24.1          | 72.0           | 70                   | NC             | NC                | NC             | NC                | NC                      | NC                | 26.3            |

1 Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.  
 2 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.  
 3 Does not include all new construction for 1990.  
 NC = No cases in sample.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 NF = No applicable RSE row/column factor.  
 Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

ENERGY CONSUMPTION AND EXPENDITURES

Table 58. Total Expenditures in South Region Households, 1990  
(Billion Dollars)

| Characteristics                        | South Region                      |             |             |          |          |                         | RSE Flow Factors |
|--|-----------------------------------|-------------|-------------|----------|----------|-------------------------|------------------|
|  | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas |                  |
| RSE Column Factors:                    | 0.5                               | 0.5         | 0.8         | 1.9      | 1.9      | 1.6                     |                  |
| <b>Total Region</b> .....              | 37.17                             | 29.12       | 5.91        | 0.63     | 0.32     | 1.19                    | 9.1              |
| <b>Climate Zone<sup>2</sup></b>        |                                   |             |             |          |          |                         |                  |
| Under 2,000 HDD and Over 5,500 HDD     | Q                                 | Q           | NC          | NC       | NC       | NC                      | NF               |
| Under 5,500 HDD                        | 19.36                             | 14.20       | 3.40        | .63      | .27      | .87                     | 14.5             |
| 2,000 HDD or More and Under 4,000 HDD  | 17.77                             | 14.88       | 2.51        | Q        | Q        | .32                     | 17.6             |
| <b>Type of Housing Unit</b>            |                                   |             |             |          |          |                         |                  |
| Single-Family                          | 30.28                             | 23.40       | 5.17        | .56      | .23      | .92                     | 11.0             |
| Mobile Home                            | 1.90                              | 1.45        | .10         | Q        | .09      | .24                     | 32.5             |
| Multifamily (2 or more units)          | 4.99                              | 4.27        | .64         | Q        | Q        | Q                       | 24.9             |
| <b>Heated Floorspace (square feet)</b> |                                   |             |             |          |          |                         |                  |
| Fewer than 1,000                       | 9.06                              | 7.07        | 1.23        | .14      | .21      | .40                     | 14.2             |
| 1,000 to 1,999                         | 17.67                             | 13.93       | 2.82        | .23      | .09      | .60                     | 12.8             |
| 2,000 or More                          | 10.45                             | 8.12        | 1.86        | .26      | .01      | .19                     | 21.8             |
| <b>Ownership of Unit</b>               |                                   |             |             |          |          |                         |                  |
| Owned                                  | 27.54                             | 21.40       | 4.48        | .47      | .20      | .99                     | 12.1             |
| Rented                                 | 9.64                              | 7.72        | 1.43        | .17      | .12      | .20                     | 18.4             |
| <b>Year of Construction</b>            |                                   |             |             |          |          |                         |                  |
| 1949 or Before                         | 6.66                              | 4.25        | 1.62        | .28      | .14      | .37                     | 17.9             |
| 1950 to 1979                           | 22.55                             | 17.75       | 3.76        | .34      | .15      | .54                     | 12.0             |
| 1980 or After <sup>3</sup>             | 7.96                              | 7.12        | .53         | Q        | Q        | .28                     | 27.0             |
| <b>1990 Family Income</b>              |                                   |             |             |          |          |                         |                  |
| Less than \$10,000                     | 5.56                              | 4.03        | .97         | .11      | Q        | .37                     | 16.2             |
| \$10,000 to \$19,999                   | 7.12                              | 5.47        | .99         | .20      | .10      | .36                     | 14.7             |
| \$20,000 to \$34,999                   | 9.11                              | 7.16        | 1.53        | .13      | .11      | .18                     | 13.5             |
| \$35,000 or More                       | 15.39                             | 12.47       | 2.42        | .19      | .04      | .28                     | 17.8             |
| <b>Below Poverty Line</b>              |                                   |             |             |          |          |                         |                  |
| 100 Percent                            | 5.01                              | 3.64        | .86         | .08      | .08      | .36                     | 19.8             |
| 125 Percent                            | 6.95                              | 5.19        | 1.11        | .11      | .10      | .44                     | 18.4             |
| <b>Age of Householder</b>              |                                   |             |             |          |          |                         |                  |
| Under 35 Years                         | 9.34                              | 7.52        | 1.36        | Q        | .09      | .28                     | 13.9             |
| 35 to 59 Years                         | 18.33                             | 14.74       | 2.64        | .30      | .19      | .46                     | 13.8             |
| 60 Years and Over                      | 9.50                              | 6.86        | 1.90        | .23      | .04      | .46                     | 14.5             |
| <b>Household Size</b>                  |                                   |             |             |          |          |                         |                  |
| 1 Person                               | 6.27                              | 4.74        | 1.13        | .10      | .05      | .25                     | 14.9             |
| 2 to 4 Persons                         | 25.84                             | 20.43       | 3.97        | .49      | .19      | .76                     | 10.5             |
| 5 or More Persons                      | 5.06                              | 3.95        | .80         | Q        | .07      | .19                     | 19.5             |

See footnotes at end of table.

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ENERGY CONSUMPTION AND EXPENDITURES

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Table 58. Total Expenditures in South Region Households, 1990 (Continued)  
(Billion Dollars)

| Characteristics                       | Major Energy Sources <sup>1</sup> |             |          |          |                         | RSE Row Factors |  |  |
|---------------------------------------|-----------------------------------|-------------|----------|----------|-------------------------|-----------------|--|--|
|                                       | Electricity                       | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |  |  |
| RSE Column Factors:                   | 0.5                               | 0.8         | 1.9      | 1.9      | 1.6                     |                 |  |  |
| South Atlantic Division               | 19.27                             | 2.54        | 0.59     | 0.24     | 0.65                    | 13.4            |  |  |
| Climate Zone <sup>2</sup>             |                                   |             |          |          |                         |                 |  |  |
| Under 2,000 CDD and Over 5,500 HDD    | Q                                 | NC          | NC       | NC       | NC                      | NF              |  |  |
| Under 5,500 HDD                       | 12.85                             | 2.31        | .58      | .20      | .44                     | 16.1            |  |  |
| 2,000 CDD or More and Under 4,000 HDD | 6.38                              | Q           | Q        | Q        | .21                     | 18.2            |  |  |
| Type of Housing Unit                  |                                   |             |          |          |                         |                 |  |  |
| Single-Family                         | 15.32                             | 2.16        | .52      | .19      | .43                     | 15.1            |  |  |
| Mobile Home                           | 1.15                              | Q           | Q        | Q        | .19                     | 44.7            |  |  |
| Multifamily (2 or more units)         | 2.80                              | .33         | Q        | Q        | Q                       | 31.8            |  |  |
| Heated Floorspace (square feet)       |                                   |             |          |          |                         |                 |  |  |
| Fewer than 1,000                      | 5.03                              | .55         | .12      | .16      | .22                     | 17.9            |  |  |
| 1,000 to 1,999                        | 8.37                              | 1.02        | .23      | .07      | .32                     | 19.3            |  |  |
| 2,000 or More                         | 5.87                              | .96         | .23      | Q        | Q                       | 25.3            |  |  |
| Ownership of Unit                     |                                   |             |          |          |                         |                 |  |  |
| Owned                                 | 14.07                             | 1.89        | .43      | .14      | .51                     | 15.4            |  |  |
| Rented                                | 5.20                              | .65         | .16      | .11      | .14                     | 22.5            |  |  |
| Year of Construction                  |                                   |             |          |          |                         |                 |  |  |
| 1949 or Before                        | 3.58                              | .79         | .26      | .12      | .24                     | 22.7            |  |  |
| 1950 to 1979                          | 10.92                             | 1.57        | .32      | .11      | .28                     | 16.5            |  |  |
| 1980 or After <sup>3</sup>            | 4.77                              | .18         | Q        | Q        | .13                     | 37.0            |  |  |
| 1990 Family Income                    |                                   |             |          |          |                         |                 |  |  |
| Less than \$10,000                    | 2.45                              | .27         | .09      | Q        | .23                     | 25.2            |  |  |
| \$10,000 to \$19,999                  | 3.59                              | .40         | .18      | .07      | .18                     | 19.4            |  |  |
| \$20,000 to \$34,999                  | 4.65                              | .64         | .13      | .08      | .08                     | 18.4            |  |  |
| \$35,000 or More                      | 8.59                              | 1.23        | .18      | .03      | Q                       | 20.5            |  |  |
| Below Poverty Line                    |                                   |             |          |          |                         |                 |  |  |
| 100 Percent                           | 2.02                              | .17         | Q        | Q        | .19                     | 34.9            |  |  |
| 125 Percent                           | 3.00                              | .27         | Q        | Q        | .24                     | 24.1            |  |  |
| Age of Householder                    |                                   |             |          |          |                         |                 |  |  |
| Under 35 Years                        | 4.87                              | .55         | Q        | .06      | .17                     | 21.9            |  |  |
| 35 to 59 Years                        | 9.92                              | 1.22        | .28      | .16      | .23                     | 18.5            |  |  |
| 60 Years and Over                     | 4.47                              | .77         | .22      | .03      | .24                     | 21.9            |  |  |
| Household Size                        |                                   |             |          |          |                         |                 |  |  |
| 1 Person                              | 3.28                              | .50         | .08      | .04      | .13                     | 21.4            |  |  |
| 2 to 4 Persons                        | 13.79                             | 1.73        | .46      | .15      | .42                     | 15.2            |  |  |
| 5 or More Persons                     | 2.20                              | .31         | Q        | Q        | Q                       | 27.5            |  |  |

See footnotes at end of table.

**Table 58. Total Expenditures in South Region Households, 1990 (Continued)**  
(Billion Dollars)

| Characteristics                                  | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|--|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|  | RSE Column Factors:               | 0.5         | 0.5         | 0.8      | 1.9      | 1.9                     |                 |
| <b>East South Central Division ...</b>           | 6.27                              | 4.81        | 1.00        | Q        | 0.07     | 0.34                    | 16.3            |
| <b>Climate Zone<sup>2</sup></b>                  |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and Over 5,500 HDD .....         | NC                                | NC          | NC          | NC       | NC       | NC                      | NC              |
| Under 5,500 HDD and Over 2,000 CDD or More ..... | 5.08                              | 3.92        | .71         | Q        | .07      | .34                     | 31.1            |
| Under 4,000 HDD .....                            | Q                                 | Q           | Q           | NC       | NC       | NC                      | NE              |
| <b>Type of Housing Unit</b>                      |                                   |             |             |          |          |                         |                 |
| Single-Family .....                              | 5.02                              | 3.80        | .83         | Q        | .04      | .30                     | 24.2            |
| Mobile Home .....                                | .45                               | .36         | Q           | Q        | Q        | Q                       | 48.3            |
| Multifamily (2 or more units) ...                | .80                               | .65         | .15         | NC       | NC       | NC                      | 55.8            |
| <b>Heated Floorspace (square feet)</b>           |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                           | 1.79                              | 1.34        | .25         | Q        | .05      | .13                     | 22.5            |
| 1,000 to 1,999 .....                             | 2.53                              | 2.00        | .35         | Q        | Q        | .16                     | 18.3            |
| 2,000 or More .....                              | 1.95                              | 1.48        | Q           | Q        | Q        | .05                     | 48.3            |
| <b>Ownership of Unit</b>                         |                                   |             |             |          |          |                         |                 |
| Owned .....                                      | 4.73                              | 3.58        | .74         | Q        | .06      | .31                     | 25.8            |
| Rented .....                                     | 1.54                              | 1.23        | .26         | Q        | Q        | Q                       | 32.8            |
| <b>Year of Construction</b>                      |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                             | 1.25                              | .78         | .31         | Q        | Q        | .12                     | 36.4            |
| 1950 to 1979 .....                               | 3.60                              | 2.86        | .49         | Q        | Q        | .19                     | 19.7            |
| 1980 or After <sup>3</sup> .....                 | 1.42                              | 1.18        | Q           | NC       | Q        | Q                       | 68.2            |
| <b>1990 Family Income</b>                        |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                         | 1.18                              | .85         | .18         | Q        | Q        | .11                     | 21.1            |
| \$10,000 to \$19,999 .....                       | 1.34                              | 1.05        | .16         | Q        | Q        | .10                     | 25.6            |
| \$20,000 to \$34,999 .....                       | 1.56                              | 1.22        | .23         | NC       | .03      | .08                     | 15.3            |
| \$35,000 or More .....                           | 2.19                              | 1.70        | .42         | Q        | Q        | Q                       | 47.3            |
| <b>Below Poverty Line</b>                        |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                                | 1.00                              | .73         | .15         | Q        | Q        | .10                     | 23.2            |
| 125 Percent .....                                | 1.36                              | 1.00        | .19         | Q        | Q        | .13                     | 24.4            |
| <b>Age of Householder</b>                        |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                             | 1.54                              | 1.22        | .25         | Q        | .03      | Q                       | 21.5            |
| 35 to 59 Years .....                             | 3.10                              | 2.45        | .48         | Q        | Q        | .12                     | 25.9            |
| 60 Years and Over .....                          | 1.63                              | 1.15        | .27         | Q        | Q        | .17                     | 20.7            |
| <b>Household Size</b>                            |                                   |             |             |          |          |                         |                 |
| 1 Person .....                                   | 1.12                              | .80         | .22         | Q        | Q        | .08                     | 20.3            |
| 2 to 4 Persons .....                             | 4.50                              | 3.54        | .66         | Q        | .05      | .22                     | 19.4            |
| 5 or More Persons .....                          | .64                               | .47         | .11         | Q        | Q        | Q                       | 47.8            |

See footnotes at end of table.

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**Table 58. Total Expenditures in South Region Households, 1990 (Continued)**  
(Billion Dollars)

| Characteristics                                | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|--|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|  | 0.5                               | 0.5         | 0.8         | 1.9      | 1.9      | 1.6                     |                 |
| <b>West South Central Division</b> ..          | 11.64                             | 9.06        | 2.37        | NC       | Q        | Q                       | 12.3            |
| <b>Climate Zone<sup>2</sup></b>                |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and<br>Over 5,500 HDD .....    | NC                                | NC          | NC          | NC       | NC       | NC                      | NC              |
| Under 5,500 HDD .....                          | 1.43                              | .96         | Q           | NC       | Q        | Q                       | 73.1            |
| 2,000 CDD or More and<br>Under 4,000 HDD ..... | 10.21                             | 8.11        | 1.99        | NC       | Q        | Q                       | 19.6            |
| <b>Type of Housing Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Single-Family .....                            | 9.95                              | 7.58        | 2.17        | NC       | Q        | Q                       | 15.7            |
| Mobile Home .....                              | .31                               | Q           | Q           | NC       | Q        | Q                       | 94.4            |
| Multifamily (2 or more units) ...              | 1.39                              | 1.23        | .16         | NC       | NC       | NC                      | 52.7            |
| <b>Heated Floorspace<br/>(square feet)</b>     |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                         | 2.24                              | 1.77        | .42         | NC       | Q        | Q                       | 30.7            |
| 1,000 to 1,999 .....                           | 6.77                              | 5.20        | 1.45        | NC       | Q        | Q                       | 12.8            |
| 2,000 or More .....                            | 2.63                              | 2.10        | .50         | NC       | NC       | Q                       | 35.9            |
| <b>Ownership of Unit</b>                       |                                   |             |             |          |          |                         |                 |
| Owned .....                                    | 8.75                              | 6.72        | 1.85        | NC       | Q        | Q                       | 21.2            |
| Rented .....                                   | 2.90                              | 2.34        | .52         | NC       | NC       | Q                       | 31.7            |
| <b>Year of Construction</b>                    |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                           | 1.84                              | 1.30        | .52         | NC       | Q        | Q                       | 28.2            |
| 1950 to 1979 .....                             | 8.03                              | 6.25        | 1.70        | NC       | Q        | Q                       | 15.2            |
| 1980 or After <sup>3</sup> .....               | 1.77                              | 1.51        | .15         | NC       | NC       | Q                       | 41.2            |
| <b>1990 Family Income</b>                      |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                       | 1.93                              | 1.39        | .52         | NC       | NC       | Q                       | 30.7            |
| \$10,000 to \$19,999 .....                     | 2.20                              | 1.67        | .44         | NC       | Q        | Q                       | 23.3            |
| \$20,000 to \$34,999 .....                     | 2.90                              | 2.22        | .66         | NC       | Q        | Q                       | 20.7            |
| \$35,000 or More .....                         | 4.61                              | 3.79        | .76         | NC       | NC       | Q                       | 31.0            |
| <b>Below Poverty Line</b>                      |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                              | 1.99                              | 1.39        | .53         | NC       | NC       | Q                       | 25.6            |
| 125 Percent .....                              | 2.59                              | 1.88        | .65         | NC       | NC       | Q                       | 29.3            |
| <b>Age of Householder</b>                      |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                           | 2.93                              | 2.31        | .56         | NC       | Q        | Q                       | 19.2            |
| 35 to 59 Years .....                           | 5.31                              | 4.27        | .94         | NC       | NC       | Q                       | 22.8            |
| 60 Years and Over .....                        | 3.40                              | 2.49        | .87         | NC       | Q        | Q                       | 14.9            |
| <b>Household Size</b>                          |                                   |             |             |          |          |                         |                 |
| 1 Person .....                                 | 1.87                              | 1.41        | .41         | NC       | NC       | Q                       | 26.3            |
| 2 to 4 Persons .....                           | 7.55                              | 5.86        | 1.58        | NC       | Q        | Q                       | 14.7            |
| 5 or More Persons .....                        | 2.22                              | 1.79        | .38         | NC       | NC       | Q                       | 26.8            |

<sup>1</sup> Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>3</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

# ENERGY CONSUMPTION AND EXPENDITURES

## Table 59. Electricity Consumption and Expenditures in South Region Households, 1990

| Characteristics                             | Households Using Electricity (million) | Average per Household |        |                        | RSE Row Factors |                              |     |
|---|--|-----------------------|--------|------------------------|-----------------|------------------------------|-----|
|   |  | Consumption           |        | Expenditures (dollars) |                 | Expenditures (cents per kWh) |     |
| RSE Column Factors:                         | 1.9                                    | 1.0                   | 1.0    | 1.0                    | 1.2             | 0.5                          |     |
| <b>South Region</b>                         |  |                       |        |                        |                 |                              |     |
| <b>Total Region</b> .....                   | 32.3                                   | 42.2                  | 12,354 | 902                    | 1,624           | 7.3                          | 2.7 |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |        |                        |                 |                              |     |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q                                      | Q                     | Q      | Q                      | Q               | Q                            | NF  |
| Under 5,500 HDD .....                       | 17.6                                   | 39.5                  | 11,573 | 808                    | 1,690           | 7.0                          | 3.6 |
| 2,000 CDD or More and Under 4,000 HDD ..... | 14.7                                   | 45.4                  | 13,292 | 1013                   | 1,547           | 7.6                          | 4.1 |
| <b>Type of Housing Unit</b>                 |  |                       |        |                        |                 |                              |     |
| Single-Family .....                         | 23.7                                   | 46.2                  | 13,537 | 987                    | 1,901           | 7.3                          | 2.7 |
| Mobile Home .....                           | 1.9                                    | 37.0                  | 10,855 | 772                    | 894             | 7.1                          | 7.0 |
| Multifamily (2 or more units) ..            | 6.7                                    | 29.3                  | 8,591  | 637                    | 848             | 7.4                          | 4.4 |
| <b>Heated Floorspace (square feet)</b>      |  |                       |        |                        |                 |                              |     |
| Fewer than 1,000 .....                      | 10.9                                   | 30.0                  | 8,792  | 649                    | 818             | 7.4                          | 3.0 |
| 1,000 to 1,999 .....                        | 14.8                                   | 43.8                  | 12,825 | 943                    | 1,564           | 7.4                          | 2.3 |
| 2,000 or More .....                         | 6.6                                    | 58.6                  | 17,165 | 1226                   | 3,083           | 7.1                          | 4.2 |
| <b>Ownership of Unit</b>                    |  |                       |        |                        |                 |                              |     |
| Owned .....                                 | 21.6                                   | 46.6                  | 13,653 | 993                    | 1,937           | 7.3                          | 2.8 |
| Rented .....                                | 10.7                                   | 33.2                  | 9,744  | 719                    | 994             | 7.4                          | 3.4 |
| <b>Year of Construction</b>                 |  |                       |        |                        |                 |                              |     |
| 1949 or Before .....                        | 6.0                                    | 32.7                  | 9,574  | 704                    | 1,509           | 7.4                          | 4.2 |
| 1950 to 1979 .....                          | 18.8                                   | 44.3                  | 12,972 | 943                    | 1,639           | 7.3                          | 2.9 |
| 1980 or After <sup>2</sup> .....            | 7.4                                    | 44.5                  | 13,043 | 958                    | 1,678           | 7.3                          | 4.4 |
| <b>1990 Family Income</b>                   |  |                       |        |                        |                 |                              |     |
| Less than \$10,000 .....                    | 6.4                                    | 29.1                  | 8,528  | 630                    | 1,161           | 7.4                          | 3.9 |
| \$10,000 to \$19,999 .....                  | 7.0                                    | 36.8                  | 10,788 | 779                    | 1,313           | 7.2                          | 3.2 |
| \$20,000 to \$34,999 .....                  | 8.3                                    | 40.1                  | 11,763 | 865                    | 1,513           | 7.4                          | 3.2 |
| \$35,000 or More .....                      | 10.6                                   | 55.1                  | 16,162 | 1177                   | 2,196           | 7.3                          | 3.9 |
| <b>Below Poverty Line</b>                   |  |                       |        |                        |                 |                              |     |
| 100 Percent .....                           | 5.5                                    | 30.3                  | 8,890  | 657                    | 1,157           | 7.4                          | 4.2 |
| 125 Percent .....                           | 7.5                                    | 32.3                  | 9,463  | 695                    | 1,196           | 7.3                          | 3.6 |
| <b>Age of Householder</b>                   |  |                       |        |                        |                 |                              |     |
| Under 35 Years .....                        | 9.2                                    | 37.9                  | 11,117 | 820                    | 1,276           | 7.4                          | 3.0 |
| 35 to 59 Years .....                        | 14.1                                   | 49.3                  | 14,450 | 1048                   | 1,852           | 7.3                          | 3.1 |
| 60 Years and Over .....                     | 9.1                                    | 35.3                  | 10,353 | 757                    | 1,621           | 7.3                          | 3.2 |
| <b>Household Size</b>                       |  |                       |        |                        |                 |                              |     |
| 1 Person .....                              | 7.8                                    | 27.6                  | 8,076  | 604                    | 1,264           | 7.5                          | 3.4 |
| 2 to 4 Persons .....                        | 21.0                                   | 45.8                  | 13,419 | 975                    | 1,749           | 7.3                          | 2.4 |
| 5 or More Persons .....                     | 3.5                                    | 53.1                  | 15,566 | 1129                   | 1,681           | 7.3                          | 4.1 |

See footnotes at end of table.

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**Table 59. Electricity Consumption and Expenditures in South Region Households, 1990 (Continued)**

| Characteristics                             | Households Using Electricity (million) | Average per Household |        |                        |                          | Expenditures (cents per kWh) | RSE Row Factors |
|---|--|-----------------------|--------|------------------------|--------------------------|------------------------------|-----------------|
|   |  | Consumption           |        | Expenditures (dollars) | Floorspace (square feet) |                              |                 |
|   |  | (million Btu)         | (kWh)  |                        |                          |                              |                 |
| RSE Column Factors:                         | 1.9                                    | 1.0                   | 1.0    | 1.0                    | 1.2                      | 0.5                          |                 |
| <b>South Atlantic Division</b> .....        | 16.6                                   | 40.7                  | 11,914 | 921                    | 1,607                    | 7.7                          | 3.1             |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |        |                        |                          |                              |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q                                      | Q                     | Q      | Q                      | Q                        | Q                            | NF              |
| Under 5,500 HDD .....                       | 11.1                                   | 38.0                  | 11,129 | 836                    | 1,639                    | 7.5                          | 4.3             |
| 2,000 CDD or More and Under 4,000 HDD ..... | 5.4                                    | 46.3                  | 13,556 | 1096                   | 1,547                    | 8.1                          | 5.0             |
| <b>Type of Housing Unit</b>                 |  |                       |        |                        |                          |                              |                 |
| Single-Family .....                         | 11.7                                   | 45.3                  | 13,284 | 1027                   | 1,907                    | 7.7                          | 3.9             |
| Mobile Home .....                           | 1.1                                    | 36.2                  | 10,603 | 783                    | 894                      | 7.4                          | 9.6             |
| Multifamily ( 2 or more units) ..           | 3.8                                    | 27.5                  | 8,049  | 632                    | 883                      | 7.9                          | 6.9             |
| <b>Heated Floorspace (square feet)</b>      |  |                       |        |                        |                          |                              |                 |
| Fewer than 1,000 .....                      | 5.9                                    | 29.4                  | 8,603  | 669                    | 825                      | 7.8                          | 4.3             |
| 1,000 to 1,999 .....                        | 7.0                                    | 42.1                  | 12,345 | 957                    | 1,550                    | 7.8                          | 3.4             |
| 2,000 or More .....                         | 3.6                                    | 56.4                  | 16,537 | 1266                   | 3,010                    | 7.7                          | 5.5             |
| <b>Ownership of Unit</b>                    |  |                       |        |                        |                          |                              |                 |
| Owned .....                                 | 10.8                                   | 45.5                  | 13,325 | 1028                   | 1,935                    | 7.7                          | 4.2             |
| Rented .....                                | 5.8                                    | 31.6                  | 9,265  | 720                    | 992                      | 7.8                          | 5.3             |
| <b>Year of Construction</b>                 |  |                       |        |                        |                          |                              |                 |
| 1949 or Before .....                        | 3.0                                    | 32.0                  | 9,377  | 721                    | 1,611                    | 7.7                          | 5.6             |
| 1950 to 1979 .....                          | 8.9                                    | 43.1                  | 12,641 | 971                    | 1,663                    | 7.7                          | 4.6             |
| 1980 or After <sup>2</sup> .....            | 4.6                                    | 41.5                  | 12,164 | 954                    | 1,498                    | 7.8                          | 5.0             |
| <b>1990 Family Income</b>                   |  |                       |        |                        |                          |                              |                 |
| Less than \$10,000 .....                    | 2.7                                    | 29.6                  | 8,688  | 672                    | 1,191                    | 7.7                          | 6.3             |
| \$10,000 to \$19,999 .....                  | 3.6                                    | 34.1                  | 9,985  | 755                    | 1,258                    | 7.6                          | 4.9             |
| \$20,000 to \$34,999 .....                  | 4.3                                    | 38.2                  | 11,189 | 870                    | 1,414                    | 7.8                          | 4.3             |
| \$35,000 or More .....                      | 6.0                                    | 51.3                  | 15,045 | 1168                   | 2,144                    | 7.8                          | 5.6             |
| <b>Below Poverty Line</b>                   |  |                       |        |                        |                          |                              |                 |
| 100 Percent .....                           | 2.0                                    | 32.2                  | 9,441  | 742                    | 1,176                    | 7.9                          | 7.0             |
| 125 Percent .....                           | 3.0                                    | 33.6                  | 9,849  | 761                    | 1,211                    | 7.7                          | 5.0             |
| <b>Age of Householder</b>                   |  |                       |        |                        |                          |                              |                 |
| Under 35 Years .....                        | 4.9                                    | 35.8                  | 10,483 | 823                    | 1,209                    | 7.8                          | 4.1             |
| 35 to 59 Years .....                        | 7.4                                    | 47.9                  | 14,049 | 1078                   | 1,901                    | 7.7                          | 4.4             |
| 60 Years and Over .....                     | 4.3                                    | 33.5                  | 9,809  | 757                    | 1,547                    | 7.7                          | 5.1             |
| <b>Household Size</b>                       |  |                       |        |                        |                          |                              |                 |
| 1 Person .....                              | 4.2                                    | 26.3                  | 7,719  | 603                    | 1,243                    | 7.8                          | 5.4             |
| 2 to 4 Persons .....                        | 10.9                                   | 44.6                  | 13,086 | 1012                   | 1,722                    | 7.7                          | 3.9             |
| 5 or More Persons .....                     | 1.5                                    | 51.8                  | 15,189 | 1152                   | 1,798                    | 7.6                          | 5.9             |

See footnotes at end of table.

Table 59. Electricity Consumption and Expenditures in South Region Households, 1990 (Continued)

| Characteristics                             | Households Using Electricity (million) | Average per Household |        |                        |                          | Expenditures (cents per kWh) | RSE Row Factors |
|---|--|-----------------------|--------|------------------------|--------------------------|------------------------------|-----------------|
|   |  | Consumption           |        | Expenditures (dollars) | Floorspace (square feet) |                              |                 |
|   |  | (million Btu)         | (kWh)  |                        |                          |                              |                 |
| RSE Column Factors:                         | 1.9                                    | 1.0                   | 1.0    | 1.0                    | 1.2                      | 0.5                          |                 |
| <b>East South Central Division</b> ....     | 6.4                                    | 43.1                  | 12,624 | 749                    | 1,675                    | 5.9                          | 3.6             |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |        |                        |                          |                              |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                                     | NC                    | NC     | NC                     | NC                       | NC                           | NC              |
| Under 5,500 HDD .....                       | 5.1                                    | 44.1                  | 12,930 | 765                    | 1,800                    | 5.9                          | 5.2             |
| 2,000 CDD or More and Under 4,000 HDD ..... | Q                                      | 39.0                  | 11,421 | 684                    | 1,182                    | 6.0                          | 41.2            |
| <b>Type of Housing Unit</b>                 |  |                       |        |                        |                          |                              |                 |
| Single-Family .....                         | 4.7                                    | 47.0                  | 13,779 | 815                    | 2,006                    | 5.9                          | 4.1             |
| Mobile Home .....                           | .5                                     | 40.6                  | 11,913 | 743                    | 908                      | 6.2                          | 8.5             |
| Multifamily ( 2 or more units) ..           | 1.3                                    | 29.6                  | 8,676  | 507                    | 758                      | 5.8                          | 6.7             |
| <b>Heated Floorspace (square feet)</b>      |  |                       |        |                        |                          |                              |                 |
| Fewer than 1,000 .....                      | 2.4                                    | 32.5                  | 9,532  | 569                    | 807                      | 6.0                          | 5.2             |
| 1,000 to 1,999 .....                        | 2.5                                    | 45.8                  | 13,417 | 801                    | 1,540                    | 6.0                          | 4.3             |
| 2,000 or More .....                         | 1.6                                    | 54.5                  | 15,971 | 932                    | 3,178                    | 5.8                          | 7.7             |
| <b>Ownership of Unit</b>                    |  |                       |        |                        |                          |                              |                 |
| Owned .....                                 | 4.4                                    | 46.5                  | 13,616 | 806                    | 2,000                    | 5.9                          | 4.3             |
| Rented .....                                | 2.0                                    | 35.5                  | 10,412 | 620                    | 949                      | 6.0                          | 4.7             |
| <b>Year of Construction</b>                 |  |                       |        |                        |                          |                              |                 |
| 1949 or Before .....                        | 1.4                                    | 31.6                  | 9,256  | 563                    | 1,404                    | 6.1                          | 8.5             |
| 1950 to 1979 .....                          | 3.7                                    | 44.5                  | 13,037 | 769                    | 1,541                    | 5.9                          | 4.3             |
| 1980 or After <sup>2</sup> .....            | 1.3                                    | 51.1                  | 14,969 | 883                    | 2,330                    | 5.9                          | 11.0            |
| <b>1990 Family Income</b>                   |  |                       |        |                        |                          |                              |                 |
| Less than \$10,000 .....                    | 1.6                                    | 29.3                  | 8,593  | 517                    | 1,128                    | 6.0                          | 5.4             |
| \$10,000 to \$19,999 .....                  | 1.5                                    | 41.6                  | 12,201 | 720                    | 1,331                    | 5.9                          | 5.6             |
| \$20,000 to \$34,999 .....                  | 1.6                                    | 43.8                  | 12,827 | 771                    | 1,752                    | 6.0                          | 6.4             |
| \$35,000 or More .....                      | 1.8                                    | 56.6                  | 16,582 | 969                    | 2,404                    | 5.8                          | 6.8             |
| <b>Below Poverty Line</b>                   |  |                       |        |                        |                          |                              |                 |
| 100 Percent .....                           | 1.3                                    | 31.8                  | 9,308  | 551                    | 1,143                    | 5.9                          | 5.0             |
| 125 Percent .....                           | 1.8                                    | 32.5                  | 9,540  | 569                    | 1,154                    | 6.0                          | 4.9             |
| <b>Age of Householder</b>                   |  |                       |        |                        |                          |                              |                 |
| Under 35 Years .....                        | 1.7                                    | 41.8                  | 12,240 | 733                    | 1,431                    | 6.0                          | 4.9             |
| 35 to 59 Years .....                        | 2.9                                    | 49.5                  | 14,506 | 852                    | 1,874                    | 5.9                          | 4.8             |
| 60 Years and Over .....                     | 1.9                                    | 34.5                  | 10,120 | 606                    | 1,586                    | 6.0                          | 4.5             |
| <b>Household Size</b>                       |  |                       |        |                        |                          |                              |                 |
| 1 Person .....                              | 1.6                                    | 27.2                  | 7,982  | 487                    | 1,240                    | 6.1                          | 6.3             |
| 2 to 4 Persons .....                        | 4.3                                    | 48.2                  | 14,113 | 833                    | 1,847                    | 5.9                          | 4.1             |
| 5 or More Persons .....                     | .5                                     | 51.1                  | 14,981 | 875                    | 1,637                    | 5.8                          | 7.4             |

See footnotes at end of table.

**Table 59. Electricity Consumption and Expenditures in South Region Households, 1990 (Continued)**

| Characteristics                             | Households Using Electricity (million) | Average per Household |        |                        |                          | Expenditures (cents per kWh) | RSE Row Factors |
|---|--|-----------------------|--------|------------------------|--------------------------|------------------------------|-----------------|
|   |  | Consumption           |        | Expenditures (dollars) | Floorspace (square feet) |                              |                 |
|   |  | (million Btu)         | (kWh)  |                        |                          |                              |                 |
| RSE Column Factors:                         | 1.9                                    | 1.0                   | 1.0    | 1.0                    | 1.2                      | 0.5                          |                 |
| <b>West South Central Division ..</b>       | 9.3                                    | 44.2                  | 12,949 | 974                    | 1,618                    | 7.5                          | 4.3             |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |        |                        |                          |                              |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                                     | NC                    | NC     | NC                     | NC                       | NC                           | NC              |
| Under 5,500 HDD .....                       | 1.3                                    | 34.2                  | 10,017 | 744                    | 1,694                    | 7.4                          | 11.2            |
| 2,000 CDD or More and Under 4,000 HDD ..... | 8.0                                    | 45.8                  | 13,419 | 1011                   | 1,606                    | 7.5                          | 5.6             |
| <b>Type of Housing Unit</b>                 |  |                       |        |                        |                          |                              |                 |
| Single-Family .....                         | 7.3                                    | 47.0                  | 13,784 | 1033                   | 1,825                    | 7.5                          | 4.4             |
| Mobile Home .....                           | .3                                     | 34.5                  | 10,097 | 781                    | 872                      | 7.7                          | 25.6            |
| Multifamily ( 2 or more units) ..           | 1.6                                    | 33.3                  | 9,773  | 748                    | 839                      | 7.7                          | 6.1             |
| <b>Heated Floorspace (square feet)</b>      |  |                       |        |                        |                          |                              |                 |
| Fewer than 1,000 .....                      | 2.6                                    | 29.2                  | 8,555  | 674                    | 812                      | 7.9                          | 6.1             |
| 1,000 to 1,999 .....                        | 5.2                                    | 45.0                  | 13,188 | 992                    | 1,595                    | 7.5                          | 3.9             |
| 2,000 or More .....                         | 1.5                                    | 68.3                  | 20,023 | 1449                   | 3,157                    | 7.2                          | 7.6             |
| <b>Ownership of Unit</b>                    |  |                       |        |                        |                          |                              |                 |
| Owned .....                                 | 6.3                                    | 48.6                  | 14,241 | 1064                   | 1,897                    | 7.5                          | 4.9             |
| Rented .....                                | 3.0                                    | 34.9                  | 10,222 | 783                    | 1,028                    | 7.7                          | 5.3             |
| <b>Year of Construction</b>                 |  |                       |        |                        |                          |                              |                 |
| 1949 or Before .....                        | 1.6                                    | 34.8                  | 10,203 | 791                    | 1,410                    | 7.8                          | 7.9             |
| 1950 to 1979 .....                          | 6.2                                    | 45.7                  | 13,407 | 1006                   | 1,663                    | 7.5                          | 4.4             |
| 1980 or After <sup>2</sup> .....            | 1.5                                    | 48.1                  | 14,093 | 1042                   | 1,659                    | 7.4                          | 6.7             |
| <b>1990 Family Income</b>                   |  |                       |        |                        |                          |                              |                 |
| Less than \$10,000 .....                    | 2.1                                    | 28.2                  | 8,271  | 664                    | 1,149                    | 8.0                          | 7.1             |
| \$10,000 to \$19,999 .....                  | 1.9                                    | 38.4                  | 11,244 | 866                    | 1,405                    | 7.7                          | 6.0             |
| \$20,000 to \$34,999 .....                  | 2.4                                    | 41.2                  | 12,080 | 916                    | 1,530                    | 7.6                          | 5.1             |
| \$35,000 or More .....                      | 2.9                                    | 62.2                  | 18,234 | 1321                   | 2,176                    | 7.2                          | 6.7             |
| <b>Below Poverty Line</b>                   |  |                       |        |                        |                          |                              |                 |
| 100 Percent .....                           | 2.2                                    | 27.7                  | 8,116  | 643                    | 1,147                    | 7.9                          | 7.5             |
| 125 Percent .....                           | 2.7                                    | 30.6                  | 8,973  | 703                    | 1,207                    | 7.8                          | 7.5             |
| <b>Age of Householder</b>                   |  |                       |        |                        |                          |                              |                 |
| Under 35 Years .....                        | 2.7                                    | 39.5                  | 11,575 | 869                    | 1,301                    | 7.5                          | 5.1             |
| 35 to 59 Years .....                        | 3.7                                    | 51.9                  | 15,204 | 1140                   | 1,738                    | 7.5                          | 6.0             |
| 60 Years and Over .....                     | 2.9                                    | 38.6                  | 11,303 | 856                    | 1,753                    | 7.6                          | 5.1             |
| <b>Household Size</b>                       |  |                       |        |                        |                          |                              |                 |
| 1 Person .....                              | 2.0                                    | 30.4                  | 8,896  | 702                    | 1,327                    | 7.9                          | 6.3             |
| 2 to 4 Persons .....                        | 5.8                                    | 46.2                  | 13,534 | 1011                   | 1,728                    | 7.5                          | 4.0             |
| 5 or More Persons .....                     | 1.5                                    | 55.1                  | 16,148 | 1198                   | 1,581                    | 7.4                          | 6.2             |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 60. Natural Gas Consumption and Expenditures in South Region Households, 1990**

| Characteristics                             | Households Using Natural Gas (million) | Average per Household |               |                        |  | RSE Row Factors |                          |
|---|--|-----------------------|---------------|------------------------|--|-----------------|--------------------------|
|   |  | Consumption           |               | Expenditures (dollars) | Expenditures (dollars per thousand cf) |                 |                          |
|   |  | (million Btu)         | (thousand cf) |                        |  |                 | Floorspace (square feet) |
| RSE Column Factors:                         | 1.8                                    | 1.1                   | 1.1           | 1.0                    | 1.0                                    | 0.5             |                          |
| <b>South Region</b>                         |  |                       |               |                        |  |                 |                          |
| <b>Total Region</b> .....                   | 15.3                                   | 67.5                  | 65.5          | 387                    | 1,745                                  | 5.9             | 4.8                      |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |               |                        |  |                 |                          |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                                     | NC                    | NC            | NC                     | NC                                     | NC              | NC                       |
| Under 5,500 HDD .....                       | 7.6                                    | 78.2                  | 76.0          | 447                    | 1,921                                  | 5.9             | 7.0                      |
| 2,000 CDD or More and Under 4,000 HDD ..... | 7.7                                    | 56.9                  | 55.0          | 328                    | 1,570                                  | 6.0             | 6.6                      |
| <b>Type of Housing Unit</b>                 |  |                       |               |                        |  |                 |                          |
| Single-Family .....                         | 12.4                                   | 72.7                  | 70.5          | 417                    | 1,948                                  | 5.9             | 4.9                      |
| Mobile Home .....                           | .3                                     | 50.0                  | 48.3          | 310                    | 818                                    | 6.4             | 14.1                     |
| Multifamily (2 or more units) ...           | 2.6                                    | 44.5                  | 43.1          | 252                    | 870                                    | 5.8             | 7.5                      |
| <b>Heated Floorspace (square feet)</b>      |  |                       |               |                        |  |                 |                          |
| Fewer than 1,000 .....                      | 4.2                                    | 49.3                  | 47.8          | 296                    | 851                                    | 6.2             | 4.9                      |
| 1,000 to 1,999 .....                        | 7.5                                    | 66.0                  | 64.1          | 374                    | 1,584                                  | 5.8             | 4.4                      |
| 2,000 or More .....                         | 3.6                                    | 91.8                  | 88.9          | 521                    | 3,119                                  | 5.9             | 6.3                      |
| <b>Ownership of Unit</b>                    |  |                       |               |                        |  |                 |                          |
| Owned .....                                 | 10.6                                   | 73.6                  | 71.4          | 421                    | 2,053                                  | 5.9             | 5.2                      |
| Rented .....                                | 4.6                                    | 53.6                  | 51.9          | 309                    | 1,036                                  | 5.9             | 5.6                      |
| <b>Year of Construction</b>                 |  |                       |               |                        |  |                 |                          |
| 1949 or Before .....                        | 3.8                                    | 72.3                  | 69.9          | 426                    | 1,639                                  | 6.1             | 5.3                      |
| 1950 to 1979 .....                          | 10.0                                   | 65.9                  | 64.0          | 376                    | 1,704                                  | 5.9             | 5.3                      |
| 1980 or After <sup>2</sup> .....            | 1.5                                    | 65.8                  | 64.2          | 363                    | 2,301                                  | 5.7             | 16.9                     |
| <b>1990 Family Income</b>                   |  |                       |               |                        |  |                 |                          |
| Less than \$10,000 .....                    | 3.2                                    | 52.3                  | 50.6          | 304                    | 1,218                                  | 6.0             | 7.1                      |
| \$10,000 to \$19,999 .....                  | 2.8                                    | 60.6                  | 58.8          | 357                    | 1,395                                  | 6.1             | 6.0                      |
| \$20,000 to \$34,999 .....                  | 4.1                                    | 88.3                  | 86.1          | 377                    | 1,887                                  | 5.7             | 5.3                      |
| \$35,000 or More .....                      | 5.2                                    | 79.8                  | 77.6          | 462                    | 2,374                                  | 5.9             | 5.9                      |
| <b>Below Poverty Line</b>                   |  |                       |               |                        |  |                 |                          |
| 100 Percent .....                           | 2.8                                    | 53.4                  | 51.8          | 304                    | 1,181                                  | 5.9             | 6.4                      |
| 125 Percent .....                           | 3.6                                    | 54.1                  | 52.5          | 309                    | 1,236                                  | 5.9             | 6.3                      |
| <b>Age of Householder</b>                   |  |                       |               |                        |  |                 |                          |
| Under 35 Years .....                        | 3.9                                    | 62.4                  | 60.6          | 348                    | 1,471                                  | 5.7             | 6.3                      |
| 35 to 59 Years .....                        | 6.5                                    | 71.1                  | 69.0          | 408                    | 1,939                                  | 5.9             | 4.8                      |
| 60 Years and Over .....                     | 4.9                                    | 66.9                  | 64.7          | 391                    | 1,706                                  | 6.0             | 5.7                      |
| <b>Household Size</b>                       |  |                       |               |                        |  |                 |                          |
| 1 Person .....                              | 3.6                                    | 52.7                  | 51.1          | 318                    | 1,503                                  | 6.2             | 6.4                      |
| 2 to 4 Persons .....                        | 9.8                                    | 71.4                  | 69.3          | 406                    | 1,855                                  | 5.9             | 5.0                      |
| 5 or More Persons .....                     | 1.9                                    | 74.9                  | 72.8          | 418                    | 1,693                                  | 5.7             | 5.2                      |

See footnotes at end of table.

**SOUTH**

Table 60. Natural Gas Consumption and Expenditures in South Region Households, 1990 (Continued)

| Characteristics                             | Households Using Natural Gas (million) | Average per Household |               |                        |                          | Expenditures (dollars per thousand cf) | RSE Row Factors |
|---|--|-----------------------|---------------|------------------------|--------------------------|--|-----------------|
|   |  | Consumption           |               | Expenditures (dollars) | Floorspace (square feet) |  |                 |
|   |  | (million Btu)         | (thousand cf) |                        |                          |  |                 |
| RSE Column Factors:                         | 1.8                                    | 1.1                   | 1.1           | 1.0                    | 1.0                      | 0.5                                    |                 |
| <b>South Atlantic Division</b> .....        | 5.6                                    | 66.6                  | 64.5          | 453                    | 1,770                    | 7.0                                    | 6.6             |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |               |                        |                          |  |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                                     | NC                    | NC            | NC                     | NC                       | NC                                     | NC              |
| Under 5,500 HDD .....                       | 4.7                                    | 73.0                  | 70.7          | 486                    | 1,833                    | 6.9                                    | 6.0             |
| 2,000 CDD or More and Under 4,000 HDD ..... | .9                                     | 31.4                  | 30.1          | 271                    | 1,417                    | 9.0                                    | 25.6            |
| <b>Type of Housing Unit</b>                 |  |                       |               |                        |                          |  |                 |
| Single-Family .....                         | 4.3                                    | 74.2                  | 71.8          | 504                    | 2,043                    | 7.0                                    | 7.3             |
| Mobile Home .....                           | Q                                      | Q                     | Q             | Q                      | Q                        | Q                                      | NF              |
| Multifamily (2 or more units) ...           | 1.2                                    | 41.1                  | 39.9          | 278                    | 891                      | 7.0                                    | 8.9             |
| <b>Heated Floorspace (square feet)</b>      |  |                       |               |                        |                          |  |                 |
| Fewer than 1,000 .....                      | 1.7                                    | 45.4                  | 43.9          | 320                    | 851                      | 7.3                                    | 6.5             |
| 1,000 to 1,999 .....                        | 2.3                                    | 65.4                  | 63.2          | 439                    | 1,583                    | 6.9                                    | 7.9             |
| 2,000 or More .....                         | 1.6                                    | 92.1                  | 89.3          | 621                    | 3,071                    | 7.0                                    | 6.9             |
| <b>Ownership of Unit</b>                    |  |                       |               |                        |                          |  |                 |
| Owned .....                                 | 3.6                                    | 76.5                  | 74.1          | 521                    | 2,162                    | 7.0                                    | 6.5             |
| Rented .....                                | 2.0                                    | 48.5                  | 47.0          | 328                    | 1,053                    | 7.0                                    | 8.9             |
| <b>Year of Construction</b>                 |  |                       |               |                        |                          |  |                 |
| 1949 or Before .....                        | 1.6                                    | 76.0                  | 73.6          | 507                    | 1,905                    | 6.9                                    | 7.0             |
| 1950 to 1979 .....                          | 3.6                                    | 63.4                  | 61.3          | 434                    | 1,701                    | 7.1                                    | 8.6             |
| 1980 or After <sup>2</sup> .....            | .4                                     | 59.9                  | 58.5          | 413                    | 1,852                    | 7.1                                    | 19.2            |
| <b>1990 Family Income</b>                   |  |                       |               |                        |                          |  |                 |
| Less than \$10,000 .....                    | .8                                     | 50.9                  | 49.0          | 338                    | 1,326                    | 6.9                                    | 14.6            |
| \$10,000 to \$19,999 .....                  | 1.0                                    | 54.4                  | 52.7          | 388                    | 1,327                    | 7.4                                    | 10.7            |
| \$20,000 to \$34,999 .....                  | 1.5                                    | 66.1                  | 63.7          | 440                    | 1,459                    | 6.9                                    | 7.5             |
| \$35,000 or More .....                      | 2.3                                    | 77.7                  | 75.5          | 529                    | 2,310                    | 7.0                                    | 6.8             |
| <b>Below Poverty Line</b>                   |  |                       |               |                        |                          |  |                 |
| 100 Percent .....                           | .6                                     | 47.8                  | 46.4          | 304                    | 1,209                    | 6.6                                    | 13.3            |
| 125 Percent .....                           | .8                                     | 48.0                  | 46.5          | 316                    | 1,226                    | 6.8                                    | 11.3            |
| <b>Age of Householder</b>                   |  |                       |               |                        |                          |  |                 |
| Under 35 Years .....                        | 1.4                                    | 56.3                  | 54.3          | 379                    | 1,402                    | 7.0                                    | 8.4             |
| 35 to 59 Years .....                        | 2.6                                    | 71.0                  | 68.9          | 478                    | 2,011                    | 6.9                                    | 5.6             |
| 60 Years and Over .....                     | 1.6                                    | 69.1                  | 66.6          | 479                    | 1,716                    | 7.2                                    | 10.7            |
| <b>Household Size</b>                       |  |                       |               |                        |                          |  |                 |
| 1 Person .....                              | 1.4                                    | 50.2                  | 48.5          | 357                    | 1,489                    | 7.4                                    | 10.2            |
| 2 to 4 Persons .....                        | 3.6                                    | 71.5                  | 69.2          | 483                    | 1,885                    | 7.0                                    | 6.6             |
| 5 or More Persons .....                     | .6                                     | 75.7                  | 73.5          | 494                    | 1,746                    | 6.7                                    | 9.1             |

See footnotes at end of table.

ENERGY CONSUMPTION AND EXPENDITURES

Table 60. Natural Gas Consumption and Expenditures in South Region Households, 1990 (Continued)

| Characteristics                        | Households Using Natural Gas (million) | Average per Household     |                            | Expenditures (dollars per thousand cf) | RSE Row Factors |                          |      |
|--|--|---------------------------|----------------------------|--|-----------------|--------------------------|------|
|  |  | Consumption (million Btu) | Expenditures (thousand cf) |  |                 | Floorspace (square feet) |      |
| RSE Column Factors:                    | 1.8                                    | 1.1                       | 1.1                        | 1.0                                    | 1.0             | 0.5                      |      |
| East South Central Division ...        | 2.9                                    | 71.8                      | 69.3                       | 343                                    | 1,907           | 5.0                      | 11.0 |
| <b>Climate Zone<sup>1</sup></b>        |  |                           |                            |  |                 |                          |      |
| Under 2,000 CDD and Over 5,500 HDD     | NC                                     | NC                        | NC                         | NC                                     | NC              | NC                       | NC   |
| Under 5,500 HDD                        | 1.9                                    | 79.3                      | 76.6                       | 376                                    | 2,276           | 4.9                      | 14.5 |
| 2,000 CDD or More and Under 4,000 HDD  | Q                                      | 57.9                      | 55.8                       | 283                                    | 1,226           | 5.1                      | 41.7 |
| <b>Type of Housing Unit</b>            |  |                           |                            |  |                 |                          |      |
| Single-Family                          | 2.2                                    | 77.5                      | 74.8                       | 374                                    | 2,243           | 5.0                      | 11.3 |
| Mobile Home                            | Q                                      | Q                         | Q                          | Q                                      | Q               | Q                        | NF   |
| Multifamily (2 or more units)          | .6                                     | 52.9                      | 51.3                       | 239                                    | 782             | 4.7                      | 11.6 |
| <b>Heated Floorspace (square feet)</b> |  |                           |                            |  |                 |                          |      |
| Fewer than 1,000                       | .9                                     | 58.0                      | 56.1                       | 274                                    | 862             | 4.9                      | 10.0 |
| 1,000 to 1,999                         | 1.0                                    | 67.6                      | 65.2                       | 337                                    | 1,595           | 5.2                      | 7.9  |
| 2,000 or More                          | Q                                      | 89.6                      | 86.5                       | 417                                    | 3,255           | 4.8                      | 10.8 |
| <b>Ownership of Unit</b>               |  |                           |                            |  |                 |                          |      |
| Owned                                  | 2.0                                    | 77.2                      | 74.6                       | 368                                    | 2,323           | 4.9                      | 11.2 |
| Rented                                 | .9                                     | 59.4                      | 57.4                       | 287                                    | 967             | 5.0                      | 13.4 |
| <b>Year of Construction</b>            |  |                           |                            |  |                 |                          |      |
| 1949 or Before                         | .8                                     | 82.2                      | 78.7                       | 393                                    | 1,523           | 5.0                      | 12.9 |
| 1950 to 1979                           | 1.6                                    | 61.7                      | 59.6                       | 302                                    | 1,646           | 5.1                      | 10.3 |
| 1980 or After <sup>2</sup>             | Q                                      | 88.6                      | 86.4                       | 399                                    | 3,378           | 4.6                      | 22.3 |
| <b>1990 Family Income</b>              |  |                           |                            |  |                 |                          |      |
| Less than \$10,000                     | .6                                     | 64.3                      | 61.9                       | 309                                    | 1,129           | 5.0                      | 14.5 |
| \$10,000 to \$19,999                   | .6                                     | 58.8                      | 57.0                       | 284                                    | 1,321           | 5.0                      | 9.9  |
| \$20,000 to \$34,999                   | .7                                     | 67.6                      | 64.6                       | 318                                    | 1,678           | 4.9                      | 8.8  |
| \$35,000 or More                       | 1.0                                    | 85.9                      | 83.5                       | 411                                    | 2,831           | 4.9                      | 14.5 |
| <b>Below Poverty Line</b>              |  |                           |                            |  |                 |                          |      |
| 100 Percent                            | .4                                     | 70.1                      | 67.2                       | 340                                    | 1,175           | 5.1                      | 14.6 |
| 125 Percent                            | .6                                     | 68.0                      | 65.4                       | 327                                    | 1,165           | 5.0                      | 12.1 |
| <b>Age of Householder</b>              |  |                           |                            |  |                 |                          |      |
| Under 35 Years                         | .7                                     | 71.7                      | 69.5                       | 343                                    | 1,705           | 4.9                      | 13.6 |
| 35 to 59 Years                         | 1.3                                    | 74.9                      | 72.3                       | 362                                    | 2,273           | 5.0                      | 12.3 |
| 60 Years and Over                      | .8                                     | 67.0                      | 64.4                       | 314                                    | 1,516           | 4.9                      | 8.5  |
| <b>Household Size</b>                  |  |                           |                            |  |                 |                          |      |
| 1 Person                               | .8                                     | 58.2                      | 56.3                       | 275                                    | 1,450           | 4.9                      | 10.7 |
| 2 to 4 Persons                         | 1.8                                    | 75.2                      | 72.5                       | 364                                    | 2,123           | 5.0                      | 11.3 |
| 5 or More Persons                      | .3                                     | 87.8                      | 85.2                       | 403                                    | 1,802           | 4.7                      | 12.8 |

See footnotes at end of table.

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Table 60. Natural Gas Consumption and Expenditures in South Region Households, 1990 (Continued)

| Characteristics                             | Households Using Natural Gas (million) | Average per Household |               |                        |                          | Expenditures (dollars per thousand cf) | RSE Row Factors |
|---|--|-----------------------|---------------|------------------------|--------------------------|--|-----------------|
|   |  | Consumption           |               | Expenditures (dollars) | Floorspace (square feet) |  |                 |
|   |  | (million Btu)         | (thousand cf) |                        |                          |  |                 |
| RSE Column Factors:                         | 1.8                                    | 1.1                   | 1.1           | 1.0                    | 1.0                      | 0.5                                    |                 |
| <b>West South Central Division ..</b>       | 6.7                                    | 66.4                  | 64.7          | 352                    | 1,654                    | 5.4                                    | 5.6             |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |               |                        |                          |  |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                                     | NC                    | NC            | NC                     | NC                       | NC                                     | NC              |
| Under 5,500 HDD .....                       | Q                                      | 101.9                 | 101.3         | 395                    | 1,658                    | 3.9                                    | 10.4            |
| 2,000 CDD or More and Under 4,000 HDD ..... | 5.8                                    | 60.5                  | 58.6          | 344                    | 1,653                    | 5.9                                    | 6.8             |
| <b>Type of Housing Unit</b>                 |  |                       |               |                        |                          |  |                 |
| Single-Family .....                         | 5.9                                    | 69.7                  | 67.9          | 370                    | 1,767                    | 5.4                                    | 6.0             |
| Mobile Home .....                           | Q                                      | Q                     | Q             | Q                      | Q                        | Q                                      | NF              |
| Multifamily (2 or more units) ...           | .7                                     | 42.6                  | 41.4          | 221                    | 910                      | 5.3                                    | 16.1            |
| <b>Heated Floorspace (square feet)</b>      |  |                       |               |                        |                          |  |                 |
| Fewer than 1,000 .....                      | 1.5                                    | 48.4                  | 47.3          | 281                    | 844                      | 6.0                                    | 6.5             |
| 1,000 to 1,999 .....                        | 4.2                                    | 66.0                  | 64.3          | 347                    | 1,583                    | 5.4                                    | 5.7             |
| 2,000 or More .....                         | 1.1                                    | 93.1                  | 90.7          | 468                    | 3,069                    | 5.2                                    | 10.1            |
| <b>Ownership of Unit</b>                    |  |                       |               |                        |                          |  |                 |
| Owned .....                                 | 5.0                                    | 70.0                  | 68.1          | 370                    | 1,866                    | 5.4                                    | 6.9             |
| Rented .....                                | 1.8                                    | 56.3                  | 54.8          | 298                    | 1,051                    | 5.4                                    | 7.4             |
| <b>Year of Construction</b>                 |  |                       |               |                        |                          |  |                 |
| 1949 or Before .....                        | 1.5                                    | 63.2                  | 61.1          | 359                    | 1,418                    | 5.9                                    | 7.6             |
| 1950 to 1979 .....                          | 4.8                                    | 69.3                  | 67.6          | 357                    | 1,726                    | 5.3                                    | 6.4             |
| 1980 or After <sup>2</sup> .....            | .5                                     | 49.1                  | 48.0          | 286                    | 1,658                    | 6.0                                    | 15.5            |
| <b>1990 Family Income</b>                   |  |                       |               |                        |                          |  |                 |
| Less than \$10,000 .....                    | 1.8                                    | 48.9                  | 47.5          | 287                    | 1,200                    | 6.0                                    | 7.4             |
| \$10,000 to \$19,999 .....                  | 1.2                                    | 66.8                  | 64.9          | 364                    | 1,486                    | 5.6                                    | 7.1             |
| \$20,000 to \$34,999 .....                  | 1.9                                    | 70.2                  | 68.6          | 350                    | 1,651                    | 5.1                                    | 8.1             |
| \$35,000 or More .....                      | 1.9                                    | 79.1                  | 77.0          | 407                    | 2,201                    | 5.3                                    | 9.4             |
| <b>Below Poverty Line</b>                   |  |                       |               |                        |                          |  |                 |
| 100 Percent .....                           | 1.8                                    | 51.1                  | 49.7          | 296                    | 1,173                    | 6.0                                    | 7.3             |
| 125 Percent .....                           | 2.2                                    | 52.7                  | 51.2          | 301                    | 1,260                    | 5.9                                    | 7.4             |
| <b>Age of Householder</b>                   |  |                       |               |                        |                          |  |                 |
| Under 35 Years .....                        | 1.7                                    | 63.6                  | 62.1          | 323                    | 1,429                    | 5.2                                    | 7.2             |
| 35 to 59 Years .....                        | 2.6                                    | 69.2                  | 67.4          | 363                    | 1,699                    | 5.4                                    | 6.2             |
| 60 Years and Over .....                     | 2.4                                    | 65.4                  | 63.5          | 359                    | 1,766                    | 5.7                                    | 6.5             |
| <b>Household Size</b>                       |  |                       |               |                        |                          |  |                 |
| 1 Person .....                              | 1.4                                    | 52.1                  | 50.7          | 302                    | 1,549                    | 6.0                                    | 8.2             |
| 2 to 4 Persons .....                        | 4.4                                    | 69.8                  | 68.0          | 361                    | 1,719                    | 5.3                                    | 6.5             |
| 5 or More Persons .....                     | 1.0                                    | 70.9                  | 69.0          | 377                    | 1,516                    | 5.5                                    | 5.8             |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

ENERGY CONSUMPTION AND EXPENDITURES

Table 61. Fuel Oil Consumption and Expenditures in South Region Households, 1990

| Characteristics                             | Households Using Fuel Oil (million) | Average per Household     |           |                        | Expenditures (dollars per gallon) | RSE Row Factors |
|---|-------------------------------------|---------------------------|-----------|------------------------|-----------------------------------|-----------------|
|   |                                     | Consumption (million Btu) | (gallons) | Expenditures (dollars) |                                   |                 |
| RSE Column Factors:                         | 1.9                                 | 1.5                       | 1.5       | 1.6                    | 0.9                               | 0.2             |
| South Region                                |                                     |                           |           |                        |                                   |                 |
| <b>Total Region</b> .....                   | 1.7                                 | 45.0                      | 327       | 362                    | 1,703                             | 1.11            |
| South Atlantic Division .....               | 1.6                                 | 45.8                      | 333       | 369                    | 1,673                             | 1.11            |
| East South Central Division .....           | Q                                   | Q                         | Q         | Q                      | Q                                 | Q               |
| West South Central Division .....           | NC                                  | NC                        | NC        | NC                     | NC                                | NC              |
| <b>Climate Zone<sup>1</sup></b>             |                                     |                           |           |                        |                                   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                                  | NC                        | NC        | NC                     | NC                                | NC              |
| Under 5,500 HDD .....                       | 1.7                                 | 47.1                      | 343       | 378                    | 1,710                             | 1.10            |
| 2,000 CDD or More and Under 4,000 HDD ..... | Q                                   | Q                         | Q         | Q                      | Q                                 | Q               |
| <b>Type of Housing Unit</b>                 |                                     |                           |           |                        |                                   |                 |
| Single-Family .....                         | 1.5                                 | 46.0                      | 334       | 371                    | 1,876                             | 1.11            |
| Mobile Home .....                           | Q                                   | Q                         | Q         | Q                      | Q                                 | Q               |
| Multifamily (2 or more units) .....         | Q                                   | Q                         | Q         | Q                      | Q                                 | Q               |
| <b>Heated Floorspace (square feet)</b>      |                                     |                           |           |                        |                                   |                 |
| Fewer than 1,000 .....                      | 5                                   | 35.7                      | 263       | 285                    | 771                               | 1.08            |
| 1,000 to 1,999 .....                        | .7                                  | 40.8                      | 297       | 335                    | 1,486                             | 1.13            |
| 2,000 or More .....                         | .5                                  | 59.0                      | 426       | 467                    | 2,840                             | 1.09            |
| <b>Ownership of Unit</b>                    |                                     |                           |           |                        |                                   |                 |
| Owned .....                                 | 1.4                                 | 41.6                      | 302       | 338                    | 1,888                             | 1.12            |
| Rented .....                                | .4                                  | 58.0                      | 424       | 453                    | 1,008                             | 1.07            |
| <b>Year of Construction</b>                 |                                     |                           |           |                        |                                   |                 |
| 1949 or Before .....                        | .6                                  | 60.0                      | 437       | 478                    | 1,946                             | 1.09            |
| 1950 to 1979 .....                          | 1.1                                 | 37.0                      | 269       | 300                    | 1,594                             | 1.12            |
| 1980 or After <sup>2</sup> .....            | Q                                   | Q                         | Q         | Q                      | Q                                 | Q               |
| <b>1990 Family Income</b>                   |                                     |                           |           |                        |                                   |                 |
| Less than \$10,000 .....                    | .4                                  | 34.7                      | 252       | 285                    | 1,376                             | 1.13            |
| \$10,000 to \$19,999 .....                  | .5                                  | 45.6                      | 334       | 370                    | 1,351                             | 1.11            |
| \$20,000 to \$34,999 .....                  | .4                                  | 45.1                      | 329       | 365                    | 1,660                             | 1.11            |
| \$35,000 or More .....                      | .5                                  | 53.3                      | 385       | 418                    | 2,440                             | 1.08            |
| <b>Below Poverty Line</b>                   |                                     |                           |           |                        |                                   |                 |
| 100 Percent .....                           | .3                                  | 33.9                      | 247       | 281                    | 1,355                             | 1.14            |
| 125 Percent .....                           | .4                                  | 30.9                      | 225       | 255                    | 1,310                             | 1.13            |
| <b>Age of Householder</b>                   |                                     |                           |           |                        |                                   |                 |
| Under 35 Years .....                        | Q                                   | 46.1                      | 339       | 376                    | Q                                 | 1.11            |
| 35 to 59 Years .....                        | .8                                  | 45.2                      | 329       | 359                    | 1,764                             | 1.09            |
| 60 Years and Over .....                     | .7                                  | 44.3                      | 321       | 360                    | 1,738                             | 1.12            |
| <b>Household Size</b>                       |                                     |                           |           |                        |                                   |                 |
| 1 Person .....                              | .3                                  | 37.7                      | 275       | 291                    | 1,280                             | 1.06            |
| 2 to 4 Persons .....                        | 1.3                                 | 46.3                      | 337       | 376                    | 1,811                             | 1.12            |
| 5 or More Persons .....                     | Q                                   | Q                         | Q         | Q                      | Q                                 | Q               |

See footnotes at end of table.

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Table 61. Fuel Oil Consumption and Expenditures in South Region Households, 1990 (Continued)

| Characteristics                             | Households Using Fuel Oil (million) | Average per Household |           |                        |                          | Expenditures (dollars per gallon) | RSE Row Factors |
|---|-------------------------------------|-----------------------|-----------|------------------------|--------------------------|-----------------------------------|-----------------|
|   |                                     | Consumption           |           | Expenditures (dollars) | Floorspace (square feet) |                                   |                 |
|   |                                     | (million Btu)         | (gallons) |                        |                          |                                   |                 |
| RSE Column Factors:                         | 1.9                                 | 1.5                   | 1.5       | 1.6                    | 0.9                      | 0.2                               |                 |
| <b>South Atlantic Division</b> .....        | 1.6                                 | 45.8                  | 333       | 369                    | 1,673                    | 1.11                              | 9.3             |
| <b>Climate Zone<sup>1</sup></b>             |                                     |                       |           |                        |                          |                                   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                                  | NC                    | NC        | NC                     | NC                       | NC                                | NC              |
| Under 5,500 HDD .....                       | 1.5                                 | 48.1                  | 350       | 388                    | 1,678                    | 1.11                              | 9.4             |
| 2,000 CDD or More and Under 4,000 HDD ..... | Q                                   | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| <b>Type of Housing Unit</b>                 |                                     |                       |           |                        |                          |                                   |                 |
| Single-Family .....                         | 1.4                                 | 46.9                  | 340       | 380                    | 1,850                    | 1.12                              | 9.3             |
| Mobile Home .....                           | Q                                   | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| Multifamily (2 or more units) ...           | Q                                   | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| <b>Heated Floorspace (square feet)</b>      |                                     |                       |           |                        |                          |                                   |                 |
| Fewer than 1,000 .....                      | .5                                  | 33.8                  | 249       | 269                    | 766                      | 1.08                              | 13.9            |
| 1,000 to 1,999 .....                        | .7                                  | 41.2                  | 299       | 339                    | 1,476                    | 1.13                              | 10.6            |
| 2,000 or More .....                         | .4                                  | 65.5                  | 473       | 521                    | 2,927                    | 1.10                              | 14.0            |
| <b>Ownership of Unit</b>                    |                                     |                       |           |                        |                          |                                   |                 |
| Owned .....                                 | 1.2                                 | 42.0                  | 305       | 343                    | 1,861                    | 1.13                              | 10.3            |
| Rented .....                                | .4                                  | 58.9                  | 431       | 460                    | 1,018                    | 1.07                              | 24.6            |
| <b>Year of Construction</b>                 |                                     |                       |           |                        |                          |                                   |                 |
| 1949 or Before .....                        | .5                                  | 60.3                  | 438       | 481                    | 1,959                    | 1.10                              | 15.6            |
| 1950 to 1979 .....                          | 1.0                                 | 37.9                  | 276       | 309                    | 1,540                    | 1.12                              | 10.9            |
| 1980 or After <sup>2</sup> .....            | Q                                   | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| <b>1990 Family Income</b>                   |                                     |                       |           |                        |                          |                                   |                 |
| Less than \$10,000 .....                    | .3                                  | 38.9                  | 282       | 320                    | 1,139                    | 1.14                              | 10.2            |
| \$10,000 to \$19,999 .....                  | .5                                  | 44.5                  | 325       | 362                    | 1,360                    | 1.11                              | 11.0            |
| \$20,000 to \$34,999 .....                  | .4                                  | 45.1                  | 329       | 365                    | 1,660                    | 1.11                              | 15.2            |
| \$35,000 or More .....                      | .4                                  | 52.4                  | 379       | 413                    | 2,391                    | 1.09                              | 17.7            |
| <b>Below Poverty Line</b>                   |                                     |                       |           |                        |                          |                                   |                 |
| 100 Percent .....                           | Q                                   | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| 125 Percent .....                           | .3                                  | 33.1                  | 242       | 276                    | 1,049                    | 1.14                              | 19.4            |
| <b>Age of Householder</b>                   |                                     |                       |           |                        |                          |                                   |                 |
| Under 35 Years .....                        | Q                                   | 46.9                  | 345       | 383                    | Q                        | 1.11                              | 23.3            |
| 35 to 59 Years .....                        | .8                                  | 45.8                  | 333       | 365                    | 1,713                    | 1.09                              | 13.0            |
| 60 Years and Over .....                     | .6                                  | 45.2                  | 328       | 369                    | 1,714                    | 1.13                              | 9.0             |
| <b>Household Size</b>                       |                                     |                       |           |                        |                          |                                   |                 |
| 1 Person .....                              | .3                                  | 34.6                  | 253       | 267                    | 1,299                    | 1.06                              | 20.3            |
| 2 to 4 Persons .....                        | 1.2                                 | 48.2                  | 350       | 392                    | 1,777                    | 1.12                              | 13.0            |
| 5 or More Persons .....                     | Q                                   | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the East South Central and West South Central Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

ENERGY CONSUMPTION AND EXPENDITURES

Table 62. Kerosene Consumption and Expenditures in South Region Households, 1990

| Characteristics                        | Households Using Kerosene (million) | Average per Household |           |                        |                                   | RSE Row Factors |      |
|--|-------------------------------------|-----------------------|-----------|------------------------|-----------------------------------|-----------------|------|
|  |                                     | Consumption           |           | Expenditures (dollars) | Expenditures (dollars per gallon) |                 |      |
|  |                                     | (million Btu)         | (gallons) |                        |                                   |                 |      |
| RSE Column Factors:                    | 1.3                                 | 1.8                   | 1.8       | 1.8                    | 0.5                               | 0.2             |      |
| South Region                           |                                     |                       |           |                        |                                   |                 |      |
| <b>Total Region</b>                    | 2.5                                 | 13.7                  | 101       | 127                    | 1,384                             | 1.25            | 9.0  |
| South Atlantic Division                | 1.8                                 | 14.3                  | 106       | 134                    | 1,396                             | 1.27            | 9.8  |
| East South Central Division            | .6                                  | 13.6                  | 101       | 121                    | 1,347                             | 1.20            | 20.7 |
| West South Central Division            | Q                                   | Q                     | Q         | Q                      | Q                                 | Q               | NF   |
| <b>Climate Zone<sup>1</sup></b>        |                                     |                       |           |                        |                                   |                 |      |
| Under 2,000 CDD and Over 5,500 HDD     | Q                                   | NC                    | NC        | NC                     | Q                                 | NC              | NF   |
| Under 5,500 HDD                        | 2.3                                 | 13.2                  | 97        | 121                    | 1,411                             | 1.24            | 8.8  |
| 2,000 CDD or More and Under 4,000 HDD  | Q                                   | Q                     | Q         | Q                      | Q                                 | Q               | NF   |
| <b>Type of Housing Unit</b>            |                                     |                       |           |                        |                                   |                 |      |
| Single-Family                          | 2.0                                 | 12.8                  | 95        | 118                    | 1,493                             | 1.24            | 8.6  |
| Mobile Home                            | .5                                  | 19.0                  | 141       | 182                    | 833                               | 1.29            | 20.1 |
| Multifamily (2 or more units)          | Q                                   | Q                     | Q         | Q                      | Q                                 | Q               | NF   |
| <b>Heated Floorspace (square feet)</b> |                                     |                       |           |                        |                                   |                 |      |
| Fewer than 1,000                       | 1.0                                 | 21.0                  | 156       | 204                    | 874                               | 1.31            | 12.7 |
| 1,000 to 1,999                         | 1.1                                 | 9.7                   | 72        | 83                     | 1,448                             | 1.15            | 13.3 |
| 2,000 or More                          | .3                                  | Q                     | Q         | Q                      | 2,785                             | 1.18            | 12.4 |
| <b>Ownership of Unit</b>               |                                     |                       |           |                        |                                   |                 |      |
| Owned                                  | 1.8                                 | 11.8                  | 88        | 107                    | 1,516                             | 1.22            | 10.2 |
| Rented                                 | .7                                  | 18.9                  | 140       | 184                    | 1,012                             | 1.32            | 14.7 |
| <b>Year of Construction</b>            |                                     |                       |           |                        |                                   |                 |      |
| 1949 or Before                         | .7                                  | 21.1                  | 156       | 201                    | 1,279                             | 1.28            | 14.4 |
| 1950 to 1979                           | 1.4                                 | 11.9                  | 88        | 110                    | 1,436                             | 1.25            | 14.2 |
| 1980 or After <sup>2</sup>             | .4                                  | Q                     | Q         | Q                      | 1,389                             | 1.14            | 18.1 |
| <b>1990 Family Income</b>              |                                     |                       |           |                        |                                   |                 |      |
| Less than \$10,000                     | .6                                  | 12.6                  | 93        | 127                    | 996                               | 1.37            | 23.7 |
| \$10,000 to \$19,999                   | .6                                  | 17.3                  | 128       | 156                    | 1,120                             | 1.22            | 12.5 |
| \$20,000 to \$34,999                   | .8                                  | 15.7                  | 117       | 145                    | 1,339                             | 1.25            | 15.2 |
| \$35,000 or More                       | .5                                  | 7.8                   | 58        | 67                     | 2,167                             | 1.16            | 16.5 |
| <b>Below Poverty Line</b>              |                                     |                       |           |                        |                                   |                 |      |
| 100 Percent                            | .5                                  | 15.6                  | 115       | 152                    | 1,021                             | 1.32            | 17.3 |
| 125 Percent                            | .7                                  | 15.6                  | 116       | 151                    | 1,050                             | 1.31            | 20.7 |
| <b>Age of Householder</b>              |                                     |                       |           |                        |                                   |                 |      |
| Under 35 Years                         | .9                                  | 10.8                  | 80        | 103                    | 1,074                             | 1.29            | 14.2 |
| 35 to 59 Years                         | 1.1                                 | 17.6                  | 131       | 164                    | 1,630                             | 1.25            | 12.9 |
| 60 Years and Over                      | .5                                  | 9.4                   | 70        | 84                     | 1,352                             | 1.20            | 15.8 |
| <b>Household Size</b>                  |                                     |                       |           |                        |                                   |                 |      |
| 1 Person                               | .5                                  | 10.3                  | 76        | 106                    | 1,178                             | 1.39            | 21.7 |
| 2 to 4 Persons                         | 1.6                                 | 13.3                  | 98        | 119                    | 1,427                             | 1.21            | 9.5  |
| 5 or More Persons                      | .4                                  | 19.7                  | 146       | 189                    | 1,471                             | 1.30            | 19.2 |

See footnotes at end of table.

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Table 62. Kerosene Consumption and Expenditures in South Region Households, 1990 (Continued)

| Characteristics                             | Households Using Kerosene (million) | Average per Household |           |                        |                          | Expenditures (dollars per gallon) | RSE Row Factors |
|---|-------------------------------------|-----------------------|-----------|------------------------|--------------------------|-----------------------------------|-----------------|
|   |                                     | Consumption           |           | Expenditures (dollars) | Floorspace (square feet) |                                   |                 |
|   |                                     | (million Btu)         | (gallons) |                        |                          |                                   |                 |
| RSE Column Factors:                         | 1.3                                 | 1.8                   | 1.8       | 1.8                    | 0.5                      | 0.2                               |                 |
| <b>South Atlantic Division</b> .....        | 1.8                                 | 14.3                  | 106       | 134                    | 1,396                    | 1.27                              | 9.8             |
| <b>Climate Zone<sup>1</sup></b>             |                                     |                       |           |                        |                          |                                   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q                                   | NC                    | NC        | NC                     | Q                        | NC                                | NF              |
| Under 5,500 HDD .....                       | 1.7                                 | 13.1                  | 97        | 122                    | 1,425                    | 1.25                              | 9.5             |
| 2,000 CDD or More and Under 4,000 HDD ..... | Q                                   | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| <b>Type of Housing Unit</b>                 |                                     |                       |           |                        |                          |                                   |                 |
| Single-Family .....                         | 1.5                                 | 14.1                  | 104       | 131                    | 1,504                    | 1.26                              | 8.8             |
| Mobile Home .....                           | .3                                  | 17.9                  | 132       | 175                    | 730                      | 1.33                              | 25.7            |
| Multifamily (2 or more units) ...           | Q                                   | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| <b>Heated Floorspace (square feet)</b>      |                                     |                       |           |                        |                          |                                   |                 |
| Fewer than 1,000 .....                      | .8                                  | 21.3                  | 158       | 209                    | 889                      | 1.32                              | 16.2            |
| 1,000 to 1,999 .....                        | .8                                  | 10.6                  | 79        | 92                     | 1,418                    | 1.17                              | 14.9            |
| 2,000 or More .....                         | .3                                  | Q                     | Q         | Q                      | 2,764                    | 1.20                              | 12.9            |
| <b>Ownership of Unit</b>                    |                                     |                       |           |                        |                          |                                   |                 |
| Owned .....                                 | 1.3                                 | 12.0                  | 89        | 109                    | 1,575                    | 1.23                              | 10.8            |
| Rented .....                                | .6                                  | 19.4                  | 144       | 192                    | 990                      | 1.33                              | 15.5            |
| <b>Year of Construction</b>                 |                                     |                       |           |                        |                          |                                   |                 |
| 1949 or Before .....                        | .5                                  | 23.2                  | 172       | 227                    | 1,206                    | 1.32                              | 16.2            |
| 1950 to 1979 .....                          | 1.0                                 | 12.2                  | 90        | 112                    | 1,491                    | 1.24                              | 17.6            |
| 1980 or After <sup>2</sup> .....            | .3                                  | Q                     | Q         | Q                      | 1,397                    | 1.17                              | 18.9            |
| <b>1990 Family Income</b>                   |                                     |                       |           |                        |                          |                                   |                 |
| Less than \$10,000 .....                    | .5                                  | Q                     | Q         | Q                      | 991                      | 1.39                              | 27.0            |
| \$10,000 to \$19,999 .....                  | .4                                  | 19.2                  | 143       | 174                    | 1,138                    | 1.22                              | 13.9            |
| \$20,000 to \$34,999 .....                  | .5                                  | 15.1                  | 112       | 145                    | 1,288                    | 1.29                              | 19.3            |
| \$35,000 or More .....                      | .4                                  | 8.6                   | 64        | 72                     | 2,246                    | 1.13                              | 17.1            |
| <b>Below Poverty Line</b>                   |                                     |                       |           |                        |                          |                                   |                 |
| 100 Percent .....                           | .4                                  | 17.4                  | 129       | 170                    | 1,021                    | 1.33                              | 19.8            |
| 125 Percent .....                           | .5                                  | 18.1                  | 134       | 176                    | 1,060                    | 1.32                              | 24.2            |
| <b>Age of Householder</b>                   |                                     |                       |           |                        |                          |                                   |                 |
| Under 35 Years .....                        | .5                                  | 12.0                  | 89        | 116                    | 993                      | 1.31                              | 18.3            |
| 35 to 59 Years .....                        | .9                                  | 18.5                  | 137       | 172                    | 1,695                    | 1.26                              | 14.0            |
| 60 Years and Over .....                     | .4                                  | 7.4                   | 55        | 68                     | 1,235                    | 1.24                              | 17.2            |
| <b>Household Size</b>                       |                                     |                       |           |                        |                          |                                   |                 |
| 1 Person .....                              | .4                                  | 9.9                   | 74        | 104                    | 1,275                    | 1.41                              | 24.6            |
| 2 to 4 Persons .....                        | 1.2                                 | 13.4                  | 99        | 121                    | 1,416                    | 1.22                              | 9.6             |
| 5 or More Persons .....                     | .2                                  | 25.6                  | 190       | 249                    | 1,485                    | 1.31                              | 22.3            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the East South Central and West South Central Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

ENERGY CONSUMPTION AND EXPENDITURES

Table 63. Liquefied Petroleum Gas Consumption and Expenditures in South Region Households, 1990

| Characteristics                             | Households Using LPG (million) | Average per Household |           |                        |                                   | RSE Row Factors |      |
|---|--------------------------------|-----------------------|-----------|------------------------|-----------------------------------|-----------------|------|
|   |                                | Consumption           |           | Expenditures (dollars) | Expenditures (dollars per gallon) |                 |      |
|   |                                | (million Btu)         | (gallons) |                        |                                   |                 |      |
| RSE Column Factors:                         | 2.1                            | 1.2                   | 1.2       | 1.2                    | 0.6                               | 0.5             |      |
| South Region                                |                                |                       |           |                        |                                   |                 |      |
| <b>Total Region</b> .....                   | 3.5                            | 28.0                  | 306       | 341                    | 1,451                             | 1.11            | 7.8  |
| South Atlantic Division .....               | 2.0                            | 24.9                  | 273       | 331                    | 1,439                             | 1.21            | 12.3 |
| East South Central Division .....           | .9                             | 33.0                  | 361       | 395                    | 1,399                             | 1.09            | 10.4 |
| West South Central Division .....           | .7                             | 30.6                  | 335       | 303                    | 1,552                             | .91             | 23.5 |
| <b>Climate Zone<sup>1</sup></b>             |                                |                       |           |                        |                                   |                 |      |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                             | NC                    | NC        | NC                     | NC                                | NC              | NC   |
| Under 5,500 HDD and 2,000 CDD or More ..... | 2.3                            | 31.6                  | 346       | 385                    | 1,441                             | 1.11            | 10.2 |
| Under 4,000 HDD .....                       | 1.2                            | 21.4                  | 234       | 260                    | 1,469                             | 1.11            | 13.3 |
| <b>Type of Housing Unit</b>                 |                                |                       |           |                        |                                   |                 |      |
| Single-Family .....                         | 2.5                            | 30.2                  | 331       | 360                    | 1,647                             | 1.09            | 8.6  |
| Mobile Home .....                           | .9                             | 21.8                  | 238       | 284                    | 899                               | 1.19            | 11.7 |
| Multifamily (2 or more units) .....         | Q                              | Q                     | Q         | Q                      | Q                                 | Q               | NF   |
| <b>Heated Floorspace (square feet)</b>      |                                |                       |           |                        |                                   |                 |      |
| Fewer than 1,000 .....                      | 1.5                            | 21.6                  | 237       | 278                    | 853                               | 1.18            | 8.6  |
| 1,000 to 1,999 .....                        | 1.5                            | 32.5                  | 356       | 392                    | 1,418                             | 1.10            | 8.6  |
| 2,000 or More .....                         | .5                             | 32.4                  | 355       | 367                    | 3,226                             | 1.03            | 16.5 |
| <b>Ownership of Unit</b>                    |                                |                       |           |                        |                                   |                 |      |
| Owned .....                                 | 2.7                            | 29.9                  | 327       | 363                    | 1,589                             | 1.11            | 8.2  |
| Rented .....                                | .8                             | 21.2                  | 232       | 263                    | 953                               | 1.13            | 15.1 |
| <b>Year of Construction</b>                 |                                |                       |           |                        |                                   |                 |      |
| 1949 or Before .....                        | .8                             | 35.5                  | 388       | 459                    | 1,283                             | 1.18            | 12.2 |
| 1950 to 1979 .....                          | 1.8                            | 24.1                  | 264       | 299                    | 1,451                             | 1.14            | 11.1 |
| 1980 or After <sup>2</sup> .....            | .9                             | 29.2                  | 320       | 319                    | 1,606                             | 1.00            | 15.4 |
| <b>1990 Family Income</b>                   |                                |                       |           |                        |                                   |                 |      |
| Less than \$10,000 .....                    | 1.2                            | 25.6                  | 280       | 322                    | 1,084                             | 1.15            | 10.4 |
| \$10,000 to \$19,999 .....                  | .9                             | 31.8                  | 348       | 384                    | 1,338                             | 1.10            | 9.9  |
| \$20,000 to \$34,999 .....                  | .6                             | 24.0                  | 263       | 280                    | 1,552                             | 1.10            | 17.9 |
| \$35,000 or More .....                      | .8                             | 30.2                  | 331       | 359                    | 2,063                             | 1.09            | 17.5 |
| <b>Below Poverty Line</b>                   |                                |                       |           |                        |                                   |                 |      |
| 100 Percent .....                           | 1.1                            | 27.3                  | 299       | 329                    | 1,026                             | 1.10            | 9.1  |
| 125 Percent .....                           | 1.4                            | 26.5                  | 290       | 324                    | 1,094                             | 1.12            | 9.0  |
| <b>Age of Householder</b>                   |                                |                       |           |                        |                                   |                 |      |
| Under 35 Years .....                        | .9                             | 24.9                  | 272       | 303                    | 1,180                             | 1.11            | 10.7 |
| 35 to 59 Years .....                        | 1.3                            | 28.8                  | 315       | 340                    | 1,581                             | 1.08            | 12.8 |
| 60 Years and Over .....                     | 1.2                            | 29.4                  | 322       | 370                    | 1,510                             | 1.15            | 11.8 |
| <b>Household Size</b>                       |                                |                       |           |                        |                                   |                 |      |
| 1 Person .....                              | .8                             | 24.2                  | 265       | 294                    | 1,027                             | 1.11            | 12.1 |
| 2 to 4 Persons .....                        | 2.2                            | 28.8                  | 316       | 352                    | 1,667                             | 1.11            | 9.7  |
| 5 or More Persons .....                     | .5                             | 30.5                  | 334       | 371                    | 1,232                             | 1.11            | 15.8 |

See footnotes at end of table.

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Table 63. Liquefied Petroleum Gas Consumption and Expenditures in South Region Households, 1990 (Continued)

| Characteristics                             | Households Using LPG (million) | Average per Household |           |                        |                          | Expenditures (dollars per gallon) | RSE Row Factors |
|---|--------------------------------|-----------------------|-----------|------------------------|--------------------------|-----------------------------------|-----------------|
|   |                                | Consumption           |           | Expenditures (dollars) | Floorspace (square feet) |                                   |                 |
|   |                                | (million Btu)         | (gallons) |                        |                          |                                   |                 |
| RSE Column Factors:                         | 2.1                            | 1.2                   | 1.2       | 1.2                    | 0.6                      | 0.5                               |                 |
| <b>South Atlantic Division</b> .....        | 2.0                            | 24.9                  | 273       | 331                    | 1,439                    | 1.21                              | 12.3            |
| <b>Climate Zone<sup>1</sup></b>             |                                |                       |           |                        |                          |                                   |                 |
| Under 2,000 HDD and Over 5,500 HDD .....    | NC                             | NC                    | NC        | NC                     | NC                       | NC                                | NC              |
| Under 5,500 HDD .....                       | 1.1                            | 28.6                  | 313       | 385                    | 1,418                    | 1.23                              | 18.4            |
| 2,000 HDD or More and Under 4,000 HDD ..... | .8                             | 19.7                  | 216       | 254                    | 1,470                    | 1.18                              | 15.8            |
| <b>Type of Housing Unit</b>                 |                                |                       |           |                        |                          |                                   |                 |
| Single-Family .....                         | 1.2                            | 26.6                  | 291       | 346                    | 1,720                    | 1.19                              | 14.9            |
| Mobile Home .....                           | .6                             | 21.9                  | 240       | 299                    | 937                      | 1.25                              | 16.3            |
| Multifamily (2 or more units) ...           | Q                              | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| <b>Heated Floorspace (square feet)</b>      |                                |                       |           |                        |                          |                                   |                 |
| Fewer than 1,000 .....                      | .9                             | 17.7                  | 193       | 246                    | 831                      | 1.27                              | 15.1            |
| 1,000 to 1,999 .....                        | .8                             | 31.4                  | 344       | 410                    | 1,387                    | 1.19                              | 13.6            |
| 2,000 or More .....                         | .3                             | 30.4                  | 332       | 385                    | 3,480                    | 1.16                              | 27.1            |
| <b>Ownership of Unit</b>                    |                                |                       |           |                        |                          |                                   |                 |
| Owned .....                                 | 1.4                            | 27.1                  | 297       | 360                    | 1,634                    | 1.21                              | 12.2            |
| Rented .....                                | .5                             | 19.2                  | 210       | 252                    | 924                      | 1.20                              | 22.5            |
| <b>Year of Construction</b>                 |                                |                       |           |                        |                          |                                   |                 |
| 1949 or Before .....                        | .6                             | 32.5                  | 356       | 436                    | 1,285                    | 1.22                              | 17.0            |
| 1950 to 1979 .....                          | 1.0                            | 20.2                  | 221       | 270                    | 1,555                    | 1.22                              | 22.1            |
| 1980 or After <sup>2</sup> .....            | .4                             | 26.7                  | 292       | 342                    | 1,353                    | 1.17                              | 20.5            |
| <b>1990 Family Income</b>                   |                                |                       |           |                        |                          |                                   |                 |
| Less than \$10,000 .....                    | .7                             | 22.7                  | 248       | 316                    | 1,083                    | 1.27                              | 17.2            |
| \$10,000 to \$19,999 .....                  | .4                             | 30.6                  | 335       | 403                    | 1,140                    | 1.20                              | 13.0            |
| \$20,000 to \$34,999 .....                  | .4                             | 19.8                  | 217       | 228                    | 1,718                    | 1.05                              | 29.8            |
| \$35,000 or More .....                      | .4                             | 27.1                  | 297       | 365                    | 2,098                    | 1.23                              | 29.8            |
| <b>Below Poverty Line</b>                   |                                |                       |           |                        |                          |                                   |                 |
| 100 Percent .....                           | .6                             | 23.7                  | 260       | 312                    | 1,006                    | 1.20                              | 16.5            |
| 125 Percent .....                           | .7                             | 24.3                  | 266       | 323                    | 1,058                    | 1.21                              | 15.0            |
| <b>Age of Householder</b>                   |                                |                       |           |                        |                          |                                   |                 |
| Under 35 Years .....                        | .6                             | 23.5                  | 257       | 308                    | 1,135                    | 1.20                              | 16.5            |
| 35 to 59 Years .....                        | .7                             | 26.3                  | 288       | 348                    | 1,593                    | 1.21                              | 20.2            |
| 60 Years and Over .....                     | .7                             | 24.8                  | 271       | 332                    | 1,533                    | 1.22                              | 18.7            |
| <b>Household Size</b>                       |                                |                       |           |                        |                          |                                   |                 |
| 1 Person .....                              | .5                             | 19.7                  | 215       | 276                    | 1,012                    | 1.28                              | 21.3            |
| 2 to 4 Persons .....                        | 1.3                            | 25.2                  | 275       | 330                    | 1,647                    | 1.20                              | 14.7            |
| 5 or More Persons .....                     | Q                              | 34.4                  | 377       | 447                    | 1,117                    | 1.19                              | 37.3            |

See footnotes at end of table.

Table 63. Liquefied Petroleum Gas Consumption and Expenditures in South Region Households, 1990 (Continued)

| Characteristics                             | Households Using LPG (million) | Average per Household |           |                        |                          | Expenditures (dollars per gallon) | RSE Row Factors |
|---|--------------------------------|-----------------------|-----------|------------------------|--------------------------|-----------------------------------|-----------------|
|   |                                | Consumption           |           | Expenditures (dollars) | Floorspace (square feet) |                                   |                 |
|   |                                | (million Btu)         | (gallons) |                        |                          |                                   |                 |
| RSE Column Factors:                         | 2.1                            | 1.2                   | 1.2       | 1.2                    | 0.6                      | 0.5                               |                 |
| <b>East South Central Division</b> ....     | 0.9                            | 33.0                  | 361       | 395                    | 1,399                    | 1.09                              | 10.4            |
| <b>Climate Zone<sup>1</sup></b>             |                                |                       |           |                        |                          |                                   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                             | NC                    | NC        | NC                     | NC                       | NC                                | NC              |
| Under 5,500 HDD .....                       | .9                             | 33.0                  | 361       | 395                    | 1,399                    | 1.09                              | 10.4            |
| 2,000 CDD or More and Under 4,000 HDD ..... | NC                             | NC                    | NC        | NC                     | NC                       | NC                                | NC              |
| <b>Type of Housing Unit</b>                 |                                |                       |           |                        |                          |                                   |                 |
| Single-Family .....                         | .7                             | 34.2                  | 374       | 415                    | 1,517                    | 1.11                              | 13.2            |
| Mobile Home .....                           | Q                              | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| Multifamily (2 or more units) ...           | NC                             | NC                    | NC        | NC                     | NC                       | NC                                | NC              |
| <b>Heated Floorspace (square feet)</b>      |                                |                       |           |                        |                          |                                   |                 |
| Fewer than 1,000 .....                      | .3                             | 31.9                  | 350       | 361                    | 878                      | 1.09                              | 12.4            |
| 1,000 to 1,999 .....                        | .4                             | 36.5                  | 400       | 437                    | 1,351                    | 1.09                              | 16.8            |
| 2,000 or More .....                         | .2                             | 26.8                  | 294       | 323                    | 2,717                    | 1.10                              | 18.2            |
| <b>Ownership of Unit</b>                    |                                |                       |           |                        |                          |                                   |                 |
| Owned .....                                 | .8                             | 33.0                  | 361       | 398                    | 1,463                    | 1.10                              | 11.5            |
| Rented .....                                | Q                              | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| <b>Year of Construction</b>                 |                                |                       |           |                        |                          |                                   |                 |
| 1949 or Before .....                        | .2                             | 40.5                  | 443       | 506                    | 1,294                    | 1.14                              | 23.7            |
| 1950 to 1979 .....                          | .5                             | 31.8                  | 349       | 375                    | 1,341                    | 1.08                              | 15.0            |
| 1980 or After <sup>2</sup> .....            | Q                              | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| <b>1990 Family Income</b>                   |                                |                       |           |                        |                          |                                   |                 |
| Less than \$10,000 .....                    | .3                             | 30.7                  | 337       | 335                    | 1,117                    | .99                               | 17.7            |
| \$10,000 to \$19,999 .....                  | .2                             | 41.0                  | 449       | 505                    | 1,528                    | 1.13                              | 22.0            |
| \$20,000 to \$34,999 .....                  | .2                             | 28.3                  | 310       | 388                    | 1,280                    | 1.25                              | 22.7            |
| \$35,000 or More .....                      | Q                              | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| <b>Below Poverty Line</b>                   |                                |                       |           |                        |                          |                                   |                 |
| 100 Percent .....                           | .3                             | 34.5                  | 377       | 379                    | 983                      | 1.00                              | 13.9            |
| 125 Percent .....                           | .4                             | 30.7                  | 337       | 346                    | 1,138                    | 1.03                              | 16.6            |
| <b>Age of Householder</b>                   |                                |                       |           |                        |                          |                                   |                 |
| Under 35 Years .....                        | Q                              | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| 35 to 59 Years .....                        | .4                             | 27.2                  | 297       | 329                    | 1,423                    | 1.11                              | 11.0            |
| 60 Years and Over .....                     | .4                             | 37.8                  | 414       | 462                    | 1,457                    | 1.11                              | 21.1            |
| <b>Household Size</b>                       |                                |                       |           |                        |                          |                                   |                 |
| 1 Person .....                              | .2                             | 29.7                  | 325       | 319                    | 1,060                    | .98                               | 22.4            |
| 2 to 4 Persons .....                        | .5                             | 34.6                  | 379       | 432                    | 1,642                    | 1.14                              | 10.9            |
| 5 or More Persons .....                     | Q                              | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the West South Central Division are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and D of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 64. Wood Consumption in South Region Households, December 1989 Through November 1990

| Characteristics                             | Households Using Wood |                 |                       |                       | Wood Used as Main Space-Heating Fuel |                 |                       |                       | RSE Row Factors |     |      |
|---|-----------------------|-----------------|-----------------------|-----------------------|--------------------------------------|-----------------|-----------------------|-----------------------|-----------------|-----|------|
|   | Consumption           |                 | Households (millions) | Average per Household | Consumption                          |                 | Households (millions) | Average per Household |                 |     |      |
|   | Total                 | (million cords) |                       |                       | Total                                | (million cords) |                       |                       |                 |     |      |
|   | (quad-million Btu)    | (million cords) | (quad-million Btu)    | (million cords)       |                                      |                 |                       |                       |                 |     |      |
| RSE Column Factors:                         | 0.9                   | 1.1             | 1.1                   | 0.8                   | 0.8                                  | 1.5             | 1.5                   | 0.7                   | 0.7             |     |      |
| <b>South Region</b>                         |                       |                 |                       |                       |                                      |                 |                       |                       |                 |     |      |
| <b>Total Region</b> .....                   | 7.8                   | 0.17            | 8.5                   | 21.8                  | 1.1                                  | 1.2             | 0.07                  | 3.6                   | 58.9            | 2.9 | 11.0 |
| South Atlantic Div .....                    | 3.9                   | .08             | 3.9                   | 19.8                  | 1.0                                  | .5              | .03                   | 1.4                   | 58.3            | 2.9 | 16.1 |
| East South Central Div .....                | 1.8                   | .06             | 2.8                   | 31.0                  | 1.5                                  | .6              | .04                   | 1.9                   | 63.8            | 3.2 | 15.4 |
| West South Central Div .....                | 2.0                   | .04             | 1.8                   | 17.5                  | .9                                   | Q               | Q                     | Q                     | Q               | Q   | 28.3 |
| <b>Climate Zone<sup>1</sup></b>             |                       |                 |                       |                       |                                      |                 |                       |                       |                 |     |      |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q                     | Q               | Q                     | Q                     | Q                                    | NC              | NC                    | NC                    | NC              | NC  | NF   |
| Under 5,500 HDD .....                       | 5.2                   | .13             | 6.6                   | 25.4                  | 1.3                                  | 1.0             | .06                   | 3.0                   | 60.2            | 3.0 | 12.5 |
| 2,000 CDD or More and Under 4,000 HDD ..... | 2.5                   | .04             | 1.9                   | 14.6                  | .7                                   | Q               | Q                     | Q                     | Q               | Q   | 21.2 |
| <b>Type of Housing Unit</b>                 |                       |                 |                       |                       |                                      |                 |                       |                       |                 |     |      |
| Single-Family .....                         | 7.0                   | .16             | 8.1                   | 23.0                  | 1.2                                  | 1.2             | .07                   | 3.4                   | 57.9            | 2.9 | 11.0 |
| Mobile Home .....                           | Q                     | Q               | Q                     | Q                     | Q                                    | Q               | Q                     | Q                     | Q               | Q   | NF   |
| Multifamily (2 or more units) .....         | Q                     | Q               | Q                     | 6.5                   | .3                                   | NC              | NC                    | NC                    | NC              | NC  | 50.4 |
| <b>Heated Floorspace (square feet)</b>      |                       |                 |                       |                       |                                      |                 |                       |                       |                 |     |      |
| Fewer than 1,000 .....                      | .8                    | .02             | 1.2                   | 28.7                  | 1.4                                  | .3              | .02                   | .9                    | 56.6            | 2.8 | 23.4 |
| 1,000 to 1,999 .....                        | 3.8                   | .08             | 3.9                   | 20.4                  | 1.0                                  | .6              | .03                   | 1.6                   | 58.1            | 2.9 | 13.6 |
| 2,000 or More .....                         | 3.1                   | .07             | 3.4                   | 21.7                  | 1.1                                  | .3              | .02                   | 1.1                   | 62.0            | 3.1 | 19.0 |
| <b>Ownership of Unit</b>                    |                       |                 |                       |                       |                                      |                 |                       |                       |                 |     |      |
| Owned .....                                 | 7.0                   | .15             | 7.7                   | 21.9                  | 1.1                                  | 1.0             | .06                   | 3.2                   | 61.9            | 3.1 | 11.8 |
| Rented .....                                | .7                    | .02             | .8                    | 21.3                  | 1.1                                  | Q               | Q                     | Q                     | Q               | Q   | 29.1 |
| <b>Year of Construction</b>                 |                       |                 |                       |                       |                                      |                 |                       |                       |                 |     |      |
| 1949 or Before .....                        | .6                    | .02             | 1.2                   | 38.8                  | 1.9                                  | .2              | .01                   | .7                    | 63.6            | 3.2 | 29.4 |
| 1950 to 1979 .....                          | 4.6                   | .10             | 5.2                   | 22.6                  | 1.1                                  | .7              | .04                   | 2.2                   | 59.9            | 3.0 | 11.8 |
| 1980 or After <sup>2</sup> .....            | 2.6                   | .04             | 2.1                   | 16.3                  | .8                                   | .3              | .01                   | .7                    | 51.6            | 2.6 | 24.4 |
| <b>1990 Family Income</b>                   |                       |                 |                       |                       |                                      |                 |                       |                       |                 |     |      |
| Less than \$10,000 .....                    | .8                    | .03             | 1.5                   | 39.3                  | 2.0                                  | .3              | .02                   | 1.0                   | 63.4            | 3.2 | 19.1 |
| \$10,000 to \$19,999 .....                  | 1.3                   | .04             | 2.0                   | 31.8                  | 1.6                                  | .2              | .01                   | .7                    | 57.5            | 2.9 | 29.7 |
| \$20,000 to \$34,999 .....                  | 1.3                   | .03             | 1.5                   | 22.8                  | 1.1                                  | .3              | .02                   | .9                    | 62.4            | 3.1 | 21.3 |
| \$35,000 or More .....                      | 4.4                   | .07             | 3.4                   | 15.6                  | .8                                   | .4              | .02                   | 1.0                   | 53.4            | 2.7 | 18.8 |
| <b>Below Poverty Line</b>                   |                       |                 |                       |                       |                                      |                 |                       |                       |                 |     |      |
| 100 Percent .....                           | 7                     | .03             | 1.5                   | 41.5                  | 2.1                                  | .3              | .02                   | .9                    | 60.5            | 3.0 | 20.9 |
| 125 Percent .....                           | 1.1                   | .04             | 2.2                   | 39.4                  | 2.0                                  | .4              | .03                   | 1.3                   | 62.4            | 3.1 | 18.8 |
| <b>Age of Householder</b>                   |                       |                 |                       |                       |                                      |                 |                       |                       |                 |     |      |
| Under 35 Years .....                        | 1.4                   | .03             | 1.4                   | 20.3                  | 1.0                                  | .3              | .01                   | .7                    | 48.8            | 2.4 | 24.2 |
| 35 to 59 Years .....                        | 4.8                   | .08             | 4.1                   | 17.2                  | .9                                   | .5              | .03                   | 1.3                   | 52.6            | 2.6 | 13.1 |
| 60 Years and Over .....                     | 1.6                   | .06             | 2.9                   | 36.8                  | 1.8                                  | .4              | .03                   | 1.5                   | 73.4            | 3.7 | 15.8 |
| <b>Household Size</b>                       |                       |                 |                       |                       |                                      |                 |                       |                       |                 |     |      |
| 1 Person .....                              | 1.2                   | .02             | .8                    | 13.7                  | .7                                   | Q               | Q                     | Q                     | Q               | Q   | 22.8 |
| 2 to 4 Persons .....                        | 5.6                   | .13             | 6.5                   | 23.2                  | 1.2                                  | .8              | .05                   | 2.6                   | 66.2            | 3.3 | 11.9 |
| 5 or More Persons .....                     | 1.0                   | .02             | 1.2                   | 23.7                  | 1.2                                  | .2              | .01                   | .5                    | 47.5            | 2.4 | 26.5 |

See footnotes at end of table.

ENERGY CONSUMPTION AND EXPENDITURES

Table 64. Wood Consumption in South Region Households, December 1989 Through November 1990 (Continued)

| Characteristics                                | Households Using Wood |             |                       |                       | Wood Used as Main Space-Heating Fuel |                       |                       |     | RSE Row Factors |      |
|--|-----------------------|-------------|-----------------------|-----------------------|--------------------------------------|-----------------------|-----------------------|-----|-----------------|------|
|  | Households (millions) | Consumption |                       | Households (millions) | Consumption                          |                       | Households (millions) |     |                 |      |
|  |                       | Total       | Average per Household |                       | Total                                | Average per Household |                       |     |                 |      |
| RSE Column Factors:                            | 0.9                   | 1.1         | 1.1                   | 0.8                   | 0.8                                  | 1.5                   | 1.5                   | 1.5 | 0.7             | 0.7  |
| South Region                                   |                       |             |                       |                       |                                      |                       |                       |     |                 |      |
| <b>Main Heating Fuel</b>                       |                       |             |                       |                       |                                      |                       |                       |     |                 |      |
| Natural Gas .....                              | 2.5                   | 0.03        | 1.6                   | 12.9                  | 0.6                                  | --                    | --                    | --  | --              | 17.9 |
| Electricity .....                              | 3.0                   | .04         | 2.0                   | 13.1                  | .7                                   | --                    | --                    | --  | --              | 22.3 |
| Fuel Oil or Kerosene .....                     | .6                    | .02         | .8                    | 25.8                  | 1.3                                  | --                    | --                    | --  | --              | 30.7 |
| Wood .....                                     | 1.2                   | .07         | 3.6                   | 58.9                  | 2.9                                  | 1.2                   | 0.07                  | 3.6 | 58.9            | 2.9  |
| Heating Stove .....                            | 1.0                   | .06         | 2.9                   | 59.9                  | 3.0                                  | 1.0                   | .06                   | 2.9 | 59.9            | 3.0  |
| Fireplace .....                                | Q                     | Q           | Q                     | Q                     | Q                                    | Q                     | Q                     | Q   | Q               | Q    |
| Furnace/Other .....                            | Q                     | Q           | Q                     | Q                     | Q                                    | Q                     | Q                     | Q   | Q               | Q    |
| LPG .....                                      | Q                     | Q           | Q                     | Q                     | Q                                    | --                    | --                    | --  | --              | --   |
| Other .....                                    | Q                     | Q           | Q                     | Q                     | Q                                    | --                    | --                    | --  | --              | --   |
| <b>Secondary Heating Equipment Used</b> .....  | 7.5                   | .15         | 7.7                   | 20.5                  | 1.0                                  | 1.0                   | .06                   | 3.0 | 56.9            | 2.8  |
| <b>Amount of Wood Burned in Past 12 Months</b> |                       |             |                       |                       |                                      |                       |                       |     |                 |      |
| Less than one-half Cord .....                  | 3.4                   | .01         | .6                    | 3.5                   | .2                                   | NC                    | NC                    | NC  | NC              | NC   |
| One-half to Less than 1 .....                  | 1.4                   | .02         | .8                    | 11.5                  | .6                                   | Q                     | Q                     | Q   | Q               | Q    |
| 1 to Less than 2 .....                         | 1.2                   | .03         | 1.3                   | 22.5                  | 1.1                                  | Q                     | Q                     | 2.0 | 61.5            | 3.1  |
| 2 to 4 Cords .....                             | 1.5                   | .08         | 4.1                   | 55.4                  | 2.8                                  | .7                    | .04                   | 1.1 | 119.2           | 6.0  |
| More than 4 Cords .....                        | .3                    | .03         | 1.6                   | 110.7                 | 5.5                                  | .2                    | .02                   | 1.1 | 119.2           | 6.0  |
| <b>Hours Wood Burned in Winter</b>             |                       |             |                       |                       |                                      |                       |                       |     |                 |      |
| Less than 1 Hour per week .....                | 2.0                   | .01         | .5                    | 5.0                   | .3                                   | NC                    | NC                    | NC  | NC              | NC   |
| Less than 1 Hour per day .....                 | 1.8                   | .02         | 1.1                   | 11.5                  | .6                                   | NC                    | NC                    | NC  | NC              | NC   |
| 1 to 4 Hours per day .....                     | 1.7                   | .03         | 1.5                   | 17.3                  | .9                                   | Q                     | Q                     | Q   | Q               | Q    |
| More than 4 Hours per day .....                | .9                    | .03         | 1.7                   | 37.1                  | 1.9                                  | Q                     | Q                     | Q   | Q               | Q    |
| Almost Continuously .....                      | 1.3                   | .07         | 3.7                   | 56.3                  | 2.8                                  | .9                    | .06                   | 2.9 | 61.4            | 3.1  |
| <b>Purchased Firewood</b>                      |                       |             |                       |                       |                                      |                       |                       |     |                 |      |
| Yes .....                                      | 2.8                   | .07         | 3.3                   | 23.3                  | 1.2                                  | .3                    | .02                   | .9  | 66.6            | 3.3  |
| No .....                                       | 4.9                   | .10         | 5.0                   | 20.7                  | 1.0                                  | .9                    | .05                   | 2.5 | 54.6            | 2.7  |

1 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

2 Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the South Atlantic, East South Central and West South Central Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, and C of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).



**Table 65. Average Expenditures for Major Energy Sources in South Region Households, 1990**  
(Dollars per Million Btu)

| Characteristics                             | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|   |                                   |             |             |          |          |                         |                 |
| South Region                                |                                   |             |             |          |          |                         |                 |
| Total Region .....                          | 14.3                              | 21.4        | 5.7         | 8.0      | 9.3      | 12.2                    | 2.4             |
| <b>Climate Zone<sup>2</sup></b>             |                                   |             |             |          |          |                         |                 |
| Under 2,000 HDD and Over 5,500 HDD .....    | Q                                 | Q           | NC          | NC       | NC       | NC                      | NF              |
| Under 5,500 HDD .....                       | 13.2                              | 20.5        | 5.7         | 8.0      | 9.2      | 12.2                    | 3.7             |
| 2,000 HDD or More and Under 4,000 HDD ..... | 15.7                              | 22.3        | 5.8         | Q        | Q        | 12.1                    | 3.9             |
| <b>Type of Housing Unit</b>                 |                                   |             |             |          |          |                         |                 |
| Single-Family .....                         | 14.0                              | 21.4        | 5.7         | 8.1      | 9.2      | 11.9                    | 2.6             |
| Mobile Home .....                           | 16.4                              | 20.8        | 6.2         | Q        | 9.5      | 13.0                    | 4.7             |
| Multifamily (2 or more units) ...           | 15.7                              | 21.7        | 5.7         | Q        | Q        | Q                       | 3.8             |
| <b>Heated Floorspace (square feet)</b>      |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                      | 15.0                              | 21.6        | 6.0         | 8.0      | 9.7      | 12.9                    | 2.7             |
| 1,000 to 1,999 .....                        | 14.3                              | 21.6        | 5.7         | 8.2      | 8.5      | 12.1                    | 2.9             |
| 2,000 or More .....                         | 13.6                              | 20.9        | 5.7         | 7.9      | 8.8      | 11.3                    | 3.9             |
| <b>Ownership of Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Owned .....                                 | 14.1                              | 21.3        | 5.7         | 8.1      | 9.0      | 12.2                    | 2.7             |
| Rented .....                                | 14.7                              | 21.6        | 5.8         | 7.8      | 9.8      | 12.4                    | 3.2             |
| <b>Year of Construction</b>                 |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                        | 12.1                              | 21.6        | 5.9         | 8.0      | 9.5      | 12.9                    | 2.9             |
| 1950 to 1979 .....                          | 14.1                              | 21.3        | 5.7         | 8.1      | 9.3      | 12.4                    | 2.4             |
| 1980 or After <sup>3</sup> .....            | 17.5                              | 21.5        | 5.5         | Q        | 8.4      | 10.9                    | 5.5             |
| <b>1990 Family Income</b>                   |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                    | 13.8                              | 21.6        | 5.8         | 8.2      | 10.1     | 12.6                    | 3.7             |
| \$10,000 to \$19,999 .....                  | 14.5                              | 21.2        | 5.9         | 8.1      | 9.1      | 12.1                    | 2.7             |
| \$20,000 to \$34,999 .....                  | 14.0                              | 21.5        | 5.5         | 8.1      | 9.2      | 12.1                    | 3.8             |
| \$35,000 or More .....                      | 14.6                              | 21.3        | 5.8         | 7.8      | 8.6      | 11.9                    | 3.5             |
| <b>Below Poverty Line</b>                   |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                           | 13.7                              | 21.7        | 5.7         | 8.3      | 9.7      | 12.0                    | 4.1             |
| 125 Percent .....                           | 14.0                              | 21.5        | 5.7         | 8.3      | 9.7      | 12.2                    | 3.5             |
| <b>Age of Householder</b>                   |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                        | 14.7                              | 21.6        | 5.6         | 8.2      | 9.5      | 12.2                    | 3.8             |
| 35 to 59 Years .....                        | 14.7                              | 21.3        | 5.7         | 7.9      | 9.3      | 11.8                    | 3.1             |
| 60 Years and Over .....                     | 13.3                              | 21.4        | 5.8         | 8.1      | 8.9      | 12.6                    | 2.7             |
| <b>Household Size</b>                       |                                   |             |             |          |          |                         |                 |
| 1 Person .....                              | 14.2                              | 21.9        | 6.0         | 7.7      | 10.3     | 12.2                    | 3.6             |
| 2 to 4 Persons .....                        | 14.3                              | 21.3        | 5.7         | 8.1      | 8.9      | 12.2                    | 2.3             |
| 5 or More Persons .....                     | 14.1                              | 21.3        | 5.6         | Q        | 9.6      | 12.1                    | 3.5             |

See footnotes at end of table.

# ENERGY CONSUMPTION AND EXPENDITURES

**Table 65. Average Expenditures for Major Energy Sources in  
South Region Households, 1990 (Continued)**  
(Dollars per Million Btu)

| Characteristics                             | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|   | RSE Column Factors:               | 1.2         | 0.6         | 1.0      | 0.6      | 1.1                     |                 |
| <b>South Atlantic Division</b> .....        | 16.1                              | 22.6        | 6.8         | 8.1      | 9.4      | 13.3                    | 2.6             |
| <b>Climate Zone<sup>2</sup></b>             |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q                                 | Q           | NC          | NC       | NC       | NC                      | NF              |
| Under 5,500 HDD .....                       | 14.3                              | 22.0        | 6.7         | 8.1      | 9.3      | 13.4                    | 3.0             |
| 2,000 CDD or More and Under 4,000 HDD ..... | 21.5                              | 23.7        | 8.6         | Q        | Q        | 12.9                    | 6.3             |
| <b>Type of Housing Unit</b>                 |                                   |             |             |          |          |                         |                 |
| Single-Family .....                         | 15.8                              | 22.7        | 6.8         | 8.1      | 9.3      | 13.0                    | 3.1             |
| Mobile Home .....                           | 17.2                              | 21.6        | Q           | Q        | 9.8      | 13.6                    | 5.7             |
| Multifamily (2 or more units) ...           | 17.4                              | 23.0        | 6.8         | Q        | Q        | Q                       | 2.5             |
| <b>Heated Floorspace (square feet)</b>      |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                      | 16.7                              | 22.8        | 7.0         | 8.0      | 9.8      | 13.9                    | 3.3             |
| 1,000 to 1,999 .....                        | 16.5                              | 22.7        | 6.7         | 8.2      | 8.7      | 13.0                    | 3.5             |
| 2,000 or More .....                         | 15.2                              | 22.4        | 6.7         | 8.0      | 8.9      | 12.7                    | 3.8             |
| <b>Ownership of Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Owned .....                                 | 16.1                              | 22.6        | 6.8         | 8.2      | 9.1      | 13.3                    | 2.8             |
| Rented .....                                | 16.2                              | 22.8        | 6.8         | 7.8      | 9.9      | 13.1                    | 4.0             |
| <b>Year of Construction</b>                 |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                        | 12.9                              | 22.5        | 6.7         | 8.0      | 9.8      | 13.4                    | 3.3             |
| 1950 to 1979 .....                          | 15.9                              | 22.5        | 6.9         | 8.1      | 9.2      | 13.4                    | 3.3             |
| 1980 or After <sup>3</sup> .....            | 20.5                              | 23.0        | 6.9         | Q        | 8.7      | 12.8                    | 3.8             |
| <b>1990 Family Income</b>                   |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                    | 15.9                              | 22.7        | 6.6         | 8.2      | 10.3     | 13.9                    | 4.9             |
| \$10,000 to \$19,999 .....                  | 16.0                              | 22.2        | 7.1         | 8.1      | 9.1      | 13.2                    | 3.3             |
| \$20,000 to \$34,999 .....                  | 16.0                              | 22.8        | 6.7         | 8.1      | 9.6      | 11.5                    | 4.6             |
| \$35,000 or More .....                      | 16.3                              | 22.8        | 6.8         | 7.9      | 8.3      | 13.5                    | 3.7             |
| <b>Below Poverty Line</b>                   |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                           | 16.4                              | 23.0        | 6.4         | Q        | 9.8      | 13.1                    | 4.4             |
| 125 Percent .....                           | 16.6                              | 22.6        | 6.6         | 8.3      | 9.7      | 13.3                    | 3.9             |
| <b>Age of Householder</b>                   |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                        | 17.0                              | 23.0        | 6.7         | 8.2      | 9.7      | 13.1                    | 4.6             |
| 35 to 59 Years .....                        | 16.3                              | 22.5        | 6.7         | 8.0      | 9.3      | 13.2                    | 3.3             |
| 60 Years and Over .....                     | 14.9                              | 22.6        | 6.9         | 8.2      | 9.2      | 13.4                    | 3.4             |
| <b>Household Size</b>                       |                                   |             |             |          |          |                         |                 |
| 1 Person .....                              | 16.0                              | 22.9        | 7.1         | 7.7      | 10.4     | 14.1                    | 5.2             |
| 2 to 4 Persons .....                        | 16.3                              | 22.7        | 6.8         | 8.1      | 9.1      | 13.1                    | 2.4             |
| 5 or More Persons .....                     | 15.5                              | 22.2        | 6.5         | Q        | 9.7      | 13.0                    | 5.0             |

See footnotes at end of table.

SOUTH

Table 65. Average Expenditures for Major Energy Sources in South Region Households, 1990 (Continued)  
(Dollars per Million Btu)

| Characteristics                             | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|   | 1.2                               | 0.6         | 1.0         | 0.6      | 1.1      | 2.0                     |                 |
| <b>East South Central Division</b> ....     | 11.9                              | 17.4        | 4.8         | Q        | 8.9      | 12.0                    | 3.1             |
| <b>Climate Zone<sup>2</sup></b>             |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                                | NC          | NC          | NC       | NC       | NC                      | NC              |
| Under 5,500 HDD .....                       | 12.2                              | 17.3        | 4.7         | Q        | 8.9      | 12.0                    | 4.3             |
| 2,000 CDD or More and Under 4,000 HDD ..... | 10.7                              | 17.6        | 4.9         | NC       | NC       | NC                      | 39.8            |
| <b>Type of Housing Unit</b>                 |                                   |             |             |          |          |                         |                 |
| Single-Family .....                         | 11.8                              | 17.3        | 4.8         | Q        | 8.7      | 12.1                    | 3.4             |
| Mobile Home .....                           | 15.0                              | 18.3        | Q           | Q        | Q        | Q                       | 5.6             |
| Multifamily (2 or more units) ...           | 11.2                              | 17.1        | 4.5         | NC       | NC       | NC                      | 6.3             |
| <b>Heated Floorspace (square feet)</b>      |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                      | 12.1                              | 17.5        | 4.7         | Q        | 9.4      | 11.9                    | 3.1             |
| 1,000 to 1,999 .....                        | 12.6                              | 17.5        | 5.0         | Q        | 8.0      | 12.0                    | 4.3             |
| 2,000 or More .....                         | 10.9                              | 17.1        | 4.6         | Q        | Q        | 12.0                    | 5.3             |
| <b>Ownership of Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Owned .....                                 | 11.8                              | 17.3        | 4.8         | Q        | 8.8      | 12.1                    | 3.7             |
| Rented .....                                | 12.0                              | 17.5        | 4.8         | Q        | Q        | Q                       | 3.8             |
| <b>Year of Construction</b>                 |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                        | 10.1                              | 17.8        | 4.8         | Q        | 8.3      | 12.5                    | 6.2             |
| 1950 to 1979 .....                          | 12.5                              | 17.3        | 4.9         | Q        | 9.5      | 11.8                    | 2.6             |
| 1980 or After <sup>3</sup> .....            | 12.2                              | 17.3        | 4.5         | NC       | Q        | Q                       | 9.7             |
| <b>1990 Family Income</b>                   |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                    | 11.7                              | 17.6        | 4.8         | Q        | Q        | 10.9                    | 4.1             |
| \$10,000 to \$19,999 .....                  | 12.7                              | 17.3        | 4.8         | Q        | Q        | 12.3                    | 2.7             |
| \$20,000 to \$34,999 .....                  | 12.2                              | 17.6        | 4.7         | NC       | 8.6      | 13.7                    | 3.6             |
| \$35,000 or More .....                      | 11.3                              | 17.1        | 4.8         | Q        | Q        | Q                       | 5.5             |
| <b>Below Poverty Line</b>                   |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                           | 11.8                              | 17.3        | 4.9         | Q        | Q        | 11.0                    | 4.3             |
| 125 Percent .....                           | 12.0                              | 17.5        | 4.8         | Q        | Q        | 11.2                    | 3.9             |
| <b>Age of Householder</b>                   |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                        | 11.9                              | 17.6        | 4.8         | Q        | 9.1      | Q                       | 2.9             |
| 35 to 59 Years .....                        | 12.0                              | 17.2        | 4.8         | Q        | 9.0      | 12.1                    | 3.7             |
| 60 Years and Over .....                     | 11.5                              | 17.6        | 4.7         | Q        | Q        | 12.2                    | 2.9             |
| <b>Household Size</b>                       |                                   |             |             |          |          |                         |                 |
| 1 Person .....                              | 11.1                              | 17.9        | 4.7         | Q        | Q        | 10.8                    | 3.1             |
| 2 to 4 Persons .....                        | 12.2                              | 17.3        | 4.8         | Q        | 8.6      | 12.5                    | 3.5             |
| 5 or More Persons .....                     | 11.1                              | 17.1        | 4.6         | Q        | Q        | Q                       | 4.2             |

See footnotes at end of table.

**Table 65. Average Expenditures for Major Energy Sources in South Region Households, 1990 (Continued)**  
(Dollars per Million Btu)

| Characteristics                             | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|   | RSE Column Factors:               | 1.2         | 0.6         | 1.0      | 0.6      | 1.1                     |                 |
| <b>West South Central Division ..</b>       | 13.2                              | 22.0        | 5.3         | NC       | Q        | 9.9                     | 4.5             |
| <b>Climate Zone<sup>2</sup></b>             |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                                | NC          | NC          | NC       | NC       | NC                      | NC              |
| Under 5,500 HDD and 2,000 CDD or More ..... | 9.4                               | 21.8        | 3.9         | NC       | Q        | Q                       | 21.3            |
| Under 4,000 HDD .....                       | 14.0                              | 22.1        | 5.7         | NC       | Q        | 11.0                    | 6.2             |
| <b>Type of Housing Unit</b>                 |                                   |             |             |          |          |                         |                 |
| Single-Family .....                         | 12.8                              | 22.0        | 5.3         | NC       | Q        | 9.8                     | 4.4             |
| Mobile Home .....                           | 15.7                              | 22.7        | Q           | NC       | Q        | Q                       | 22.4            |
| Multifamily (2 or more units) ...           | 16.2                              | 22.4        | 5.2         | NC       | NC       | NC                      | 9.0             |
| <b>Heated Floorspace (square feet)</b>      |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                      | 14.6                              | 23.1        | 5.8         | NC       | Q        | Q                       | 6.6             |
| 1,000 to 1,999 .....                        | 12.9                              | 22.1        | 5.3         | NC       | Q        | 10.2                    | 6.1             |
| 2,000 or More .....                         | 13.0                              | 21.2        | 5.0         | NC       | NC       | Q                       | 6.3             |
| <b>Ownership of Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Owned .....                                 | 13.0                              | 21.9        | 5.3         | NC       | Q        | 9.8                     | 5.2             |
| Rented .....                                | 14.1                              | 22.4        | 5.3         | NC       | NC       | Q                       | 5.0             |
| <b>Year of Construction</b>                 |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                        | 12.2                              | 22.7        | 5.7         | NC       | Q        | Q                       | 2.7             |
| 1950 to 1979 .....                          | 12.9                              | 22.0        | 5.1         | NC       | Q        | 11.2                    | 4.2             |
| 1980 or After <sup>3</sup> .....            | 16.5                              | 21.7        | 5.8         | NC       | NC       | Q                       | 5.8             |
| <b>1990 Family Income</b>                   |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                    | 12.9                              | 23.5        | 5.9         | NC       | NC       | Q                       | 6.6             |
| \$10,000 to \$19,999 .....                  | 13.5                              | 22.6        | 5.5         | NC       | Q        | Q                       | 4.6             |
| \$20,000 to \$34,999 .....                  | 12.4                              | 22.2        | 5.0         | NC       | Q        | Q                       | 5.7             |
| \$35,000 or More .....                      | 13.8                              | 21.2        | 5.1         | NC       | NC       | Q                       | 4.7             |
| <b>Below Poverty Line</b>                   |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                           | 12.6                              | 23.2        | 5.8         | NC       | NC       | Q                       | 7.0             |
| 125 Percent .....                           | 12.9                              | 23.0        | 5.7         | NC       | NC       | Q                       | 6.9             |
| <b>Age of Householder</b>                   |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                        | 13.3                              | 22.0        | 5.1         | NC       | Q        | Q                       | 5.1             |
| 35 to 59 Years .....                        | 13.8                              | 22.0        | 5.2         | NC       | NC       | Q                       | 4.7             |
| 60 Years and Over .....                     | 12.4                              | 22.2        | 5.5         | NC       | Q        | Q                       | 4.1             |
| <b>Household Size</b>                       |                                   |             |             |          |          |                         |                 |
| 1 Person .....                              | 13.7                              | 23.1        | 5.8         | NC       | NC       | Q                       | 4.6             |
| 2 to 4 Persons .....                        | 12.9                              | 21.9        | 5.2         | NC       | Q        | 9.4                     | 6.5             |
| 5 or More Persons .....                     | 14.0                              | 21.7        | 5.3         | NC       | NC       | Q                       | 4.7             |

1 Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.  
2 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.  
3 Does not include all new construction for 1990.

Q = No cases in sample.  
Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**SOUTH**

Table 66. Total Consumption and Expenditures by End Uses in South Region Households, 1990

| Characteristics                             | Space Heating              |                                | Air Conditioning           |                                | Water Heating              |                                | Refrigerator               |                                | Appliances                 |                                | RSE Row Factors |
|---|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|-----------------|
|   | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) |                 |
|   |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| <b>RSE Column Factors:</b>                  | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF              |
| <b>Total Region</b> .....                   | 974.8                      | 8.12                           | 343.1                      | 7.41                           | 449.5                      | 5.10                           | 208.5                      | 4.51                           | 626.4                      | 12.04                          | 3.4             |
| <b>Climate Zone<sup>1</sup></b>             |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q                          | Q                              | Q                          | Q                              | Q                          | Q                              | Q                          | Q                              | Q                          | Q                              | NF              |
| Under 5,500 HDD .....                       | 654.9                      | 5.48                           | 118.2                      | 2.39                           | 257.3                      | 3.03                           | 102.9                      | 2.13                           | 333.6                      | 6.34                           | 8.8             |
| 2,000 CDD or More and Under 4,000 HDD ..... | 319.4                      | 2.62                           | 224.8                      | 5.02                           | 191.8                      | 2.06                           | 105.5                      | 2.38                           | 292.3                      | 5.69                           | 8.9             |
| <b>Type of Housing Unit</b>                 |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Single-Family .....                         | 844.1                      | 6.78                           | 271.3                      | 5.88                           | 355.6                      | 3.85                           | 168.2                      | 3.63                           | 528.7                      | 10.13                          | 5.1             |
| Mobile Home .....                           | 45.1                       | .51                            | 14.7                       | .32                            | 18.2                       | .32                            | 8.2                        | .18                            | 30.0                       | .58                            | 19.7            |
| Multi-family (2 or more units) .....        | 85.6                       | .83                            | 57.1                       | 1.21                           | 75.6                       | .92                            | 32.1                       | .70                            | 67.7                       | 1.32                           | 14.0            |
| <b>Heated Floorspace (square feet)</b>      |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Fewer than 1,000 .....                      | 215.5                      | 1.97                           | 78.0                       | 1.66                           | 118.7                      | 1.58                           | 55.9                       | 1.24                           | 134.6                      | 2.61                           | 7.4             |
| 1,000 to 1,999 .....                        | 454.9                      | 3.76                           | 162.4                      | 3.56                           | 215.6                      | 2.32                           | 96.7                       | 2.11                           | 303.2                      | 5.93                           | 5.3             |
| 2,000 or More .....                         | 304.4                      | 2.39                           | 102.7                      | 2.19                           | 115.2                      | 1.21                           | 55.9                       | 1.17                           | 188.7                      | 3.50                           | 12.5            |
| <b>Ownership of Unit</b>                    |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Owned .....                                 | 751.7                      | 6.15                           | 249.3                      | 5.38                           | 310.7                      | 3.46                           | 152.4                      | 3.28                           | 483.5                      | 9.27                           | 5.5             |
| Rented .....                                | 223.1                      | 1.97                           | 93.8                       | 2.02                           | 138.8                      | 1.64                           | 56.2                       | 1.24                           | 142.9                      | 2.77                           | 9.0             |
| <b>Year of Construction</b>                 |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1949 or Before .....                        | 280.2                      | 2.06                           | 36.2                       | .80                            | 87.4                       | .91                            | 38.4                       | .84                            | 108.8                      | 2.05                           | 10.4            |
| 1950 to 1979 .....                          | 573.4                      | 4.67                           | 220.1                      | 4.69                           | 282.7                      | 3.02                           | 127.8                      | 2.76                           | 391.7                      | 7.41                           | 5.2             |
| 1980 or After <sup>2</sup> .....            | 121.2                      | 1.38                           | 86.7                       | 1.91                           | 79.3                       | 1.17                           | 42.4                       | .92                            | 125.9                      | 2.57                           | 12.5            |
| <b>1990 Family Income</b>                   |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Less than \$10,000 .....                    | 168.5                      | 1.40                           | 35.2                       | .78                            | 72.0                       | .82                            | 36.3                       | .80                            | 91.5                       | 1.74                           | 10.6            |
| \$10,000 to \$19,999 .....                  | 194.2                      | 1.70                           | 57.1                       | 1.22                           | 86.9                       | 1.12                           | 40.2                       | .86                            | 114.2                      | 2.21                           | 7.4             |
| \$20,000 to \$34,999 .....                  | 252.8                      | 1.98                           | 85.0                       | 1.85                           | 116.0                      | 1.28                           | 50.8                       | 1.12                           | 147.8                      | 2.88                           | 6.4             |
| \$35,000 or More .....                      | 359.2                      | 3.03                           | 165.8                      | 3.55                           | 174.5                      | 1.87                           | 81.3                       | 1.73                           | 273.0                      | 5.20                           | 7.8             |
| <b>Below Poverty Line</b>                   |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 100 Percent .....                           | 145.4                      | 1.21                           | 29.2                       | .64                            | 72.4                       | .81                            | 30.5                       | .68                            | 88.1                       | 1.67                           | 11.5            |
| 125 Percent .....                           | 193.3                      | 1.62                           | 42.9                       | .95                            | 95.5                       | 1.13                           | 41.8                       | .92                            | 122.3                      | 2.33                           | 9.8             |
| <b>Age of Householder</b>                   |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 35 Years .....                        | 217.2                      | 1.83                           | 92.0                       | 2.02                           | 128.6                      | 1.48                           | 48.5                       | 1.06                           | 149.9                      | 2.95                           | 6.7             |
| 35 to 59 Years .....                        | 427.6                      | 3.69                           | 177.3                      | 3.81                           | 222.9                      | 2.54                           | 99.3                       | 2.14                           | 323.0                      | 6.15                           | 6.2             |
| 60 Years and Over .....                     | 330.1                      | 2.60                           | 73.8                       | 1.58                           | 98.0                       | 1.08                           | 60.8                       | 1.32                           | 153.5                      | 2.94                           | 6.8             |
| <b>Household Size</b>                       |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1 Person .....                              | 198.2                      | 1.68                           | 55.8                       | 1.20                           | 62.2                       | .75                            | 44.4                       | .99                            | 81.5                       | 1.64                           | 6.2             |
| 2 to 4 Persons .....                        | 664.5                      | 5.53                           | 243.8                      | 5.27                           | 309.5                      | 3.55                           | 140.0                      | 3.01                           | 443.4                      | 8.49                           | 3.9             |
| 5 or More Persons .....                     | 112.1                      | .90                            | 43.5                       | .94                            | 77.7                       | .80                            | 24.1                       | .52                            | 101.6                      | 1.91                           | 10.0            |

South Region

See footnotes at end of table.

**Table 66. Total Consumption and Expenditures by End Uses in South Region Households, 1990 (Continued)**

| Characteristics                             | Space Heating              |                                | Air Conditioning           |                                | Water Heating              |                                | Refrigerator               |                                | Appliances                 |                                | RSE Row Factors |
|---|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|-----------------|
|   | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) |                 |
|   | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             |                 |
| <b>South Atlantic Division</b> .....        | 443.1                      | 4.31                           | 157.6                      | 3.63                           | 198.3                      | 2.86                           | 99.4                       | 2.27                           | 296.1                      | 6.19                           | 4.8             |
| <b>Climate Zone<sup>1</sup></b>             |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q                          | Q                              | Q                          | Q                              | Q                          | Q                              | Q                          | Q                              | Q                          | Q                              | NF              |
| Under 5,500 HDD .....                       | 402.0                      | 3.68                           | 71.4                       | 1.57                           | 155.0                      | 2.06                           | 62.4                       | 1.38                           | 205.9                      | 4.15                           | 6.8             |
| 2,000 CDD or More and Under 4,000 HDD ..... | 40.5                       | .61                            | 86.1                       | 2.05                           | 43.1                       | .80                            | 36.9                       | .89                            | 89.7                       | 2.03                           | 9.5             |
| <b>Type of Housing Unit</b>                 |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Single-Family .....                         | 374.6                      | 3.51                           | 121.3                      | 2.82                           | 150.6                      | 2.14                           | 77.9                       | 1.78                           | 242.1                      | 5.07                           | 6.7             |
| Mobile Home .....                           | 27.6                       | .33                            | 8.1                        | .18                            | 9.3                        | .19                            | 4.4                        | .10                            | 17.1                       | .35                            | 29.9            |
| Multifamily (2 or more units) .....         | 40.8                       | .47                            | 28.1                       | .62                            | 38.5                       | .54                            | 17.1                       | .40                            | 36.9                       | .78                            | 18.8            |
| <b>Heated Floorspace (square feet)</b>      |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Fewer than 1,000 .....                      | 104.3                      | 1.08                           | 40.4                       | .92                            | 57.4                       | .90                            | 28.7                       | .67                            | 70.0                       | 1.47                           | 9.7             |
| 1,000 to 1,999 .....                        | 185.2                      | 1.86                           | 67.4                       | 1.57                           | 83.3                       | 1.22                           | 42.1                       | .96                            | 130.9                      | 2.76                           | 9.2             |
| 2,000 or More .....                         | 153.6                      | 1.37                           | 49.8                       | 1.14                           | 57.7                       | .74                            | 28.7                       | .64                            | 95.2                       | 1.97                           | 14.7            |
| <b>Ownership of Unit</b>                    |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Owned .....                                 | 336.7                      | 3.24                           | 111.2                      | 2.58                           | 131.8                      | 1.94                           | 71.6                       | 1.63                           | 223.1                      | 4.68                           | 6.3             |
| Rented .....                                | 106.4                      | 1.07                           | 46.3                       | 1.05                           | 66.6                       | .92                            | 27.9                       | .64                            | 73.0                       | 1.51                           | 11.5            |
| <b>Year of Construction</b>                 |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1949 or Before .....                        | 146.3                      | 1.17                           | 15.6                       | .36                            | 42.3                       | .54                            | 18.1                       | .41                            | 55.0                       | 1.09                           | 14.5            |
| 1950 to 1979 .....                          | 246.3                      | 2.35                           | 92.1                       | 2.09                           | 116.9                      | 1.59                           | 57.6                       | 1.31                           | 172.2                      | 3.58                           | 6.5             |
| 1980 or After <sup>2</sup> .....            | 50.4                       | .79                            | 49.9                       | 1.18                           | 39.2                       | .74                            | 23.7                       | .55                            | 69.0                       | 1.52                           | 16.1            |
| <b>1990 Family Income</b>                   |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Less than \$10,000 .....                    | 67.0                       | .68                            | 13.8                       | .32                            | 24.4                       | .39                            | 14.2                       | .33                            | 34.2                       | .73                            | 17.1            |
| \$10,000 to \$19,999 .....                  | 90.3                       | .90                            | 23.5                       | .54                            | 37.6                       | .62                            | 19.2                       | .43                            | 53.3                       | 1.10                           | 9.2             |
| \$20,000 to \$34,999 .....                  | 107.9                      | 1.01                           | 37.7                       | .88                            | 50.1                       | .72                            | 24.1                       | .56                            | 70.7                       | 1.48                           | 8.5             |
| \$35,000 or More .....                      | 177.9                      | 1.72                           | 82.5                       | 1.89                           | 86.2                       | 1.14                           | 42.0                       | .96                            | 137.9                      | 2.88                           | 9.7             |
| <b>Below Poverty Line</b>                   |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 100 Percent .....                           | 50.4                       | .53                            | 10.1                       | .24                            | 21.8                       | .36                            | 10.4                       | .24                            | 30.1                       | .65                            | 22.5            |
| 125 Percent .....                           | 71.1                       | .74                            | 15.6                       | .37                            | 31.9                       | .54                            | 16.0                       | .37                            | 46.6                       | .99                            | 13.3            |
| <b>Age of Householder</b>                   |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 35 Years .....                        | 90.5                       | .95                            | 44.8                       | 1.05                           | 56.2                       | .82                            | 22.7                       | .53                            | 71.8                       | 1.53                           | 10.6            |
| 35 to 59 Years .....                        | 211.8                      | 2.09                           | 83.9                       | 1.92                           | 103.2                      | 1.47                           | 50.3                       | 1.14                           | 159.0                      | 3.30                           | 8.3             |
| 60 Years and Over .....                     | 140.7                      | 1.27                           | 28.9                       | .66                            | 39.0                       | .57                            | 26.5                       | .60                            | 65.3                       | 1.37                           | 11.1            |
| <b>Household Size</b>                       |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1 Person .....                              | 87.6                       | .89                            | 25.4                       | .58                            | 30.0                       | .45                            | 21.9                       | .51                            | 39.8                       | .85                            | 9.0             |
| 2 to 4 Persons .....                        | 307.2                      | 2.97                           | 116.8                      | 2.70                           | 138.8                      | 2.03                           | 68.7                       | 1.57                           | 215.9                      | 4.53                           | 5.6             |
| 5 or More Persons .....                     | 48.3                       | .45                            | 15.4                       | .35                            | 29.5                       | .39                            | 8.8                        | .20                            | 40.4                       | .81                            | 14.4            |

See footnotes at end of table.

**Table 66. Total Consumption and Expenditures by End Uses  
in South Region Households, 1990 (Continued)**

| Characteristics                          | Space Heating              |                                | Air Conditioning           |                                | Water Heating              |                                | Refrigerator               |                                | Appliances                 |                                | RSE Row Factors |
|--|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|-----------------|
|  | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) |                 |
| RSE Column Factors:                      | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             |                 |
| <b>East South Central Division</b> ..... | 216.3                      | 1.66                           | 54.6                       | 0.95                           | 94.3                       | 0.96                           | 41.1                       | 0.72                           | 121.6                      | 1.97                           | 8.4             |
| <b>Climate Zone<sup>1</sup></b>          |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 2,000 CDD and                      |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Over 5,500 HDD .....                     | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC              |
| Under 5,500 HDD .....                    | 177.8                      | 1.43                           | 36.7                       | .64                            | 72.1                       | .81                            | 32.4                       | .57                            | 98.8                       | 1.63                           | 24.0            |
| 2,000 CDD or More and                    |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 4,000 HDD .....                    | Q                          | Q                              | Q                          | Q                              | Q                          | Q                              | Q                          | Q                              | Q                          | Q                              | NF              |
| <b>Type of Housing Unit</b>              |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Single-Family .....                      | 180.8                      | 1.37                           | 40.6                       | .71                            | 72.5                       | .73                            | 32.4                       | .57                            | 100.5                      | 1.65                           | 14.6            |
| Mobile Home .....                        | 11.3                       | .13                            | 3.1                        | .06                            | 5.3                        | .09                            | 2.3                        | .04                            | 8.0                        | .14                            | 26.6            |
| Multifamily (2 or more units) .....      | 24.2                       | .17                            | 10.8                       | .18                            | 16.4                       | .15                            | 6.4                        | .11                            | 13.1                       | .19                            | 29.3            |
| <b>Heated Floorspace (square feet)</b>   |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Fewer than 1,000 .....                   | 60.2                       | .49                            | 16.0                       | .28                            | 29.0                       | .32                            | 12.5                       | .22                            | 30.5                       | .49                            | 14.9            |
| 1,000 to 1,999 .....                     | 79.3                       | .66                            | 20.5                       | .36                            | 34.7                       | .40                            | 15.9                       | .28                            | 50.2                       | .83                            | 8.8             |
| 2,000 or More .....                      | 76.8                       | .52                            | 18.1                       | .31                            | 30.5                       | .25                            | 12.7                       | .22                            | 40.8                       | .65                            | 38.9            |
| <b>Ownership of Unit</b>                 |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Owned .....                              | 169.4                      | 1.29                           | 39.0                       | .68                            | 66.3                       | .68                            | 29.9                       | .52                            | 94.6                       | 1.55                           | 15.5            |
| Rented .....                             | 47.0                       | .37                            | 15.6                       | .27                            | 27.9                       | .28                            | 11.1                       | .20                            | 27.0                       | .42                            | 18.3            |
| <b>Year of Construction</b>              |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1949 or Before .....                     | 68.0                       | .45                            | 6.3                        | .11                            | 18.9                       | .18                            | 7.7                        | .14                            | 22.1                       | .36                            | 20.5            |
| 1950 to 1979 .....                       | 107.5                      | .90                            | 33.8                       | .59                            | 53.4                       | .57                            | 24.2                       | .42                            | 69.8                       | 1.13                           | 11.9            |
| 1980 or After <sup>2</sup> .....         | Q                          | .31                            | 14.4                       | .25                            | 22.0                       | .21                            | 9.1                        | .16                            | 29.6                       | .49                            | 38.4            |
| <b>1990 Family Income</b>                |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Less than \$10,000 .....                 | 45.2                       | .35                            | 5.9                        | .10                            | 17.7                       | .20                            | 8.7                        | .16                            | 23.0                       | .37                            | 15.0            |
| \$10,000 to \$19,999 .....               | 42.2                       | .38                            | 12.4                       | .22                            | 19.6                       | .23                            | 8.5                        | .15                            | 22.7                       | .37                            | 14.2            |
| \$20,000 to \$34,999 .....               | 51.8                       | .41                            | 13.8                       | .24                            | 23.2                       | .25                            | 9.2                        | .16                            | 29.9                       | .50                            | 9.1             |
| \$35,000 or More .....                   | 77.2                       | .53                            | 22.5                       | .39                            | 33.8                       | .28                            | 14.6                       | .25                            | 46.0                       | .74                            | 24.4            |
| <b>Below Poverty Line</b>                |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 100 Percent .....                        | 36.3                       | .28                            | 5.0                        | .09                            | 16.2                       | .19                            | 7.1                        | .13                            | 20.3                       | .32                            | 17.6            |
| 125 Percent .....                        | 48.3                       | .38                            | 7.0                        | .12                            | 20.9                       | .25                            | 9.6                        | .17                            | 27.6                       | .44                            | 16.3            |
| <b>Age of Householder</b>                |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 35 Years .....                     | 51.0                       | .38                            | 15.0                       | .27                            | 25.4                       | .26                            | 9.3                        | .16                            | 29.0                       | .48                            | 11.7            |
| 35 to 59 Years .....                     | 95.6                       | .73                            | 29.2                       | .50                            | 49.1                       | .49                            | 20.4                       | .36                            | 62.9                       | 1.02                           | 13.4            |
| 60 Years and Over .....                  | 69.8                       | .55                            | 10.4                       | .18                            | 19.7                       | .22                            | 11.4                       | .20                            | 29.6                       | .48                            | 11.3            |
| <b>Household Size</b>                    |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1 Person .....                           | 51.8                       | .38                            | 10.2                       | .18                            | 14.2                       | .14                            | 8.6                        | .16                            | 16.5                       | .27                            | 13.2            |
| 2 to 4 Persons .....                     | 145.4                      | 1.16                           | 39.9                       | .69                            | 66.5                       | .70                            | 28.4                       | .49                            | 88.7                       | 1.45                           | 9.4             |
| 5 or More Persons .....                  | 19.1                       | .12                            | 4.5                        | .08                            | 13.6                       | .12                            | 4.1                        | .07                            | 16.5                       | .25                            | 25.0            |

See footnotes at end of table.

Table 66. Total Consumption and Expenditures by End Uses in South Region Households, 1990 (Continued)

| Characteristics                         | Space Heating              |                                | Air Conditioning           |                                | Water Heating              |                                | Refrigerator               |                                | Appliances                 |                                | RSE Row Factors |
|---|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|-----------------|
|   | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) |                 |
|   | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             |                 |
| <b>West South Central Division</b> .... | 315.4                      | 2.15                           | 131.0                      | 2.83                           | 156.9                      | 1.27                           | 68.0                       | 1.52                           | 208.7                      | 3.87                           | 6.7             |
| <b>Climate Zone<sup>1</sup></b>         |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 2,000 CDD and                     |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Over 5,500 HDD .....                    | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC                         | NC                             | NC              |
| Under 5,500 HDD .....                   | Q                          | .36                            | 10.2                       | .18                            | Q                          | .16                            | 8.1                        | .18                            | 28.9                       | .55                            | 38.5            |
| 2,000 CDD or More and                   |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 4,000 HDD .....                   | 240.4                      | 1.78                           | 120.8                      | 2.66                           | 126.6                      | 1.11                           | 60.0                       | 1.34                           | 179.8                      | 3.32                           | 11.2            |
| <b>Type of Housing Unit</b>             |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Single-Family .....                     | 288.6                      | 1.90                           | 109.4                      | 2.35                           | 132.5                      | .99                            | 57.9                       | 1.29                           | 186.1                      | 3.42                           | 8.5             |
| Mobile Home .....                       | 6.2                        | .06                            | Q                          | Q                              | 3.6                        | .04                            | 1.6                        | .04                            | 4.9                        | .09                            | 38.4            |
| Multifamily (2 or more units) .....     | 20.6                       | .19                            | 18.1                       | .41                            | 20.7                       | .24                            | 8.6                        | .19                            | 17.7                       | .36                            | 27.6            |
| <b>Heated Floorspace (square feet)</b>  |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Fewer than 1,000 .....                  | 51.0                       | .41                            | 21.7                       | .47                            | 32.3                       | .36                            | 14.7                       | .35                            | 34.0                       | .65                            | 17.6            |
| 1,000 to 1,999 .....                    | 190.4                      | 1.24                           | 74.6                       | 1.63                           | 97.6                       | .70                            | 38.7                       | .86                            | 122.0                      | 2.34                           | 7.0             |
| 2,000 or More .....                     | 74.0                       | .50                            | 34.7                       | .74                            | 27.0                       | .22                            | 14.5                       | .30                            | 52.6                       | .88                            | 19.5            |
| <b>Ownership of Unit</b>                |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Owned .....                             | 245.7                      | 1.62                           | 99.1                       | 2.13                           | 112.6                      | .84                            | 50.9                       | 1.12                           | 165.8                      | 3.04                           | 11.1            |
| Rented .....                            | 69.7                       | .53                            | 31.8                       | .70                            | 44.3                       | .43                            | 17.2                       | .40                            | 42.9                       | .83                            | 18.7            |
| <b>Year of Construction</b>             |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1949 or Before .....                    | 65.9                       | .44                            | 14.3                       | .33                            | 26.3                       | .19                            | 12.6                       | .29                            | 31.7                       | .60                            | 16.6            |
| 1950 to 1979 .....                      | 219.5                      | 1.42                           | 94.2                       | 2.02                           | 112.4                      | .86                            | 45.9                       | 1.02                           | 149.7                      | 2.71                           | 8.4             |
| 1980 or After <sup>2</sup> .....        | 30.0                       | .29                            | 22.4                       | .49                            | 18.2                       | .22                            | 9.6                        | .21                            | 27.3                       | .56                            | 19.3            |
| <b>1990 Family Income</b>               |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Less than \$10,000 .....                | 56.4                       | .38                            | 15.5                       | .36                            | 29.9                       | .23                            | 13.4                       | .32                            | 34.3                       | .64                            | 18.4            |
| \$10,000 to \$19,999 .....              | 61.7                       | .43                            | 21.2                       | .47                            | 29.7                       | .27                            | 12.5                       | .28                            | 38.1                       | .74                            | 14.1            |
| \$20,000 to \$34,999 .....              | 93.2                       | .56                            | 33.5                       | .73                            | 42.7                       | .32                            | 17.5                       | .39                            | 47.2                       | .91                            | 13.2            |
| \$35,000 or More .....                  | 104.2                      | .78                            | 60.7                       | 1.27                           | 54.5                       | .45                            | 24.6                       | .52                            | 89.1                       | 1.58                           | 16.3            |
| <b>Below Poverty Line</b>               |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 100 Percent .....                       | 58.6                       | .40                            | 14.1                       | .32                            | 34.5                       | .27                            | 13.0                       | .31                            | 37.7                       | .70                            | 16.5            |
| 125 Percent .....                       | 73.9                       | .50                            | 20.3                       | .46                            | 42.6                       | .35                            | 16.1                       | .38                            | 48.2                       | .90                            | 17.7            |
| <b>Age of Householder</b>               |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 35 Years .....                    | 75.6                       | .51                            | 32.2                       | .71                            | 47.0                       | .40                            | 16.5                       | .37                            | 49.0                       | .95                            | 11.6            |
| 35 to 59 Years .....                    | 120.2                      | .87                            | 64.2                       | 1.39                           | 70.6                       | .59                            | 28.6                       | .64                            | 101.1                      | 1.83                           | 12.0            |
| 60 Years and Over .....                 | 119.6                      | .77                            | 34.6                       | .74                            | 39.3                       | .29                            | 22.9                       | .51                            | 58.6                       | 1.09                           | 8.5             |
| <b>Household Size</b>                   |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1 Person .....                          | 58.8                       | .41                            | 20.3                       | .44                            | 18.0                       | .17                            | 13.9                       | .33                            | 25.2                       | .52                            | 16.0            |
| 2 to 4 Persons .....                    | 212.0                      | 1.40                           | 87.1                       | 1.88                           | 104.2                      | .82                            | 42.9                       | .95                            | 138.8                      | 2.51                           | 8.3             |
| 5 or More Persons .....                 | 44.6                       | .33                            | 23.6                       | .51                            | 34.7                       | .29                            | 11.2                       | .25                            | 44.7                       | .84                            | 15.1            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Consumption and Expenditure data are for major energy sources which include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).



Table 67. Consumption by End Uses, per South Region Household, 1990

| Characteristics     | All Uses             |                           | Space Heating        |                           | Air Conditioning     |                           | Water Heating        |                           | Refrigerator         |                           | Appliances           |                           | RSE Row Factors |
|---------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|-----------------|
|                     | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) |                 |
| RSE Column Factors: | 1.1                  | 0.8                       | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        |                 |

## South Region

|   |      |       |      |      |      |      |      |      |      |     |      |      |      |
|---|------|-------|------|------|------|------|------|------|------|-----|------|------|------|
| <b>Total Region</b> .....                   | 32.3 | 80.6  | 31.8 | 30.6 | 27.2 | 12.6 | 32.2 | 13.9 | 32.2 | 6.5 | 32.3 | 19.4 | 3.8  |
| <b>Climate Zone<sup>1</sup></b>             |      |       |      |      |      |      |      |      |      |     |      |      |      |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q    | Q     | Q    | Q    | Q    | Q    | Q    | Q    | Q    | Q   | Q    | Q    | NF   |
| Under 5,500 HDD .....                       | 17.6 | 83.5  | 17.2 | 38.0 | 14.2 | 8.3  | 17.5 | 14.7 | 17.5 | 5.9 | 17.6 | 19.0 | 6.0  |
| 2,000 CDD or More and Under 4,000 HDD ..... | 14.7 | 77.2  | 14.6 | 21.9 | 12.9 | 17.4 | 14.7 | 13.1 | 14.7 | 7.2 | 14.7 | 19.9 | 6.5  |
| <b>Type of Housing Unit</b>                 |      |       |      |      |      |      |      |      |      |     |      |      |      |
| Single-Family .....                         | 29.7 | 91.4  | 23.4 | 36.1 | 19.8 | 13.7 | 23.7 | 15.0 | 23.7 | 7.1 | 23.7 | 22.3 | 3.6  |
| Mobile Home .....                           | 1.9  | 61.8  | 1.9  | 24.0 | 1.4  | 10.7 | 1.9  | 9.7  | 1.9  | 4.4 | 1.9  | 15.9 | 12.2 |
| Multifamily (2 or more units) .....         | 6.7  | 47.5  | 6.6  | 13.0 | 6.0  | 9.5  | 6.7  | 11.4 | 6.7  | 4.8 | 6.7  | 10.1 | 8.2  |
| <b>Heated Floorspace (square feet)</b>      |      |       |      |      |      |      |      |      |      |     |      |      |      |
| Fewer than 1,000 .....                      | 10.9 | 55.3  | 10.6 | 20.3 | 8.4  | 9.2  | 10.8 | 11.0 | 10.9 | 5.1 | 10.9 | 12.3 | 5.0  |
| 1,000 to 1,999 .....                        | 14.8 | 83.5  | 14.7 | 31.0 | 12.9 | 12.6 | 14.8 | 14.6 | 14.8 | 6.5 | 14.8 | 20.5 | 3.8  |
| 2,000 or More .....                         | 6.6  | 115.7 | 6.6  | 46.4 | 5.9  | 17.5 | 6.6  | 17.4 | 6.6  | 8.5 | 6.6  | 28.5 | 8.1  |
| <b>Ownership of Unit</b>                    |      |       |      |      |      |      |      |      |      |     |      |      |      |
| Owned .....                                 | 21.6 | 90.3  | 21.2 | 35.5 | 18.3 | 13.6 | 21.5 | 14.4 | 21.5 | 7.1 | 21.6 | 22.4 | 3.9  |
| Rented .....                                | 10.7 | 61.0  | 10.7 | 20.9 | 8.9  | 10.6 | 10.7 | 13.0 | 10.7 | 5.2 | 10.7 | 13.3 | 5.7  |
| <b>Year of Construction</b>                 |      |       |      |      |      |      |      |      |      |     |      |      |      |
| 1949 or Before .....                        | 6.0  | 91.4  | 5.9  | 47.3 | 4.3  | 8.4  | 6.0  | 14.5 | 6.0  | 6.4 | 6.0  | 18.0 | 6.8  |
| 1950 to 1979 .....                          | 18.8 | 84.7  | 18.5 | 30.9 | 15.9 | 13.9 | 18.8 | 15.1 | 18.8 | 6.8 | 18.8 | 20.8 | 3.8  |
| 1980 or After <sup>2</sup> .....            | 7.4  | 61.3  | 7.4  | 16.5 | 7.0  | 12.4 | 7.4  | 10.7 | 7.4  | 5.7 | 7.4  | 16.9 | 9.8  |
| <b>1990 Family Income</b>                   |      |       |      |      |      |      |      |      |      |     |      |      |      |
| Less than \$10,000 .....                    | 6.4  | 63.1  | 6.3  | 26.8 | 4.4  | 8.0  | 6.4  | 11.3 | 6.3  | 5.7 | 6.4  | 14.3 | 6.6  |
| \$10,000 to \$19,999 .....                  | 7.0  | 70.1  | 6.9  | 28.3 | 5.6  | 10.2 | 7.0  | 12.4 | 7.0  | 5.7 | 7.0  | 16.2 | 5.6  |
| \$20,000 to \$34,999 .....                  | 8.3  | 78.8  | 8.1  | 31.0 | 7.2  | 11.8 | 8.3  | 14.0 | 8.3  | 6.1 | 8.3  | 17.9 | 4.6  |
| \$35,000 or More .....                      | 10.6 | 99.5  | 10.5 | 34.1 | 10.0 | 16.6 | 10.5 | 16.5 | 10.6 | 7.7 | 10.6 | 25.8 | 6.0  |
| <b>Below Poverty Line</b>                   |      |       |      |      |      |      |      |      |      |     |      |      |      |
| 100 Percent .....                           | 5.5  | 66.0  | 5.5  | 26.5 | 3.6  | 8.2  | 5.5  | 13.1 | 5.5  | 5.6 | 5.5  | 15.9 | 7.2  |
| 125 Percent .....                           | 7.5  | 66.4  | 7.3  | 26.5 | 5.0  | 8.6  | 7.5  | 12.8 | 7.4  | 5.6 | 7.5  | 16.4 | 6.4  |
| <b>Age of Householder</b>                   |      |       |      |      |      |      |      |      |      |     |      |      |      |
| Under 35 Years .....                        | 9.2  | 69.3  | 9.1  | 24.0 | 8.0  | 11.5 | 9.1  | 14.1 | 9.2  | 5.3 | 9.2  | 16.3 | 5.5  |
| 35 to 59 Years .....                        | 14.1 | 88.9  | 13.8 | 30.9 | 11.8 | 15.1 | 14.0 | 15.9 | 14.0 | 7.1 | 14.1 | 23.0 | 4.4  |
| 60 Years and Over .....                     | 9.1  | 79.0  | 8.9  | 36.9 | 7.4  | 10.0 | 9.1  | 10.8 | 9.0  | 6.7 | 9.1  | 16.9 | 5.4  |
| <b>Household Size</b>                       |      |       |      |      |      |      |      |      |      |     |      |      |      |
| 1 Person .....                              | 7.8  | 56.4  | 7.7  | 25.7 | 6.7  | 8.4  | 7.8  | 8.0  | 7.8  | 5.7 | 7.8  | 10.4 | 5.2  |
| 2 to 4 Persons .....                        | 21.0 | 86.0  | 20.6 | 32.2 | 17.7 | 13.8 | 20.9 | 14.8 | 20.9 | 6.7 | 21.0 | 21.2 | 2.6  |
| 5 or More Persons .....                     | 3.5  | 102.6 | 3.5  | 32.4 | 2.8  | 15.5 | 3.5  | 22.2 | 3.5  | 6.9 | 3.5  | 29.0 | 6.2  |

See footnotes at end of table.

Table 67. Consumption by End Uses, per South Region Household, 1990 (Continued)

| Characteristics                        | All Uses             |                           | Space Heating        |                           | Air Conditioning     |                           | Water Heating        |                           | Refrigerator         |                           | Appliances           |                           | RSE Row Factors |
|--|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|-----------------|
|  | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) |                 |
|  | 1.1                  | 0.8                       | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        |                 |
| <b>South Atlantic Division</b> .....   | 16.6                 | 72.1                      | 16.3                 | 27.3                      | 13.9                 | 11.3                      | 16.5                 | 12.0                      | 16.6                 | 6.0                       | 16.6                 | 17.9                      | 3.8             |
| <b>Climate Zone<sup>1</sup></b>        |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 2,000 CDD and                    |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Over 5,500 HDD .....                   | Q                    | Q                         | Q                    | Q                         | Q                    | Q                         | Q                    | Q                         | Q                    | Q                         | Q                    | Q                         | NF              |
| Under 5,500 HDD .....                  | 11.1                 | 80.5                      | 11.0                 | 36.7                      | 9.1                  | 7.8                       | 11.1                 | 14.0                      | 11.1                 | 5.6                       | 11.1                 | 18.5                      | 5.8             |
| 2,000 CDD or More and                  |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 4,000 HDD .....                  | 5.4                  | 55.2                      | 5.2                  | 7.7                       | 4.7                  | 18.2                      | 5.4                  | 8.0                       | 5.4                  | 6.9                       | 5.4                  | 16.7                      | 7.0             |
| <b>Type of Housing Unit</b>            |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Single-Family .....                    | 11.7                 | 82.6                      | 11.5                 | 32.5                      | 9.7                  | 12.6                      | 11.7                 | 12.9                      | 11.7                 | 6.7                       | 11.7                 | 20.7                      | 5.2             |
| Mobile Home .....                      | 1.1                  | 62.3                      | 1.1                  | 25.9                      | .8                   | 10.3                      | 1.1                  | 8.7                       | 1.1                  | 4.1                       | 1.1                  | 16.0                      | 17.1            |
| Multifamily (2 or more units) .....    | 3.8                  | 42.6                      | 3.7                  | 11.1                      | 3.5                  | 8.1                       | 3.7                  | 10.3                      | 3.8                  | 4.5                       | 3.8                  | 9.7                       | 10.9            |
| <b>Heated Floorspace (square feet)</b> |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Fewer than 1,000 .....                 | 5.9                  | 50.7                      | 5.7                  | 18.2                      | 4.8                  | 8.4                       | 5.9                  | 9.8                       | 5.9                  | 4.8                       | 5.9                  | 11.8                      | 6.7             |
| 1,000 to 1,999 .....                   | 7.0                  | 72.3                      | 7.0                  | 26.6                      | 6.1                  | 11.1                      | 7.0                  | 11.8                      | 7.0                  | 6.0                       | 7.0                  | 18.6                      | 7.0             |
| 2,000 or More .....                    | 3.6                  | 107.2                     | 3.6                  | 43.0                      | 3.0                  | 16.3                      | 3.6                  | 16.1                      | 3.6                  | 8.0                       | 3.6                  | 26.5                      | 9.4             |
| <b>Ownership of Unit</b>               |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Owned .....                            | 10.8                 | 80.9                      | 10.6                 | 31.8                      | 9.1                  | 12.3                      | 10.8                 | 12.2                      | 10.8                 | 6.6                       | 10.8                 | 20.7                      | 5.2             |
| Rented .....                           | 5.8                  | 55.6                      | 5.7                  | 18.8                      | 4.8                  | 9.6                       | 5.7                  | 11.7                      | 5.8                  | 4.8                       | 5.8                  | 12.7                      | 7.5             |
| <b>Year of Construction</b>            |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1949 or Before .....                   | 3.0                  | 92.1                      | 2.9                  | 49.9                      | 2.1                  | 7.4                       | 3.0                  | 14.0                      | 3.0                  | 6.0                       | 3.0                  | 18.3                      | 9.5             |
| 1950 to 1979 .....                     | 8.9                  | 77.0                      | 8.7                  | 28.3                      | 7.5                  | 12.4                      | 8.9                  | 13.2                      | 8.9                  | 6.5                       | 8.9                  | 19.3                      | 5.1             |
| 1980 or After <sup>2</sup> .....       | 4.6                  | 49.9                      | 4.6                  | 10.9                      | 4.3                  | 11.5                      | 4.6                  | 8.5                       | 4.6                  | 5.1                       | 4.6                  | 14.8                      | 11.8            |
| <b>1990 Family Income</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Less than \$10,000 .....               | 2.7                  | 57.7                      | 2.6                  | 25.4                      | 2.0                  | 7.1                       | 2.7                  | 9.2                       | 2.7                  | 5.3                       | 2.7                  | 12.8                      | 11.0            |
| \$10,000 to \$19,999 .....             | 3.6                  | 61.4                      | 3.5                  | 25.8                      | 2.7                  | 8.7                       | 3.6                  | 10.4                      | 3.6                  | 5.3                       | 3.6                  | 14.6                      | 7.6             |
| \$20,000 to \$34,999 .....             | 4.3                  | 68.0                      | 4.2                  | 25.7                      | 3.6                  | 10.4                      | 4.3                  | 11.7                      | 4.3                  | 5.6                       | 4.3                  | 16.6                      | 6.4             |
| \$35,000 or More .....                 | 6.0                  | 88.1                      | 5.9                  | 30.1                      | 5.6                  | 14.7                      | 5.9                  | 14.5                      | 6.0                  | 7.0                       | 6.0                  | 23.1                      | 8.6             |
| <b>Below Poverty Line</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 100 Percent .....                      | 2.0                  | 60.1                      | 2.0                  | 24.9                      | 1.3                  | 7.6                       | 2.0                  | 10.7                      | 2.0                  | 5.1                       | 2.0                  | 14.7                      | 13.7            |
| 125 Percent .....                      | 3.0                  | 59.6                      | 2.9                  | 24.1                      | 2.0                  | 7.6                       | 3.0                  | 10.5                      | 3.0                  | 5.3                       | 3.0                  | 15.3                      | 9.9             |
| <b>Age of Householder</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 35 Years .....                   | 4.9                  | 58.9                      | 4.8                  | 18.9                      | 4.3                  | 10.4                      | 4.8                  | 11.6                      | 4.9                  | 4.7                       | 4.9                  | 14.8                      | 7.8             |
| 35 to 59 Years .....                   | 7.4                  | 81.7                      | 7.2                  | 29.2                      | 6.1                  | 13.8                      | 7.4                  | 13.9                      | 7.4                  | 6.7                       | 7.4                  | 21.3                      | 7.1             |
| 60 Years and Over .....                | 4.3                  | 70.6                      | 4.2                  | 33.2                      | 3.5                  | 8.2                       | 4.3                  | 9.2                       | 4.3                  | 6.2                       | 4.3                  | 15.3                      | 8.9             |
| <b>Household Size</b>                  |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1 Person .....                         | 4.2                  | 48.9                      | 4.1                  | 21.2                      | 3.6                  | 7.1                       | 4.2                  | 7.2                       | 4.2                  | 5.2                       | 4.2                  | 9.5                       | 8.2             |
| 2 to 4 Persons .....                   | 10.9                 | 77.7                      | 10.7                 | 28.7                      | 9.2                  | 12.7                      | 10.9                 | 12.8                      | 10.9                 | 6.3                       | 10.9                 | 19.8                      | 4.7             |
| 5 or More Persons .....                | 1.5                  | 97.1                      | 1.4                  | 33.5                      | 1.2                  | 13.3                      | 1.5                  | 20.1                      | 1.5                  | 6.0                       | 1.5                  | 27.6                      | 9.7             |

See footnotes at end of table.

**Table 67. Consumption by End Uses, per South Region Household, 1990 (Continued)**

| Characteristics                                | All Uses             |                           | Space Heating        |                           | Air Conditioning     |                           | Water Heating        |                           | Refrigerator         |                           | Appliances           |                           | RSE Row Factors |
|--|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|-----------------|
|  | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) |                 |
| RSE Column Factors:                            | 1.1                  | 0.8                       | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        |                 |
| <b>East South Central Division</b> .....       | 6.4                  | 82.1                      | 6.3                  | 34.5                      | 5.2                  | 10.5                      | 6.4                  | 14.7                      | 6.4                  | 6.4                       | 6.4                  | 18.9                      | 5.9             |
| <b>Climate Zone<sup>1</sup></b>                |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 2,000 CDD and<br>Over 5,500 HDD .....    | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC              |
| Under 5,500 HDD .....                          | 5.1                  | 81.5                      | 5.0                  | 35.8                      | 4.1                  | 9.0                       | 5.1                  | 14.1                      | 5.1                  | 6.4                       | 5.1                  | 19.3                      | 13.3            |
| 2,000 CDD or More and<br>Under 4,000 HDD ..... | Q                    | 84.4                      | Q                    | 29.6                      | Q                    | 15.4                      | Q                    | 17.0                      | Q                    | 6.7                       | Q                    | 17.5                      | 43.2            |
| <b>Type of Housing Unit</b>                    |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Single-Family .....                            | 4.7                  | 91.5                      | 4.5                  | 40.2                      | 3.8                  | 10.7                      | 4.7                  | 15.5                      | 4.6                  | 7.0                       | 4.7                  | 21.5                      | 9.2             |
| Mobile Home .....                              | .5                   | 61.5                      | .5                   | 23.1                      | .4                   | 8.7                       | .5                   | 10.9                      | .5                   | 4.6                       | .5                   | 16.4                      | 17.6            |
| Multifamily (2 or more units) .....            | 1.3                  | 55.6                      | 1.3                  | 18.9                      | 1.1                  | 10.3                      | 1.3                  | 12.9                      | 1.3                  | 5.1                       | 1.3                  | 10.3                      | 16.3            |
| <b>Heated Floorspace<br/>(square feet)</b>     |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Fewer than 1,000 .....                         | 2.4                  | 63.0                      | 2.3                  | 26.6                      | 1.8                  | 9.1                       | 2.4                  | 12.3                      | 2.3                  | 5.3                       | 2.4                  | 13.0                      | 9.5             |
| 1,000 to 1,999 .....                           | 2.5                  | 80.5                      | 2.5                  | 32.2                      | 2.1                  | 9.9                       | 2.5                  | 13.9                      | 2.5                  | 6.4                       | 2.5                  | 20.1                      | 5.9             |
| 2,000 or More .....                            | 1.6                  | 113.0                     | 1.5                  | 49.9                      | 1.4                  | 13.0                      | 1.6                  | 19.3                      | 1.6                  | 8.1                       | 1.6                  | 25.8                      | 21.2            |
| <b>Ownership of Unit</b>                       |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Owned .....                                    | 4.4                  | 89.9                      | 4.3                  | 39.6                      | 3.7                  | 10.6                      | 4.4                  | 14.9                      | 4.4                  | 6.8                       | 4.4                  | 21.3                      | 9.4             |
| Rented .....                                   | 2.0                  | 64.6                      | 2.0                  | 23.6                      | 1.5                  | 10.1                      | 2.0                  | 14.0                      | 2.0                  | 5.6                       | 2.0                  | 13.6                      | 11.0            |
| <b>Year of Construction</b>                    |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1949 or Before .....                           | 1.4                  | 89.0                      | 1.4                  | 50.2                      | .9                   | 6.8                       | 1.4                  | 13.6                      | 1.4                  | 5.6                       | 1.4                  | 16.0                      | 12.0            |
| 1950 to 1979 .....                             | 3.7                  | 77.7                      | 3.6                  | 29.7                      | 3.1                  | 11.1                      | 3.7                  | 14.4                      | 3.7                  | 6.6                       | 3.7                  | 18.8                      | 7.4             |
| 1980 or After <sup>2</sup> .....               | 1.3                  | 87.1                      | 1.3                  | 31.6                      | 1.2                  | 11.8                      | 1.3                  | 16.5                      | 1.3                  | 6.8                       | 1.3                  | 22.3                      | 24.6            |
| <b>1990 Family Income</b>                      |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Less than \$10,000 .....                       | 1.6                  | 61.0                      | 1.6                  | 28.8                      | 1.0                  | 6.1                       | 1.6                  | 10.7                      | 1.6                  | 5.4                       | 1.6                  | 14.0                      | 10.9            |
| \$10,000 to \$19,999 .....                     | 1.5                  | 72.5                      | 1.4                  | 29.3                      | 1.2                  | 10.4                      | 1.5                  | 13.5                      | 1.5                  | 5.8                       | 1.5                  | 15.6                      | 9.7             |
| \$20,000 to \$34,999 .....                     | 1.6                  | 80.9                      | 1.5                  | 34.0                      | 1.4                  | 9.9                       | 1.6                  | 14.7                      | 1.6                  | 5.8                       | 1.6                  | 18.9                      | 6.8             |
| \$35,000 or More .....                         | 1.8                  | 110.8                     | 1.7                  | 44.5                      | 1.7                  | 13.5                      | 1.8                  | 19.3                      | 1.8                  | 8.4                       | 1.8                  | 26.3                      | 14.4            |
| <b>Below Poverty Line</b>                      |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 100 Percent .....                              | 1.3                  | 63.9                      | 1.3                  | 28.2                      | .8                   | 6.5                       | 1.3                  | 12.2                      | 1.3                  | 5.5                       | 1.3                  | 15.3                      | 11.6            |
| 125 Percent .....                              | 1.8                  | 64.3                      | 1.7                  | 28.7                      | 1.0                  | 6.8                       | 1.8                  | 11.8                      | 1.7                  | 5.6                       | 1.8                  | 15.6                      | 11.6            |
| <b>Age of Householder</b>                      |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 35 Years .....                           | 1.7                  | 78.3                      | 1.6                  | 31.6                      | 1.4                  | 10.5                      | 1.7                  | 15.3                      | 1.7                  | 5.6                       | 1.7                  | 17.5                      | 9.4             |
| 35 to 59 Years .....                           | 2.9                  | 89.6                      | 2.8                  | 33.6                      | 2.4                  | 12.3                      | 2.9                  | 17.1                      | 2.9                  | 7.1                       | 2.9                  | 21.9                      | 8.6             |
| 60 Years and Over .....                        | 1.9                  | 74.0                      | 1.8                  | 38.6                      | 1.4                  | 7.4                       | 1.9                  | 10.4                      | 1.9                  | 6.1                       | 1.9                  | 15.6                      | 8.4             |
| <b>Household Size</b>                          |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1 Person .....                                 | 1.6                  | 61.8                      | 1.6                  | 32.6                      | 1.3                  | 7.6                       | 1.6                  | 8.6                       | 1.6                  | 5.3                       | 1.6                  | 10.1                      | 9.8             |
| 2 to 4 Persons .....                           | 4.3                  | 86.7                      | 4.2                  | 35.0                      | 3.5                  | 11.4                      | 4.3                  | 15.6                      | 4.2                  | 6.7                       | 4.3                  | 20.8                      | 6.7             |
| 5 or More Persons .....                        | .5                   | 107.1                     | .5                   | 36.4                      | .4                   | 11.8                      | .5                   | 25.3                      | .5                   | 7.5                       | .5                   | 30.5                      | 13.1            |

See footnotes at end of table.

Table 67. Consumption by End Uses, per South Region Household, 1990 (Continued)

| Characteristics                                | All Uses             |                           | Space Heating        |                           | Air Conditioning     |                           | Water Heating        |                           | Refrigerator         |                           | Appliances           |                           | RSE Row Factors |
|--|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|-----------------|
|  | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) |                 |
| RSE Column Factors:                            | 1.1                  | 0.8                       | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        |                 |
| <b>West South Central Division</b> ....        | 9.3                  | 94.5                      | 9.3                  | 33.9                      | 8.0                  | 16.3                      | 9.3                  | 16.9                      | 9.3                  | 7.3                       | 9.3                  | 22.4                      | 5.4             |
| <b>Climate Zone<sup>1</sup></b>                |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 2,000 CDD and<br>Over 5,500 HDD .....    | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC                   | NC                        | NC              |
| Under 5,500 HDD .....                          | 1.3                  | 118.5                     | 1.3                  | 58.3                      | 1.0                  | 10.1                      | 1.3                  | 23.5                      | 1.3                  | 6.3                       | 1.3                  | 22.5                      | 24.4            |
| 2,000 CDD or More and<br>Under 4,000 HDD ..... | 8.0                  | 90.7                      | 8.0                  | 30.0                      | 7.0                  | 17.2                      | 8.0                  | 15.8                      | 8.0                  | 7.5                       | 8.0                  | 22.4                      | 8.4             |
| <b>Type of Housing Unit</b>                    |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Single-Family .....                            | 7.3                  | 105.5                     | 7.3                  | 39.3                      | 6.3                  | 17.3                      | 7.3                  | 18.1                      | 7.3                  | 7.9                       | 7.3                  | 25.4                      | 6.4             |
| Mobile Home .....                              | .3                   | 60.3                      | .3                   | 19.0                      | Q                    | Q                         | .3                   | 11.0                      | .3                   | 4.8                       | .3                   | 15.0                      | 28.5            |
| Multifamily (2 or more units) ....             | 1.6                  | 52.3                      | 1.6                  | 12.6                      | 1.5                  | 12.2                      | 1.6                  | 12.6                      | 1.6                  | 5.3                       | 1.6                  | 10.8                      | 18.2            |
| <b>Heated Floorspace (square feet)</b>         |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Fewer than 1,000 .....                         | 2.6                  | 58.7                      | 2.6                  | 19.5                      | 1.9                  | 11.4                      | 2.6                  | 12.3                      | 2.6                  | 5.7                       | 2.6                  | 13.0                      | 13.2            |
| 1,000 to 1,999 .....                           | 5.2                  | 100.0                     | 5.2                  | 36.4                      | 4.7                  | 15.8                      | 5.2                  | 18.6                      | 5.2                  | 7.4                       | 5.2                  | 23.3                      | 5.4             |
| 2,000 or More .....                            | 1.5                  | 139.8                     | 1.5                  | 51.0                      | 1.4                  | 24.5                      | 1.5                  | 18.6                      | 1.5                  | 10.0                      | 1.5                  | 36.3                      | 13.6            |
| <b>Ownership of Unit</b>                       |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Owned .....                                    | 6.3                  | 106.7                     | 6.3                  | 38.9                      | 5.5                  | 17.9                      | 6.3                  | 17.8                      | 6.3                  | 8.1                       | 6.3                  | 26.3                      | 8.3             |
| Rented .....                                   | 3.0                  | 68.8                      | 3.0                  | 23.3                      | 2.5                  | 12.7                      | 3.0                  | 14.8                      | 3.0                  | 5.8                       | 3.0                  | 14.3                      | 12.7            |
| <b>Year of Construction</b>                    |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1949 or Before .....                           | 1.6                  | 91.9                      | 1.6                  | 40.2                      | 1.3                  | 11.3                      | 1.6                  | 16.0                      | 1.6                  | 7.7                       | 1.6                  | 19.3                      | 12.7            |
| 1950 to 1979 .....                             | 6.2                  | 100.0                     | 6.2                  | 35.3                      | 5.4                  | 17.6                      | 6.2                  | 18.1                      | 6.2                  | 7.4                       | 6.2                  | 24.1                      | 6.1             |
| 1980 or After <sup>2</sup> .....               | 1.5                  | 74.0                      | 1.5                  | 20.7                      | 1.4                  | 15.9                      | 1.5                  | 12.5                      | 1.5                  | 6.6                       | 1.5                  | 18.8                      | 13.8            |
| <b>1990 Family Income</b>                      |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Less than \$10,000 .....                       | 2.1                  | 71.6                      | 2.1                  | 27.0                      | 1.5                  | 10.6                      | 2.1                  | 14.3                      | 2.1                  | 6.5                       | 2.1                  | 16.4                      | 11.1            |
| \$10,000 to \$19,999 .....                     | 1.9                  | 84.8                      | 1.9                  | 32.1                      | 1.7                  | 12.6                      | 1.9                  | 15.4                      | 1.9                  | 6.5                       | 1.9                  | 19.8                      | 12.1            |
| \$20,000 to \$34,999 .....                     | 2.4                  | 96.5                      | 2.4                  | 38.4                      | 2.2                  | 15.3                      | 2.4                  | 17.6                      | 2.4                  | 7.2                       | 2.4                  | 19.4                      | 9.9             |
| \$35,000 or More .....                         | 2.9                  | 116.2                     | 2.9                  | 36.3                      | 2.7                  | 22.3                      | 2.9                  | 19.0                      | 2.9                  | 8.6                       | 2.9                  | 31.1                      | 11.7            |
| <b>Below Poverty Line</b>                      |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 100 Percent .....                              | 2.2                  | 72.8                      | 2.2                  | 27.0                      | 1.5                  | 9.6                       | 2.2                  | 15.9                      | 2.2                  | 6.0                       | 2.2                  | 17.4                      | 11.2            |
| 125 Percent .....                              | 2.7                  | 75.4                      | 2.7                  | 27.7                      | 1.9                  | 10.7                      | 2.7                  | 16.0                      | 2.6                  | 6.1                       | 2.7                  | 18.1                      | 11.2            |
| <b>Age of Householder</b>                      |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 35 Years .....                           | 2.7                  | 82.8                      | 2.7                  | 28.4                      | 2.2                  | 14.3                      | 2.7                  | 17.7                      | 2.6                  | 6.2                       | 2.7                  | 18.4                      | 9.5             |
| 35 to 59 Years .....                           | 3.7                  | 102.8                     | 3.7                  | 32.1                      | 3.3                  | 19.2                      | 3.7                  | 18.9                      | 3.7                  | 7.6                       | 3.7                  | 27.0                      | 8.2             |
| 60 Years and Over .....                        | 2.9                  | 94.7                      | 2.9                  | 41.2                      | 2.5                  | 14.0                      | 2.9                  | 13.5                      | 2.9                  | 7.9                       | 2.9                  | 20.2                      | 8.7             |
| <b>Household Size</b>                          |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1 Person .....                                 | 2.0                  | 67.5                      | 2.0                  | 29.2                      | 1.8                  | 11.4                      | 2.0                  | 8.9                       | 2.0                  | 6.9                       | 2.0                  | 12.5                      | 12.8            |
| 2 to 4 Persons .....                           | 5.8                  | 100.9                     | 5.8                  | 36.6                      | 5.0                  | 17.4                      | 5.8                  | 18.0                      | 5.8                  | 7.4                       | 5.8                  | 23.9                      | 5.4             |
| 5 or More Persons .....                        | 1.5                  | 106.3                     | 1.5                  | 29.9                      | 1.3                  | 18.6                      | 1.5                  | 23.2                      | 1.5                  | 7.5                       | 1.5                  | 29.9                      | 9.3             |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Consumption and Expenditure data are for major energy sources which include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 68. Expenditures by End Uses, per South Region Household, 1990**

| Characteristics                             | All Uses             |                        | Space Heating        |                        | Air Conditioning     |                        | Water Heating        |                        | Refrigerator         |                        | Appliances           |                        | RSE Row Factors |
|---|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|-----------------|
|   | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) |                 |
|   | 1.3                  | 0.6                    | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     |                 |
| <b>South Region</b>                         |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| <b>Total Region</b> .....                   | 32.3                 | 1,151                  | 31.8                 | 255                    | 27.2                 | 273                    | 32.2                 | 158                    | 32.2                 | 140                    | 32.3                 | 373                    | 3.3             |
| <b>Climate Zone<sup>1</sup></b>             |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q                    | Q                      | Q                    | Q                      | Q                    | Q                      | Q                    | Q                      | Q                    | Q                      | Q                    | Q                      | NF              |
| Under 5,500 HDD .....                       | 17.6                 | 1,103                  | 17.2                 | 318                    | 14.2                 | 168                    | 17.5                 | 173                    | 17.5                 | 121                    | 17.6                 | 361                    | 5.2             |
| 2,000 CDD or More and Under 4,000 HDD ..... | 14.7                 | 1,209                  | 14.6                 | 180                    | 12.9                 | 388                    | 14.7                 | 140                    | 14.7                 | 162                    | 14.7                 | 387                    | 5.9             |
| <b>Type of Housing Unit</b>                 |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Single-Family .....                         | 23.7                 | 1,277                  | 23.4                 | 290                    | 19.8                 | 297                    | 23.7                 | 163                    | 23.7                 | 153                    | 23.7                 | 427                    | 3.2             |
| Mobile Home .....                           | 1.9                  | 1,013                  | 1.9                  | 270                    | 1.4                  | 229                    | 1.9                  | 172                    | 1.9                  | 95                     | 1.9                  | 309                    | 12.4            |
| Multifamily (2 or more units) ..            | 6.7                  | 744                    | 6.6                  | 126                    | 6.0                  | 203                    | 6.7                  | 139                    | 6.7                  | 105                    | 6.7                  | 197                    | 7.8             |
| <b>Heated Floorspace (square feet)</b>      |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Fewer than 1,000 .....                      | 10.9                 | 830                    | 10.6                 | 186                    | 8.4                  | 197                    | 10.8                 | 145                    | 10.9                 | 114                    | 10.9                 | 239                    | 4.8             |
| 1,000 to 1,999 .....                        | 14.8                 | 1,197                  | 14.7                 | 256                    | 12.9                 | 277                    | 14.8                 | 157                    | 14.8                 | 143                    | 14.8                 | 402                    | 3.4             |
| 2,000 or More .....                         | 6.6                  | 1,576                  | 6.6                  | 364                    | 5.9                  | 373                    | 6.6                  | 182                    | 6.6                  | 177                    | 6.6                  | 528                    | 7.4             |
| <b>Ownership of Unit</b>                    |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Owned .....                                 | 21.6                 | 1,277                  | 21.2                 | 290                    | 18.3                 | 295                    | 21.5                 | 161                    | 21.5                 | 152                    | 21.6                 | 430                    | 3.4             |
| Rented .....                                | 10.7                 | 897                    | 10.7                 | 185                    | 8.9                  | 228                    | 10.7                 | 153                    | 10.7                 | 115                    | 10.7                 | 258                    | 5.5             |
| <b>Year of Construction</b>                 |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1949 or Before .....                        | 6.0                  | 1,105                  | 5.9                  | 348                    | 4.3                  | 186                    | 6.0                  | 150                    | 6.0                  | 140                    | 6.0                  | 340                    | 6.7             |
| 1950 to 1979 .....                          | 18.6                 | 1,198                  | 18.5                 | 252                    | 15.9                 | 296                    | 18.8                 | 161                    | 18.8                 | 147                    | 18.8                 | 394                    | 3.5             |
| 1980 or After <sup>2</sup> .....            | 7.4                  | 1,071                  | 7.4                  | 188                    | 7.0                  | 274                    | 7.4                  | 158                    | 7.4                  | 123                    | 7.4                  | 346                    | 7.5             |
| <b>1990 Family Income</b>                   |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Less than \$10,000 .....                    | 6.4                  | 869                    | 6.3                  | 223                    | 4.4                  | 179                    | 6.4                  | 128                    | 6.3                  | 127                    | 6.4                  | 273                    | 6.7             |
| \$10,000 to \$19,999 .....                  | 7.0                  | 1,013                  | 6.9                  | 248                    | 5.6                  | 220                    | 7.0                  | 160                    | 7.0                  | 123                    | 7.0                  | 314                    | 5.2             |
| \$20,000 to \$34,999 .....                  | 8.3                  | 1,100                  | 8.1                  | 243                    | 7.2                  | 257                    | 8.3                  | 155                    | 8.3                  | 135                    | 8.3                  | 348                    | 4.2             |
| \$35,000 or More .....                      | 10.6                 | 1,452                  | 10.5                 | 288                    | 10.0                 | 355                    | 10.5                 | 178                    | 10.6                 | 163                    | 10.6                 | 491                    | 5.1             |
| <b>Below Poverty Line</b>                   |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 100 Percent .....                           | 5.5                  | 904                    | 5.5                  | 221                    | 3.6                  | 180                    | 5.5                  | 147                    | 5.5                  | 124                    | 5.5                  | 301                    | 7.5             |
| 125 Percent .....                           | 7.5                  | 931                    | 7.3                  | 222                    | 5.0                  | 191                    | 7.5                  | 152                    | 7.4                  | 124                    | 7.5                  | 313                    | 6.4             |
| <b>Age of Householder</b>                   |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 35 Years .....                        | 9.2                  | 1,019                  | 9.1                  | 203                    | 8.0                  | 252                    | 9.1                  | 162                    | 9.2                  | 116                    | 9.2                  | 321                    | 4.8             |
| 35 to 59 Years .....                        | 14.1                 | 1,304                  | 13.8                 | 267                    | 11.8                 | 324                    | 14.0                 | 181                    | 14.0                 | 152                    | 14.1                 | 438                    | 4.0             |
| 60 Years and Over .....                     | 9.1                  | 1,048                  | 8.9                  | 290                    | 7.4                  | 213                    | 9.1                  | 119                    | 9.0                  | 146                    | 9.1                  | 324                    | 4.8             |
| <b>Household Size</b>                       |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1 Person .....                              | 7.8                  | 799                    | 7.7                  | 218                    | 6.7                  | 180                    | 7.8                  | 96                     | 7.8                  | 127                    | 7.8                  | 209                    | 4.5             |
| 2 to 4 Persons .....                        | 21.0                 | 1,233                  | 20.6                 | 268                    | 17.7                 | 298                    | 20.9                 | 170                    | 20.9                 | 144                    | 21.0                 | 405                    | 2.4             |
| 5 or More Persons .....                     | 3.5                  | 1,447                  | 3.5                  | 261                    | 2.8                  | 336                    | 3.5                  | 228                    | 3.5                  | 147                    | 3.5                  | 545                    | 5.8             |

See footnotes at end of table.

Table 68. Expenditures by End Uses, per South Region Household, 1990 (Continued)

| Characteristics                                | All Uses             |                        | Space Heating        |                        | Air Conditioning     |                        | Water Heating        |                        | Refrigerator         |                        | Appliances           |                        | RSE Row Factors |
|--|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|-----------------|
|  | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) |                 |
| RSE Column Factors:                            | 1.3                  | 0.6                    | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     |                 |
| <b>South Atlantic Division</b> .....           | 16.6                 | 1,164                  | 16.3                 | 265                    | 13.9                 | 261                    | 16.5                 | 174                    | 16.6                 | 137                    | 16.6                 | 374                    | 3.6             |
| <b>Climate Zone<sup>1</sup></b>                |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 2,000 CDD and<br>Over 5,500 HDD .....    | Q                    | Q                      | Q                    | Q                      | Q                    | Q                      | Q                    | Q                      | Q                    | Q                      | Q                    | Q                      | NF              |
| Under 5,500 HDD .....                          | 11.1                 | 1,153                  | 11.0                 | 336                    | 9.1                  | 172                    | 11.1                 | 186                    | 11.1                 | 124                    | 11.1                 | 372                    | 5.3             |
| 2,000 CDD or More and<br>Under 4,000 HDD ..... | 5.4                  | 1,187                  | 5.2                  | 116                    | 4.7                  | 434                    | 5.4                  | 148                    | 5.4                  | 165                    | 5.4                  | 378                    | 6.7             |
| <b>Type of Housing Unit</b>                    |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Single-Family .....                            | 11.7                 | 1,309                  | 11.5                 | 305                    | 9.7                  | 292                    | 11.7                 | 183                    | 11.7                 | 152                    | 11.7                 | 433                    | 4.8             |
| Mobile Home .....                              | 1.1                  | 1,073                  | 1.1                  | 305                    | .8                   | 231                    | 1.1                  | 177                    | 1.1                  | 92                     | 1.1                  | 328                    | 18.9            |
| Multifamily (2 or more units) ..               | 3.8                  | 740                    | 3.7                  | 128                    | 3.5                  | 181                    | 3.7                  | 144                    | 3.8                  | 105                    | 3.8                  | 205                    | 11.1            |
| <b>Heated Floorspace<br/>(square feet)</b>     |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Fewer than 1,000 .....                         | 5.9                  | 848                    | 5.7                  | 188                    | 4.8                  | 192                    | 5.9                  | 154                    | 5.9                  | 112                    | 5.9                  | 247                    | 6.4             |
| 1,000 to 1,999 .....                           | 7.0                  | 1,190                  | 7.0                  | 267                    | 6.1                  | 259                    | 7.0                  | 174                    | 7.0                  | 137                    | 7.0                  | 392                    | 5.8             |
| 2,000 or More .....                            | 3.6                  | 1,633                  | 3.6                  | 385                    | 3.0                  | 374                    | 3.6                  | 206                    | 3.6                  | 179                    | 3.6                  | 548                    | 8.9             |
| <b>Ownership of Unit</b>                       |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Owned .....                                    | 10.8                 | 1,302                  | 10.6                 | 306                    | 9.1                  | 284                    | 10.8                 | 180                    | 10.8                 | 151                    | 10.8                 | 433                    | 4.9             |
| Rented .....                                   | 5.8                  | 903                    | 5.7                  | 189                    | 4.8                  | 217                    | 5.7                  | 162                    | 5.8                  | 112                    | 5.8                  | 263                    | 7.2             |
| <b>Year of Construction</b>                    |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1949 or Before .....                           | 3.0                  | 1,189                  | 2.9                  | 400                    | 2.1                  | 173                    | 3.0                  | 179                    | 3.0                  | 137                    | 3.0                  | 363                    | 9.0             |
| 1950 to 1979 .....                             | 8.9                  | 1,227                  | 8.7                  | 270                    | 7.5                  | 280                    | 8.9                  | 180                    | 8.9                  | 148                    | 8.9                  | 402                    | 5.0             |
| 1980 or After <sup>2</sup> .....               | 4.6                  | 1,026                  | 4.6                  | 170                    | 4.3                  | 271                    | 4.6                  | 159                    | 4.6                  | 118                    | 4.6                  | 327                    | 10.6            |
| <b>1990 Family Income</b>                      |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Less than \$10,000 .....                       | 2.7                  | 920                    | 2.6                  | 256                    | 2.0                  | 165                    | 2.7                  | 147                    | 2.7                  | 123                    | 2.7                  | 275                    | 10.8            |
| \$10,000 to \$19,999 .....                     | 3.6                  | 982                    | 3.5                  | 258                    | 2.7                  | 198                    | 3.6                  | 170                    | 3.6                  | 118                    | 3.6                  | 302                    | 7.5             |
| \$20,000 to \$34,999 .....                     | 4.3                  | 1,088                  | 4.2                  | 240                    | 3.6                  | 242                    | 4.3                  | 168                    | 4.3                  | 131                    | 4.3                  | 346                    | 5.8             |
| \$35,000 or More .....                         | 6.0                  | 1,437                  | 5.9                  | 291                    | 5.6                  | 337                    | 5.9                  | 192                    | 6.0                  | 160                    | 6.0                  | 482                    | 7.9             |
| <b>Below Poverty Line</b>                      |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 100 Percent .....                              | 2.0                  | 988                    | 2.0                  | 262                    | 1.3                  | 179                    | 2.0                  | 175                    | 2.0                  | 119                    | 2.0                  | 317                    | 14.3            |
| 125 Percent .....                              | 3.0                  | 988                    | 2.9                  | 252                    | 2.0                  | 180                    | 3.0                  | 178                    | 3.0                  | 121                    | 3.0                  | 324                    | 9.7             |
| <b>Age of Householder</b>                      |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 35 Years .....                           | 4.9                  | 1,003                  | 4.8                  | 198                    | 4.3                  | 242                    | 4.8                  | 171                    | 4.9                  | 109                    | 4.9                  | 314                    | 7.4             |
| 35 to 59 Years .....                           | 7.4                  | 1,332                  | 7.2                  | 289                    | 6.1                  | 317                    | 7.4                  | 198                    | 7.4                  | 153                    | 7.4                  | 443                    | 6.6             |
| 60 Years and Over .....                        | 4.3                  | 1,051                  | 4.2                  | 300                    | 3.5                  | 187                    | 4.3                  | 135                    | 4.3                  | 142                    | 4.3                  | 321                    | 7.9             |
| <b>Household Size</b>                          |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1 Person .....                                 | 4.2                  | 783                    | 4.1                  | 217                    | 3.6                  | 162                    | 4.2                  | 108                    | 4.2                  | 122                    | 4.2                  | 204                    | 7.2             |
| 2 to 4 Persons .....                           | 10.9                 | 1,265                  | 10.7                 | 278                    | 9.2                  | 294                    | 10.9                 | 187                    | 10.9                 | 144                    | 10.9                 | 415                    | 4.3             |
| 5 or More Persons .....                        | 1.5                  | 1,500                  | 1.4                  | 310                    | 1.2                  | 306                    | 1.5                  | 264                    | 1.5                  | 136                    | 1.5                  | 554                    | 9.4             |

See footnotes at end of table.

Table 68. Expenditures by End Uses, per South Region Household, 1990 (Continued)

| Characteristics                             | All Uses             |                        | Space Heating        |                        | Air Conditioning     |                        | Water Heating        |                        | Refrigerator         |                        | Appliances           |                        | RSE Row Factors |
|---|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|-----------------|
|   | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) |                 |
| RSE Column Factors:                         | 1.3                  | 0.6                    | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     |                 |
| <b>East South Central Division ..</b>       | 6.4                  | 974                    | 6.3                  | 265                    | 5.2                  | 182                    | 6.4                  | 149                    | 6.4                  | 113                    | 6.4                  | 307                    | 4.9             |
| <b>Climate Zone<sup>1</sup></b>             |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC              |
| Under 5,500 HDD .....                       | 5.1                  | 992                    | 5.0                  | 288                    | 4.1                  | 158                    | 5.1                  | 159                    | 5.1                  | 111                    | 5.1                  | 319                    | 10.2            |
| 2,000 CDD or More and Under 4,000 HDD ..... | Q                    | 907                    | Q                    | 177                    | Q                    | 269                    | Q                    | 113                    | Q                    | 118                    | Q                    | 261                    | 48.6            |
| <b>Type of Housing Unit</b>                 |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Single-Family .....                         | 4.7                  | 1,076                  | 4.5                  | 304                    | 3.8                  | 186                    | 4.7                  | 156                    | 4.6                  | 123                    | 4.7                  | 353                    | 7.2             |
| Mobile Home .....                           | .5                   | 924                    | .5                   | 258                    | .4                   | 160                    | .5                   | 182                    | .5                   | 86                     | .5                   | 279                    | 17.6            |
| Multifamily (2 or more units) ..            | 1.3                  | 624                    | 1.3                  | 130                    | 1.1                  | 176                    | 1.3                  | 114                    | 1.3                  | 87                     | 1.3                  | 149                    | 14.0            |
| <b>Heated Floorspace (square feet)</b>      |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Fewer than 1,000 .....                      | 2.4                  | 760                    | 2.3                  | 216                    | 1.8                  | 157                    | 2.4                  | 134                    | 2.3                  | 94                     | 2.4                  | 208                    | 8.6             |
| 1,000 to 1,999 .....                        | 2.5                  | 1,015                  | 2.5                  | 267                    | 2.1                  | 176                    | 2.5                  | 159                    | 2.5                  | 113                    | 2.5                  | 333                    | 5.8             |
| 2,000 or More .....                         | 1.6                  | 1,229                  | 1.5                  | 336                    | 1.4                  | 223                    | 1.6                  | 156                    | 1.6                  | 140                    | 1.6                  | 413                    | 17.4            |
| <b>Ownership of Unit</b>                    |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Owned .....                                 | 4.4                  | 1,064                  | 4.3                  | 302                    | 3.7                  | 185                    | 4.4                  | 153                    | 4.4                  | 119                    | 4.4                  | 349                    | 7.2             |
| Rented .....                                | 2.0                  | 774                    | 2.0                  | 186                    | 1.5                  | 176                    | 2.0                  | 141                    | 2.0                  | 99                     | 2.0                  | 212                    | 10.5            |
| <b>Year of Construction</b>                 |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1949 or Before .....                        | 1.4                  | 909                    | 1.4                  | 334                    | .9                   | 119                    | 1.4                  | 133                    | 1.4                  | 103                    | 1.4                  | 260                    | 11.2            |
| 1950 to 1979 .....                          | 3.7                  | 969                    | 3.6                  | 248                    | 3.1                  | 193                    | 3.7                  | 152                    | 3.7                  | 114                    | 3.7                  | 303                    | 8.0             |
| 1980 or After <sup>2</sup> .....            | 1.3                  | 1,065                  | 1.3                  | 241                    | 1.2                  | 205                    | 1.3                  | 158                    | 1.3                  | 118                    | 1.3                  | 367                    | 18.4            |
| <b>1990 Family Income</b>                   |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Less than \$10,000 .....                    | 1.6                  | 716                    | 1.6                  | 221                    | 1.0                  | 107                    | 1.6                  | 122                    | 1.6                  | 99                     | 1.6                  | 225                    | 9.9             |
| \$10,000 to \$19,999 .....                  | 1.5                  | 921                    | 1.4                  | 262                    | 1.2                  | 181                    | 1.5                  | 159                    | 1.5                  | 102                    | 1.5                  | 252                    | 9.6             |
| \$20,000 to \$34,999 .....                  | 1.6                  | 987                    | 1.5                  | 269                    | 1.4                  | 176                    | 1.6                  | 157                    | 1.6                  | 103                    | 1.6                  | 314                    | 7.2             |
| \$35,000 or More .....                      | 1.8                  | 1,250                  | 1.7                  | 305                    | 1.7                  | 233                    | 1.8                  | 160                    | 1.8                  | 144                    | 1.8                  | 423                    | 10.6            |
| <b>Below Poverty Line</b>                   |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 100 Percent .....                           | 1.3                  | 756                    | 1.3                  | 219                    | .8                   | 112                    | 1.3                  | 141                    | 1.3                  | 99                     | 1.3                  | 242                    | 10.9            |
| 125 Percent .....                           | 1.8                  | 772                    | 1.7                  | 223                    | 1.0                  | 118                    | 1.8                  | 140                    | 1.7                  | 100                    | 1.8                  | 252                    | 10.8            |
| <b>Age of Householder</b>                   |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 35 Years .....                        | 1.7                  | 930                    | 1.6                  | 236                    | 1.4                  | 185                    | 1.7                  | 154                    | 1.7                  | 99                     | 1.7                  | 287                    | 7.4             |
| 35 to 59 Years .....                        | 2.9                  | 1,079                  | 2.8                  | 257                    | 2.4                  | 213                    | 2.9                  | 169                    | 2.9                  | 124                    | 2.9                  | 356                    | 7.2             |
| 60 Years and Over .....                     | 1.9                  | 854                    | 1.8                  | 304                    | 1.4                  | 128                    | 1.9                  | 115                    | 1.9                  | 108                    | 1.9                  | 250                    | 7.7             |
| <b>Household Size</b>                       |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1 Person .....                              | 1.6                  | 685                    | 1.6                  | 236                    | 1.3                  | 136                    | 1.6                  | 85                     | 1.6                  | 96                     | 1.6                  | 164                    | 8.4             |
| 2 to 4 Persons .....                        | 4.3                  | 1,058                  | 4.2                  | 280                    | 3.5                  | 198                    | 4.3                  | 165                    | 4.2                  | 117                    | 4.3                  | 342                    | 6.0             |
| 5 or More Persons .....                     | .5                   | 1,193                  | .5                   | 236                    | .4                   | 202                    | .5                   | 222                    | .5                   | 132                    | .5                   | 466                    | 11.3            |

See footnotes at end of table.

Table 68. Expenditures by End Uses, per South Region Household, 1990 (Continued)

| Characteristics                        | All Uses             |                        | Space Heating        |                        | Air Conditioning     |                        | Water Heating        |                        | Refrigerator         |                        | Appliances           |                        | RSE Row Factors |
|--|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|-----------------|
|  | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) |                 |
|  | RSE Column Factors:  | 1.3                    | 0.6                  | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     |                 |
| <b>West South Central Division</b>     | 9.3                  | 1,251                  | 9.3                  | 231                    | 8.0                  | 352                    | 9.3                  | 137                    | 9.3                  | 163                    | 9.3                  | 416                    | 4.7             |
| <b>Climate Zone<sup>1</sup></b>        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 2,000 CDD and Over 5,500 HDD     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC                   | NC                     | NC              |
| Under 5,500 HDD                        | 1.3                  | 1,110                  | 1.3                  | 283                    | 1.0                  | 174                    | 1.3                  | 126                    | 1.3                  | 137                    | 1.3                  | 429                    | 18.5            |
| 2,000 CDD or More and Under 4,000 HDD  | 8.0                  | 1,273                  | 8.0                  | 222                    | 7.0                  | 377                    | 8.0                  | 139                    | 8.0                  | 168                    | 8.0                  | 414                    | 7.3             |
| <b>Type of Housing Unit</b>            |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Single-Family                          | 7.3                  | 1,355                  | 7.3                  | 259                    | 6.3                  | 371                    | 7.3                  | 135                    | 7.3                  | 175                    | 7.3                  | 466                    | 5.7             |
| Mobile Home                            | .3                   | 949                    | .3                   | 170                    | Q                    | Q                      | .3                   | 139                    | .3                   | 117                    | .3                   | 289                    | 27.5            |
| Multifamily (2 or more units)          | 1.6                  | 846                    | 1.6                  | 117                    | 1.5                  | 272                    | 1.6                  | 147                    | 1.6                  | 118                    | 1.6                  | 218                    | 14.9            |
| <b>Heated Floorspace (square feet)</b> |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Fewer than 1,000                       | 2.6                  | 854                    | 2.6                  | 156                    | 1.9                  | 247                    | 2.6                  | 137                    | 2.6                  | 134                    | 2.6                  | 249                    | 11.5            |
| 1,000 to 1,999                         | 5.2                  | 1,293                  | 5.2                  | 237                    | 4.7                  | 344                    | 5.2                  | 133                    | 5.2                  | 165                    | 5.2                  | 447                    | 5.2             |
| 2,000 or More                          | 1.5                  | 1,815                  | 1.5                  | 343                    | 1.4                  | 520                    | 1.5                  | 151                    | 1.5                  | 210                    | 1.5                  | 603                    | 12.0            |
| <b>Ownership of Unit</b>               |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Owned                                  | 6.3                  | 1,385                  | 6.3                  | 257                    | 5.5                  | 384                    | 6.3                  | 133                    | 6.3                  | 178                    | 6.3                  | 481                    | 7.3             |
| Rented                                 | 3.0                  | 968                    | 3.0                  | 176                    | 2.5                  | 281                    | 3.0                  | 145                    | 3.0                  | 133                    | 3.0                  | 279                    | 11.0            |
| <b>Year of Construction</b>            |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1949 or Before                         | 1.6                  | 1,119                  | 1.6                  | 266                    | 1.3                  | 257                    | 1.6                  | 113                    | 1.6                  | 176                    | 1.6                  | 366                    | 12.2            |
| 1950 to 1979                           | 6.2                  | 1,293                  | 6.2                  | 229                    | 5.4                  | 376                    | 6.2                  | 139                    | 6.2                  | 165                    | 6.2                  | 436                    | 5.1             |
| 1980 or After <sup>2</sup>             | 1.5                  | 1,220                  | 1.5                  | 199                    | 1.4                  | 344                    | 1.5                  | 155                    | 1.5                  | 144                    | 1.5                  | 388                    | 12.6            |
| <b>1990 Family Income</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Less than \$10,000                     | 2.1                  | 925                    | 2.1                  | 183                    | 1.5                  | 245                    | 2.1                  | 110                    | 2.1                  | 155                    | 2.1                  | 308                    | 11.0            |
| \$10,000 to \$19,999                   | 1.9                  | 1,141                  | 1.9                  | 221                    | 1.7                  | 281                    | 1.9                  | 142                    | 1.9                  | 147                    | 1.9                  | 385                    | 10.6            |
| \$20,000 to \$34,999                   | 2.4                  | 1,196                  | 2.4                  | 230                    | 2.2                  | 333                    | 2.4                  | 131                    | 2.4                  | 162                    | 2.4                  | 374                    | 8.6             |
| \$35,000 or More                       | 2.9                  | 1,607                  | 2.9                  | 272                    | 2.7                  | 468                    | 2.9                  | 158                    | 2.9                  | 182                    | 2.9                  | 550                    | 9.6             |
| <b>Below Poverty Line</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 100 Percent                            | 2.2                  | 917                    | 2.2                  | 184                    | 1.5                  | 217                    | 2.2                  | 123                    | 2.2                  | 143                    | 2.2                  | 321                    | 10.6            |
| 125 Percent                            | 2.7                  | 971                    | 2.7                  | 187                    | 1.9                  | 243                    | 2.7                  | 130                    | 2.6                  | 143                    | 2.7                  | 339                    | 10.4            |
| <b>Age of Householder</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 35 Years                         | 2.7                  | 1,101                  | 2.7                  | 191                    | 2.2                  | 315                    | 2.7                  | 151                    | 2.6                  | 139                    | 2.7                  | 356                    | 8.2             |
| 35 to 59 Years                         | 3.7                  | 1,419                  | 3.7                  | 232                    | 3.3                  | 416                    | 3.7                  | 157                    | 3.7                  | 171                    | 3.7                  | 489                    | 7.2             |
| 60 Years and Over                      | 2.9                  | 1,171                  | 2.9                  | 266                    | 2.5                  | 299                    | 2.9                  | 98                     | 2.9                  | 176                    | 2.9                  | 377                    | 7.5             |
| <b>Household Size</b>                  |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1 Person                               | 2.0                  | 926                    | 2.0                  | 205                    | 1.8                  | 248                    | 2.0                  | 82                     | 2.0                  | 162                    | 2.0                  | 257                    | 10.8            |
| 2 to 4 Persons                         | 5.8                  | 1,303                  | 5.8                  | 242                    | 5.0                  | 376                    | 5.8                  | 141                    | 5.8                  | 163                    | 5.8                  | 433                    | 5.1             |
| 5 or More Persons                      | 1.5                  | 1,487                  | 1.5                  | 221                    | 1.3                  | 403                    | 1.5                  | 194                    | 1.5                  | 165                    | 1.5                  | 564                    | 7.6             |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Consumption and Expenditure data are for major energy sources which include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).



Table 69. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in South Region Households, 1990

| Characteristics   | Electricity          |       |      |                |               |       | Natural Gas          |      |      |                |                      |    | RSE Row Factors |    |
|---|----------------------|-------|------|----------------|---------------|-------|----------------------|------|------|----------------|----------------------|----|-----------------|----|
|   | Households (million) |       |      | Total Consumed |               |       | Households (million) |      |      | Total Consumed |                      |    |                 |    |
|   | 0.8                  | NF    | NF   | (trillion Btu) | (billion kWh) | NF    | NF                   | NF   | NF   | (trillion Btu) | (billion cubic feet) | NF |                 | NF |
|   |                      |       |      |                |               |       |                      |      |      |                |                      |    |                 |    |
| South Region  |                      |       |      |                |               |       |                      |      |      |                |                      |    |                 |    |
| <b>Total Region</b> .....                                       | 18.1                 | 125.3 | 36.7 | 2.55           | 14.4          | 673.0 | 653                  | 3.85 | 8.0  |                |                      |    |                 |    |
| <b>Climate Zone<sup>1</sup></b>                                 |                      |       |      |                |               |       |                      |      |      |                |                      |    |                 |    |
| Under 2,000 HDD .....   | Q                    | Q     | Q    | Q              | NC            | NC    | NC                   | NC   | NF   | NC             | NC                   | NC | NF              |    |
| Over 5,500 HDD .....  | 9.2                  | 81.9  | 24.0 | 1.61           | 7.3           | 415.4 | 404                  | 2.37 | 15.1 |                |                      |    |                 |    |
| Under 5,500 HDD and 2,000 HDD or More and Under 4,000 HDD ..... | 8.9                  | 42.9  | 12.6 | .92            | 7.1           | 257.7 | 249                  | 1.48 | 12.4 |                |                      |    |                 |    |
| <b>Type of Housing Unit</b>                                     |                      |       |      |                |               |       |                      |      |      |                |                      |    |                 |    |
| Single-Family .....   | 12.7                 | 95.7  | 28.0 | 1.94           | 11.9          | 603.8 | 586                  | 3.45 | 9.3  |                |                      |    |                 |    |
| Mobile Home .....   | .9                   | 7.9   | 2.3  | .15            | .3            | 10.3  | 10                   | .07  | 34.9 |                |                      |    |                 |    |
| Multifamily (2 or more units) ..                                | 4.5                  | 21.7  | 6.4  | .46            | 2.2           | 59.0  | 57                   | .33  | 18.1 |                |                      |    |                 |    |
| <b>Heated Floorspace (square feet)</b>                          |                      |       |      |                |               |       |                      |      |      |                |                      |    |                 |    |
| Fewer than 1,000 .....  | 6.2                  | 31.6  | 9.3  | .64            | 3.8           | 125.3 | 122                  | .74  | 10.5 |                |                      |    |                 |    |
| 1,000 to 1,999 .....  | 7.9                  | 58.1  | 17.0 | 1.19           | 7.3           | 322.8 | 313                  | 1.82 | 10.1 |                |                      |    |                 |    |
| 2,000 or More .....   | 4.0                  | 35.6  | 10.4 | .72            | 3.4           | 224.9 | 218                  | 1.28 | 14.6 |                |                      |    |                 |    |
| <b>Ownership of Unit</b>  |                      |       |      |                |               |       |                      |      |      |                |                      |    |                 |    |
| Owned .....   | 11.6                 | 88.2  | 25.8 | 1.78           | 10.3          | 527.6 | 512                  | 3.01 | 10.1 |                |                      |    |                 |    |
| Rented .....  | 6.5                  | 37.1  | 10.9 | .77            | 4.1           | 145.4 | 141                  | .83  | 11.0 |                |                      |    |                 |    |
| <b>Year of Construction</b>                                     |                      |       |      |                |               |       |                      |      |      |                |                      |    |                 |    |
| 1949 or Before .....  | 2.3                  | 12.4  | 3.6  | .24            | 3.7           | 200.1 | 193                  | 1.17 | 15.2 |                |                      |    |                 |    |
| 1950 to 1979 .....  | 10.3                 | 72.8  | 21.3 | 1.47           | 9.3           | 413.4 | 402                  | 2.35 | 8.0  |                |                      |    |                 |    |
| 1980 or After <sup>2</sup> .....                                | 5.5                  | 40.1  | 11.7 | .83            | 1.4           | 59.6  | 58                   | .32  | 24.1 |                |                      |    |                 |    |
| <b>1990 Family Income</b>                                       |                      |       |      |                |               |       |                      |      |      |                |                      |    |                 |    |
| Less than \$10,000 .....  | 2.9                  | 16.8  | 4.9  | .33            | 3.0           | 110.5 | 107                  | .65  | 15.9 |                |                      |    |                 |    |
| \$10,000 to \$19,999 .....                                      | 3.7                  | 25.7  | 7.5  | .51            | 2.6           | 114.5 | 111                  | .67  | 12.2 |                |                      |    |                 |    |
| \$20,000 to \$34,999 .....                                      | 4.6                  | 28.6  | 8.4  | .59            | 3.9           | 186.1 | 180                  | 1.02 | 9.9  |                |                      |    |                 |    |
| \$35,000 or More .....  | 7.0                  | 54.1  | 15.9 | 1.13           | 4.9           | 262.0 | 255                  | 1.51 | 12.2 |                |                      |    |                 |    |
| <b>Below Poverty Line</b>                                       |                      |       |      |                |               |       |                      |      |      |                |                      |    |                 |    |
| 100 Percent .....   | 2.4                  | 14.6  | 4.3  | .29            | 2.7           | 94.2  | 91                   | .54  | 14.8 |                |                      |    |                 |    |
| 125 Percent .....   | 3.3                  | 21.4  | 6.3  | .42            | 3.4           | 126.1 | 122                  | .73  | 14.3 |                |                      |    |                 |    |
| <b>Age of Householder</b>                                       |                      |       |      |                |               |       |                      |      |      |                |                      |    |                 |    |
| Under 35 Years .....  | 5.3                  | 31.2  | 9.1  | .65            | 3.7           | 150.1 | 146                  | .83  | 11.7 |                |                      |    |                 |    |
| 35 to 59 Years .....  | 8.4                  | 64.4  | 18.9 | 1.30           | 6.1           | 283.5 | 275                  | 1.63 | 9.5  |                |                      |    |                 |    |
| 60 Years and Over .....   | 4.5                  | 29.7  | 8.7  | .59            | 4.6           | 239.4 | 232                  | 1.39 | 12.6 |                |                      |    |                 |    |
| <b>Household Size</b>   |                      |       |      |                |               |       |                      |      |      |                |                      |    |                 |    |
| 1 Person .....  | 4.5                  | 25.5  | 7.5  | .52            | 3.3           | 141.4 | 137                  | .84  | 13.6 |                |                      |    |                 |    |
| 2 to 4 Persons .....  | 11.8                 | 86.7  | 25.4 | 1.75           | 9.3           | 452.4 | 439                  | 2.56 | 8.2  |                |                      |    |                 |    |
| 5 or More Persons .....   | 1.8                  | 13.1  | 3.8  | .27            | 1.8           | 79.3  | 77                   | .44  | 13.9 |                |                      |    |                 |    |

See footnotes at end of table.

SPACE-HEATING CONSUMPTION/EXPENDITURES

Table 69. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in South Region Households, 1990 (Continued)

| Characteristics                             | Electricity          |                |               |                                      | Natural Gas          |                |                      |                                      | RSE Row Factors |
|---|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|-----------------|
|   | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                 |
|   |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |                 |
| RSE Column Factors:                         | 0.8                  | NF             | NF            | NF                                   | 0.9                  | NF             | NF                   | NF                                   |                 |
| <b>South Atlantic Division</b> .....        | 10.3                 | 65.1           | 19.1          | 1.41                                 | 5.0                  | 250.1          | 242                  | 1.68                                 | 14.7            |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q                    | Q              | Q             | Q                                    | NC                   | NC             | NC                   | NC                                   | NF              |
| Under 5,500 HDD and 2,000 CDD or More ..... | 5.9                  | 49.1           | 14.4          | 1.04                                 | 4.4                  | 237.9          | 230                  | 1.58                                 | 18.1            |
| Under 4,000 HDD .....                       | 4.3                  | 15.5           | 4.5           | .35                                  | Q                    | Q              | Q                    | Q                                    | 11.3            |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Single-Family .....                         | 7.3                  | 48.7           | 14.3          | 1.07                                 | 3.9                  | 222.4          | 215                  | 1.49                                 | 16.5            |
| Mobile Home .....                           | .4                   | Q              | Q             | Q                                    | Q                    | Q              | Q                    | Q                                    | 47.7            |
| Multifamily (2 or more units) ..            | 2.6                  | 12.2           | 3.6           | .27                                  | 1.0                  | 23.7           | 23                   | .16                                  | 21.1            |
| <b>Heated Floorspace (square feet)</b>      |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Fewer than 1,000 .....                      | 3.5                  | 17.3           | 5.1           | .37                                  | 1.4                  | 47.4           | 46                   | .33                                  | 14.5            |
| 1,000 to 1,999 .....                        | 4.4                  | 29.7           | 8.7           | .65                                  | 2.1                  | 102.1          | 99                   | .68                                  | 20.3            |
| 2,000 or More .....                         | 2.3                  | 18.0           | 5.3           | .40                                  | 1.4                  | 100.5          | 97                   | .68                                  | 21.4            |
| <b>Ownership of Unit</b>                    |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Owned .....                                 | 6.7                  | 46.3           | 13.6          | 1.00                                 | 3.3                  | 196.8          | 190                  | 1.32                                 | 17.7            |
| Rented .....                                | 3.6                  | 18.8           | 5.5           | .41                                  | 1.7                  | 53.3           | 52                   | .36                                  | 16.2            |
| <b>Year of Construction</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1949 or Before .....                        | 1.2                  | 4.9            | 1.4           | .10                                  | 1.4                  | 88.4           | 86                   | .59                                  | 23.6            |
| 1950 to 1979 .....                          | 5.2                  | 34.6           | 10.1          | .75                                  | 3.2                  | 148.2          | 143                  | 1.00                                 | 19.0            |
| 1980 or After <sup>2</sup> .....            | 3.9                  | 25.6           | 7.5           | .56                                  | .4                   | 13.5           | 13                   | .09                                  | 32.8            |
| <b>1990 Family Income</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Less than \$10,000 .....                    | 1.4                  | 8.9            | 2.6           | .18                                  | .7                   | 29.9           | 29                   | .20                                  | 30.7            |
| \$10,000 to \$19,999 .....                  | 2.1                  | 12.5           | 3.7           | .26                                  | .9                   | 38.9           | 38                   | .27                                  | 22.6            |
| \$20,000 to \$34,999 .....                  | 2.6                  | 14.5           | 4.2           | .32                                  | 1.4                  | 65.8           | 63                   | .44                                  | 17.1            |
| \$35,000 or More .....                      | 4.2                  | 29.2           | 8.5           | .65                                  | 2.0                  | 115.4          | 112                  | .77                                  | 17.3            |
| <b>Below Poverty Line</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 100 Percent .....                           | 1.1                  | 7.6            | 2.2           | .16                                  | .5                   | 18.5           | 18                   | .12                                  | 26.2            |
| 125 Percent .....                           | 1.7                  | 11.4           | 3.4           | .24                                  | .7                   | 29.3           | 28                   | .19                                  | 24.0            |
| <b>Age of Householder</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 35 Years .....                        | 3.0                  | 17.0           | 5.0           | .38                                  | 1.3                  | 47.6           | 46                   | .32                                  | 19.2            |
| 35 to 59 Years .....                        | 4.9                  | 35.0           | 10.2          | .76                                  | 2.3                  | 117.5          | 114                  | .78                                  | 14.6            |
| 60 Years and Over .....                     | 2.4                  | 13.1           | 3.8           | .28                                  | 1.4                  | 85.0           | 82                   | .58                                  | 27.3            |
| <b>Household Size</b>                       |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1 Person .....                              | 2.7                  | 15.4           | 4.5           | .33                                  | 1.2                  | 52.7           | 51                   | .37                                  | 24.3            |
| 2 to 4 Persons .....                        | 6.7                  | 43.5           | 12.8          | .95                                  | 3.3                  | 169.7          | 164                  | 1.13                                 | 14.3            |
| 5 or More Persons .....                     | .9                   | 6.2            | 1.8           | .13                                  | .5                   | 27.7           | 27                   | .18                                  | 20.6            |

See footnotes at end of table.

SOUTH

Table 69. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in South Region Households, 1990 (Continued)

| Characteristics                             | Electricity          |           |                |                |                   |     | Natural Gas          |           |                |                      |    |    | RSE Row Factors |
|---|----------------------|-----------|----------------|----------------|-------------------|-----|----------------------|-----------|----------------|----------------------|----|----|-----------------|
|   | Households (million) |           |                | Total Consumed |                   |     | Households (million) |           |                | Total Consumed       |    |    |                 |
|   | RSE Column Factors:  | (million) | (trillion Btu) | (billion kWh)  | (billion dollars) | NF  | NF                   | (million) | (trillion Btu) | (billion cubic feet) | NF | NF |                 |
|   |                      |           |                |                |                   |     |                      |           |                |                      |    |    |                 |
| <b>East South Central Division ..</b>       | 3.4                  | 33.6      | 9.8            | 0.57           | 146.1             | 141 | 0.70                 | 12.5      |                |                      |    |    |                 |
| <b>Climate Zone<sup>1</sup></b>             |                      |           |                |                |                   |     |                      |           |                |                      |    |    |                 |
| Under 2,000 HDD and Over 5,500 HDD .....    | NC                   | NC        | NC             | NC             | NC                | NC  | NC                   | NC        | NC             | NC                   | NC | NC |                 |
| Under 5,500 HDD .....                       | 2.9                  | 30.3      | 8.9            | .51            | 110.8             | 107 | .53                  | 23.4      |                |                      |    |    |                 |
| 2,000 HDD or More and Under 4,000 HDD ..... | Q                    | Q         | Q              | Q              | Q                 | Q   | Q                    | Q         | Q              | Q                    | Q  | NF |                 |
| <b>Type of Housing Unit</b>                 |                      |           |                |                |                   |     |                      |           |                |                      |    |    |                 |
| Single-Family .....                         | 2.3                  | 26.4      | 7.7            | .44            | 124.6             | 120 | .60                  | 18.0      |                |                      |    |    |                 |
| Mobile Home .....                           | .3                   | 2.8       | .8             | .05            | Q                 | Q   | Q                    | 24.9      |                |                      |    |    |                 |
| Multifamily (2 or more units) ..            | .8                   | 4.4       | 1.3            | .08            | 19.8              | 19  | .09                  | 26.2      |                |                      |    |    |                 |
| <b>Heated Floorspace (square feet)</b>      |                      |           |                |                |                   |     |                      |           |                |                      |    |    |                 |
| Fewer than 1,000 .....                      | 1.2                  | 8.4       | 2.5            | .14            | 35.4              | 34  | .17                  | 20.8      |                |                      |    |    |                 |
| 1,000 to 1,999 .....                        | 1.4                  | 15.2      | 4.5            | .26            | 50.5              | 49  | .25                  | 16.1      |                |                      |    |    |                 |
| 2,000 or More .....                         | .8                   | 10.0      | 2.9            | .17            | Q                 | Q   | .28                  | 22.6      |                |                      |    |    |                 |
| <b>Ownership of Unit</b>                    |                      |           |                |                |                   |     |                      |           |                |                      |    |    |                 |
| Owned .....                                 | 2.2                  | 24.3      | 7.1            | .41            | 112.6             | 109 | .54                  | 17.3      |                |                      |    |    |                 |
| Rented .....                                | 1.2                  | 9.2       | 2.7            | .16            | 33.5              | 32  | .17                  | 17.8      |                |                      |    |    |                 |
| <b>Year of Construction</b>                 |                      |           |                |                |                   |     |                      |           |                |                      |    |    |                 |
| 1949 or Before .....                        | .6                   | 3.6       | 1.0            | .06            | 50.7              | 48  | .24                  | 26.7      |                |                      |    |    |                 |
| 1950 to 1979 .....                          | 2.0                  | 21.7      | 6.3            | .37            | 66.6              | 64  | .33                  | 14.4      |                |                      |    |    |                 |
| 1980 or After <sup>2</sup> .....            | .8                   | 8.3       | 2.4            | .14            | Q                 | Q   | Q                    | 13.2      |                |                      |    |    |                 |
| <b>1990 Family Income</b>                   |                      |           |                |                |                   |     |                      |           |                |                      |    |    |                 |
| Less than \$10,000 .....                    | .8                   | 5.5       | 1.6            | .09            | 28.2              | 27  | .14                  | 18.9      |                |                      |    |    |                 |
| \$10,000 to \$19,999 .....                  | .9                   | 9.1       | 2.7            | .16            | 22.6              | 22  | .11                  | 16.0      |                |                      |    |    |                 |
| \$20,000 to \$34,999 .....                  | .8                   | 8.9       | 2.6            | .15            | 34.2              | 33  | .16                  | 11.5      |                |                      |    |    |                 |
| \$35,000 or More .....                      | .9                   | 9.9       | 2.9            | .17            | 61.1              | 59  | .30                  | 24.2      |                |                      |    |    |                 |
| <b>Below Poverty Line</b>                   |                      |           |                |                |                   |     |                      |           |                |                      |    |    |                 |
| 100 Percent .....                           | .7                   | 4.6       | 1.4            | .08            | 22.2              | 21  | .11                  | 21.7      |                |                      |    |    |                 |
| 125 Percent .....                           | .9                   | 6.5       | 1.9            | .11            | 29.3              | 28  | .14                  | 23.7      |                |                      |    |    |                 |
| <b>Age of Householder</b>                   |                      |           |                |                |                   |     |                      |           |                |                      |    |    |                 |
| Under 35 Years .....                        | .9                   | 7.8       | 2.3            | .14            | 36.4              | 35  | .18                  | 15.9      |                |                      |    |    |                 |
| 35 to 59 Years .....                        | 1.6                  | 16.0      | 4.7            | .27            | 65.5              | 63  | .32                  | 17.8      |                |                      |    |    |                 |
| 60 Years and Over .....                     | 1.0                  | 9.7       | 2.9            | .17            | 44.1              | 42  | .21                  | 17.8      |                |                      |    |    |                 |
| <b>Household Size</b>                       |                      |           |                |                |                   |     |                      |           |                |                      |    |    |                 |
| 1 Person .....                              | .9                   | 6.3       | 1.9            | .11            | 36.1              | 35  | .17                  | 17.9      |                |                      |    |    |                 |
| 2 to 4 Persons .....                        | 2.4                  | 25.5      | 7.5            | .43            | 96.0              | 93  | .47                  | 12.8      |                |                      |    |    |                 |
| 5 or More Persons .....                     | .1                   | 1.7       | .5             | .03            | 14.0              | 14  | .06                  | 28.3      |                |                      |    |    |                 |

See footnotes at end of table.

**Table 69. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in South Region Households, 1990 (Continued)**

| Characteristics                        | Electricity          |                |               |                                      |                      |                | Natural Gas          |                                      |    |      |      |  | RSE Row Factors |
|--|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|----|------|------|--|-----------------|
|  | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |    |      |      |  |                 |
|  |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |    |      |      |  |                 |
| RSE Column Factors:                    | 0.8                  | NF             | NF            | NF                                   | 0.9                  | NF             | NF                   | NF                                   | NF |      |      |  |                 |
| West South Central Division            | 4.4                  | 26.6           | 7.8           | 0.57                                 | 6.5                  | 276.9          | 270                  | 1.46                                 |    |      | 10.9 |  |                 |
| <b>Climate Zone<sup>1</sup></b>        |                      |                |               |                                      |                      |                |                      |                                      |    |      |      |  |                 |
| Under 2,000 CDD and Over 5,500 HDD     | NC                   | NC             | NC            | NC                                   | NC                   | NC             | NC                   | NC                                   | NC | NC   | NF   |  |                 |
| Under 5,500 HDD and 2,000 CDD or More  | Q                    | Q              | Q             | Q                                    | Q                    | Q              | Q                    | Q                                    | Q  | NF   |      |  |                 |
| Under 4,000 HDD                        | 4.0                  | 24.2           | 7.1           | .51                                  | 5.6                  | 210.3          | 203                  | 1.21                                 |    | 15.3 |      |  |                 |
| <b>Type of Housing Unit</b>            |                      |                |               |                                      |                      |                |                      |                                      |    |      |      |  |                 |
| Single-Family                          | 3.1                  | 20.6           | 6.0           | .43                                  | 5.8                  | 256.8          | 250                  | 1.36                                 |    | 11.8 |      |  |                 |
| Mobile Home                            | Q                    | Q              | Q             | Q                                    | Q                    | Q              | Q                    | Q                                    | Q  | NF   |      |  |                 |
| Multifamily (2 or more units)          | 1.2                  | 5.1            | 1.5           | .11                                  | .6                   | 15.5           | 15                   | .08                                  |    | 34.1 |      |  |                 |
| <b>Heated Floorspace (square feet)</b> |                      |                |               |                                      |                      |                |                      |                                      |    |      |      |  |                 |
| Fewer than 1,000                       | 1.5                  | 5.9            | 1.7           | .13                                  | 1.4                  | 42.6           | 42                   | .25                                  |    | 20.0 |      |  |                 |
| 1,000 to 1,999                         | 2.1                  | 13.2           | 3.9           | .28                                  | 4.1                  | 170.2          | 166                  | .89                                  |    | 11.6 |      |  |                 |
| 2,000 or More                          | .9                   | 7.6            | 2.2           | .15                                  | 1.0                  | 64.1           | 62                   | .33                                  |    | 19.8 |      |  |                 |
| <b>Ownership of Unit</b>               |                      |                |               |                                      |                      |                |                      |                                      |    |      |      |  |                 |
| Owned                                  | 2.7                  | 17.6           | 5.1           | .37                                  | 4.9                  | 218.2          | 213                  | 1.16                                 |    | 14.2 |      |  |                 |
| Rented                                 | 1.8                  | 9.1            | 2.7           | .20                                  | 1.6                  | 58.6           | 57                   | .31                                  |    | 19.5 |      |  |                 |
| <b>Year of Construction</b>            |                      |                |               |                                      |                      |                |                      |                                      |    |      |      |  |                 |
| 1949 or Before                         | .5                   | 3.9            | 1.2           | .08                                  | 1.5                  | 61.0           | 59                   | .35                                  |    | 23.0 |      |  |                 |
| 1950 to 1979                           | 3.1                  | 16.6           | 4.9           | .36                                  | 4.5                  | 198.6          | 194                  | 1.02                                 |    | 13.3 |      |  |                 |
| 1980 or After <sup>2</sup>             | .8                   | 6.1            | 1.8           | .13                                  | .5                   | 17.2           | 17                   | .10                                  |    | 28.2 |      |  |                 |
| <b>1990 Family Income</b>              |                      |                |               |                                      |                      |                |                      |                                      |    |      |      |  |                 |
| Less than \$10,000                     | .6                   | 2.3            | .7            | .05                                  | 1.8                  | 52.4           | 51                   | .31                                  |    | 26.6 |      |  |                 |
| \$10,000 to \$19,999                   | .8                   | 4.1            | 1.2           | .09                                  | 1.2                  | 53.0           | 51                   | .29                                  |    | 18.3 |      |  |                 |
| \$20,000 to \$34,999                   | 1.1                  | 5.2            | 1.5           | .12                                  | 1.8                  | 86.1           | 84                   | .43                                  |    | 17.2 |      |  |                 |
| \$35,000 or More                       | 1.9                  | 15.0           | 4.4           | .31                                  | 1.8                  | 85.4           | 83                   | .44                                  |    | 19.3 |      |  |                 |
| <b>Below Poverty Line</b>              |                      |                |               |                                      |                      |                |                      |                                      |    |      |      |  |                 |
| 100 Percent                            | .6                   | 2.4            | .7            | .05                                  | 1.8                  | 53.4           | 52                   | .31                                  |    | 26.0 |      |  |                 |
| 125 Percent                            | .8                   | 3.4            | 1.0           | .08                                  | 2.1                  | 67.5           | 66                   | .39                                  |    | 25.3 |      |  |                 |
| <b>Age of Householder</b>              |                      |                |               |                                      |                      |                |                      |                                      |    |      |      |  |                 |
| Under 35 Years                         | 1.4                  | 6.3            | 1.9           | .14                                  | 1.6                  | 66.1           | 65                   | .33                                  |    | 18.8 |      |  |                 |
| 35 to 59 Years                         | 1.9                  | 13.4           | 3.9           | .28                                  | 2.5                  | 100.5          | 98                   | .53                                  |    | 16.6 |      |  |                 |
| 60 Years and Over                      | 1.2                  | 6.9            | 2.0           | .15                                  | 2.4                  | 110.3          | 107                  | .60                                  |    | 9.2  |      |  |                 |
| <b>Household Size</b>                  |                      |                |               |                                      |                      |                |                      |                                      |    |      |      |  |                 |
| 1 Person                               | .9                   | 3.8            | 1.1           | .08                                  | 1.3                  | 52.6           | 51                   | .30                                  |    | 19.2 |      |  |                 |
| 2 to 4 Persons                         | 2.8                  | 17.7           | 5.2           | .37                                  | 4.2                  | 186.7          | 182                  | .96                                  |    | 13.6 |      |  |                 |
| 5 or More Persons                      | .7                   | 5.2            | 1.5           | .11                                  | 1.0                  | 37.6           | 37                   | .20                                  |    | 21.1 |      |  |                 |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, E, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**SOUTH**

**SPACE-HEATING CONSUMPTION/EXPENDITURES**

SPACE-HEATING CONSUMPTION/EXPENDITURES

SOUTH

Table 70. Total Fuel Oil, Kerosene, and LPG Consumption and Expenditures for Space Heating in South Region Households, 1990

| Characteristics                             | Fuel Oil             |                |                   |                                      | Kerosene             |                |                   |                                      | Liquefied Petroleum Gas |                |                   |                                      | RSE Row Factors |
|---|----------------------|----------------|-------------------|--------------------------------------|----------------------|----------------|-------------------|--------------------------------------|-------------------------|----------------|-------------------|--------------------------------------|-----------------|
|   | Households (million) | Total Consumed |                   | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                   | Total Expenditures (billion dollars) | Households (million)    | Total Consumed |                   | Total Expenditures (billion dollars) |                 |
|   |                      | (trillion Btu) | (billion gallons) |                                      |                      | (trillion Btu) | (billion gallons) |                                      |                         | (trillion Btu) | (billion gallons) |                                      |                 |
|   |                      |                |                   |                                      |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| 0.9   | NF                   | NF             | NF                | 0.6                                  | NF                   | NF             | NF                | 1.0                                  | NF                      | NF             | NF                |                                      |                 |
| <b>South Region</b>                         |                      |                |                   |                                      |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| <b>Total Region</b> .....                   | 1.7                  | 76.7           | 0.56              | 0.62                                 | 2.5                  | 34.1           | 0.25              | 0.32                                 | 2.6                     | 65.6           | 0.72              | 0.79                                 | 20.1            |
| South Atlantic Division .....               | 1.5                  | 71.1           | .52               | .58                                  | 1.8                  | 26.0           | .19               | .24                                  | 1.3                     | 30.8           | .34               | .40                                  | 25.2            |
| East South Central Division .....           | Q                    | Q              | Q                 | Q                                    | .6                   | 8.0            | .06               | .07                                  | .7                      | 23.0           | .25               | .27                                  | 28.5            |
| West South Central Division .....           | NC                   | NC             | NC                | NC                                   | Q                    | Q              | Q                 | Q                                    | Q                       | Q              | Q                 | Q                                    | NF              |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |                   |                                      |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                   | NC             | NC                | NC                                   | Q                    | Q              | Q                 | Q                                    | NC                      | NC             | NC                | NC                                   | NC              |
| Under 5,500 HDD .....                       | 1.6                  | 76.0           | .55               | .61                                  | 2.3                  | 29.8           | .22               | .27                                  | 1.6                     | 51.8           | .57               | .61                                  | 20.2            |
| 2,000 CDD or More and Under 4,000 HDD ..... | Q                    | Q              | Q                 | Q                                    | Q                    | Q              | Q                 | Q                                    | .9                      | 13.8           | .15               | .17                                  | 44.4            |
| <b>Type of Housing Unit</b>                 |                      |                |                   |                                      |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| Single-Family .....                         | 1.5                  | 68.3           | .50               | .55                                  | 2.0                  | 25.2           | .19               | .23                                  | 1.9                     | 51.1           | .56               | .61                                  | 19.4            |
| Mobile Home .....                           | Q                    | Q              | Q                 | Q                                    | .5                   | 8.9            | .07               | .09                                  | .7                      | 14.5           | .16               | .18                                  | 36.5            |
| Multifamily (2 or more units) .....         | Q                    | Q              | Q                 | Q                                    | Q                    | Q              | Q                 | Q                                    | NC                      | NC             | NC                | NC                                   | NF              |
| <b>Heated Floorspace (square feet)</b>      |                      |                |                   |                                      |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| Fewer than 1,000 .....                      | .4                   | 17.0           | .13               | .14                                  | 1.0                  | 21.6           | .16               | .21                                  | .9                      | 20.1           | .22               | .24                                  | 27.8            |
| 1,000 to 1,999 .....                        | .7                   | 28.1           | .20               | .23                                  | 1.1                  | 11.1           | .08               | .09                                  | 1.3                     | 34.7           | .38               | .42                                  | 26.3            |
| 2,000 or More .....                         | .5                   | 31.6           | .23               | .25                                  | .3                   | 1.4            | .01               | .01                                  | .4                      | 10.8           | .12               | .12                                  | 33.1            |
| <b>Ownership of Unit</b>                    |                      |                |                   |                                      |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| Owned .....                                 | 1.4                  | 56.5           | .41               | .46                                  | 1.8                  | 21.8           | .16               | .20                                  | 2.2                     | 57.6           | .63               | .70                                  | 21.8            |
| Rented .....                                | .3                   | 20.3           | .15               | .16                                  | .7                   | 12.3           | .09               | .12                                  | .4                      | 8.0            | .09               | .09                                  | 38.1            |
| <b>Year of Construction</b>                 |                      |                |                   |                                      |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| 1949 or Before .....                        | .6                   | 35.3           | .26               | .28                                  | .7                   | 14.8           | .11               | .14                                  | .5                      | 17.6           | .19               | .22                                  | 28.1            |
| 1950 to 1979 .....                          | 1.1                  | 40.2           | .29               | .33                                  | 1.4                  | 16.6           | .12               | .15                                  | 1.4                     | 30.4           | .33               | .37                                  | 24.1            |
| 1980 or After <sup>2</sup> .....            | Q                    | Q              | Q                 | Q                                    | .4                   | Q              | Q                 | Q                                    | .7                      | 17.6           | .19               | .19                                  | 39.8            |
| <b>1990 Family Income</b>                   |                      |                |                   |                                      |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| Less than \$10,000 .....                    | .4                   | 13.8           | .10               | .11                                  | .6                   | Q              | Q                 | Q                                    | .8                      | 20.2           | .22               | .24                                  | 25.6            |
| \$10,000 to \$19,999 .....                  | .5                   | 24.1           | .18               | .20                                  | .6                   | 10.7           | .08               | .10                                  | .7                      | 19.2           | .21               | .24                                  | 26.8            |
| \$20,000 to \$34,999 .....                  | .3                   | 15.0           | .11               | .12                                  | .8                   | 11.9           | .09               | .11                                  | .5                      | 11.2           | .12               | .14                                  | 28.6            |
| \$35,000 or More .....                      | .4                   | 23.9           | .17               | .19                                  | .5                   | 4.2            | .03               | .04                                  | .6                      | 15.0           | .16               | .17                                  | 36.9            |
| <b>Below Poverty Line</b>                   |                      |                |                   |                                      |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| 100 Percent .....                           | Q                    | Q              | Q                 | Q                                    | .5                   | 7.9            | .06               | .08                                  | .7                      | 19.2           | .21               | .23                                  | 34.0            |
| 125 Percent .....                           | .4                   | 13.8           | .10               | .11                                  | .7                   | 10.5           | .08               | .10                                  | .9                      | 21.5           | .24               | .25                                  | 35.0            |
| <b>Age of Householder</b>                   |                      |                |                   |                                      |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| Under 35 Years .....                        | Q                    | Q              | Q                 | Q                                    | .9                   | 9.3            | .07               | .09                                  | .6                      | 14.8           | .16               | .17                                  | 30.8            |
| 35 to 59 Years .....                        | .8                   | 36.2           | .26               | .29                                  | 1.1                  | 20.2           | .15               | .19                                  | 1.1                     | 23.3           | .26               | .28                                  | 26.3            |
| 60 Years and Over .....                     | .7                   | 28.7           | .21               | .23                                  | .5                   | 4.7            | .03               | .04                                  | .9                      | 27.5           | .30               | .34                                  | 26.6            |

See footnotes at end of table.

**Table 70. Total Fuel Oil, Kerosene, and LPG Consumption and Expenditures for Space Heating in South Region Households, 1990 (Continued)**

| Characteristics         | Fuel Oil             |                |                   |                                      | Kerosene             |                |                   |                                      | Liquefied Petroleum Gas |                |                   |                                      | RSE Row Factors |
|-------------------------|----------------------|----------------|-------------------|--------------------------------------|----------------------|----------------|-------------------|--------------------------------------|-------------------------|----------------|-------------------|--------------------------------------|-----------------|
|                         | Households (million) | Total Consumed |                   | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                   | Total Expenditures (billion dollars) | Households (million)    | Total Consumed |                   | Total Expenditures (billion dollars) |                 |
|                         |                      | (trillion Btu) | (billion gallons) |                                      |                      | (trillion Btu) | (billion gallons) |                                      |                         | (trillion Btu) | (billion gallons) |                                      |                 |
| RSE Column Factors:     | 0.9                  | NF             | NF                | NF                                   | 0.6                  | NF             | NF                | NF                                   | 1.0                     | NF             | NF                | NF                                   |                 |
| <b>South Region</b>     |                      |                |                   |                                      |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| <b>Household Size</b>   |                      |                |                   |                                      |                      |                |                   |                                      |                         |                |                   |                                      |                 |
| 1 Person .....          | Q                    | Q              | Q                 | Q                                    | 0.5                  | 5.1            | 0.04              | 0.05                                 | 0.6                     | 14.9           | 0.16              | 0.17                                 | 28.1            |
| 2 to 4 Persons .....    | 1.3                  | 59.4           | 0.43              | 0.48                                 | 1.6                  | 21.5           | .16               | .19                                  | 1.7                     | 44.6           | .49               | .54                                  | 24.4            |
| 5 or More Persons ..... | Q                    | Q              | Q                 | Q                                    | .4                   | 7.6            | .06               | .07                                  | .3                      | 6.2            | .07               | .07                                  | 38.2            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the South Atlantic, East South Central and West South Central Divisions are not presented separately due to a scarcity of data.

• To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 71. Electricity Consumption and Expenditures for Main Space Heating, per South Region Household, 1990

| Characteristics                                 | Households (million) |      | Consumption   |       | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |      | Electricity Space-Heating Intensity |      | RSE Row Factors |
|---|----------------------|------|---------------|-------|------------------------|---------------------------------|----------------------------|------|-------------------------------------|------|-----------------|
|   | 1.5                  | NF   | (million Btu) | (kWh) |                        |                                 | NF                         | 0.7  | 1.0                                 | 0.9  |                 |
|   |                      |      |               |       | 12.3                   | 9.0                             |                            |      |                                     |      |                 |
| South Region                                    |                      |      |               |       |                        |                                 |                            |      |                                     |      |                 |
| <b>Total Region</b> .....                       | 12.3                 | 9.0  | 2,626         | 181   | 1,375                  | 1,791                           | 2,431                      | 1.07 | 7.4                                 | 6.3  |                 |
| <b>Climate Zone<sup>1</sup></b>                 |                      |      |               |       |                        |                                 |                            |      |                                     |      |                 |
| Under 2,000 HDD and Over 5,500 HDD .....        | Q                    | Q    | Q             | Q     | Q                      | Q                               | Q                          | Q    | Q                                   | NF   |                 |
| Under 5,500 HDD .....                           | 5.8                  | 12.5 | 3,670         | 245   | 1,372                  | 2,797                           | 3,650                      | .96  | 6.4                                 | 7.3  |                 |
| 2,000 HDD or More and Under 4,000 HDD .....     | 6.5                  | 5.7  | 1,681         | 123   | 1,379                  | 871                             | 1,314                      | 1.40 | 10.2                                | 10.1 |                 |
| <b>Type of Housing Unit</b>                     |                      |      |               |       |                        |                                 |                            |      |                                     |      |                 |
| Single-Family .....                             | 7.4                  | 11.1 | 3,257         | 224   | 1,734                  | 1,669                           | 2,288                      | 1.13 | 7.7                                 | 7.0  |                 |
| Mobile Home .....                               | .6                   | 11.8 | 3,448         | 217   | 901                    | 2,788                           | 3,539                      | 1.37 | 8.6                                 | 13.5 |                 |
| Multifamily (2 or more units) ..                | 4.3                  | 4.8  | 1,412         | 102   | 823                    | 1,856                           | 2,512                      | .92  | 6.7                                 | 10.2 |                 |
| <b>Heated Floorspace (square feet)</b>          |                      |      |               |       |                        |                                 |                            |      |                                     |      |                 |
| Fewer than 1,000 .....                          | 4.9                  | 5.9  | 1,722         | 119   | 751                    | 1,835                           | 2,490                      | 1.25 | 8.6                                 | 7.7  |                 |
| 1,000 to 1,999 .....                            | 5.2                  | 10.0 | 2,917         | 202   | 1,417                  | 1,772                           | 2,405                      | 1.16 | 8.0                                 | 8.0  |                 |
| 2,000 or More .....                             | 2.2                  | 13.5 | 3,968         | 273   | 2,670                  | 1,738                           | 2,358                      | .86  | 5.9                                 | 8.4  |                 |
| <b>Ownership of Unit</b>                        |                      |      |               |       |                        |                                 |                            |      |                                     |      |                 |
| Owned .....                                     | 6.9                  | 11.0 | 3,217         | 220   | 1,735                  | 1,852                           | 2,509                      | 1.00 | 6.9                                 | 7.8  |                 |
| Rented .....                                    | 5.4                  | 6.4  | 1,879         | 132   | 920                    | 1,715                           | 2,331                      | 1.19 | 8.4                                 | 7.0  |                 |
| <b>Year of Construction</b>                     |                      |      |               |       |                        |                                 |                            |      |                                     |      |                 |
| 1949 or Before .....                            | .8                   | 11.8 | 3,446         | 224   | 1,208                  | 1,968                           | 2,536                      | 1.45 | 9.4                                 | 15.1 |                 |
| 1950 to 1979 .....                              | 6.4                  | 9.8  | 2,880         | 197   | 1,381                  | 1,654                           | 2,242                      | 1.26 | 8.6                                 | 6.9  |                 |
| 1980 or After <sup>2</sup> .....                | 5.1                  | 7.5  | 2,188         | 155   | 1,391                  | 1,937                           | 2,650                      | .81  | 5.8                                 | 10.0 |                 |
| <b>1990 Family Income</b>                       |                      |      |               |       |                        |                                 |                            |      |                                     |      |                 |
| Less than \$10,000 .....                        | 1.7                  | 8.4  | 2,474         | 161   | 923                    | 2,008                           | 2,670                      | 1.34 | 8.7                                 | 10.9 |                 |
| \$10,000 to \$19,999 .....                      | 2.7                  | 8.8  | 2,586         | 173   | 1,134                  | 1,927                           | 2,570                      | 1.18 | 7.9                                 | 8.8  |                 |
| \$20,000 to \$34,999 .....                      | 3.2                  | 7.9  | 2,313         | 160   | 1,274                  | 1,732                           | 2,363                      | 1.05 | 7.3                                 | 10.3 |                 |
| \$35,000 or More .....                          | 4.7                  | 9.9  | 2,915         | 207   | 1,744                  | 1,675                           | 2,309                      | 1.00 | 7.1                                 | 9.2  |                 |
| <b>Below Poverty Line</b>                       |                      |      |               |       |                        |                                 |                            |      |                                     |      |                 |
| 100 Percent .....                               | 1.4                  | 8.9  | 2,620         | 173   | 1,005                  | 1,977                           | 2,624                      | 1.32 | 8.7                                 | 10.8 |                 |
| 125 Percent .....                               | 2.1                  | 9.1  | 2,656         | 175   | 1,020                  | 1,952                           | 2,595                      | 1.33 | 8.8                                 | 9.5  |                 |
| <b>Age of Householder</b>                       |                      |      |               |       |                        |                                 |                            |      |                                     |      |                 |
| Under 35 Years .....                            | 4.1                  | 6.9  | 2,021         | 144   | 1,059                  | 1,843                           | 2,493                      | 1.04 | 7.4                                 | 9.8  |                 |
| 35 to 59 Years .....                            | 5.5                  | 10.2 | 2,979         | 204   | 1,657                  | 1,732                           | 2,360                      | 1.04 | 7.1                                 | 7.4  |                 |
| 60 Years and Over .....                         | 2.6                  | 9.7  | 2,840         | 192   | 1,277                  | 1,835                           | 2,481                      | 1.21 | 8.2                                 | 10.2 |                 |
| <b>Household Size</b>                           |                      |      |               |       |                        |                                 |                            |      |                                     |      |                 |
| 1 Person .....                                  | 3.3                  | 7.1  | 2,067         | 144   | 985                    | 1,927                           | 2,611                      | 1.09 | 7.6                                 | 9.6  |                 |
| 2 to 4 Persons .....                            | 7.8                  | 9.7  | 2,837         | 195   | 1,505                  | 1,788                           | 2,424                      | 1.05 | 7.2                                 | 7.5  |                 |
| 5 or More Persons .....                         | 1.1                  | 9.6  | 2,813         | 196   | 1,619                  | 1,419                           | 1,949                      | 1.22 | 8.5                                 | 10.7 |                 |
| <b>Main Heating Equipment Using Electricity</b> |                      |      |               |       |                        |                                 |                            |      |                                     |      |                 |
| Central Warm-Air Furnace .....                  | 5.2                  | 7.3  | 2,153         | 149   | 1,265                  | 1,415                           | 1,944                      | 1.20 | 8.3                                 | 9.6  |                 |
| Built-in Electric Units .....                   | 1.7                  | 12.6 | 3,682         | 240   | 1,187                  | 2,551                           | 3,317                      | 1.22 | 7.9                                 | 9.9  |                 |
| Heat Pump .....                                 | 4.8                  | 9.5  | 2,785         | 197   | 1,595                  | 2,004                           | 2,742                      | .87  | 6.2                                 | 8.4  |                 |
| Other .....                                     | .6                   | 8.4  | 2,472         | 167   | 1,099                  | 1,181                           | 1,622                      | 1.91 | 12.9                                | 25.2 |                 |

See footnotes at end of table.

SPACE-HEATING CONSUMPTION/EXPENDITURES

Table 71. Electricity Consumption and Expenditures for Main Space Heating, per South Region Household, 1990 (Continued)

| Characteristics   | Households (million) | Consumption   |       | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Electricity Space-Heating Intensity     |  | RSE Row Factors |
|---|----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|---|--|-----------------|
|   |                      | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/HDD* 1000 square feet) | Expenditures (cents/HDD* 1000 square feet) |                 |
| RSE Column Factors:   | 1.5                  | NF            | NF    | NF                     | 0.7                             | 1.0                        | 0.9                          | NF                                      | NF   |                 |
| South Region  |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| <b>Age of Main Heating Equipment</b>  |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Less than 5 Years .....   | 28                   | 9.1           | 2,681 | 190                    | 1,580                           | 1,803                      | 2,457                        | 0.94                                    | 6.7  | 9.8             |
| 5 to 9 Years .....  | 3.5                  | 7.2           | 2,124 | 154                    | 1,388                           | 1,726                      | 2,396                        | .89                                     | 6.4  | 10.7            |
| 10 to 19 Years .....  | 3.2                  | 10.4          | 3,045 | 205                    | 1,421                           | 1,808                      | 2,426                        | 1.18                                    | 8.0  | 8.0             |
| 20 Years or More .....  | 1.2                  | 12.8          | 3,741 | 240                    | 1,207                           | 2,330                      | 3,034                        | 1.33                                    | 8.5  | 10.2            |
| Don't Know .....  | 1.7                  | 6.7           | 1,975 | 134                    | 1,027                           | 1,490                      | 2,036                        | 1.29                                    | 8.7  | 15.3            |
| <b>Secondary Heating Fuel (more than one may apply)</b>                     |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| No .....  | 7.4                  | 6.8           | 1,986 | 137                    | 1,105                           | 1,598                      | 2,204                        | 1.12                                    | 7.7  | 7.8             |
| Yes .....   | 4.9                  | 12.3          | 3,593 | 249                    | 1,792                           | 2,084                      | 2,774                        | .97                                     | 6.1  | 7.9             |
| Wood .....  | 3.3                  | 12.4          | 3,637 | 254                    | 1,982                           | 2,136                      | 2,844                        | .87                                     | 6.7  | 9.6             |
| Electricity .....   | .7                   | 9.7           | 2,829 | 197                    | 1,305                           | 1,751                      | 2,342                        | 1.24                                    | 8.6  | 18.6            |
| Natural Gas .....   | .3                   | 13.0          | 3,811 | 266                    | 1,743                           | 1,500                      | 1,998                        | 1.46                                    | 10.2                                       | 15.0            |
| Kerosene .....  | .7                   | 14.6          | 4,268 | 286                    | 1,420                           | 2,512                      | 3,333                        | 1.20                                    | 8.0  | 6.9             |
| Other .....   | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| <b>Average Electricity Expenditures for Main Space Heat (cents per kWh)</b> |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Less than 6 .....   | 2.0                  | 16.1          | 4,713 | 259                    | 1,419                           | 3,036                      | 3,797                        | 1.09                                    | 6.0  | 10.7            |
| 6 to Less than 9 .....  | 9.9                  | 7.8           | 2,276 | 170                    | 1,378                           | 1,572                      | 2,190                        | 1.05                                    | 7.8  | 7.4             |
| 9 or More .....   | .4                   | Q             | Q     | Q                      | 1,071                           | Q                          | Q                            | Q                                       | Q  | 26.6            |
| <b>Winter Temperature Inside Housing Unit</b>                               |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Prefer .....  | 10.2                 | 8.4           | 2,459 | 170                    | 1,397                           | 1,692                      | 2,313                        | 1.09                                    | 7.5  | 5.8             |
| Usual Temperature .....   | 2.0                  | 11.8          | 3,467 | 238                    | 1,563                           | 2,358                      | 3,095                        | .94                                     | 6.4  | 13.4            |
| Warmer Temperature .....  | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| Cooler Temperature .....  |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| <b>Adequacy of Insulation</b>   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Well Insulated .....  | 4.9                  | 9.7           | 2,836 | 191                    | 1,522                           | 1,846                      | 2,505                        | 1.01                                    | 6.8  | 6.7             |
| Adequately Insulated .....  | 5.4                  | 8.2           | 2,399 | 168                    | 1,341                           | 1,732                      | 2,367                        | 1.03                                    | 7.2  | 9.8             |
| Poorly Insulated .....  | 1.7                  | 9.5           | 2,782 | 198                    | 1,113                           | 1,813                      | 2,418                        | 1.38                                    | 9.8  | 10.1            |
| Don't Know .....  | .3                   | 8.1           | 2,369 | 159                    | 1,068                           | 1,827                      | 2,425                        | Q                                       | Q  | 28.4            |

See footnotes at end of table.

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Table 71. Electricity Consumption and Expenditures for Main Space Heating, per South Region Household, 1990 (Continued)

| Characteristics                             | Households (million) | Consumption   |       | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Electricity Space-Heating Intensity     |  | RSE Row Factors |
|---|----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|---|--|-----------------|
|   |                      | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/HDD* 1000 square feet) | Expenditures (cents/HDD* 1000 square feet) |                 |
|   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| RSE Column Factors:                         |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| South Atlantic Division .....               | 7.9                  | 7.4           | 2,179 | 161                    | 1,363                           | 1,606                      | 2,269                        | 1.00                                    | 7.3  | 9.5             |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| Under 5,500 HDD .....                       | 3.9                  | 11.2          | 3,272 | 237                    | 1,325                           | 2,752                      | 3,643                        | .90                                     | 6.5  | 9.2             |
| 2,000 CDD or More and Under 4,000 HDD ..... | 3.9                  | 3.6           | 1,061 | 83                     | 1,406                           | 420                        | 849                          | 1.80                                    | 14.0                                       | 19.7            |
| <b>Type of Housing Unit</b>                 |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Single-Family .....                         | 5.1                  | 8.5           | 2,492 | 185                    | 1,641                           | 1,415                      | 2,042                        | 1.07                                    | 8.0  | 9.9             |
| Mobile Home .....                           | Q                    | 13.7          | 4,024 | 249                    | 888                             | 3,477                      | 4,271                        | 1.30                                    | 8.1  | 22.0            |
| Multifamily (2 or more units) ..            | 2.5                  | 4.6           | 1,342 | 102                    | 863                             | 1,771                      | 2,492                        | .88                                     | 6.7  | 17.2            |
| <b>Heated Floorspace (square feet)</b>      |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Fewer than 1,000 .....                      | 3.1                  | 5.4           | 1,579 | 113                    | 777                             | 1,680                      | 2,374                        | 1.21                                    | 8.7  | 11.4            |
| 1,000 to 1,999 .....                        | 3.5                  | 8.0           | 2,337 | 174                    | 1,426                           | 1,606                      | 2,254                        | 1.02                                    | 7.6  | 12.4            |
| 2,000 or More .....                         | 1.4                  | 10.6          | 3,119 | 233                    | 2,509                           | 1,438                      | 2,073                        | .86                                     | 6.5  | 12.3            |
| <b>Ownership of Unit</b>                    |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Owned .....                                 | 4.7                  | 8.7           | 2,558 | 188                    | 1,669                           | 1,668                      | 2,339                        | .92                                     | 6.8  | 11.6            |
| Rented .....                                | 3.3                  | 5.6           | 1,637 | 122                    | 925                             | 1,516                      | 2,169                        | 1.17                                    | 8.7  | 11.2            |
| <b>Year of Construction</b>                 |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 1949 or Before .....                        | .4                   | 7.8           | 2,300 | 153                    | 1,173                           | 1,433                      | 1,945                        | 1.37                                    | 9.1  | 28.4            |
| 1950 to 1979 .....                          | 3.7                  | 8.3           | 2,422 | 178                    | 1,404                           | 1,382                      | 1,988                        | 1.25                                    | 9.2  | 10.3            |
| 1980 or After <sup>2</sup> .....            | 3.8                  | 6.6           | 1,934 | 145                    | 1,344                           | 1,838                      | 2,573                        | .78                                     | 5.9  | 13.0            |
| <b>1990 Family Income</b>                   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Less than \$10,000 .....                    | 1.1                  | 7.6           | 2,223 | 152                    | 1,020                           | 1,781                      | 2,450                        | 1.22                                    | 8.4  | 19.0            |
| \$10,000 to \$19,999 .....                  | 1.7                  | 7.2           | 2,098 | 148                    | 1,121                           | 1,684                      | 2,341                        | 1.11                                    | 7.8  | 13.4            |
| \$20,000 to \$34,999 .....                  | 2.0                  | 6.4           | 1,872 | 140                    | 1,194                           | 1,505                      | 2,168                        | 1.04                                    | 7.8  | 12.8            |
| \$35,000 or More .....                      | 3.2                  | 8.2           | 2,402 | 184                    | 1,717                           | 1,568                      | 2,233                        | .89                                     | 6.8  | 14.2            |
| <b>Below Poverty Line</b>                   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 100 Percent .....                           | .9                   | 7.9           | 2,323 | 165                    | 1,090                           | 1,725                      | 2,380                        | 1.23                                    | 8.8  | 18.3            |
| 125 Percent .....                           | 1.3                  | 8.1           | 2,374 | 166                    | 1,119                           | 1,727                      | 2,377                        | 1.23                                    | 8.6  | 15.1            |
| <b>Age of Householder</b>                   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 35 Years .....                        | 2.7                  | 6.1           | 1,786 | 134                    | 1,081                           | 1,719                      | 2,408                        | .96                                     | 7.2  | 15.0            |
| 35 to 59 Years .....                        | 3.6                  | 8.7           | 2,536 | 187                    | 1,709                           | 1,530                      | 2,172                        | .97                                     | 7.2  | 10.4            |
| 60 Years and Over .....                     | 1.6                  | 7.0           | 2,051 | 147                    | 1,073                           | 1,583                      | 2,250                        | 1.21                                    | 8.6  | 17.7            |
| <b>Household Size</b>                       |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 1 Person .....                              | 2.2                  | 6.5           | 1,901 | 138                    | 1,023                           | 1,829                      | 2,560                        | 1.02                                    | 7.4  | 13.7            |
| 2 to 4 Persons .....                        | 5.0                  | 7.8           | 2,278 | 169                    | 1,479                           | 1,547                      | 2,195                        | 1.00                                    | 7.4  | 11.5            |
| 5 or More Persons .....                     | .7                   | 8.0           | 2,346 | 171                    | 1,602                           | 1,322                      | 1,881                        | 1.11                                    | 8.1  | 15.7            |

See footnotes at end of table.

## SPACE-HEATING CONSUMPTION/EXPENDITURES

**Table 71. Electricity Consumption and Expenditures for Main Space Heating, per South Region Household, 1990 (Continued)**

| Characteristics                        | Households (million) | Consumption   |              |            | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              |                             | Electricity Space-Heating Intensity |      | RSE Pow. Factors |
|--|----------------------|---------------|--------------|------------|------------------------|---------------------------------|----------------------------|------------------------------|-----------------------------|-------------------------------------|------|------------------|
|  |                      | (million Btu) | (kWh)        | (NF)       |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | (kWh/HDD* 1000 square feet) | (cents/HDD* 1000 square feet)       | (NF) |                  |
| RSE Column Factors:                    | 1.5                  | NF            | NF           | NF         | NF                     | 0.7                             | 1.0                        | 0.9                          | NF                          | NF                                  |      |                  |
| <b>East South Central Division ..</b>  | <b>2.1</b>           | <b>14.5</b>   | <b>4,259</b> | <b>246</b> | <b>1,377</b>           | <b>2,749</b>                    | <b>3,513</b>               | <b>1.12</b>                  | <b>6.5</b>                  | <b>7.3</b>                          |      |                  |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |              |            |                        |                                 |                            |                              |                             |                                     |      |                  |
| Under 2,000 CDD and                    | NC                   | NC            | NC           | NC         | NC                     | NC                              | NC                         | NC                           | NC                          | NC                                  |      |                  |
| Over 5,500 HDD .....                   | 1.8                  | 15.4          | 4,527        | 260        | 1,457                  | 2,871                           | 3,657                      | 1.08                         | 6.2                         | 10.2                                |      |                  |
| Under 5,500 HDD .....                  |                      |               |              |            |                        |                                 |                            |                              |                             |                                     |      |                  |
| 2,000 CDD or More and                  | Q                    | Q             | Q            | Q          | 912                    | 2,037                           | 2,666                      | 1.45                         | 8.8                         | 49.2                                |      |                  |
| Under 4,000 HDD .....                  |                      |               |              |            |                        |                                 |                            |                              |                             |                                     |      |                  |
| <b>Type of Housing Unit</b>            |                      |               |              |            |                        |                                 |                            |                              |                             |                                     |      |                  |
| Single-Family .....                    | 1.2                  | 20.0          | 5,853        | 335        | 1,857                  | 2,904                           | 3,673                      | 1.08                         | 6.2                         | 7.9                                 |      |                  |
| Mobile Home .....                      | .2                   | 12.1          | 3,556        | 214        | 891                    | 2,823                           | 3,711                      | 1.41                         | 8.5                         | 10.9                                |      |                  |
| Multifamily (2 or more units) ..       | .7                   | 6.0           | 1,764        | 104        | 711                    | 2,462                           | 3,178                      | 1.01                         | 5.9                         | 9.6                                 |      |                  |
| <b>Heated Floorspace (square feet)</b> |                      |               |              |            |                        |                                 |                            |                              |                             |                                     |      |                  |
| More than 1,000 .....                  | .9                   | 8.7           | 2,542        | 148        | 669                    | 2,559                           | 3,291                      | 1.48                         | 8.6                         | 9.5                                 |      |                  |
| 1,000 to 1,999 .....                   | .8                   | 17.1          | 5,014        | 287        | 1,355                  | 2,811                           | 3,583                      | 1.32                         | 7.5                         | 6.7                                 |      |                  |
| 2,000 or More .....                    | .4                   | 22.4          | 6,560        | 382        | 2,995                  | 3,049                           | 3,864                      | .72                          | 4.2                         | 10.1                                |      |                  |
| <b>Ownership of Unit</b>               |                      |               |              |            |                        |                                 |                            |                              |                             |                                     |      |                  |
| Owned .....                            | 1.1                  | 18.7          | 5,476        | 313        | 1,815                  | 2,957                           | 3,768                      | 1.02                         | 5.8                         | 8.5                                 |      |                  |
| Rented .....                           | .9                   | 9.3           | 2,798        | 162        | 830                    | 2,490                           | 3,193                      | 1.32                         | 7.8                         | 8.3                                 |      |                  |
| <b>Year of Construction</b>            |                      |               |              |            |                        |                                 |                            |                              |                             |                                     |      |                  |
| 1949 or Before .....                   | .2                   | 14.4          | 4,228        | 245        | 1,103                  | 2,803                           | 3,527                      | 1.37                         | 7.9                         | 20.8                                |      |                  |
| 1950 to 1979 .....                     | 1.2                  | 15.9          | 4,671        | 266        | 1,278                  | 2,671                           | 3,403                      | 1.37                         | 7.9                         | 8.3                                 |      |                  |
| 1980 or After <sup>2</sup> .....       | .6                   | 11.9          | 3,473        | 203        | 1,651                  | 2,884                           | 3,721                      | .73                          | 4.3                         | 12.6                                |      |                  |
| <b>1990 Family Income</b>              |                      |               |              |            |                        |                                 |                            |                              |                             |                                     |      |                  |
| Less than \$10,000 .....               | .4                   | 11.1          | 3,259        | 182        | 736                    | 2,680                           | 3,431                      | 1.65                         | 9.2                         | 8.9                                 |      |                  |
| \$10,000 to \$19,999 .....             | .6                   | 14.3          | 4,185        | 245        | 1,160                  | 2,655                           | 3,390                      | 1.36                         | 7.9                         | 11.3                                |      |                  |
| \$20,000 to \$34,999 .....             | .5                   | 15.7          | 4,599        | 267        | 1,912                  | 2,884                           | 3,635                      | .83                          | 4.8                         | 13.3                                |      |                  |
| \$35,000 or More .....                 | .5                   | 16.5          | 4,850        | 279        | 1,623                  | 2,778                           | 3,594                      | 1.07                         | 6.2                         | 7.9                                 |      |                  |
| <b>Below Poverty Line</b>              |                      |               |              |            |                        |                                 |                            |                              |                             |                                     |      |                  |
| 100 Percent .....                      | .3                   | 11.9          | 3,490        | 190        | 828                    | 2,666                           | 3,397                      | 1.58                         | 8.6                         | 12.0                                |      |                  |
| 125 Percent .....                      | .5                   | 12.5          | 3,654        | 202        | 819                    | 2,693                           | 3,433                      | 1.66                         | 9.2                         | 9.9                                 |      |                  |
| <b>Age of Householder</b>              |                      |               |              |            |                        |                                 |                            |                              |                             |                                     |      |                  |
| Under 35 Years .....                   | .6                   | 11.6          | 3,369        | 202        | 1,125                  | 2,604                           | 3,350                      | 1.16                         | 6.9                         | 10.7                                |      |                  |
| 35 to 59 Years .....                   | 1.0                  | 14.8          | 4,338        | 246        | 1,447                  | 2,747                           | 3,510                      | 1.09                         | 6.2                         | 8.8                                 |      |                  |
| 60 Years and Over .....                | .5                   | 17.5          | 5,133        | 297        | 1,541                  | 2,924                           | 3,710                      | 1.14                         | 6.6                         | 13.0                                |      |                  |
| <b>Household Size</b>                  |                      |               |              |            |                        |                                 |                            |                              |                             |                                     |      |                  |
| 1 Person .....                         | .6                   | 10.6          | 3,104        | 182        | 933                    | 2,732                           | 3,496                      | 1.22                         | 7.1                         | 13.3                                |      |                  |
| 2 to 4 Persons .....                   | 1.4                  | 16.0          | 4,702        | 271        | 1,540                  | 2,759                           | 3,525                      | 1.11                         | 6.4                         | 8.4                                 |      |                  |
| 5 or More Persons .....                | Q                    | Q             | Q            | Q          | Q                      | Q                               | Q                          | Q                            | Q                           | NF                                  |      |                  |

See footnotes at end of table.

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Table 71. Electricity Consumption and Expenditures for Main Space Heating, per South Region Household, 1990 (Continued)

| Characteristics                        | Households (million) | Consumption   |       | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Electricity Space-Heating Intensity     |  | RSE Row Factors |
|--|----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|---|--|-----------------|
|  |                      | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/HDD* 1000 square feet) | Expenditures (cents/HDD* 1000 square feet) |                 |
| RSE Column Factors:                    | 1.5                  | NF            | NF    | NF                     | 0.7                             | 1.0                        | 0.9                          | NF                                      | NF   |                 |
| <b>West South Central Division</b>     | 2.3                  | 9.2           | 2,691 | 192                    | 1,411                           | 1,571                      | 2,018                        | 1.21                                    | 8.7  | 14.2            |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 2,000 CDD and Over 5,500 HDD     | NC                   | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                      | NC   | NC              |
| Under 5,500 HDD                        | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| 2,000 CDD or More and Under 4,000 HDD  | 2.2                  | 9.0           | 2,626 | 187                    | 1,396                           | 1,500                      | 1,945                        | 1.25                                    | 8.9  | 13.2            |
| <b>Type of Housing Unit</b>            |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Single-Family                          | 1.2                  | 13.6          | 3,994 | 281                    | 2,018                           | 1,530                      | 1,966                        | 1.29                                    | 9.1  | 13.8            |
| Mobile Home                            | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| Multifamily (2 or more units)          | 1.0                  | 4.6           | 1,350 | 101                    | 802                             | 1,664                      | 2,126                        | 1.01                                    | 7.6  | 17.8            |
| <b>Heated Floorspace (square feet)</b> |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Fewer than 1,000                       | 1.0                  | 4.9           | 1,436 | 109                    | 743                             | 1,672                      | 2,136                        | 1.16                                    | 8.8  | 21.3            |
| 1,000 to 1,999                         | .9                   | 11.2          | 3,297 | 233                    | 1,438                           | 1,498                      | 1,952                        | 1.53                                    | 10.8                                       | 7.9             |
| 2,000 or More                          | .4                   | 14.7          | 4,297 | 298                    | 2,886                           | 1,491                      | 1,887                        | 1.00                                    | 6.9  | 17.8            |
| <b>Ownership of Unit</b>               |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Owned                                  | 1.1                  | 12.5          | 3,658 | 259                    | 1,934                           | 1,461                      | 1,897                        | 1.29                                    | 9.2  | 18.0            |
| Rented                                 | 1.3                  | 6.4           | 1,876 | 136                    | 970                             | 1,663                      | 2,121                        | 1.16                                    | 8.5  | 18.0            |
| <b>Year of Construction</b>            |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 1949 or Before                         | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| 1950 to 1979                           | 1.5                  | 8.6           | 2,524 | 183                    | 1,411                           | 1,478                      | 1,907                        | 1.21                                    | 8.8  | 15.3            |
| 1980 or After <sup>2</sup>             | .7                   | 8.2           | 2,414 | 169                    | 1,408                           | 1,595                      | 2,070                        | 1.07                                    | 7.5  | 18.7            |
| <b>1990 Family Income</b>              |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Less than \$10,000                     | Q                    | 7.3           | 2,133 | 163                    | 814                             | 1,779                      | 2,217                        | 1.47                                    | 11.3                                       | 19.3            |
| \$10,000 to \$19,999                   | .4                   | 7.9           | 2,323 | 174                    | 1,153                           | 1,890                      | 2,356                        | 1.07                                    | 8.0  | 25.4            |
| \$20,000 to \$34,999                   | .6                   | 6.3           | 1,857 | 138                    | 1,013                           | 1,517                      | 1,957                        | 1.21                                    | 9.0  | 19.0            |
| \$35,000 or More                       | 1.0                  | 11.9          | 3,478 | 240                    | 1,890                           | 1,429                      | 1,876                        | 1.29                                    | 8.9  | 13.4            |
| <b>Below Poverty Line</b>              |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 100 Percent                            | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| 125 Percent                            | .3                   | 8.1           | 2,365 | 175                    | 891                             | 1,798                      | 2,267                        | 1.48                                    | 10.9                                       | 18.2            |
| <b>Age of Householder</b>              |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 35 Years                         | .8                   | 6.2           | 1,810 | 132                    | 943                             | 1,703                      | 2,161                        | 1.13                                    | 8.2  | 19.2            |
| 35 to 59 Years                         | 1.0                  | 11.1          | 3,246 | 225                    | 1,677                           | 1,468                      | 1,917                        | 1.32                                    | 9.1  | 16.7            |
| 60 Years and Over                      | .5                   | 10.5          | 3,089 | 231                    | 1,683                           | 1,550                      | 1,979                        | 1.18                                    | 8.9  | 14.1            |
| <b>Household Size</b>                  |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 1 Person                               | .6                   | 5.8           | 1,686 | 127                    | 891                             | 1,510                      | 1,942                        | 1.25                                    | 9.4  | 19.6            |
| 2 to 4 Persons                         | 1.4                  | 10.2          | 2,990 | 211                    | 1,565                           | 1,689                      | 2,151                        | 1.13                                    | 8.0  | 15.6            |
| 5 or More Persons                      | .4                   | 10.8          | 3,160 | 225                    | 1,656                           | 1,215                      | 1,636                        | 1.57                                    | 11.2                                       | 14.7            |

<sup>1</sup> The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

## SPACE-HEATING CONSUMPTION/EXPENDITURES

**Table 72. Natural Gas Consumption and Expenditures for Main Space Heating, per South Region Household, 1990**

| Characteristics                                 | Households (million) | Consumption   |                   |     | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              |   | Natural Gas Space-Heating Intensity       |    |    | RSE Row Factors |
|---|----------------------|---------------|-------------------|-----|------------------------|---------------------------------|----------------------------|------------------------------|---|---|----|----|-----------------|
|   |                      | (million Btu) | (1000 cubic feet) | NC  |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (cubic feet/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) | NC |    |                 |
| RSE Column Factors:                             | 1.6                  | NF            | NF                | NF  | 0.7                    | 1.0                             | 0.8                        | NF                           | NF  |   |    |    |                 |
| <b>South Region</b>                             |                      |               |                   |     |                        |                                 |                            |                              |   |   |    |    |                 |
| <b>Total Region</b> .....                       | 14.1                 | 47.1          | 45.7              | 269 | 1,561                  | 2,513                           | 3,097                      | 11.6                         | 6.9   | 5.7                                       |    |    |                 |
| <b>Climate Zone<sup>1</sup></b>                 |                      |               |                   |     |                        |                                 |                            |                              |   |   |    |    |                 |
| Under 2,000 HDD and                             |                      | NC            | NC                | NC  | NC                     | NC                              | NC                         | NC                           | NC  | NC  | NC | NC |                 |
| Over 5,500 HDD .....                            | 7.2                  | 57.3          | 55.7              | 327 | 1,691                  | 3,278                           | 3,978                      | 10.0                         | 5.9   | 6.3                                       |    |    |                 |
| Under 5,500 HDD                                 |                      |               |                   |     |                        |                                 |                            |                              |   |   |    |    |                 |
| 2,000 HDD or More and                           |                      |               |                   |     |                        |                                 |                            |                              |   |   |    |    |                 |
| Under 4,000 HDD .....                           | 6.9                  | 36.5          | 35.3              | 208 | 1,426                  | 1,721                           | 2,184                      | 14.4                         | 8.5   | 7.2                                       |    |    |                 |
| <b>Type of Housing Unit</b>                     |                      |               |                   |     |                        |                                 |                            |                              |   |   |    |    |                 |
| Single-Family .....                             | 11.6                 | 51.3          | 49.7              | 293 | 1,710                  | 2,475                           | 3,060                      | 11.8                         | 6.9   | 6.1                                       |    |    |                 |
| Mobile Home .....                               | 3                    | 33.2          | 32.0              | 213 | 818                    | 2,862                           | 3,398                      | 13.7                         | 9.1   | 15.1                                      |    |    |                 |
| Multifamily (2 or more units) ..                | 2.2                  | 26.8          | 26.1              | 149 | 876                    | 2,667                           | 3,249                      | 11.2                         | 6.4   | 7.9                                       |    |    |                 |
| <b>Heated Floorspace (square feet)</b>          |                      |               |                   |     |                        |                                 |                            |                              |   |   |    |    |                 |
| Fewer than 1,000 .....                          | 3.8                  | 33.4          | 32.4              | 197 | 761                    | 2,508                           | 3,124                      | 17.0                         | 10.3  | 5.1                                       |    |    |                 |
| 1,000 to 1,999 .....                            | 7.1                  | 45.1          | 43.8              | 254 | 1,411                  | 2,327                           | 2,839                      | 13.3                         | 7.7   | 6.3                                       |    |    |                 |
| 2,000 or More .....                             | 3.3                  | 67.0          | 64.9              | 383 | 2,799                  | 2,921                           | 3,622                      | 7.9                          | 4.7   | 7.4                                       |    |    |                 |
| <b>Ownership of Unit</b>                        |                      |               |                   |     |                        |                                 |                            |                              |   |   |    |    |                 |
| Owned .....                                     | 10.0                 | 52.0          | 50.4              | 297 | 1,799                  | 2,533                           | 3,119                      | 11.1                         | 6.5   | 6.4                                       |    |    |                 |
| Rented .....                                    | 4.1                  | 35.1          | 34.1              | 201 | 981                    | 2,465                           | 3,042                      | 14.1                         | 8.3   | 6.6                                       |    |    |                 |
| <b>Year of Construction</b>                     |                      |               |                   |     |                        |                                 |                            |                              |   |   |    |    |                 |
| 1949 or Before .....                            | 3.6                  | 54.8          | 52.9              | 322 | 1,395                  | 2,484                           | 3,110                      | 15.2                         | 9.3   | 6.1                                       |    |    |                 |
| 1950 to 1979 .....                              | 9.2                  | 44.6          | 43.3              | 253 | 1,552                  | 2,495                           | 3,043                      | 11.2                         | 6.5   | 5.8                                       |    |    |                 |
| 1980 or After <sup>2</sup> .....                | 1.3                  | 43.7          | 42.6              | 234 | 2,072                  | 2,720                           | 3,431                      | 7.6                          | 4.2   | 18.7                                      |    |    |                 |
| <b>1990 Family Income</b>                       |                      |               |                   |     |                        |                                 |                            |                              |   |   |    |    |                 |
| Less than \$10,000 .....                        | 3.0                  | 36.8          | 35.6              | 216 | 1,096                  | 2,289                           | 2,762                      | 14.2                         | 8.6   | 8.3                                       |    |    |                 |
| \$10,000 to \$19,999 .....                      | 2.6                  | 43.6          | 42.3              | 254 | 1,290                  | 2,440                           | 3,033                      | 13.4                         | 8.1   | 6.4                                       |    |    |                 |
| \$20,000 to \$34,999 .....                      | 3.8                  | 48.2          | 46.6              | 263 | 1,440                  | 2,523                           | 3,095                      | 12.8                         | 7.2   | 6.0                                       |    |    |                 |
| \$35,000 or More .....                          | 4.7                  | 54.7          | 53.2              | 316 | 2,110                  | 2,689                           | 3,348                      | 9.4                          | 5.6   | 7.6                                       |    |    |                 |
| <b>Below Poverty Line</b>                       |                      |               |                   |     |                        |                                 |                            |                              |   |   |    |    |                 |
| 100 Percent .....                               | 2.7                  | 35.1          | 34.0              | 201 | 1,077                  | 2,177                           | 2,629                      | 14.5                         | 8.6   | 8.6                                       |    |    |                 |
| 125 Percent .....                               | 3.4                  | 36.8          | 35.6              | 212 | 1,125                  | 2,186                           | 2,648                      | 14.5                         | 8.6   | 7.8                                       |    |    |                 |
| <b>Age of Householder</b>                       |                      |               |                   |     |                        |                                 |                            |                              |   |   |    |    |                 |
| Under 35 Years .....                            | 3.6                  | 40.8          | 39.6              | 225 | 1,313                  | 2,572                           | 3,140                      | 11.7                         | 6.7   | 7.4                                       |    |    |                 |
| 35 to 59 Years .....                            | 6.0                  | 46.6          | 45.3              | 268 | 1,727                  | 2,547                           | 3,162                      | 10.3                         | 6.1   | 6.1                                       |    |    |                 |
| 60 Years and Over .....                         | 4.5                  | 52.8          | 51.1              | 306 | 1,540                  | 2,419                           | 2,974                      | 13.7                         | 8.2   | 6.9                                       |    |    |                 |
| <b>Household Size</b>                           |                      |               |                   |     |                        |                                 |                            |                              |   |   |    |    |                 |
| 1 Person .....                                  | 3.2                  | 43.8          | 42.4              | 261 | 1,320                  | 2,419                           | 3,033                      | 13.3                         | 8.2   | 6.5                                       |    |    |                 |
| 2 to 4 Persons .....                            | 9.2                  | 48.7          | 47.2              | 275 | 1,660                  | 2,557                           | 3,133                      | 11.1                         | 6.5   | 6.2                                       |    |    |                 |
| 5 or More Persons .....                         | 1.7                  | 44.7          | 43.5              | 248 | 1,474                  | 2,453                           | 3,020                      | 12.0                         | 6.9   | 6.5                                       |    |    |                 |
| <b>Main Heating Equipment Using Natural Gas</b> |                      |               |                   |     |                        |                                 |                            |                              |   |   |    |    |                 |
| Central Warm-Air                                |                      |               |                   |     |                        |                                 |                            |                              |   |   |    |    |                 |
| Furnace .....                                   | 9.6                  | 49.6          | 48.1              | 282 | 1,744                  | 2,610                           | 3,221                      | 10.6                         | 6.2   | 7.0                                       |    |    |                 |
| Steam or Hot-Water                              |                      |               |                   |     |                        |                                 |                            |                              |   |   |    |    |                 |
| System .....                                    | 7                    | 59.3          | 57.5              | 362 | 1,318                  | 3,465                           | 4,180                      | 12.6                         | 7.9   | 8.7                                       |    |    |                 |
| Floor, Wall, or Pipeless                        |                      |               |                   |     |                        |                                 |                            |                              |   |   |    |    |                 |
| Furnace .....                                   | 1.6                  | 42.0          | 41.0              | 223 | 1,183                  | 2,461                           | 2,944                      | 14.1                         | 7.7   | 7.6                                       |    |    |                 |
| Room Heater/Other .....                         | 2.2                  | 36.1          | 34.9              | 219 | 1,115                  | 1,847                           | 2,349                      | 17.0                         | 10.6  | 8.3                                       |    |    |                 |

See footnotes at end of table.

**SOUTH**

**SPACE-HEATING CONSUMPTION/EXPENDITURES**

**SOUTH**

**Table 72. Natural Gas Consumption and Expenditures for Main Space Heating, per South Region Household, 1990 (Continued)**

| Characteristics   | Households (million) | Consumption   |                   | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Natural Gas Space-Heating Intensity           |   | RSE Row Factors |
|---|----------------------|---------------|-------------------|------------------------|---------------------------------|----------------------------|------------------------------|---|---|-----------------|
|   |                      | (million Btu) | (1000 cubic feet) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (cubic feet/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
|   |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| RSE Column Factors:   |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
|   | 1.6                  |               |                   | NF                     | 0.7                             | 1.0                        | 0.8                          |   |   |                 |
| <b>South Region</b>   |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| <b>Age of Main Heating Equipment</b>  |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Less than 5 Years .....   | 2.4                  | 53.4          | 51.9              | 298                    | 2,090                           | 2,783                      | 3,452                        | 8.9   | 5.1                                       | 11.3            |
| 5 to 9 Years .....  | 2.3                  | 45.3          | 43.8              | 264                    | 1,563                           | 2,306                      | 2,899                        | 12.1  | 7.3                                       | 7.5             |
| 10 to 19 Years .....  | 4.1                  | 47.4          | 46.2              | 266                    | 1,589                           | 2,585                      | 3,119                        | 11.2  | 6.5                                       | 6.1             |
| 20 Years or More .....  | 3.5                  | 49.8          | 48.1              | 293                    | 1,451                           | 2,424                      | 3,000                        | 13.7  | 8.3                                       | 7.4             |
| Don't Know .....  | 1.9                  | 35.4          | 34.4              | 199                    | 1,035                           | 2,436                      | 3,022                        | 13.6  | 7.9                                       | 8.2             |
| <b>Secondary Heating Fuel (more than one may apply)</b>                           |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| No .....  | 7.5                  | 41.1          | 39.8              | 242                    | 1,316                           | 2,405                      | 2,988                        | 12.6  | 7.6                                       | 6.3             |
| Yes .....   | 6.6                  | 53.9          | 52.3              | 300                    | 1,838                           | 2,635                      | 3,219                        | 10.8  | 6.2                                       | 6.4             |
| Wood .....  | 2.8                  | 55.9          | 54.2              | 302                    | 2,235                           | 2,712                      | 3,345                        | 8.9   | 5.0                                       | 9.2             |
| Electricity .....   | 3.6                  | 53.1          | 51.7              | 300                    | 1,738                           | 2,571                      | 3,131                        | 11.6  | 6.7                                       | 6.0             |
| Kerosene .....  | .5                   | 53.6          | 52.0              | 328                    | 1,333                           | 2,951                      | 3,646                        | 13.2  | 8.3                                       | 12.6            |
| Other .....   | .6                   | 45.2          | 43.9              | 237                    | 1,359                           | 2,176                      | 2,591                        | 14.8  | 8.0                                       | 9.9             |
| <b>Average Natural Gas Expenditures for Main Space Heat (dollars per 1000 cf)</b> |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Less than 4.50 .....  | 2.1                  | 62.6          | 61.3              | 241                    | 1,643                           | 3,298                      | 3,661                        | 11.3  | 4.4                                       | 16.8            |
| 4.50 to Less than 6 .....   | 4.1                  | 51.1          | 49.6              | 261                    | 1,528                           | 2,418                      | 3,082                        | 13.4  | 7.1                                       | 9.1             |
| 6 or More .....   | 8.0                  | 41.0          | 39.6              | 280                    | 1,556                           | 2,359                      | 2,958                        | 10.8  | 7.6                                       | 7.4             |
| <b>Winter Temperature Inside Housing Unit</b>                                     |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Prefer Usual Temperature .....  | 12.1                 | 47.4          | 46.0              | 270                    | 1,583                           | 2,506                      | 3,082                        | 11.6  | 6.8                                       | 6.1             |
| Warmer Temperature .....  | 1.8                  | 44.2          | 42.8              | 256                    | 1,379                           | 2,506                      | 3,134                        | 12.4  | 7.4                                       | 8.7             |
| Cooler Temperature .....  | Q                    | Q             | Q                 | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |
| <b>Adequacy of Insulation</b>   |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Well Insulated .....  | 5.1                  | 48.2          | 46.8              | 276                    | 1,803                           | 2,599                      | 3,242                        | 10.0  | 5.9                                       | 6.6             |
| Adequately Insulated .....  | 5.2                  | 47.5          | 46.0              | 268                    | 1,548                           | 2,572                      | 3,147                        | 11.6  | 6.7                                       | 6.4             |
| Poorly Insulated .....  | 3.1                  | 47.8          | 46.3              | 278                    | 1,299                           | 2,201                      | 2,726                        | 16.2  | 9.7                                       | 7.5             |
| Don't Know .....  | .7                   | 32.0          | 31.2              | 176                    | 1,007                           | 2,857                      | 3,314                        | 10.8  | 6.1                                       | 14.7            |

See footnotes at end of table.

## SPACE-HEATING CONSUMPTION/EXPENDITURES

**Table 72. Natural Gas Consumption and Expenditures for Main Space Heating, per South Region Household, 1990 (Continued)**

| Characteristics                             | Consumption          |               |                   | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Natural Gas Space-Heating Intensity           |   | RSE Flow Factors |
|---|----------------------|---------------|-------------------|------------------------|---------------------------------|----------------------------|------------------------------|---|---|------------------|
|   | Households (million) | (million Btu) | (1000 cubic feet) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (cubic feet/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                  |
| RSE Column Factors:                         | 1.6                  | NF            | NF                | NF                     | 0.7                             | 1.0                        | 0.8                          | NF  | NF  |                  |
| <b>South Atlantic Division</b> .....        | 5.0                  | 50.0          | 48.4              | 336                    | 1,595                           | 2,904                      | 3,621                        | 10.5  | 7.2                                       | 8.5              |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                   | NC            | NC                | NC                     | NC                              | NC                         | NC                           | NC  | NC  | NC               |
| Under 5,500 HDD .....                       | 4.4                  | 54.0          | 52.3              | 359                    | 1,623                           | 3,196                      | 3,954                        | 10.1  | 6.9                                       | 7.1              |
| 2,000 CDD or More and Under 4,000 HDD ..... | Q                    | Q             | Q                 | Q                      | 1,391                           | Q                          | Q                            | Q   | Q   | 21.3             |
| <b>Type of Housing Unit</b>                 |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| Single-Family .....                         | 3.9                  | 57.5          | 55.6              | 385                    | 1,801                           | 2,887                      | 3,599                        | 10.7  | 7.4                                       | 10.2             |
| Mobile Home .....                           | Q                    | Q             | Q                 | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF               |
| Multifamily (2 or more units) ..            | 1.0                  | 23.3          | 22.6              | 157                    | 910                             | 2,902                      | 3,642                        | 8.6   | 5.9                                       | 9.7              |
| <b>Heated Floorspace (square feet)</b>      |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| Fewer than 1,000 .....                      | 1.4                  | 32.8          | 31.8              | 226                    | 733                             | 2,894                      | 3,546                        | 15.0  | 10.7                                      | 7.4              |
| 1,000 to 1,999 .....                        | 2.1                  | 47.7          | 46.1              | 316                    | 1,412                           | 2,529                      | 3,198                        | 12.9  | 8.8                                       | 9.5              |
| 2,000 or More .....                         | 1.4                  | 71.3          | 69.0              | 479                    | 2,759                           | 3,486                      | 4,239                        | 7.2   | 5.0                                       | 7.3              |
| <b>Ownership of Unit</b>                    |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| Owned .....                                 | 3.3                  | 59.4          | 57.5              | 399                    | 1,896                           | 3,062                      | 3,776                        | 9.9   | 6.9                                       | 9.0              |
| Rented .....                                | 1.7                  | 31.7          | 30.7              | 212                    | 1,004                           | 2,595                      | 3,316                        | 11.8  | 8.1                                       | 9.1              |
| <b>Year of Construction</b>                 |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| 1949 or Before .....                        | 1.4                  | 62.4          | 60.5              | 414                    | 1,513                           | 3,004                      | 3,742                        | 13.3  | 9.1                                       | 10.8             |
| 1950 to 1979 .....                          | 3.2                  | 46.2          | 44.7              | 312                    | 1,632                           | 2,893                      | 3,596                        | 9.5   | 6.6                                       | 10.8             |
| 1980 or After <sup>2</sup> .....            | Q                    | 35.7          | 34.9              | 243                    | 1,589                           | 2,619                      | 3,377                        | 8.4   | 5.8                                       | 28.8             |
| <b>1990 Family Income</b>                   |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| Less than \$10,000 .....                    | .7                   | 45.4          | 43.7              | 302                    | 1,183                           | 2,610                      | 3,253                        | 14.1  | 9.8                                       | 16.4             |
| \$10,000 to \$19,999 .....                  | .9                   | 42.8          | 41.4              | 295                    | 1,270                           | 2,836                      | 3,547                        | 11.5  | 8.2                                       | 12.4             |
| \$20,000 to \$34,999 .....                  | 1.4                  | 47.0          | 45.3              | 313                    | 1,325                           | 2,770                      | 3,485                        | 12.3  | 8.5                                       | 8.3              |
| \$35,000 or More .....                      | 2.0                  | 56.9          | 55.3              | 381                    | 2,062                           | 3,124                      | 3,869                        | 8.6   | 5.9                                       | 10.8             |
| <b>Below Poverty Line</b>                   |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| 100 Percent .....                           | .5                   | 40.7          | 39.5              | 258                    | 1,152                           | 2,214                      | 2,867                        | 15.5  | 10.1                                      | 17.4             |
| 125 Percent .....                           | .7                   | 41.2          | 39.9              | 272                    | 1,108                           | 2,238                      | 2,879                        | 16.1  | 11.0                                      | 14.8             |
| <b>Age of Householder</b>                   |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| Under 35 Years .....                        | 1.3                  | 36.4          | 35.1              | 242                    | 1,202                           | 2,665                      | 3,411                        | 11.0  | 7.5                                       | 8.8              |
| 35 to 59 Years .....                        | 2.3                  | 51.9          | 50.5              | 345                    | 1,813                           | 3,007                      | 3,744                        | 9.3   | 6.3                                       | 7.8              |
| 60 Years and Over .....                     | 1.4                  | 59.7          | 57.5              | 408                    | 1,611                           | 2,961                      | 3,618                        | 12.0  | 8.5                                       | 14.2             |
| <b>Household Size</b>                       |                      |               |                   |                        |                                 |                            |                              |   |   |                  |
| 1 Person .....                              | 1.2                  | 44.4          | 42.9              | 309                    | 1,315                           | 2,774                      | 3,462                        | 11.8  | 8.5                                       | 11.7             |
| 2 to 4 Persons .....                        | 3.3                  | 51.0          | 49.3              | 341                    | 1,694                           | 2,981                      | 3,594                        | 10.1  | 7.0                                       | 9.2              |
| 5 or More Persons .....                     | .5                   | 57.7          | 56.1              | 368                    | 1,597                           | 3,390                      | 4,200                        | 10.4  | 6.8                                       | 9.4              |

See footnotes at end of table.

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**Table 72. Natural Gas Consumption and Expenditures for Main Space Heating, per South Region Household, 1990 (Continued)**

| Characteristics                             | Households (million) | Consumption   |                   | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Natural Gas Space-Heating Intensity           |   | RSE Row Factors |
|---|----------------------|---------------|-------------------|------------------------|---------------------------------|----------------------------|------------------------------|---|---|-----------------|
|   |                      | (million Btu) | (1000 cubic feet) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (cubic feet/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
| RSE Column Factors:                         | 1.6                  | NF            | NF                | NF                     | 0.7                             | 1.0                        | 0.8                          | NF  | NF  |                 |
| <b>East South Central Division ..</b>       | 2.8                  | 50.9          | 49.1              | 245                    | 1,696                           | 2,734                      | 3,506                        | 10.6  | 5.3                                       | 14.9            |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                   | NC            | NC                | NC                     | NC                              | NC                         | NC                           | NC  | NC  | NC              |
| Under 5,500 HDD .....                       | 1.8                  | 59.0          | 57.0              | 283                    | 1,971                           | 3,186                      | 4,047                        | 9.1   | 4.5                                       | 13.0            |
| 2,000 CDD or More and Under 4,000 HDD ..... | Q                    | 35.7          | 34.4              | 175                    | 1,187                           | 1,896                      | 2,503                        | 15.3  | 7.8                                       | 41.3            |
| <b>Type of Housing Unit</b>                 |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Single-Family .....                         | 2.2                  | 56.1          | 54.1              | 272                    | 1,953                           | 2,814                      | 3,609                        | 9.8   | 4.9                                       | 14.5            |
| Mobile Home .....                           | Q                    | Q             | Q                 | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |
| Multifamily (2 or more units) ..            | .6                   | 33.4          | 32.4              | 152                    | 810                             | 2,472                      | 3,179                        | 16.2  | 7.6                                       | 15.5            |
| <b>Heated Floorspace (square feet)</b>      |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Fewer than 1,000 .....                      | .9                   | 40.0          | 38.8              | 189                    | 773                             | 2,571                      | 3,297                        | 19.5  | 9.5                                       | 11.5            |
| 1,000 to 1,999 .....                        | 1.0                  | 49.1          | 47.4              | 246                    | 1,400                           | 2,506                      | 3,202                        | 13.5  | 7.0                                       | 9.6             |
| 2,000 or More .....                         | Q                    | 63.4          | 61.0              | 297                    | 2,929                           | 3,149                      | 4,053                        | 6.6   | 3.2                                       | 15.2            |
| <b>Ownership of Unit</b>                    |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Owned .....                                 | 2.0                  | 56.1          | 54.1              | 267                    | 2,022                           | 2,853                      | 3,660                        | 9.4   | 4.6                                       | 14.5            |
| Rented .....                                | .9                   | 39.0          | 37.7              | 193                    | 951                             | 2,462                      | 3,156                        | 16.1  | 8.2                                       | 15.6            |
| <b>Year of Construction</b>                 |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| 1949 or Before .....                        | .8                   | 64.7          | 61.8              | 310                    | 1,238                           | 2,731                      | 3,478                        | 18.3  | 9.2                                       | 10.4            |
| 1950 to 1979 .....                          | 1.6                  | 41.7          | 40.4              | 206                    | 1,514                           | 2,537                      | 3,266                        | 10.5  | 5.4                                       | 13.6            |
| 1980 or After <sup>2</sup> .....            | Q                    | 59.3          | 57.8              | 269                    | 3,024                           | 3,390                      | 4,344                        | 5.6   | 2.6                                       | 29.4            |
| <b>1990 Family Income</b>                   |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Less than \$10,000 .....                    | .6                   | 50.1          | 48.2              | 245                    | 972                             | 2,537                      | 3,236                        | 19.6  | 9.9                                       | 15.3            |
| \$10,000 to \$19,999 .....                  | .6                   | 40.9          | 39.7              | 199                    | 1,166                           | 2,619                      | 3,327                        | 13.0  | 6.5                                       | 13.9            |
| \$20,000 to \$34,999 .....                  | .7                   | 47.7          | 45.4              | 221                    | 1,514                           | 2,580                      | 3,303                        | 11.6  | 5.7                                       | 12.6            |
| \$35,000 or More .....                      | 1.0                  | 59.2          | 57.5              | 287                    | 2,536                           | 3,021                      | 3,906                        | 7.5   | 3.7                                       | 18.4            |
| <b>Below Poverty Line</b>                   |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| 100 Percent .....                           | .4                   | 50.4          | 48.4              | 249                    | 982                             | 2,523                      | 3,211                        | 19.5  | 10.0                                      | 17.0            |
| 125 Percent .....                           | .6                   | 50.6          | 48.7              | 247                    | 1,021                           | 2,527                      | 3,209                        | 18.9  | 9.6                                       | 15.1            |
| <b>Age of Householder</b>                   |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Under 35 Years .....                        | .7                   | 47.9          | 46.5              | 235                    | 1,555                           | 2,822                      | 3,598                        | 10.6  | 5.3                                       | 18.5            |
| 35 to 59 Years .....                        | 1.3                  | 49.9          | 48.2              | 242                    | 1,999                           | 2,739                      | 3,534                        | 8.8   | 4.4                                       | 16.8            |
| 60 Years and Over .....                     | .8                   | 55.2          | 53.0              | 258                    | 1,325                           | 2,643                      | 3,376                        | 15.1  | 7.4                                       | 10.3            |
| <b>Household Size</b>                       |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| 1 Person .....                              | .7                   | 47.5          | 45.9              | 225                    | 1,209                           | 2,623                      | 3,370                        | 14.5  | 7.1                                       | 13.1            |
| 2 to 4 Persons .....                        | 1.8                  | 53.0          | 51.1              | 258                    | 1,924                           | 2,781                      | 3,567                        | 9.5   | 4.8                                       | 15.5            |
| 5 or More Persons .....                     | .3                   | 46.1          | 44.8              | 209                    | 1,521                           | 2,728                      | 3,478                        | 10.8  | 5.0                                       | 23.7            |

See footnotes at end of table.

# SPACE-HEATING CONSUMPTION/EXPENDITURES

**Table 72. Natural Gas Consumption and Expenditures for Main Space Heating, per South Region Household, 1990 (Continued)**

| Characteristics                        | Households (million) | Consumption   |                   |      | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Natural Gas Space-Heating Intensity           |   | RSE Row Factors |
|--|----------------------|---------------|-------------------|------|------------------------|---------------------------------|----------------------------|------------------------------|---|---|-----------------|
|  |                      | (million Btu) | (1000 cubic feet) | (NF) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (cubic feet/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
| RSE Column Factors:                    | 1.6                  | NF            | NF                | NF   | 0.7                    | 1.0                             | 0.8                        | NF                           | NF  |   |                 |
| <b>West South Central Division</b>     | 6.3                  | 43.0          | 41.9              | 227  | 1,473                  | 2,104                           | 2,498                      | 13.5                         | 7.3   | 6.6                                       |                 |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |                   |      |                        |                                 |                            |                              |   |   |                 |
| Under 2,000 HDD                        | NC                   | NC            | NC                | NC   | NC                     | NC                              | NC                         | NC                           | NC  | NC  |                 |
| Over 5,500 HDD                         | Q                    | 69.6          | 69.2              | 269  | 1,468                  | 3,840                           | 3,950                      | 12.3                         | 4.8   | 11.5                                      |                 |
| 2,000 HDD or More and Under 4,000 HDD  | 5.4                  | 38.4          | 37.1              | 219  | 1,474                  | 1,798                           | 2,242                      | 14.0                         | 8.3   | 7.4                                       |                 |
| <b>Type of Housing Unit</b>            |                      |               |                   |      |                        |                                 |                            |                              |   |   |                 |
| Single-Family                          | 5.6                  | 45.1          | 43.9              | 238  | 1,553                  | 2,056                           | 2,470                      | 13.8                         | 7.4   | 6.6                                       |                 |
| Mobile Home                            | Q                    | Q             | Q                 | Q    | Q                      | Q                               | Q                          | Q                            | Q   | NF  |                 |
| Multifamily (2 or more units)          | .6                   | 26.3          | 25.6              | 134  | 885                    | 2,457                           | 2,645                      | Q                            | Q   | 20.6                                      |                 |
| <b>Heated Floorspace (square feet)</b> |                      |               |                   |      |                        |                                 |                            |                              |   |   |                 |
| Fewer than 1,000                       | 1.4                  | 29.9          | 29.2              | 173  | 782                    | 2,078                           | 2,488                      | 18.0                         | 10.6  | 8.2                                       |                 |
| 1,000 to 1,999                         | 3.9                  | 42.6          | 41.5              | 222  | 1,414                  | 2,169                           | 2,546                      | 13.5                         | 7.2   | 7.3                                       |                 |
| 2,000 or More                          | 1.0                  | 64.2          | 62.5              | 326  | 2,735                  | 1,879                           | 2,314                      | 12.2                         | 6.3   | 9.4                                       |                 |
| <b>Ownership of Unit</b>               |                      |               |                   |      |                        |                                 |                            |                              |   |   |                 |
| Owned                                  | 4.7                  | 45.1          | 44.0              | 238  | 1,639                  | 2,029                           | 2,434                      | 13.2                         | 7.1   | 7.0                                       |                 |
| Rented                                 | 1.6                  | 36.7          | 35.8              | 193  | 974                    | 2,328                           | 2,687                      | 15.8                         | 8.5   | 11.8                                      |                 |
| <b>Year of Construction</b>            |                      |               |                   |      |                        |                                 |                            |                              |   |   |                 |
| 1949 or Before                         | 1.4                  | 41.8          | 40.5              | 237  | 1,362                  | 1,833                           | 2,281                      | 16.2                         | 9.5   | 8.4                                       |                 |
| 1950 to 1979                           | 4.4                  | 44.4          | 43.3              | 227  | 1,507                  | 2,189                           | 2,560                      | 13.1                         | 6.9   | 7.0                                       |                 |
| 1980 or After <sup>2</sup>             | .5                   | 34.1          | 33.4              | 192  | 1,492                  | 2,129                           | 2,561                      | 10.5                         | 6.1   | 17.3                                      |                 |
| <b>1990 Family Income</b>              |                      |               |                   |      |                        |                                 |                            |                              |   |   |                 |
| Less than \$10,000                     | 1.8                  | 29.4          | 28.6              | 174  | 1,103                  | 2,089                           | 2,426                      | 12.4                         | 7.6   | 10.7                                      |                 |
| \$10,000 to \$19,999                   | 1.2                  | 45.6          | 44.3              | 247  | 1,364                  | 2,046                           | 2,491                      | 15.9                         | 8.9   | 8.4                                       |                 |
| \$20,000 to \$34,999                   | 1.7                  | 49.3          | 48.2              | 241  | 1,502                  | 2,299                           | 2,693                      | 14.0                         | 7.0   | 10.6                                      |                 |
| \$35,000 or More                       | 1.6                  | 49.2          | 47.9              | 253  | 1,912                  | 1,956                           | 2,374                      | 12.8                         | 6.8   | 8.2                                       |                 |
| <b>Below Poverty Line</b>              |                      |               |                   |      |                        |                                 |                            |                              |   |   |                 |
| 100 Percent                            | 1.8                  | 29.8          | 29.0              | 175  | 1,081                  | 2,081                           | 2,422                      | 12.9                         | 7.8   | 10.1                                      |                 |
| 125 Percent                            | 2.1                  | 31.5          | 30.6              | 182  | 1,159                  | 2,075                           | 2,416                      | 12.7                         | 7.6   | 9.3                                       |                 |
| <b>Age of Householder</b>              |                      |               |                   |      |                        |                                 |                            |                              |   |   |                 |
| Under 35 Years                         | 1.6                  | 41.1          | 40.2              | 208  | 1,294                  | 2,383                           | 2,712                      | 13.0                         | 6.7   | 10.0                                      |                 |
| 35 to 59 Years                         | 2.4                  | 40.0          | 38.9              | 209  | 1,502                  | 2,017                           | 2,420                      | 12.8                         | 6.9   | 7.1                                       |                 |
| 60 Years and Over                      | 2.3                  | 47.7          | 46.4              | 259  | 1,569                  | 1,999                           | 2,428                      | 14.8                         | 8.2   | 7.0                                       |                 |
| <b>Household Size</b>                  |                      |               |                   |      |                        |                                 |                            |                              |   |   |                 |
| 1 Person                               | 1.3                  | 41.1          | 39.9              | 237  | 1,391                  | 1,967                           | 2,434                      | 14.6                         | 8.7   | 8.3                                       |                 |
| 2 to 4 Persons                         | 4.1                  | 44.9          | 43.8              | 230  | 1,516                  | 2,194                           | 2,564                      | 13.2                         | 6.9   | 8.4                                       |                 |
| 5 or More Persons                      | 1.0                  | 37.7          | 36.8              | 199  | 1,398                  | 1,904                           | 2,297                      | 13.8                         | 7.5   | 8.2                                       |                 |

<sup>1</sup> The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = Not applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).



SPACE-HEATING CONSUMPTION/EXPENDITURES

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Table 73. Fuel Oil Consumption and Expenditures for Main Space Heating, per South Region Household, 1990

| Characteristics                        | Households (million) | Consumption   |           | Expenditures (dollars) | Heated Floor-space (square feet) | Annual Heating Degree-Days |                              | Fuel Oil Space-Heating Intensity           |   | RSE Row Factors |
|--|----------------------|---------------|-----------|------------------------|----------------------------------|----------------------------|------------------------------|--|---|-----------------|
|  |                      | (million Btu) | (gallons) |                        |                                  | 1990                       | 30-Year Average <sup>1</sup> | Consumption (gallons/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
|  |                      |               |           |                        |                                  |                            |                              |  |   |                 |
| South Region                           |                      |               |           |                        |                                  |                            |                              |  |   |                 |
| <b>Total Region</b>                    | 1.5                  | 49.0          | 356       | 395                    | 1,607                            | 3,125                      | 3,978                        | 0.071                                      | 7.9                                       | 10.3            |
| South Atlantic Division                | 1.4                  | 49.3          | 359       | 399                    | 1,581                            | 3,094                      | 3,939                        | .073                                       | 8.2                                       | 11.1            |
| East South Central Division            | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q  | Q   | NF              |
| West South Central Division            | NC                   | NC            | NC        | NC                     | NC                               | NC                         | NC                           | NC   | NC  | NC              |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |           |                        |                                  |                            |                              |  |   |                 |
| Under 2,000 HDD and Over 5,500 HDD     | NC                   | NC            | NC        | NC                     | NC                               | NC                         | NC                           | NC   | NC  | NC              |
| Under 5,500 HDD                        | 1.5                  | 50.5          | 368       | 407                    | 1,630                            | 3,245                      | 4,114                        | .070                                       | 7.7                                       | 10.0            |
| 2,000 HDD or More and Under 4,000 HDD  | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q  | Q   | NF              |
| <b>Type of Housing Unit</b>            |                      |               |           |                        |                                  |                            |                              |  |   |                 |
| Single-Family                          | 1.3                  | 48.9          | 355       | 395                    | 1,722                            | 3,131                      | 3,985                        | .066                                       | 7.3                                       | 10.8            |
| Mobile Home                            | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q  | Q   | NF              |
| Multifamily (2 or more units)          | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q  | Q   | NF              |
| <b>Heated Floorspace (square feet)</b> |                      |               |           |                        |                                  |                            |                              |  |   |                 |
| Fewer than 1,000                       | .4                   | 39.8          | 294       | 324                    | 744                              | 2,875                      | 3,719                        | .137                                       | 15.2                                      | 16.3            |
| 1,000 to 1,999                         | .6                   | 44.5          | 323       | 366                    | 1,303                            | 2,914                      | 3,731                        | .085                                       | 9.6                                       | 11.6            |
| 2,000 or More                          | .5                   | 61.0          | 441       | 482                    | 2,589                            | 3,559                      | 4,461                        | .048                                       | 5.2                                       | 13.7            |
| <b>Ownership of Unit</b>               |                      |               |           |                        |                                  |                            |                              |  |   |                 |
| Owned                                  | 1.2                  | 44.2          | 321       | 359                    | 1,736                            | 3,069                      | 3,919                        | .060                                       | 6.7                                       | 11.0            |
| Rented                                 | .3                   | 68.9          | 505       | 546                    | 1,072                            | 3,360                      | 4,222                        | .140                                       | 15.2                                      | 19.1            |
| <b>Year of Construction</b>            |                      |               |           |                        |                                  |                            |                              |  |   |                 |
| 1949 or Before                         | .6                   | 63.3          | 461       | 504                    | 1,751                            | 3,351                      | 4,244                        | .079                                       | 8.6                                       | 19.2            |
| 1950 to 1979                           | .9                   | 40.4          | 293       | 330                    | 1,540                            | 2,980                      | 3,809                        | .064                                       | 7.2                                       | 13.0            |
| 1980 or After <sup>2</sup>             | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q  | Q   | NF              |
| <b>1990 Family Income</b>              |                      |               |           |                        |                                  |                            |                              |  |   |                 |
| Less than \$10,000                     | .4                   | 37.3          | 271       | 306                    | 1,217                            | 3,125                      | 3,988                        | .071                                       | 8.1                                       | 14.9            |
| \$10,000 to \$19,999                   | .5                   | 50.4          | 368       | 409                    | 1,270                            | 3,320                      | 4,151                        | .087                                       | 9.7                                       | 12.9            |
| \$20,000 to \$34,999                   | .3                   | 48.8          | 356       | 402                    | 1,611                            | 3,127                      | 4,028                        | .071                                       | 8.0                                       | 14.3            |
| \$35,000 or More                       | .4                   | 58.7          | 424       | 460                    | 2,384                            | 2,892                      | 3,719                        | .062                                       | 6.7                                       | 23.8            |
| <b>Below Poverty Line</b>              |                      |               |           |                        |                                  |                            |                              |  |   |                 |
| 100 Percent                            | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q  | Q   | NF              |
| 125 Percent                            | .4                   | 33.9          | 247       | 280                    | 1,187                            | 3,278                      | 4,155                        | .064                                       | 7.2                                       | 22.9            |
| <b>Age of Householder</b>              |                      |               |           |                        |                                  |                            |                              |  |   |                 |
| Under 35 Years                         | Q                    | 50.9          | 374       | 416                    | Q                                | 2,911                      | 3,751                        | Q  | Q   | 30.0            |
| 35 to 59 Years                         | .7                   | 49.2          | 357       | 392                    | 1,776                            | 3,168                      | 4,045                        | .063                                       | 7.0                                       | 15.0            |
| 60 Years and Over                      | .6                   | 48.0          | 348       | 391                    | 1,564                            | 3,159                      | 3,986                        | .070                                       | 7.9                                       | 10.9            |
| <b>Household Size</b>                  |                      |               |           |                        |                                  |                            |                              |  |   |                 |
| 1 Person                               | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q  | Q   | 29.5            |
| 2 to 4 Persons                         | 1.2                  | 48.5          | 352       | 393                    | 1,649                            | 3,110                      | 3,967                        | .069                                       | 7.7                                       | 13.8            |
| 5 or More Persons                      | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q  | Q   | NF              |

See footnotes at end of table.

SPACE-HEATING CONSUMPTION/EXPENDITURES

Table 73. Fuel Oil Consumption and Expenditures for Main Space Heating, per South Region Household, 1990 (Continued)

| Characteristics   | Households (million) | Consumption   |           |           | Heated Floor-space (square feet) | Annual Heating Degree-Days |                              | Fuel Oil Space-Heating Intensity           |   | RSE Row Factors |
|---|----------------------|---------------|-----------|-----------|----------------------------------|----------------------------|------------------------------|--|---|-----------------|
|   |                      | (million Btu) | (gallons) | (dollars) |                                  | 1990                       | 30-Year Average <sup>1</sup> | Consumption (gallons/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
| RSE Column Factors:   | 1.8                  | NF            | NF        | NF        | 0.8                              | 0.5                        | 0.4                          | NF   | NF  |                 |
| South Region  |                      |               |           |           |                                  |                            |                              |  |   |                 |
| <b>Main Heating Equipment Using Fuel Oil</b>                                  |                      |               |           |           |                                  |                            |                              |  |   |                 |
| Central Warm-Air Furnace .....  | 1.0                  | 45.7          | 332       | 371       | 1,669                            | 3,114                      | 3,953                        | 0.064                                      | 7.1                                       | 10.4            |
| Steam or Hot-Water System .....   | Q                    | 84.1          | 611       | 666       | Q                                | Q                          | 4,333                        | .092                                       | 10.0                                      | 23.4            |
| Other .....   | Q                    | Q             | Q         | Q         | Q                                | Q                          | Q                            | .073                                       | 8.0                                       | 27.3            |
| <b>Age of Main Heating Equipment</b>  |                      |               |           |           |                                  |                            |                              |  |   |                 |
| Less than 5 Years .....   | .3                   | 47.4          | 345       | 400       | 1,398                            | 2,940                      | 3,755                        | .084                                       | 9.7                                       | 21.6            |
| 5 to 9 Years .....  | Q                    | Q             | Q         | Q         | Q                                | Q                          | Q                            | Q  | Q   | NF              |
| 10 to 19 Years .....  | .4                   | 41.0          | 298       | 333       | 1,814                            | 3,070                      | 3,899                        | .054                                       | 6.0                                       | 19.1            |
| 20 Years or More .....  | .6                   | 59.6          | 433       | 471       | 1,592                            | 3,129                      | 4,017                        | .087                                       | 9.5                                       | 14.8            |
| Don't Know .....  | Q                    | Q             | Q         | Q         | Q                                | Q                          | Q                            | Q  | Q   | NF              |
| <b>Secondary Heating Fuel (more than one may apply)</b>                       |                      |               |           |           |                                  |                            |                              |  |   |                 |
| No .....  | .5                   | 57.4          | 417       | 459       | 1,452                            | 3,269                      | 4,085                        | .088                                       | 9.7                                       | 20.0            |
| Yes .....   | 1.0                  | 45.1          | 329       | 366       | 1,678                            | 3,060                      | 3,929                        | .064                                       | 7.1                                       | 10.7            |
| Wood .....  | .5                   | 43.6          | 318       | 355       | 1,930                            | 3,256                      | 4,166                        | .051                                       | 5.6                                       | 15.9            |
| Electricity .....   | .5                   | 48.9          | 356       | 393       | 1,753                            | 3,058                      | 3,917                        | .066                                       | 7.3                                       | 12.2            |
| Kerosene .....  | Q                    | Q             | Q         | Q         | Q                                | Q                          | Q                            | Q  | Q   | NF              |
| Other .....   | Q                    | Q             | Q         | Q         | Q                                | Q                          | Q                            | Q  | Q   | NF              |
| <b>Average Fuel Oil Expenditures for Main Space Heat (dollars per gallon)</b> |                      |               |           |           |                                  |                            |                              |  |   |                 |
| Less than .95 .....   | Q                    | Q             | Q         | Q         | Q                                | Q                          | Q                            | Q  | Q   | NF              |
| .95 to Less than 1.10 .....   | .7                   | 60.1          | 439       | 474       | 1,608                            | 3,271                      | 4,150                        | .084                                       | 9.0                                       | 10.3            |
| 1.10 or More .....  | .6                   | 47.1          | 340       | 398       | 1,691                            | 3,113                      | 3,941                        | .065                                       | 7.6                                       | 15.5            |
| <b>Winter Temperature Inside Housing Unit</b>                                 |                      |               |           |           |                                  |                            |                              |  |   |                 |
| Prefer Usual Temperature .....  | 1.3                  | 47.9          | 348       | 387       | 1,582                            | 3,060                      | 3,904                        | .072                                       | 8.0                                       | 11.3            |
| Warmer Temperature .....  | Q                    | Q             | Q         | Q         | Q                                | Q                          | Q                            | Q  | Q   | NF              |
| Cooler Temperature .....  | NC                   | NC            | NC        | NC        | NC                               | NC                         | NC                           | NC   | NC  | NC              |
| <b>Adequacy of Insulation</b>   |                      |               |           |           |                                  |                            |                              |  |   |                 |
| Well Insulated .....  | .6                   | 39.2          | 283       | 320       | 1,715                            | 3,092                      | 3,928                        | .053                                       | 6.0                                       | 12.3            |
| Adequately Insulated .....  | .6                   | 48.3          | 352       | 391       | 1,566                            | 3,016                      | 3,874                        | .075                                       | 8.3                                       | 13.3            |
| Poorly Insulated .....  | .3                   | 70.3          | 512       | 557       | 1,480                            | 3,427                      | 4,301                        | .101                                       | 11.0                                      | 17.2            |
| Don't Know .....  | NC                   | NC            | NC        | NC        | NC                               | NC                         | NC                           | NC   | NC  | NC              |

1 The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

2 Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: \* Data in the South Atlantic, East South Central and West South Central Divisions are not presented separately due to a scarcity of data.

• To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. \* Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

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Table 74. Liquefied Petroleum Gas Consumption and Expenditures for Main Space Heating, per South Region Household, 1990

| Characteristics                             | Households (million) |      | Consumption |     | Expenditures (dollars) | Heated Floor-space (square feet) | Annual Heating Degree-Days |       | Liquefied Petroleum Gas Space-Heating Intensity |      | RSE Flow Factors |
|---|----------------------|------|-------------|-----|------------------------|----------------------------------|----------------------------|-------|---|------|------------------|
|   | 1.8                  | NF   | NF          | NF  |                        |                                  | 0.6                        | 0.8   | 0.7   | NF   |                  |
|   |                      |      |             |     | (million Btu)          | (gallons)                        |                            |       |   |      | 1990             |
| <b>South Region</b>                         |                      |      |             |     |                        |                                  |                            |       |   |      |                  |
| <b>Total Region</b> .....                   | 2.2                  | 27.8 | 305         | 331 | 1,241                  | 2,186                            | 2,812                      | 0.112 | 12.2  | 11.8 |                  |
| South Atlantic Division .....               | 1.0                  | 27.5 | 301         | 350 | 1,232                  | 1,791                            | 2,403                      | .136  | 15.9  | 17.4 |                  |
| East South Central Division .....           | .6                   | 34.5 | 377         | 408 | 1,184                  | 2,617                            | 3,398                      | .122  | 13.2  | 17.8 |                  |
| West South Central Division .....           | Q                    | 21.0 | 230         | 207 | 1,325                  | 2,452                            | 2,933                      | .071  | Q   | 25.2 |                  |
| <b>Climate Zone<sup>1</sup></b>             |                      |      |             |     |                        |                                  |                            |       |   |      |                  |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                   | NC   | NC          | NC  | NC                     | NC                               | NC                         | NC    | NC  | NC   |                  |
| Under 5,500 HDD .....                       | 1.4                  | 35.2 | 386         | 413 | 1,272                  | 2,835                            | 3,545                      | .107  | 11.4  | 12.9 |                  |
| 2,000 CDD or More and Under 4,000 HDD ..... | .8                   | 15.6 | 170         | 195 | 1,190                  | 1,107                            | 1,594                      | Q     | Q   | 19.5 |                  |
| <b>Type of Housing Unit</b>                 |                      |      |             |     |                        |                                  |                            |       |   |      |                  |
| Single-Family .....                         | 1.5                  | 30.6 | 335         | 358 | 1,375                  | 2,320                            | 2,960                      | .105  | 11.2  | 15.4 |                  |
| Mobile Home .....                           | .7                   | 21.6 | 236         | 268 | 936                    | 1,878                            | 2,474                      | .135  | 15.2  | 14.2 |                  |
| Multifamily (2 or more units) .....         | NC                   | NC   | NC          | NC  | NC                     | NC                               | NC                         | NC    | NC  | NC   |                  |
| <b>Heated Floorspace (square feet)</b>      |                      |      |             |     |                        |                                  |                            |       |   |      |                  |
| Fewer than 1,000 .....                      | .9                   | 22.8 | 250         | 277 | 788                    | 1,863                            | 2,443                      | .170  | 18.9  | 9.7  |                  |
| 1,000 to 1,999 .....                        | 1.1                  | 29.0 | 317         | 350 | 1,324                  | 2,352                            | 2,984                      | .102  | 11.2  | 14.4 |                  |
| 2,000 or More .....                         | Q                    | Q    | Q           | Q   | Q                      | Q                                | Q                          | Q     | Q   | NF   |                  |
| <b>Ownership of Unit</b>                    |                      |      |             |     |                        |                                  |                            |       |   |      |                  |
| Owned .....                                 | 1.9                  | 28.8 | 315         | 345 | 1,304                  | 2,203                            | 2,847                      | .110  | 12.0  | 13.5 |                  |
| Rented .....                                | .3                   | 22.8 | 250         | 254 | 900                    | 2,090                            | 2,621                      | .133  | 13.5  | 15.9 |                  |
| <b>Year of Construction</b>                 |                      |      |             |     |                        |                                  |                            |       |   |      |                  |
| 1949 or Before .....                        | .4                   | 40.7 | 445         | 516 | 1,062                  | 2,397                            | 3,120                      | .175  | 20.3  | 16.0 |                  |
| 1950 to 1979 .....                          | 1.1                  | 24.9 | 272         | 299 | 1,277                  | 1,832                            | 2,467                      | .116  | 12.8  | 15.5 |                  |
| 1980 or After <sup>2</sup> .....            | .7                   | 24.9 | 273         | 270 | 1,292                  | 2,658                            | 3,211                      | .080  | 7.9   | 21.6 |                  |
| <b>1990 Family Income</b>                   |                      |      |             |     |                        |                                  |                            |       |   |      |                  |
| Less than \$10,000 .....                    | .7                   | 26.2 | 287         | 312 | 938                    | 2,024                            | 2,615                      | .151  | 16.4  | 13.5 |                  |
| \$10,000 to \$19,999 .....                  | .7                   | 26.7 | 293         | 332 | 1,267                  | 2,339                            | 2,957                      | .099  | 11.2  | 17.0 |                  |
| \$20,000 to \$34,999 .....                  | .4                   | 28.2 | 308         | 336 | 1,452                  | 1,947                            | 2,606                      | .109  | 11.9  | 26.3 |                  |
| \$35,000 or More .....                      | .4                   | 32.5 | 356         | 361 | 1,569                  | 2,419                            | 3,099                      | .094  | 9.5   | 24.8 |                  |
| <b>Below Poverty Line</b>                   |                      |      |             |     |                        |                                  |                            |       |   |      |                  |
| 100 Percent .....                           | .7                   | 26.7 | 293         | 313 | 991                    | 2,319                            | 2,905                      | .127  | 13.6  | 14.8 |                  |
| 125 Percent .....                           | .9                   | 24.4 | 268         | 287 | 981                    | 2,123                            | 2,707                      | .128  | 13.8  | 12.8 |                  |
| <b>Age of Householder</b>                   |                      |      |             |     |                        |                                  |                            |       |   |      |                  |
| Under 35 Years .....                        | .6                   | 24.8 | 272         | 287 | 1,035                  | 2,172                            | 2,725                      | .121  | 12.8  | 19.1 |                  |
| 35 to 59 Years .....                        | .8                   | 25.0 | 274         | 290 | 1,305                  | 2,330                            | 2,991                      | .090  | 9.5   | 15.5 |                  |
| 60 Years and Over .....                     | .8                   | 33.0 | 362         | 406 | 1,320                  | 2,041                            | 2,683                      | .134  | 15.1  | 17.5 |                  |

See footnotes at end of table.

SPACE-HEATING CONSUMPTION/EXPENDITURES

Table 74. Liquefied Petroleum Gas Consumption and Expenditures for Main Space Heating, per South Region Household, 1990 (Continued)

| Characteristics  | Households (million) | Consumption   |           | Expenditures (dollars) | Heated Floor-space (square feet) | Annual Heating Degree-Days |                              | Liquefied Petroleum Gas Space-Heating Intensity |   | RSE Row Factor |
|--|----------------------|---------------|-----------|------------------------|----------------------------------|----------------------------|------------------------------|---|---|----------------|
|  |                      | (million Btu) | (gallons) |                        |                                  | 1990                       | 30-Year Average <sup>1</sup> | Consumption (gallons/HDD*1000 square feet)      | Expenditures (cents/HDD*1000 square feet) |                |
| South Region   |                      |               |           |                        |                                  |                            |                              |   |   |                |
| <b>Household Size</b>  |                      |               |           |                        |                                  |                            |                              |   |   |                |
| 1 Person .....   | 0.5                  | 25.5          | 280       | 296                    | 872                              | 2,261                      | 2,875                        | 0.142   | 15.0                                      | 16.6           |
| 2 to 4 Persons .....   | 1.4                  | 29.7          | 325       | 356                    | 1,398                            | 2,109                      | 2,755                        | .110  | 12.1                                      | 13.1           |
| 5 or More Persons .....  | .3                   | 23.0          | 252       | 269                    | 1,181                            | 2,428                      | 2,978                        | .088  | 9.4                                       | 25.3           |
| <b>Main Heating Equipment Using LPG</b>                                  |                      |               |           |                        |                                  |                            |                              |   |   |                |
| Central Warm-Air Furnace .....   | 1.1                  | 28.2          | 309       | 324                    | 1,351                            | 2,324                      | 2,928                        | .098  | 10.3                                      | 6.4            |
| Room Heater/Other .....  | 1.1                  | 27.4          | 300       | 337                    | 1,132                            | 2,047                      | 2,695                        | .130  | 14.6                                      | 5.4            |
| <b>Age of Main Heating Equipment</b>                                     |                      |               |           |                        |                                  |                            |                              |   |   |                |
| Less than 5 Years .....  | .6                   | 28.8          | 316       | 324                    | 1,331                            | 2,229                      | 2,896                        | .106  | 10.9                                      | 18.7           |
| 5 to 9 Years .....   | .7                   | 25.1          | 275       | 298                    | 1,284                            | 2,372                      | 2,970                        | .090  | 9.8                                       | 19.3           |
| 10 to 19 Years .....   | .5                   | 27.3          | 299       | 335                    | 1,238                            | 1,939                      | 2,557                        | .124  | 14.0                                      | 15.3           |
| 20 Years or More .....   | .3                   | 29.1          | 319       | 372                    | 947                              | 1,913                      | 2,530                        | .176  | 20.5                                      | 22.4           |
| Don't Know .....   | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q   | Q   | NF             |
| <b>Secondary Heating Fuel (more than one may apply)</b>                  |                      |               |           |                        |                                  |                            |                              |   |   |                |
| No .....   | 1.2                  | 31.4          | 344       | 359                    | 1,204                            | 2,310                      | 2,933                        | .124  | 12.9                                      | 12.3           |
| Yes .....  | 1.0                  | 23.9          | 262       | 299                    | 1,283                            | 2,048                      | 2,678                        | .100  | 11.4                                      | 15.3           |
| Wood .....   | .3                   | 27.8          | 305       | 319                    | 1,467                            | 2,665                      | 3,192                        | Q   | Q   | 34.1           |
| Electricity .....  | .6                   | 24.3          | 266       | 320                    | 1,366                            | 1,759                      | 2,431                        | .111  | 13.3                                      | 17.3           |
| Kerosene .....   | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q   | Q   | NF             |
| Other .....  | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q   | Q   | NF             |
| <b>Average LPG Expenditures for Main Space Heat (dollars per gallon)</b> |                      |               |           |                        |                                  |                            |                              |   |   |                |
| Less than .75 .....  | Q                    | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q   | Q   | NF             |
| .75 to Less than 1.00 .....  | .8                   | 26.1          | 286       | 265                    | 1,177                            | 2,582                      | 3,136                        | .094  | 8.7                                       | 18.1           |
| 1.00 or More .....   | 1.4                  | 28.2          | 309       | 369                    | 1,229                            | 1,898                      | 2,557                        | .132  | 15.8                                      | 13.2           |
| <b>Winter Temperature Inside Housing Unit</b>                            |                      |               |           |                        |                                  |                            |                              |   |   |                |
| Prefer Usual Temperature .....   | 1.9                  | 28.7          | 314       | 343                    | 1,300                            | 2,168                      | 2,801                        | .111  | 12.2                                      | 11.7           |
| Warmer Temperature .....   | .3                   | 23.2          | 254       | 265                    | 930                              | 2,279                      | 2,873                        | .120  | 12.5                                      | 20.9           |
| Cooler Temperature .....   | NC                   | NC            | NC        | NC                     | NC                               | NC                         | NC                           | NC  | NC  | NC             |
| <b>Adequacy of Insulation</b>  |                      |               |           |                        |                                  |                            |                              |   |   |                |
| Well Insulated .....   | 1.1                  | 26.8          | 294       | 310                    | 1,503                            | 2,431                      | 3,084                        | .080  | 8.5                                       | 16.8           |
| Adequately Insulated .....   | .6                   | 28.0          | 307       | 366                    | 1,055                            | 1,881                      | 2,508                        | .155  | 18.5                                      | 14.7           |
| Poorly Insulated .....   | .5                   | 29.7          | 326       | 332                    | 912                              | 2,038                      | 2,608                        | .175  | 17.8                                      | 12.3           |
| Don't Know .....   | NC                   | NC            | NC        | NC                     | NC                               | NC                         | NC                           | NC  | NC  | NC             |

See footnotes at end of table.

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Table 74. Liquefied Petroleum Gas Consumption and Expenditures for Main Space Heating, per South Region Household, 1990 (Continued)

| Characteristics   | Households (millions) | Consumption   |           | Expenditures (dollars) | Heated Floor-space (square feet) | Annual Heating Degree-Days |                              | Liquefied Petroleum Gas Space-Heating Intensity |   | RSE Row Factors |
|---|-----------------------|---------------|-----------|------------------------|----------------------------------|----------------------------|------------------------------|---|---|-----------------|
|   |                       | (million Btu) | (gallons) |                        |                                  | 1990                       | 30-Year Average <sup>1</sup> | Consumption (gallons/HDD*1000 square feet)      | Expenditures (cents/HDD*1000 square feet) |                 |
|   |                       |               |           |                        |                                  |                            |                              |   |   |                 |
| RSE Column Factors:                                       |                       |               |           |                        |                                  |                            |                              |   |   |                 |
|   | 1.8                   | NF            | NF        | NF                     | 0.6                              | 0.8                        | 0.7                          | NF  | NF  |                 |
| South Atlantic Division                                   | 1.0                   | 27.5          | 301       | 350                    | 1,232                            | 1,791                      | 2,403                        | 0.136   | 15.9                                      | 17.4            |
| <b>Climate Zone<sup>1</sup></b>                           |                       |               |           |                        |                                  |                            |                              |   |   |                 |
| Under 2,000 HDD and Over 5,500 HDD                        | NC                    | NC            | NC        | NC                     | NC                               | NC                         | NC                           | NC  | NC  | NC              |
| Under 5,500 HDD and 2,000 HDD or More and Under 4,000 HDD | Q                     | 42.1          | 461       | 522                    | 1,250                            | 2,796                      | 3,495                        | .132  | 14.9                                      | 15.8            |
| Single-Family   | 5                     | 32.7          | 359       | 414                    | 1,453                            | 1,906                      | 2,573                        | .129  | 14.9                                      | 23.5            |
| Mobile Home   | .5                    | 21.8          | 238       | 280                    | 991                              | 1,666                      | 2,217                        | Q   | Q   | 23.2            |
| Multifamily (2 or more units)                             | NC                    | NC            | NC        | NC                     | NC                               | NC                         | NC                           | NC  | NC  | NC              |
| <b>Heated Floorspace (square feet)</b>                    |                       |               |           |                        |                                  |                            |                              |   |   |                 |
| Fewer than 1,000  | 4                     | 18.2          | 200       | 227                    | 788                              | 1,391                      | 1,873                        | .182  | Q   | 23.4            |
| 1,000 to 1,999  | .5                    | 32.5          | 356       | 428                    | 1,319                            | 2,103                      | 2,799                        | .128  | 15.4                                      | 19.9            |
| 2,000 or More   | Q                     | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q   | Q   | NF              |
| <b>Ownership of Unit</b>                                  |                       |               |           |                        |                                  |                            |                              |   |   |                 |
| Owned   | .9                    | 27.5          | 301       | 355                    | 1,292                            | 1,780                      | 2,415                        | .131  | 15.5                                      | 18.7            |
| Rented  | Q                     | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q   | Q   | NF              |
| <b>Year of Construction</b>                               |                       |               |           |                        |                                  |                            |                              |   |   |                 |
| 1949 or Before  | Q                     | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q   | Q   | NF              |
| 1950 to 1979  | .5                    | 23.9          | 262       | 308                    | 1,444                            | 1,377                      | 1,991                        | Q   | Q   | 36.3            |
| 1980 or After <sup>2</sup>                                | Q                     | 26.1          | 286       | 321                    | 958                              | 2,144                      | 2,684                        | .139  | 15.7                                      | 34.4            |
| <b>1990 Family Income</b>                                 |                       |               |           |                        |                                  |                            |                              |   |   |                 |
| Less than \$10,000  | .4                    | 26.1          | 286       | 335                    | 968                              | 1,773                      | 2,298                        | .167  | 19.5                                      | 26.4            |
| \$10,000 to \$19,999                                      | .3                    | 30.7          | 336       | 421                    | 1,112                            | 1,795                      | 2,463                        | .168  | 21.1                                      | 15.7            |
| \$20,000 to \$34,999                                      | Q                     | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q   | Q   | NF              |
| \$35,000 or More  | Q                     | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q   | Q   | NF              |
| <b>Below Poverty Line</b>                                 |                       |               |           |                        |                                  |                            |                              |   |   |                 |
| 100 Percent   | .3                    | 31.0          | 340       | 387                    | 996                              | 2,187                      | 2,745                        | .156  | 17.8                                      | 33.2            |
| 125 Percent   | .4                    | 26.4          | 289       | 335                    | 960                              | 1,826                      | 2,365                        | .165  | 19.1                                      | 26.9            |
| <b>Age of Householder</b>                                 |                       |               |           |                        |                                  |                            |                              |   |   |                 |
| Under 35 Years  | Q                     | 27.4          | 301       | 331                    | 995                              | 2,015                      | 2,527                        | .150  | 16.5                                      | 43.2            |
| 35 to 59 Years  | .3                    | 26.0          | 284       | 346                    | 1,202                            | 1,592                      | 2,272                        | Q   | Q   | 24.3            |
| 60 Years and Over   | .4                    | 28.6          | 313       | 365                    | 1,405                            | 1,791                      | 2,417                        | .124  | 14.5                                      | 28.4            |
| <b>Household Size</b>                                     |                       |               |           |                        |                                  |                            |                              |   |   |                 |
| 1 Person  | Q                     | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q   | Q   | NF              |
| 2 to 4 Persons  | .8                    | 27.4          | 300       | 344                    | 1,390                            | 1,745                      | 2,374                        | .124  | 14.2                                      | 19.8            |
| 5 or More Persons   | Q                     | Q             | Q         | Q                      | Q                                | Q                          | Q                            | Q   | Q   | NF              |

See footnotes at end of table.

SPACE-HEATING CONSUMPTION/EXPENDITURES

Table 74. Liquefied Petroleum Gas Consumption and Expenditures for Main Space Heating, per South Region Household, 1990 (Continued)

| Characteristics                       | Consumption          |               |           | Heated Floor-space (square feet) | Annual Heating Degree-Days |       | Liquefied Petroleum Gas Space-Heating Intensity |  | RSE Row Factor |   |
|---------------------------------------|----------------------|---------------|-----------|----------------------------------|----------------------------|-------|---|--|----------------|---|
|                                       | Households (million) | (million Btu) | (gallons) |                                  | Expenditures (dollars)     | 1990  | 30-Year Average <sup>1</sup>                    | Consumption (gallons/HDD*1000 square feet) |                | Expenditures (cents/HDD*1000 square feet) |
| RSE Column Factors:                   | 1.8                  | NF            | NF        | NF                               | 0.6                        | 0.8   | 0.7   | NF   | NF             |   |
| East South Central Division .....     | 0.6                  | 34.5          | 377       | 408                              | 1,184                      | 2,617 | 3,398   | 0.122                                      | 13.2           | 17.8                                      |
| <b>Climate Zone<sup>1</sup></b>       |                      |               |           |                                  |                            |       |   |  |                |   |
| Under 2,000 CDD and                   | NC                   | NC            | NC        | NC                               | NC                         | NC    | NC  | NC   | NC             | NC  |
| Over 5,500 HDD .....                  |                      |               |           |                                  |                            |       |   |  |                |   |
| Under 5,500 HDD .....                 | .6                   | 34.5          | 377       | 408                              | 1,184                      | 2,617 | 3,398   | .122                                       | 13.2           | 17.8                                      |
| 2,000 CDD or More and                 | NC                   | NC            | NC        | NC                               | NC                         | NC    | NC  | NC   | NC             | NC  |
| Under 4,000 HDD .....                 |                      |               |           |                                  |                            |       |   |  |                |   |
| <b>Type of Housing Unit</b>           |                      |               |           |                                  |                            |       |   |  |                |   |
| Single-Family .....                   | .5                   | 36.8          | 402       | 442                              | 1,278                      | 2,613 | 3,399   | .120                                       | 13.2           | 22.2                                      |
| Mobile Home .....                     | Q                    | Q             | Q         | Q                                | Q                          | Q     | Q   | Q  | Q              | NF  |
| Multifamily (2 or more units) .....   | NC                   | NC            | NC        | NC                               | NC                         | NC    | NC  | NC   | NC             | NC  |
| <b>Heated Floorpace (square feet)</b> |                      |               |           |                                  |                            |       |   |  |                |   |
| Fewer than 1,000 .....                | .3                   | 32.4          | 355       | 392                              | 798                        | 2,633 | 3,416   | .169                                       | 18.6           | 14.1                                      |
| 1,000 to 1,999 .....                  | .3                   | 35.0          | 383       | 404                              | 1,272                      | 2,572 | 3,344   | .117                                       | 12.4           | 25.8                                      |
| 2,000 or More .....                   | Q                    | Q             | Q         | Q                                | Q                          | Q     | Q   | Q  | Q              | NF  |
| <b>Ownership of Unit</b>              |                      |               |           |                                  |                            |       |   |  |                |   |
| Owned .....                           | .5                   | 35.8          | 392       | 427                              | 1,240                      | 2,608 | 3,399   | .121                                       | 13.2           | 20.3                                      |
| Rented .....                          | Q                    | Q             | Q         | Q                                | Q                          | Q     | Q   | Q  | Q              | NF  |
| <b>Year of Construction</b>           |                      |               |           |                                  |                            |       |   |  |                |   |
| 1949 or Before .....                  | .2                   | 44.4          | 486       | 566                              | 988                        | 2,639 | 3,426   | .186                                       | 21.7           | 36.0                                      |
| 1950 to 1979 .....                    | .4                   | 32.0          | 360       | 365                              | 1,215                      | 2,551 | 3,333   | .113                                       | 11.8           | 19.7                                      |
| 1980 or After <sup>2</sup> .....      | Q                    | Q             | Q         | Q                                | Q                          | Q     | Q   | Q  | Q              | NF  |
| <b>1990 Family Income</b>             |                      |               |           |                                  |                            |       |   |  |                |   |
| Less than \$10,000 .....              | .3                   | 29.3          | 320       | 320                              | 917                        | 2,409 | 3,120   | .145                                       | 14.5           | 19.1                                      |
| \$10,000 to \$19,999 .....            | Q                    | Q             | Q         | Q                                | Q                          | Q     | Q   | Q  | Q              | NF  |
| \$20,000 to \$34,999 .....            | Q                    | Q             | Q         | Q                                | Q                          | Q     | Q   | Q  | Q              | NF  |
| \$35,000 or More .....                | Q                    | Q             | Q         | Q                                | Q                          | Q     | Q   | Q  | Q              | NF  |
| <b>Below Poverty Line</b>             |                      |               |           |                                  |                            |       |   |  |                |   |
| 100 Percent .....                     | .2                   | 29.0          | 317       | 316                              | 901                        | 2,451 | 3,150   | .144                                       | 14.3           | 19.9                                      |
| 125 Percent .....                     | .3                   | 28.2          | 309       | 308                              | 932                        | 2,384 | 3,097   | .139                                       | 13.9           | 21.0                                      |
| <b>Age of Householder</b>             |                      |               |           |                                  |                            |       |   |  |                |   |
| Under 35 Years .....                  | Q                    | Q             | Q         | Q                                | Q                          | Q     | Q   | Q  | Q              | NF  |
| 35 to 59 Years .....                  | .3                   | 25.8          | 282       | 303                              | 1,191                      | 2,615 | 3,370   | .091                                       | 9.7            | 17.7                                      |
| 60 Years and Over .....               | .3                   | 43.2          | 473       | 524                              | 1,290                      | 2,650 | 3,377   | .140                                       | 15.5           | 22.3                                      |
| <b>Household Size</b>                 |                      |               |           |                                  |                            |       |   |  |                |   |
| 1 Person .....                        | .2                   | Q             | Q         | Q                                | Q                          | 2,437 | 3,189   | .143                                       | 13.9           | 18.1                                      |
| 2 to 4 Persons .....                  | .3                   | 39.0          | 427       | 492                              | 1,383                      | 2,725 | 3,534   | .113                                       | 13.1           | 17.6                                      |
| 5 or More Persons .....               | Q                    | Q             | Q         | Q                                | Q                          | Q     | Q   | Q  | Q              | NF  |

1 The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

2 Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the West South Central Division are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-D of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 75. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, South Region Households, 1990

| Characteristics   | Electricity Used for All Air Conditioning |                                  | Electricity Used for Central Air Conditioning <sup>1</sup> |                      |               |           |                                  |                              |   |  |      |                  | RSE Flow Factors |   |
|---|---|----------------------------------|--|----------------------|---------------|-----------|----------------------------------|------------------------------|---|--|------|------------------|------------------|---|
|   | Households (million)                      | Total Consumption (trillion Btu) | Expenditures (billion dollars)                             | Households (million) | Consumption   |           | Cooled Floor-space (square feet) | Annual Cooling Degree-Days   |   | Electric Air-Conditioning Intensity                |      | RSE Flow Factors |                  |   |
|   |   |                                  |  |                      | (million Btu) | (dollars) |                                  | 30-Year Average <sup>2</sup> | Con- sumption (kWh/1000 CDD*1000 square feet) | Ex- pend- itures (cents/1000 CDD*1000 square feet) | Q    |                  |                  | Q |
|   |   |                                  |  |                      |               |           |                                  |                              |   |  |      |                  |                  |   |
| South Region  |   |                                  |  |                      |               |           |                                  |                              |   |  |      |                  |                  |   |
| <b>Total Region</b> .....                                       | 27.0                                      | 336.6                            | 7.36   | 18.4                 | 15.0          | 4,399     | 327                              | 1,789                        | 2,344   | 2,115  | 1.05 | 7.8              | 4.0              |   |
| <b>Climate Zone<sup>2</sup></b>                                 |   |                                  |  |                      |               |           |                                  |                              |   |  |      |                  |                  |   |
| Under 2,000 HDD and Over 5,500 HDD .....                        | Q   | Q                                | Q  | Q                    | Q             | Q         | Q                                | Q                            | Q   | Q  | Q    | Q                | Q                |   |
| Under 5,500 HDD and 2,000 HDD or More and Under 4,000 HDD ..... | 14.1                                      | 112.8                            | 2.35   | 9.2                  | 9.8           | 2,881     | 205                              | 1,896                        | 1,633   | 1,458  | .93  | 6.6              | 6.8              |   |
| Under 4,000 HDD .....   | 12.9                                      | 223.7                            | 5.01   | 9.2                  | 20.2          | 5,920     | 450                              | 1,685                        | 3,059   | 2,775  | 1.15 | 8.7              | 6.1              |   |
| <b>Type of Housing Unit</b>                                     |   |                                  |  |                      |               |           |                                  |                              |   |  |      |                  |                  |   |
| Single-Family .....   | 19.7                                      | 267.1                            | 5.85   | 13.0                 | 16.7          | 4,903     | 365                              | 2,173                        | 2,355   | 2,121  | .96  | 7.1              | 4.6              |   |
| Mobile Home .....   | 1.4                                       | 14.7                             | .32  | .6                   | 14.4          | 4,208     | 306                              | 1,040                        | 1,864   | 1,765  | 2.17 | 15.8             | 17.5             |   |
| Multifamily (2 or more units) .....                             | 5.9                                       | 54.8                             | 1.20   | 4.7                  | 10.4          | 3,036     | 226                              | 835                          | 2,382   | 2,145  | 1.53 | 11.4             | 8.6              |   |
| <b>Heated Floorspace (square feet)</b>                          |   |                                  |  |                      |               |           |                                  |                              |   |  |      |                  |                  |   |
| Fewer than 1,000 .....  | 8.4                                       | 74.5                             | 1.64   | 5.0                  | 10.8          | 3,176     | 239                              | 775                          | 2,446   | 2,174  | 1.67 | 12.6             | 7.0              |   |
| 1,000 to 1,999 .....  | 12.8                                      | 161.1                            | 3.55   | 8.3                  | 15.0          | 4,406     | 330                              | 1,614                        | 2,406   | 2,190  | 1.13 | 8.5              | 4.9              |   |
| 2,000 or More .....   | 5.8                                       | 101.0                            | 2.17   | 5.1                  | 19.1          | 5,585     | 409                              | 3,072                        | 2,143   | 1,934  | .85  | 6.2              | 7.1              |   |
| <b>Ownership of Unit</b>  |   |                                  |  |                      |               |           |                                  |                              |   |  |      |                  |                  |   |
| Owned .....   | 18.2                                      | 245.1                            | 5.35   | 12.4                 | 16.2          | 4,751     | 353                              | 2,170                        | 2,272   | 2,050  | .96  | 7.2              | 4.8              |   |
| Rented .....  | 8.8                                       | 91.5                             | 2.00   | 5.9                  | 12.5          | 3,657     | 273                              | 988                          | 2,498   | 2,251  | 1.48 | 11.0             | 7.1              |   |
| <b>Year of Construction</b>                                     |   |                                  |  |                      |               |           |                                  |                              |   |  |      |                  |                  |   |
| 1949 or Before .....  | 4.3                                       | 36.2                             | .80  | 1.2                  | 13.4          | 3,929     | 292                              | 1,926                        | 2,007   | 1,824  | 1.02 | 7.5              | 9.5              |   |
| 1950 to 1979 .....  | 15.7                                      | 213.6                            | 4.64   | 11.1                 | 16.1          | 4,712     | 349                              | 1,806                        | 2,391   | 2,179  | 1.09 | 8.1              | 4.9              |   |
| 1980 or After <sup>3</sup> .....                                | 7.0                                       | 86.7                             | 1.91   | 6.1                  | 13.4          | 3,920     | 295                              | 1,733                        | 2,325   | 2,055  | .97  | 7.3              | 8.9              |   |
| <b>1990 Family Income</b>                                       |   |                                  |  |                      |               |           |                                  |                              |   |  |      |                  |                  |   |
| Less than \$10,000 .....  | 4.4                                       | 35.2                             | .78  | 1.9                  | 11.0          | 3,229     | 244                              | 1,277                        | 2,176   | 2,002  | 1.16 | 8.8              | 10.9             |   |
| \$10,000 to \$19,999 .....                                      | 5.6                                       | 56.5                             | 1.22   | 3.0                  | 12.8          | 3,758     | 274                              | 1,334                        | 2,305   | 2,099  | 1.22 | 8.9              | 6.8              |   |
| \$20,000 to \$34,999 .....                                      | 7.2                                       | 82.7                             | 1.84   | 4.9                  | 13.5          | 3,969     | 301                              | 1,490                        | 2,474   | 2,221  | 1.08 | 8.2              | 5.9              |   |
| \$35,000 or More .....  | 9.9                                       | 162.1                            | 3.52   | 8.6                  | 17.5          | 5,127     | 379                              | 2,233                        | 2,320   | 2,084  | .99  | 7.3              | 5.5              |   |
| <b>Below Poverty Line</b>                                       |   |                                  |  |                      |               |           |                                  |                              |   |  |      |                  |                  |   |
| 100 Percent .....   | 3.6                                       | 29.2                             | .64  | 1.4                  | 11.3          | 3,313     | 247                              | 1,242                        | 2,284   | 2,091  | 1.17 | 8.7              | 11.2             |   |
| 125 Percent .....   | 5.0                                       | 42.9                             | .95  | 2.0                  | 12.7          | 3,712     | 279                              | 1,293                        | 2,368   | 2,168  | 1.21 | 9.1              | 11.0             |   |
| <b>Age of Householder</b>                                       |   |                                  |  |                      |               |           |                                  |                              |   |  |      |                  |                  |   |
| Under 35 Years .....  | 8.0                                       | 91.4                             | 2.01   | 5.8                  | 13.0          | 3,611     | 288                              | 1,304                        | 2,404   | 2,158  | 1.22 | 9.2              | 6.8              |   |
| 35 to 59 Years .....  | 11.7                                      | 174.2                            | 3.79   | 8.8                  | 17.3          | 5,068     | 375                              | 2,070                        | 2,345   | 2,118  | 1.04 | 7.7              | 5.1              |   |
| 60 Years and Over .....   | 7.3                                       | 70.9                             | 1.55   | 3.8                  | 12.8          | 3,756     | 278                              | 1,889                        | 2,251   | 2,041  | .88  | 6.5              | 6.0              |   |

See footnotes at end of table.

**AIR-CONDITIONING CONSUMPTION/EXPENDITURES**

**Table 75. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, South Region Households, 1990 (Continued)**

| Characteristics  | Electricity Used for All Air Conditioning |                                  | Electricity Used for Central Air Conditioning <sup>1</sup> |                        |                                  |                              |                               |                                  |                                     |       | RSE Row Factors |      |      |
|--|---|----------------------------------|--|------------------------|----------------------------------|------------------------------|-------------------------------|----------------------------------|-------------------------------------|-------|-----------------|------|------|
|  | Households (million)                      | Total Consumption (trillion Btu) | per Household  |                        |                                  |                              | Annual Cooling Degree-Days    |                                  | Electric Air-Conditioning Intensity |       |                 |      |      |
|  |   |                                  | Consumption  | Expenditures (dollars) | Cooled Floor-space (square feet) | 30-Year Average <sup>2</sup> | Consumption (kWh/square feet) | Expenditures (cents/square feet) |                                     |       |                 |      |      |
|  |   |                                  |  |                        |                                  |                              |                               |                                  | 1.5                                 | 1.2   |                 | 0.8  | 0.7  |
| Households (million)   | Expenditures (billions dollars)           | Households (million)             | Consumption (million Btu)                                  | Expenditures (dollars) | Cooled Floor-space (square feet) | Annual Cooling Degree-Days   | 30-Year Average <sup>2</sup>  | Consumption (kWh/square feet)    | Expenditures (cents/square feet)    |       |                 |      |      |
| RSE Column Factors:  | 1.2                                       | NF                               | NF   | NF                     | NF                               | 0.8                          | 0.7                           | 0.7                              | NF                                  | NF    |                 |      |      |
| <b>South Region</b>  |   |                                  |  |                        |                                  |                              |                               |                                  |                                     |       |                 |      |      |
| <b>Household Size</b>  |   |                                  |  |                        |                                  |                              |                               |                                  |                                     |       |                 |      |      |
| 1 Person .....   | 6.6                                       | 52.9                             | 1.18   | 4.0                    | 9.6                              | 2,810                        | 213                           | 1,279                            | 2,255                               | 2,016 | 0.97            | 7.4  | 6.9  |
| 2 to 4 Persons .....   | 17.6                                      | 240.1                            | 5.24   | 12.5                   | 16.2                             | 4,753                        | 353                           | 1,928                            | 2,358                               | 2,130 | 1.05            | 7.8  | 4.3  |
| 5 or More Persons .....  | 2.8                                       | 43.5                             | .94  | 1.9                    | 18.5                             | 5,427                        | 398                           | 1,958                            | 2,441                               | 2,227 | 1.14            | 8.3  | 7.1  |
| <b>Cooling Degree-Days (CDD)-1990</b>                            |   |                                  |  |                        |                                  |                              |                               |                                  |                                     |       |                 |      |      |
| 2,000 or More .....  | 15.3                                      | 249.9                            | 5.60   | 10.9                   | 19.1                             | 5,591                        | 426                           | 1,677                            | 2,953                               | 2,654 | 1.13            | 8.6  | 6.2  |
| 1,000 to 1,999 .....   | 10.8                                      | 81.9                             | 1.87   | 7.0                    | 9.3                              | 2,717                        | 189                           | 1,906                            | 1,512                               | 1,370 | .94             | 6.5  | 7.3  |
| 500 to 999 .....   | Q   | Q                                | Q  | Q                      | 7.4                              | 2,175                        | 131                           | Q                                | 872                                 | 917   | Q               | Q    | 51.3 |
| Fewer than 500 .....   | Q   | Q                                | Q  | Q                      | Q                                | Q                            | Q                             | Q                                | Q                                   | Q     | Q               | Q    | NF   |
| <b>Average Humidity for June, July and August 1990 (percent)</b> |   |                                  |  |                        |                                  |                              |                               |                                  |                                     |       |                 |      |      |
| Less than 65 .....   | Q   | Q                                | Q  | Q                      | Q                                | Q                            | Q                             | Q                                | Q                                   | Q     | Q               | Q    | NF   |
| 65 to Less than 70 .....   | 6.4                                       | 61.4                             | 1.32   | 4.0                    | 11.7                             | 3,434                        | 249                           | 1,626                            | 1,894                               | 1,771 | 1.12            | 8.1  | 2.3  |
| 70 or Higher .....   | 20.0                                      | 267.1                            | 5.88   | 13.7                   | 16.1                             | 4,719                        | 354                           | 1,829                            | 2,503                               | 2,255 | 1.03            | 7.7  | 5.3  |
| <b>Average Electricity Expenditures (cents per kWh)</b>          |   |                                  |  |                        |                                  |                              |                               |                                  |                                     |       |                 |      |      |
| Less than 6 .....  | 4.0                                       | 43.9                             | .72  | 2.6                    | 13.5                             | 3,966                        | 223                           | 2,099                            | 1,759                               | 1,625 | 1.07            | 6.0  | 10.3 |
| 6 to Less than 9 .....   | 21.5                                      | 285.2                            | 6.41   | 15.1                   | 15.6                             | 4,583                        | 351                           | 1,759                            | 2,456                               | 2,211 | 1.06            | 8.1  | 4.5  |
| 9 or More .....  | 1.5                                       | 7.4                              | .22  | .7                     | 6.7                              | 1,958                        | 200                           | 1,247                            | 2,131                               | 1,863 | .74             | 7.5  | 19.7 |
| <b>Number of Rooms Usually Air Conditioned</b>                   |   |                                  |  |                        |                                  |                              |                               |                                  |                                     |       |                 |      |      |
| 1 to 3 .....   | 6.5                                       | 46.5                             | 1.04   | 2.6                    | 10.1                             | 2,963                        | 224                           | 674                              | 2,531                               | 2,249 | 1.74            | 13.1 | 9.4  |
| 4 to 6 .....   | 14.8                                      | 190.6                            | 4.20   | 10.6                   | 14.5                             | 4,235                        | 319                           | 1,580                            | 2,351                               | 2,136 | 1.14            | 8.6  | 5.3  |
| 7 or More .....  | 5.7                                       | 99.6                             | 2.12   | 5.2                    | 18.6                             | 5,447                        | 396                           | 2,771                            | 2,239                               | 2,005 | .88             | 6.4  | 7.3  |
| <b>Frequency of Use of Air Conditioning<sup>1</sup></b>          |   |                                  |  |                        |                                  |                              |                               |                                  |                                     |       |                 |      |      |
| Only a Few Times .....   | 5.2                                       | 23.7                             | .54  | 2.6                    | 7.0                              | 2,065                        | 158                           | 1,536                            | 2,059                               | 1,848 | .65             | 5.0  | 8.9  |
| Quite a Bit .....  | 5.7                                       | 55.8                             | 1.22   | 3.3                    | 12.1                             | 3,533                        | 262                           | 1,620                            | 2,137                               | 1,905 | 1.02            | 7.6  | 6.4  |
| All Summer .....   | 15.9                                      | 255.2                            | 5.57   | 12.3                   | 17.5                             | 5,128                        | 381                           | 1,897                            | 2,459                               | 2,225 | 1.10            | 8.2  | 4.6  |
| Other .....  | Q   | Q                                | Q  | Q                      | Q                                | Q                            | Q                             | Q                                | Q                                   | Q     | Q               | Q    | NF   |
| <b>Age of Air Conditioning Equipment<sup>4</sup></b>             |   |                                  |  |                        |                                  |                              |                               |                                  |                                     |       |                 |      |      |
| Less than 5 Years .....  | 7.7                                       | 95.2                             | 2.09   | 5.1                    | 15.1                             | 4,434                        | 331                           | 2,121                            | 2,270                               | 2,024 | .92             | 6.9  | 6.6  |
| 5 to 9 Years .....   | 7.7                                       | 89.0                             | 1.97   | 4.7                    | 14.5                             | 4,236                        | 321                           | 1,679                            | 2,308                               | 2,070 | 1.09            | 8.3  | 7.0  |
| 10 or More Years .....   | 8.7                                       | 118.4                            | 2.57   | 6.2                    | 16.2                             | 4,755                        | 351                           | 1,894                            | 2,409                               | 2,196 | 1.04            | 7.7  | 5.6  |
| Don't Know .....   | 2.6                                       | 31.3                             | .68  | 2.1                    | 13.5                             | 3,957                        | 291                           | 1,108                            | 2,481                               | 2,253 | 1.44            | 10.6 | 10.1 |

See footnotes at end of table.

**SOUTH**



Table 75. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, South Region Households, 1990 (Continued)

| Characteristics                        | Electricity Used for All Air Conditioning |       |                                |     | Electricity Used for Central Air Conditioning <sup>1</sup> |       |                        |       |                                  |       |                            |      |                                     |    | RSE Row Factors |
|--|---|-------|--------------------------------|-----|--|-------|------------------------|-------|----------------------------------|-------|----------------------------|------|-------------------------------------|----|-----------------|
|  | Households (million)                      |       | Expenditures (billion dollars) |     | Consumption (million Btu)                                  |       | Expenditures (dollars) |       | Cooled Floor-space (square feet) |       | Annual Cooling Degree-Days |      | Electric Air-Conditioning Intensity |    |                 |
|  | Q   | NF    | Q                              | NF  | Q  | NF    | Q                      | NF    | Q                                | NF    | Q                          | NF   | Q                                   | NF |                 |
|  | 1.2                                       | NF    | 1.5                            | NF  | 1.5  | NF    | 1.5                    | NF    | 0.8                              | 0.7   | 0.7                        | NF   | 0.7                                 | NF |                 |
| <b>RSE Column Factors:</b>             | 13.8                                      | 154.7 | 3.60                           | 9.8 | 13.6   | 3,973 | 316                    | 1,703 | 2,347                            | 2,049 | 0.99                       | 7.9  | 5.7                                 |    |                 |
| <b>South Atlantic Division</b>         | 13.8                                      | 154.7 | 3.60                           | 9.8 | 13.6   | 3,973 | 316                    | 1,703 | 2,347                            | 2,049 | 0.99                       | 7.9  | 5.7                                 |    |                 |
| <b>Climate Zone<sup>2</sup></b>        |   |       |                                |     |  |       |                        |       |                                  |       |                            |      |                                     |    |                 |
| Under 2,000 HDD                        | 9.0                                       | 68.5  | 1.55                           | 6.1 | 9.2  | 2,707 | 209                    | 1,743 | 1,630                            | 1,439 | Q                          | 7.4  | 8.2                                 |    |                 |
| Over 5,500 HDD                         | 4.7                                       | 86.1  | 2.05                           | 3.7 | 20.9   | 6,114 | 497                    | 1,841 | 3,561                            | 3,083 | 1.05                       | 8.5  | 8.3                                 |    |                 |
| 2,000 CDD or More and Under 4,000 HDD  | 9.6                                       | 120.8 | 2.82                           | 6.8 | 15.5   | 4,528 | 361                    | 2,073 | 2,398                            | 2,095 | .91                        | 7.3  | 6.6                                 |    |                 |
| <b>Type of Housing Unit</b>            | 8   | 8.1   | .18                            | .4  | 13.1   | 3,854 | 289                    | 999   | 1,758                            | 1,704 | 2.19                       | 16.4 | 24.2                                |    |                 |
| Single-Family                          | 3.4                                       | 25.9  | .60                            | 2.6 | 8.7  | 2,543 | 203                    | 845   | 2,305                            | 1,982 | 1.31                       | 10.4 | 11.4                                |    |                 |
| Mobile Home                            | 4.7                                       | 86.1  | 2.05                           | 3.7 | 20.9   | 6,114 | 497                    | 1,841 | 3,561                            | 3,083 | 1.05                       | 8.5  | 8.3                                 |    |                 |
| Multifamily (2 or more units)          | 4.7                                       | 86.1  | 2.05                           | 3.7 | 20.9   | 6,114 | 497                    | 1,841 | 3,561                            | 3,083 | 1.05                       | 8.5  | 8.3                                 |    |                 |
| <b>Heated Floorspace (square feet)</b> |   |       |                                |     |  |       |                        |       |                                  |       |                            |      |                                     |    |                 |
| Fewer than 1,000                       | 4.7                                       | 38.1  | .90                            | 2.9 | 9.8  | 2,873 | 233                    | 786   | 2,465                            | 2,121 | 1.48                       | 12.0 | 7.8                                 |    |                 |
| 1,000 to 1,999                         | 6.1                                       | 67.4  | 1.57                           | 4.4 | 13.3   | 3,896 | 310                    | 1,569 | 2,387                            | 2,103 | 1.04                       | 8.3  | 8.2                                 |    |                 |
| 2,000 or More                          | 3.0                                       | 49.2  | 1.14                           | 2.5 | 18.4   | 5,394 | 424                    | 3,008 | 2,140                            | 1,872 | .84                        | 6.6  | 10.0                                |    |                 |
| <b>Ownership of Unit</b>               |   |       |                                |     |  |       |                        |       |                                  |       |                            |      |                                     |    |                 |
| Owned                                  | 9.1                                       | 110.7 | 2.57                           | 6.6 | 14.7   | 4,310 | 343                    | 2,068 | 2,270                            | 1,990 | .92                        | 7.3  | 6.2                                 |    |                 |
| Rented                                 | 4.7                                       | 44.0  | 1.03                           | 3.2 | 11.2   | 3,286 | 262                    | 956   | 2,505                            | 2,170 | 1.37                       | 11.0 | 10.0                                |    |                 |
| <b>Year of Construction</b>            |   |       |                                |     |  |       |                        |       |                                  |       |                            |      |                                     |    |                 |
| 1949 or Before                         | 2.1                                       | 15.6  | .36                            | .6  | 13.4   | 3,920 | 311                    | 1,858 | 1,994                            | 1,791 | 1.06                       | 8.4  | 13.5                                |    |                 |
| 1950 to 1979                           | 7.4                                       | 89.3  | 2.06                           | 5.3 | 14.5   | 4,257 | 336                    | 1,818 | 2,332                            | 2,051 | 1.00                       | 7.9  | 6.9                                 |    |                 |
| 1980 or After <sup>3</sup>             | 4.3                                       | 49.9  | 1.18                           | 3.9 | 12.3   | 3,595 | 291                    | 1,520 | 2,426                            | 2,089 | .97                        | 7.9  | 11.8                                |    |                 |
| <b>1990 Family Income</b>              |   |       |                                |     |  |       |                        |       |                                  |       |                            |      |                                     |    |                 |
| Less than \$10,000                     | 2.0                                       | 13.8  | .32                            | .9  | 10.1   | 2,972 | 235                    | 1,347 | 2,079                            | 1,849 | 1.06                       | 8.4  | 17.7                                |    |                 |
| \$10,000 to \$19,999                   | 2.7                                       | 22.9  | .53                            | 1.5 | 10.1   | 2,970 | 237                    | 1,176 | 2,275                            | 2,010 | 1.11                       | 8.9  | 9.3                                 |    |                 |
| \$20,000 to \$34,999                   | 3.6                                       | 36.7  | .87                            | 2.6 | 12.5   | 3,653 | 299                    | 1,311 | 2,555                            | 2,204 | 1.09                       | 8.9  | 8.3                                 |    |                 |
| \$35,000 or More                       | 5.6                                       | 81.3  | 1.88                           | 4.9 | 15.8   | 4,633 | 365                    | 2,136 | 2,309                            | 2,016 | .94                        | 7.4  | 7.2                                 |    |                 |
| <b>Below Poverty Line</b>              |   |       |                                |     |  |       |                        |       |                                  |       |                            |      |                                     |    |                 |
| 100 Percent                            | 1.3                                       | 10.1  | .24                            | .6  | 11.4   | 3,328 | 266                    | 1,319 | 2,297                            | 1,980 | 1.10                       | 8.8  | 19.2                                |    |                 |
| 125 Percent                            | 2.0                                       | 15.6  | .37                            | .9  | 12.2   | 3,585 | 287                    | 1,369 | 2,402                            | 2,111 | 1.08                       | 8.7  | 17.4                                |    |                 |
| <b>Age of Householder</b>              |   |       |                                |     |  |       |                        |       |                                  |       |                            |      |                                     |    |                 |
| Under 35 Years                         | 4.3                                       | 44.2  | 1.04                           | 3.3 | 11.5   | 3,377 | 272                    | 1,187 | 2,430                            | 2,108 | 1.17                       | 9.4  | 10.0                                |    |                 |
| 35 to 59 Years                         | 6.0                                       | 82.2  | 1.91                           | 4.6 | 16.1   | 4,708 | 374                    | 2,086 | 2,359                            | 2,060 | .96                        | 7.6  | 7.7                                 |    |                 |
| 60 Years and Over                      | 3.5                                       | 28.3  | .65                            | 1.8 | 10.9   | 3,189 | 250                    | 1,673 | 2,165                            | 1,912 | .88                        | 6.9  | 8.3                                 |    |                 |
| <b>Household Size</b>                  |   |       |                                |     |  |       |                        |       |                                  |       |                            |      |                                     |    |                 |
| 1 Person                               | 3.5                                       | 23.8  | .56                            | 2.3 | 8.1  | 2,364 | 192                    | 1,280 | 2,171                            | 1,898 | .85                        | 6.9  | 8.2                                 |    |                 |
| 2 to 4 Persons                         | 9.1                                       | 115.6 | 2.69                           | 6.6 | 15.2   | 4,441 | 353                    | 1,803 | 2,403                            | 2,100 | 1.03                       | 8.1  | 6.7                                 |    |                 |
| 5 or More Persons                      | 1.2                                       | 15.4  | .35                            | .9  | 15.8   | 4,636 | 364                    | 2,048 | 2,385                            | 2,059 | .95                        | 7.5  | 9.4                                 |    |                 |

See footnotes at end of table.

**Table 75. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, South Region Households, 1990 (Continued)**

| Characteristics                        | Electricity Used for All Air Conditioning |              | Electricity Used for Central Air Conditioning <sup>1</sup> |              |                                  |       |                              |                            |                                     |                       |      |      | RSE Row Factors |    |
|--|---|--------------|--|--------------|----------------------------------|-------|------------------------------|----------------------------|-------------------------------------|-----------------------|------|------|-----------------|----|
|  | Total Consumption                         | Expenditures | per Household  |              |                                  |       |                              | Annual Cooling Degree-Days | Electric Air-Conditioning Intensity | Expenditures/CDD*1000 |      |      |                 |    |
|  |   |              | Consumption  | Expenditures | Cooled Floor-Space (square feet) | 1990  | 30-Year Average <sup>2</sup> |                            |                                     |                       |      |      |                 |    |
| RSE Column Factors:                    | 1.2                                       | NF           | NF   | NF           | 1.5                              | NF    | NF                           | NF                         | 0.8                                 | 0.7                   | 0.7  | NF   | NF              |    |
| <b>East South Central Division</b> ... | 5.2                                       | 54.6         | 0.95   | 3.3          | 12.9                             | 3,788 | 224                          | 2,019                      | 1,849                               | 1,691                 | 1.01 | 6.0  | 6.0             |    |
| <b>Climate Zone<sup>2</sup></b>        |   |              |  |              |                                  |       |                              |                            |                                     |                       |      |      |                 |    |
| Under 2,000 CDD and Over 5,500 HDD     | NC  | NC           | NC   | NC           | NC                               | NC    | NC                           | NC                         | NC                                  | NC                    | NC   | NC   | NC              | NC |
| Under 5,500 HDD                        | 4.1                                       | 36.7         | .64  | 2.4          | 11.4                             | 3,334 | 197                          | 2,279                      | 1,657                               | 1,479                 | .88  | 5.2  | 12.8            |    |
| 2,000 CDD or More and Under 4,000 HDD  | Q   | Q            | Q  | Q            | 17.3                             | 5,075 | 299                          | 1,284                      | 2,393                               | 2,290                 | 1.65 | 9.7  | 46.2            |    |
| <b>Type of Housing Unit</b>            |   |              |  |              |                                  |       |                              |                            |                                     |                       |      |      |                 |    |
| Single-Family                          | 3.8                                       | 40.6         | .71  | 2.3          | 13.5                             | 3,947 | 233                          | 2,498                      | 1,761                               | 1,605                 | .90  | 5.3  | 10.3            |    |
| Mobile Home                            | 4   | 3.1          | .06  | Q            | Q                                | Q     | Q                            | Q                          | Q                                   | Q                     | 1.70 | 10.2 | 32.4            |    |
| Multifamily (2 or more units)          | 1.1                                       | 10.8         | .18  | .8           | 11.6                             | 3,414 | 201                          | 798                        | 2,122                               | 1,963                 | 2.02 | 11.9 | 19.8            |    |
| <b>Heated Floorspace (square feet)</b> |   |              |  |              |                                  |       |                              |                            |                                     |                       |      |      |                 |    |
| Fewer than 1,000                       | 1.8                                       | 16.0         | .28  | 1.0          | 11.6                             | 3,403 | 199                          | 771                        | 2,052                               | 1,876                 | 2.15 | 12.6 | 17.0            |    |
| 1,000 to 1,999                         | 2.1                                       | 20.5         | .36  | 1.0          | 12.9                             | 3,790 | 228                          | 1,674                      | 1,940                               | 1,790                 | 1.17 | 7.0  | 10.2            |    |
| 2,000 or More                          | 1.4                                       | 18.1         | .31  | 1.3          | 13.9                             | 4,083 | 238                          | 3,268                      | 1,616                               | 1,465                 | .77  | 4.5  | 13.3            |    |
| <b>Ownership of Unit</b>               |   |              |  |              |                                  |       |                              |                            |                                     |                       |      |      |                 |    |
| Owned                                  | 3.7                                       | 39.0         | .68  | 2.3          | 13.3                             | 3,887 | 229                          | 2,495                      | 1,727                               | 1,564                 | .90  | 5.3  | 9.3             |    |
| Rented                                 | 1.5                                       | 15.6         | .27  | 1.0          | 12.2                             | 3,566 | 211                          | 942                        | 2,123                               | 1,977                 | 1.78 | 10.5 | 19.2            |    |
| <b>Year of Construction</b>            |   |              |  |              |                                  |       |                              |                            |                                     |                       |      |      |                 |    |
| 1949 or Before                         | .9  | 6.3          | .11  | .3           | 8.6                              | 2,519 | 155                          | 1,920                      | 1,762                               | 1,559                 | .74  | 4.6  | 18.0            |    |
| 1950 to 1979                           | 3.1                                       | 33.8         | .59  | 2.0          | 13.7                             | 4,024 | 237                          | 1,702                      | 1,982                               | 1,834                 | 1.19 | 7.0  | 13.8            |    |
| 1980 or After <sup>3</sup>             | 1.2                                       | 14.4         | .25  | 1.0          | 12.6                             | 3,703 | 218                          | 2,649                      | 1,620                               | 1,457                 | .86  | 5.1  | 19.5            |    |
| <b>1990 Family Income</b>              |   |              |  |              |                                  |       |                              |                            |                                     |                       |      |      |                 |    |
| Less than \$10,000                     | 1.0                                       | 5.9          | .10  | .3           | 8.7                              | 2,541 | 150                          | 1,017                      | 1,940                               | 1,757                 | 1.29 | 7.6  | 15.2            |    |
| \$10,000 to \$19,999                   | 1.2                                       | 12.4         | .22  | .7           | 13.1                             | 3,833 | 227                          | 1,449                      | 1,950                               | 1,827                 | 1.36 | 8.0  | 17.9            |    |
| \$20,000 to \$34,999                   | 1.4                                       | 13.8         | .24  | .9           | 11.7                             | 3,435 | 206                          | 1,981                      | 1,886                               | 1,747                 | .92  | 5.5  | 12.1            |    |
| \$35,000 or More                       | 1.7                                       | 22.5         | .39  | 1.3          | 14.7                             | 4,297 | 251                          | 2,599                      | 1,747                               | 1,564                 | .95  | 5.5  | 11.5            |    |
| <b>Below Poverty Line</b>              |   |              |  |              |                                  |       |                              |                            |                                     |                       |      |      |                 |    |
| 100 Percent                            | .8  | 5.0          | .09  | .3           | 9.4                              | 2,765 | 159                          | 1,111                      | 1,999                               | 1,840                 | 1.24 | 7.2  | 16.9            |    |
| 125 Percent                            | 1.0                                       | 7.0          | .12  | .4           | 9.9                              | 2,911 | 170                          | 1,085                      | 2,010                               | 1,842                 | 1.33 | 7.8  | 16.7            |    |
| <b>Age of Householder</b>              |   |              |  |              |                                  |       |                              |                            |                                     |                       |      |      |                 |    |
| Under 35 Years                         | 1.4                                       | 15.0         | .27  | .9           | 12.4                             | 3,636 | 219                          | 1,617                      | 1,963                               | 1,801                 | 1.15 | 6.9  | 14.3            |    |
| 35 to 59 Years                         | 2.4                                       | 29.2         | .50  | 1.7          | 14.4                             | 4,228 | 248                          | 2,225                      | 1,850                               | 1,690                 | 1.03 | 6.0  | 8.7             |    |
| 60 Years and Over                      | 1.4                                       | 10.4         | .18  | .7           | 9.8                              | 2,859 | 167                          | 2,022                      | 1,694                               | 1,544                 | .83  | 4.9  | 10.9            |    |
| <b>Household Size</b>                  |   |              |  |              |                                  |       |                              |                            |                                     |                       |      |      |                 |    |
| 1 Person                               | 1.3                                       | 10.2         | .18  | .8           | 9.5                              | 2,797 | 169                          | 1,377                      | 1,874                               | 1,667                 | 1.08 | 6.5  | 16.1            |    |
| 2 to 4 Persons                         | 3.5                                       | 39.9         | .69  | 2.2          | 14.1                             | 4,137 | 244                          | 2,253                      | 1,845                               | 1,699                 | 1.00 | 5.9  | 8.5             |    |
| 5 or More Persons                      | .4  | 4.5          | .08  | .3           | 13.0                             | 3,824 | 219                          | 1,973                      | 1,805                               | 1,689                 | 1.07 | 6.1  | 16.3            |    |

See footnotes at end of table.

**SOUTH**

**AIR-CONDITIONING CONSUMPTION/EXPENDITURES**

AIR-CONDITIONING CONSUMPTION/EXPENDITURES

SOUTH

Table 75. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, South Region Households, 1990 (Continued)

| Characteristics                        | Electricity Used for Central Air Conditioning |                                  |                                |                      |                           |  |                                  |                            |                                     |                                       | RSE Row Factors |      |      |
|--|---|----------------------------------|--------------------------------|----------------------|---------------------------|--|----------------------------------|----------------------------|-------------------------------------|---------------------------------------|-----------------|------|------|
|  | Electricity Used for All Air Conditioning     |                                  |                                |                      |                           | Electricity Used for Central Air Conditioning <sup>1</sup> |                                  |                            |                                     |                                       |                 |      |      |
|  | per Household                                 |                                  |                                |                      |                           | per Household  |                                  |                            |                                     |                                       |                 |      |      |
|  | Households (million)                          | Total Consumption (trillion Btu) | Expenditures (billion dollars) | Households (million) | Consumption (million Btu) | Expenditures (million dollars)                             | Cooled Floor-space (square feet) | Annual Cooling Degree-Days | Electric Air-Conditioning Intensity | Expenditures (cents/1000 square feet) |                 |      |      |
| 1.2                                    | NF  | NF                               | 1.5                            | NF                   | NF                        | 0.8  | 0.7                              | NF                         | NF                                  | NF                                    |                 |      |      |
| <b>West South Central Division</b>     |   |                                  |                                |                      |                           |  |                                  |                            |                                     |                                       |                 |      |      |
| Climate Zone <sup>2</sup>              | 8.0   | 127.3                            | 2.80                           | 5.3                  | 19.0                      | 5,563  | 412                              | 1,806                      | 2,646                               | 2,500                                 | 1.16            | 8.6  | 6.0  |
| Under 2,000 CDD and Over 5,500 HDD     | NC  | NC                               | NC                             | NC                   | NC                        | NC   | NC                               | NC                         | NC                                  | NC                                    | NC              | NC   | NC   |
| Under 5,500 HDD                        | 1.0   | 7.5                              | .16                            | .6                   | 9.7                       | 2,834  | 196                              | 1,908                      | 1,572                               | 1,567                                 | .94             | 6.5  | 17.2 |
| 2,000 CDD or More and Under 4,000 HDD  | 7.0   | 119.7                            | 2.64                           | 4.7                  | 20.2                      | 5,923  | 440                              | 1,793                      | 2,788                               | 2,623                                 | 1.18            | 8.8  | 7.0  |
| <b>Type of Housing Unit</b>            |   |                                  |                                |                      |                           |  |                                  |                            |                                     |                                       |                 |      |      |
| Single-Family                          | 6.3   | 105.7                            | 2.92                           | 3.9                  | 20.9                      | 6,132  | 451                              | 2,152                      | 2,635                               | 2,477                                 | 1.08            | 8.0  | 5.6  |
| Mobile Home                            | Q   | Q                                | Q                              | Q                    | Q                         | Q  | Q                                | Q                          | Q                                   | Q                                     | 2.55            | 19.2 | 46.4 |
| Multifamily (2 or more units)          | 1.5   | 18.1                             | .41                            | 1.3                  | 12.9                      | 3,784  | 288                              | 840                        | 2,699                               | 2,587                                 | 1.67            | 12.7 | 11.6 |
| <b>Heated Floorspace (square feet)</b> |   |                                  |                                |                      |                           |  |                                  |                            |                                     |                                       |                 |      |      |
| Fewer than 1,000                       | 1.9   | 20.4                             | .46                            | 1.1                  | 13.0                      | 3,807  | 294                              | 751                        | 2,756                               | 2,593                                 | 1.84            | 14.2 | 15.0 |
| 1,000 to 1,999                         | 4.7   | 73.3                             | 1.62                           | 2.9                  | 18.4                      | 5,381  | 396                              | 1,660                      | 2,599                               | 2,461                                 | 1.25            | 9.2  | 6.7  |
| 2,000 or More                          | 1.4   | 33.6                             | .72                            | 1.3                  | 25.3                      | 7,420  | 544                              | 3,005                      | 2,665                               | 2,512                                 | .93             | 6.8  | 9.4  |
| <b>Ownership of Unit</b>               |   |                                  |                                |                      |                           |  |                                  |                            |                                     |                                       |                 |      |      |
| Owned                                  | 5.5   | 95.4                             | 2.10                           | 3.6                  | 20.8                      | 6,104  | 451                              | 2,150                      | 2,619                               | 2,468                                 | 1.08            | 8.0  | 6.7  |
| Rented                                 | 2.5   | 31.8                             | .70                            | 1.7                  | 15.1                      | 4,415  | 328                              | 1,077                      | 2,706                               | 2,567                                 | 1.52            | 11.3 | 10.3 |
| <b>Year of Construction</b>            |   |                                  |                                |                      |                           |  |                                  |                            |                                     |                                       |                 |      |      |
| 1949 or Before                         | 1.3   | 14.3                             | .33                            | .2                   | 19.8                      | 5,811  | 415                              | 2,131                      | 2,367                               | 2,269                                 | 1.15            | 8.2  | 20.4 |
| 1950 to 1979                           | 5.3   | 90.5                             | 1.99                           | 3.8                  | 19.4                      | 5,686  | 423                              | 1,843                      | 2,679                               | 2,529                                 | 1.15            | 8.6  | 6.5  |
| 1980 or After <sup>3</sup>             | 1.4   | 22.4                             | .49                            | 1.2                  | 17.5                      | 5,132  | 375                              | 1,633                      | 2,596                               | 2,449                                 | 1.21            | 8.9  | 9.6  |
| <b>1990 Family Income</b>              |   |                                  |                                |                      |                           |  |                                  |                            |                                     |                                       |                 |      |      |
| Less than \$10,000                     | 1.5   | 15.5                             | .36                            | .7                   | 13.3                      | 3,908  | 301                              | 1,309                      | 2,422                               | 2,327                                 | 1.23            | 9.5  | 18.4 |
| \$10,000 to \$19,999                   | 1.7   | 21.2                             | .47                            | .8                   | 17.9                      | 5,247  | 394                              | 1,535                      | 2,711                               | 2,542                                 | 1.26            | 9.5  | 10.4 |
| \$20,000 to \$34,999                   | 2.2   | 32.2                             | .72                            | 1.5                  | 16.4                      | 4,809  | 361                              | 1,510                      | 2,677                               | 2,523                                 | 1.19            | 8.9  | 9.5  |
| \$35,000 or More                       | 2.7   | 58.3                             | 1.25                           | 2.4                  | 22.6                      | 6,620  | 482                              | 2,225                      | 2,670                               | 2,521                                 | 1.11            | 8.1  | 8.0  |
| <b>Below Poverty Line</b>              |   |                                  |                                |                      |                           |  |                                  |                            |                                     |                                       |                 |      |      |
| 100 Percent                            | 1.5   | 14.1                             | .32                            | .6                   | 12.1                      | 3,560  | 268                              | 1,224                      | 2,406                               | 2,326                                 | 1.21            | 9.1  | 21.1 |
| 125 Percent                            | 1.9   | 20.3                             | .46                            | .7                   | 14.6                      | 4,271  | 323                              | 1,305                      | 2,501                               | 2,393                                 | 1.31            | 9.9  | 18.0 |
| <b>Age of Householder</b>              |   |                                  |                                |                      |                           |  |                                  |                            |                                     |                                       |                 |      |      |
| Under 35 Years                         | 2.2   | 32.2                             | .71                            | 1.6                  | 16.4                      | 4,804  | 359                              | 1,373                      | 2,593                               | 2,457                                 | 1.35            | 10.1 | 10.0 |
| 35 to 59 Years                         | 3.3   | 62.8                             | 1.38                           | 2.4                  | 21.7                      | 6,373  | 468                              | 1,929                      | 2,676                               | 2,540                                 | 1.23            | 9.1  | 7.0  |
| 60 Years and Over                      | 2.4   | 32.3                             | .72                            | 1.3                  | 17.1                      | 5,016  | 375                              | 2,123                      | 2,659                               | 2,480                                 | .89             | 6.6  | 8.4  |

See footnotes at end of table.

**Table 75. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, South Region Households, 1990 (Continued)**

| Characteristics     | Electricity Used for All Air Conditioning |                                  |                                | Electricity Used for Central Air Conditioning <sup>1</sup> |               |       |                        |      |                              |  |                                  |   | RSE Row Factors |                                     |  |  |
|---------------------|---|----------------------------------|--------------------------------|--|---------------|-------|------------------------|------|------------------------------|--|----------------------------------|---|-----------------|-------------------------------------|--|--|
|                     | Households (million)                      | Total Consumption (trillion Btu) | Expenditures (billion dollars) | Households (million)                                       | per Household |       |                        |      |                              |  | Cooled Floor-space (square feet) | Annual Cooling Degree-Days                |                 | Electric Air-Conditioning Intensity |  |  |
|                     |   |                                  |                                |  | Consumption   |       | Expenditures (dollars) | 1990 | 30-Year Average <sup>2</sup> | Consumption (kWh/CDD*1000 square feet) |                                  | Expenditures (cents/CDD*1000 square feet) |                 |                                     |  |  |
|                     |   |                                  |                                |  | (million Btu) | (kWh) |                        |      |                              |  |                                  |   |                 |                                     |  |  |
| RSE Column Factors: | 1.2                                       | NF                               | NF                             | 1.5  | NF            | NF    | NF                     | 0.8  | 0.7                          | 0.7                                    | NF                               | NF  |                 |                                     |  |  |

| Household Size          | Households (million) | Total Consumption (trillion Btu) | Expenditures (billion dollars) | Households (million) | (million Btu) | (kWh) | Expenditures (dollars) | Cooled Floor-space (square feet) | 1990  | 30-Year Average <sup>2</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) | RSE Row Factors |
|-------------------------|----------------------|----------------------------------|--------------------------------|----------------------|---------------|-------|------------------------|----------------------------------|-------|------------------------------|--|---|-----------------|
| 1 Person .....          | 1.8                  | 19.0                             | 0.44                           | 0.9                  | 13.4          | 3,922 | 301                    | 1,195                            | 2,789 | 2,603                        | 1.18                                   | 9.0                                       | 13.3            |
| 2 to 4 Persons .....    | 5.0                  | 84.6                             | 1.86                           | 3.6                  | 19.5          | 5,701 | 422                    | 1,955                            | 2,592 | 2,449                        | 1.12                                   | 8.3                                       | 6.0             |
| 5 or More Persons ..... | 1.3                  | 23.6                             | .51                            | .7                   | 23.7          | 6,944 | 501                    | 1,846                            | 2,733 | 2,618                        | 1.38                                   | 9.9                                       | 8.1             |

<sup>1</sup> An estimated 2.0 million households have a central air conditioner and one or more room air conditioners. These households are included only under central air conditioners and not included under room air conditioners.

<sup>2</sup> The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>3</sup> Does not include all new construction for 1990.

<sup>4</sup> If a household has both a central and room air conditioner then the usage and age of the equipment is presented only for the central unit.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • This table reflects only those households that used their air conditioning equipment. See Appendix B, "Quality of the Data," in *Household Energy Consumption and Expenditures 1990* for a discussion of households that had air-conditioning equipment but did not use it. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

AIR-CONDITIONING CONSUMPTION/EXPENDITURES

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Table 76. Electricity Consumption and Expenditures for Room Air Conditioning, per South Region Household, 1990

| Characteristics                             | House holds (million) | Consumption   |       | Expenditures (dollars) | Cooled Floorspace (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity    |   | RSE Row Factors |
|---|-----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|--|---|-----------------|
|   |                       | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) |                 |
|   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| RSE Column Factors:                         |                       |               |       |                        |                                 |                            |                              |  |   |                 |
|   | 1.6                   | NF            | NF    | NF                     | 0.8                             | 0.6                        | 0.6                          | NF                                     | NF  | NF              |
| South Region                                |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| <b>Total Region</b> .....                   | 8.6                   | 7.1           | 2,067 | 156                    | 935                             | 2,164                      | 1,988                        | 1.02                                   | 7.7                                       | 5.5             |
| <b>Climate Zone<sup>1</sup></b>             |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| Under 5,500 HDD .....                       | 4.9                   | 4.6           | 1,358 | 96                     | 967                             | 1,562                      | 1,453                        | .90                                    | 6.4                                       | 5.6             |
| 2,000 CDD or More and Under 4,000 HDD ..... | 3.7                   | 10.3          | 3,020 | 236                    | 895                             | 2,975                      | 2,708                        | 1.13                                   | 8.9                                       | 7.3             |
| <b>Type of Housing Unit</b>                 |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Single-Family .....                         | 6.7                   | 7.4           | 2,170 | 164                    | 1,027                           | 2,175                      | 2,007                        | .97                                    | 7.4                                       | 6.0             |
| Mobile Home .....                           | 7                     | 7.4           | 2,172 | 162                    | 642                             | 1,764                      | 1,653                        | 1.92                                   | 14.3                                      | 14.2            |
| Multifamily (2 or more units) ..            | 1.2                   | 4.9           | 1,433 | 107                    | 601                             | 2,350                      | 2,085                        | 1.02                                   | 7.6                                       | 13.1            |
| <b>Heated Floorspace (square feet)</b>      |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Fewer than 1,000 .....                      | 3.4                   | 6.1           | 1,789 | 133                    | 620                             | 2,173                      | 1,974                        | 1.33                                   | 9.8                                       | 8.1             |
| 1,000 to 1,999 .....                        | 4.5                   | 7.9           | 2,324 | 177                    | 1,019                           | 2,209                      | 2,044                        | 1.03                                   | 7.9                                       | 6.6             |
| 2,000 or More .....                         | .8                    | 6.1           | 1,801 | 137                    | 1,849                           | 1,860                      | 1,719                        | .52                                    | 4.0                                       | 11.9            |
| <b>Ownership of Unit</b>                    |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Owned .....                                 | 5.7                   | 7.5           | 2,202 | 166                    | 1,066                           | 2,117                      | 1,955                        | .98                                    | 7.4                                       | 6.1             |
| Rented .....                                | 2.9                   | 6.1           | 1,799 | 136                    | 673                             | 2,258                      | 2,052                        | 1.18                                   | 8.9                                       | 8.6             |
| <b>Year of Construction</b>                 |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1949 or Before .....                        | 3.1                   | 6.6           | 1,931 | 147                    | 970                             | 2,145                      | 1,996                        | .93                                    | 7.1                                       | 8.1             |
| 1950 to 1979 .....                          | 4.6                   | 7.6           | 2,236 | 168                    | 913                             | 2,200                      | 2,013                        | 1.11                                   | 8.3                                       | 6.1             |
| 1980 or After <sup>2</sup> .....            | .9                    | 5.7           | 1,657 | 124                    | 921                             | 2,041                      | 1,819                        | .88                                    | 6.6                                       | 19.3            |
| <b>1990 Family Income</b>                   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Less than \$10,000 .....                    | 2.5                   | 5.8           | 1,699 | 130                    | 687                             | 2,336                      | 2,138                        | 1.06                                   | 8.1                                       | 8.0             |
| \$10,000 to \$19,999 .....                  | 2.5                   | 7.1           | 2,083 | 157                    | 844                             | 2,270                      | 2,085                        | 1.09                                   | 8.2                                       | 8.4             |
| \$20,000 to \$34,999 .....                  | 2.2                   | 7.1           | 2,080 | 156                    | 1,075                           | 1,961                      | 1,815                        | .99                                    | 7.4                                       | 8.0             |
| \$35,000 or More .....                      | 1.3                   | 9.2           | 2,697 | 203                    | 1,330                           | 1,981                      | 1,812                        | 1.02                                   | 7.7                                       | 9.5             |
| <b>Below Poverty Line</b>                   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 100 Percent .....                           | 2.2                   | 6.1           | 1,792 | 137                    | 720                             | 2,307                      | 2,142                        | 1.08                                   | 8.2                                       | 9.1             |
| 125 Percent .....                           | 3.0                   | 6.0           | 1,747 | 132                    | 722                             | 2,281                      | 2,109                        | 1.06                                   | 8.0                                       | 8.5             |
| <b>Age of Householder</b>                   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 35 Years .....                        | 2.1                   | 7.3           | 2,128 | 155                    | 870                             | 2,122                      | 1,940                        | 1.15                                   | 8.4                                       | 8.9             |
| 35 to 59 Years .....                        | 2.9                   | 7.8           | 2,272 | 174                    | 1,003                           | 2,030                      | 1,879                        | 1.12                                   | 8.5                                       | 7.8             |
| 60 Years and Over .....                     | 3.6                   | 6.4           | 1,863 | 142                    | 917                             | 2,300                      | 2,105                        | .88                                    | 6.7                                       | 6.5             |
| <b>Household Size</b>                       |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1 Person .....                              | 2.6                   | 5.6           | 1,639 | 126                    | 845                             | 2,268                      | 2,074                        | .86                                    | 6.6                                       | 9.1             |
| 2 to 4 Persons .....                        | 5.1                   | 7.4           | 2,172 | 162                    | 977                             | 2,089                      | 1,912                        | 1.06                                   | 8.0                                       | 5.3             |
| 5 or More Persons .....                     | .9                    | 9.2           | 2,705 | 206                    | 955                             | 2,288                      | 2,166                        | 1.24                                   | 9.4                                       | 13.9            |
| <b>Cooling Degree-Days (CDD)-1990</b>       |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 2,000 or More .....                         | 4.4                   | 9.7           | 2,852 | 221                    | 907                             | 2,849                      | 2,590                        | 1.10                                   | 8.6                                       | 6.8             |
| 1,000 to 1,999 .....                        | 3.9                   | 4.5           | 1,306 | 92                     | 989                             | 1,518                      | 1,415                        | .87                                    | 6.1                                       | 6.1             |
| 500 to 999 .....                            | Q                     | 2.4           | 714   | 43                     | 703                             | 784                        | 832                          | 1.29                                   | 7.8                                       | 43.9            |
| Fewer than 500 .....                        | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |

See footnotes at end of table.

**AIR-CONDITIONING CONSUMPTION/EXPENDITURES**

**Table 76. Electricity Consumption and Expenditures for Room Air Conditioning, per South Region Household, 1990 (Continued)**

| Characteristics  | Consumption           |               | Expenditures (dollars) | Cooled Floor-space (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity    |   | RSE Row Factors |
|--|-----------------------|---------------|------------------------|----------------------------------|----------------------------|------------------------------|--|---|-----------------|
|  | House holds (million) | (million Btu) |                        |                                  | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) |                 |
| RSE Column Factors:  | 1.6                   | NF            | NF                     | 0.8                              | 0.6                        | 0.6                          | NF                                     | NF  |                 |
| South Region   |                       |               |                        |                                  |                            |                              |  |   |                 |
| <b>Average Humidity for June, July and August 1990 (percent)</b> |                       |               |                        |                                  |                            |                              |  |   |                 |
| Less than 65 .....   | Q                     | Q             | Q                      | Q                                | Q                          | Q                            | Q                                      | Q   | NF              |
| 65 to Less than 70 .....   | 2.3                   | 6.0           | 1,766                  | 1,059                            | 1,905                      | 1,820                        | 0.87                                   | 6.6                                       | 12.8            |
| 70 or Higher .....   | 6.3                   | 7.4           | 2,183                  | 884                              | 2,262                      | 2,052                        | 1.09                                   | 8.2                                       | 6.7             |
| <b>Average Electricity Expenditures (cents per kWh)</b>          |                       |               |                        |                                  |                            |                              |  |   |                 |
| Less than 6 .....  | 1.4                   | 6.1           | 1,796                  | 959                              | 1,640                      | 1,546                        | 1.14                                   | 6.4                                       | 8.8             |
| 6 to Less than 9 .....   | 6.4                   | 7.7           | 2,270                  | 957                              | 2,274                      | 2,083                        | 1.04                                   | 8.1                                       | 6.9             |
| 9 or More .....  | .9                    | 3.4           | 1,004                  | 733                              | 2,187                      | 1,990                        | .63                                    | 6.4                                       | 15.2            |
| <b>Number of Rooms Usually Air Conditioned</b>                   |                       |               |                        |                                  |                            |                              |  |   |                 |
| 1 Room .....   | 1.0                   | 3.4           | 1,004                  | 289                              | 2,214                      | 1,984                        | 1.57                                   | 12.4                                      | 14.1            |
| 2 Rooms .....  | 1.5                   | 5.2           | 1,519                  | 502                              | 2,224                      | 2,101                        | 1.36                                   | 10.4                                      | 9.1             |
| 3 or More .....  | 6.1                   | 8.1           | 2,372                  | 1,145                            | 2,141                      | 1,960                        | .97                                    | 7.3                                       | 6.0             |
| <b>Frequency of Use of Air Conditioning</b>                      |                       |               |                        |                                  |                            |                              |  |   |                 |
| Only a Few Times .....   | 2.6                   | 2.1           | 602                    | 47                               | 2,051                      | 1,874                        | .38                                    | 3.0                                       | 6.1             |
| Quite a Bit .....  | 2.4                   | 6.6           | 1,940                  | 145                              | 2,042                      | 1,890                        | .95                                    | 7.1                                       | 6.5             |
| All Summer .....   | 3.6                   | 11.0          | 3,221                  | 242                              | 2,338                      | 2,145                        | 1.36                                   | 10.3                                      | 5.4             |
| Other .....  | Q                     | Q             | Q                      | Q                                | Q                          | Q                            | Q                                      | Q   | NF              |
| <b>Age of Air Conditioning Equipment</b>                         |                       |               |                        |                                  |                            |                              |  |   |                 |
| Less than 5 Years .....  | 2.6                   | 7.2           | 2,099                  | 158                              | 2,172                      | 1,980                        | 1.16                                   | 8.8                                       | 6.3             |
| 5 to 9 Years .....   | 3.0                   | 6.9           | 2,020                  | 152                              | 2,141                      | 1,977                        | 1.06                                   | 8.0                                       | 7.3             |
| 10 or More Years .....   | 2.5                   | 7.3           | 2,134                  | 162                              | 2,197                      | 2,026                        | .88                                    | 6.7                                       | 8.7             |
| Don't Know .....   | .5                    | 6.3           | 1,841                  | 141                              | 2,096                      | 1,893                        | .98                                    | 7.4                                       | 16.7            |
| <b>Size of Most-Used Room Air Conditioner</b>                    |                       |               |                        |                                  |                            |                              |  |   |                 |
| Small .....  | 1.4                   | 5.9           | 1,716                  | 134                              | 2,159                      | 1,968                        | 1.16                                   | 9.1                                       | 11.4            |
| Medium .....   | 3.9                   | 5.7           | 1,659                  | 124                              | 2,099                      | 1,927                        | .95                                    | 7.1                                       | 6.5             |
| Large .....  | 3.3                   | 9.1           | 2,676                  | 202                              | 2,239                      | 2,065                        | 1.03                                   | 7.8                                       | 8.0             |
| Don't Know .....   | Q                     | Q             | Q                      | Q                                | Q                          | Q                            | Q                                      | Q   | NF              |
| <b>Number of Room Air Conditioners</b>                           |                       |               |                        |                                  |                            |                              |  |   |                 |
| 1 .....  | 4.5                   | 5.8           | 1,708                  | 127                              | 2,051                      | 1,893                        | 1.05                                   | 7.8                                       | 6.3             |
| 2 .....  | 2.8                   | 8.4           | 2,466                  | 189                              | 2,343                      | 2,131                        | 1.07                                   | 8.2                                       | 6.2             |
| 3 or More .....  | 1.3                   | 8.4           | 2,475                  | 186                              | 2,177                      | 2,012                        | .85                                    | 6.4                                       | 6.9             |

See footnotes at end of table.

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**AIR-CONDITIONING CONSUMPTION/EXPENDITURES**

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**Table 76. Electricity Consumption and Expenditures for Room Air Conditioning, per South Region Household, 1990 (Continued)**

| Characteristics                             | House holds (million) | Consumption   |       | Expenditures (dollars) | Cooled Floorspace (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity    |   | RSE Row Factors |
|---|-----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|--|---|-----------------|
|   |                       | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) |                 |
|   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| RSE Column Factors:                         |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| South Atlantic Division .....               | 4.0                   | 5.5           | 1,603 | 126                    | 892                             | 2,058                      | 1,839                        | 0.87                                   | 6.9                                       | 7.9             |
| <b>Climate Zone<sup>1</sup></b>             |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| Under 5,500 HDD .....                       | 2.9                   | 4.1           | 1,206 | 92                     | 904                             | 1,469                      | 1,366                        | .91                                    | 7.0                                       | 6.7             |
| 2,000 CDD or More and Under 4,000 HDD ..... | 1.1                   | 9.2           | 2,708 | 220                    | 873                             | 3,689                      | 3,152                        | .84                                    | 6.8                                       | 13.1            |
| <b>Type of Housing Unit</b>                 |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Single-Family .....                         | 2.8                   | 5.6           | 1,630 | 127                    | 1,009                           | 2,004                      | 1,804                        | .81                                    | 6.3                                       | 7.9             |
| Mobile Home .....                           | 4                     | 7.3           | 2,148 | 172                    | 605                             | 1,619                      | 1,513                        | 2.19                                   | 17.6                                      | 25.0            |
| Multifamily (2 or more units) ..            | .8                    | 4.2           | 1,235 | 99                     | 610                             | 2,469                      | 2,126                        | .82                                    | 6.6                                       | 18.7            |
| <b>Heated Floorspace (square feet)</b>      |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Fewer than 1,000 .....                      | 1.8                   | 5.2           | 1,537 | 121                    | 561                             | 2,169                      | 1,919                        | 1.26                                   | 9.9                                       | 14.1            |
| 1,000 to 1,999 .....                        | 1.7                   | 5.5           | 1,626 | 128                    | 1,007                           | 2,011                      | 1,803                        | .80                                    | 6.3                                       | 9.8             |
| 2,000 or More .....                         | .5                    | 6.0           | 1,758 | 140                    | 1,663                           | 1,825                      | 1,676                        | .58                                    | 4.6                                       | 16.4            |
| <b>Ownership of Unit</b>                    |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Owned .....                                 | 2.5                   | 5.6           | 1,649 | 130                    | 1,035                           | 1,929                      | 1,740                        | .83                                    | 6.5                                       | 8.6             |
| Rented .....                                | 1.5                   | 5.2           | 1,529 | 120                    | 661                             | 2,266                      | 1,997                        | 1.02                                   | 8.0                                       | 14.2            |
| <b>Year of Construction</b>                 |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1949 or Before .....                        | 1.4                   | 4.8           | 1,404 | 112                    | 990                             | 1,874                      | 1,720                        | .76                                    | 6.0                                       | 12.5            |
| 1950 to 1979 .....                          | 2.1                   | 6.0           | 1,766 | 139                    | 856                             | 2,133                      | 1,892                        | .97                                    | 7.6                                       | 10.2            |
| 1980 or After <sup>2</sup> .....            | .5                    | 5.1           | 1,497 | 115                    | 755                             | 2,281                      | 1,963                        | .87                                    | 6.6                                       | 33.6            |
| <b>1990 Family Income</b>                   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Less than \$10,000 .....                    | 1.1                   | 4.5           | 1,318 | 107                    | 636                             | 2,411                      | 2,112                        | .86                                    | 7.0                                       | 12.8            |
| \$10,000 to \$19,999 .....                  | 1.2                   | 6.6           | 1,925 | 150                    | 708                             | 2,309                      | 2,054                        | 1.18                                   | 9.1                                       | 11.7            |
| \$20,000 to \$34,999 .....                  | 1.1                   | 4.6           | 1,353 | 104                    | 1,039                           | 1,673                      | 1,535                        | .78                                    | 6.0                                       | 11.4            |
| \$35,000 or More .....                      | .7                    | 6.4           | 1,877 | 149                    | 1,377                           | 1,678                      | 1,516                        | .81                                    | 6.5                                       | 13.2            |
| <b>Below Poverty Line</b>                   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 100 Percent .....                           | .7                    | 4.6           | 1,350 | 110                    | 633                             | 2,311                      | 2,052                        | .92                                    | 7.5                                       | 17.0            |
| 125 Percent .....                           | 1.2                   | 4.3           | 1,263 | 101                    | 619                             | 2,236                      | 1,984                        | .91                                    | 7.3                                       | 13.6            |
| <b>Age of Householder</b>                   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 35 Years .....                        | 1.0                   | 6.0           | 1,756 | 137                    | 771                             | 2,067                      | 1,828                        | 1.10                                   | 8.6                                       | 16.3            |
| 35 to 59 Years .....                        | 1.4                   | 5.5           | 1,625 | 126                    | 995                             | 1,821                      | 1,655                        | .90                                    | 7.0                                       | 10.1            |
| 60 Years and Over .....                     | 1.7                   | 5.1           | 1,500 | 120                    | 878                             | 2,246                      | 1,994                        | .76                                    | 6.1                                       | 9.5             |
| <b>Household Size</b>                       |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1 Person .....                              | 1.2                   | 4.4           | 1,281 | 101                    | 747                             | 2,246                      | 1,974                        | .76                                    | 6.0                                       | 14.8            |
| 2 to 4 Persons .....                        | 2.5                   | 6.1           | 1,776 | 140                    | 955                             | 2,010                      | 1,799                        | .93                                    | 7.3                                       | 9.5             |
| 5 or More Persons .....                     | .3                    | 4.9           | 1,427 | 107                    | 959                             | 1,652                      | 1,594                        | .90                                    | 6.8                                       | 21.9            |

See footnotes at end of table.

**Table 76. Electricity Consumption and Expenditures for Room Air Conditioning, per South Region Household, 1990 (Continued)**

| Characteristics                        | House holds (mil- lion) | Consumption   |       | Expenditures (dollars) | Cooled Floorspace (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity     |  | RSE Row Factors |
|--|-------------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|---|--|-----------------|
|  |                         | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/ CDD*1000 square feet) | Expenditures (cents/ CDD*1000 square feet) |                 |
| RSE Column Factors:                    | 1.6                     | NF            | NF    | NF                     | 0.8                             | 0.6                        | 0.6                          | NF                                      | NF   |                 |
| <b>East South Central Division</b>     | 1.9                     | 6.3           | 1,850 | 113                    | 985                             | 1,780                      | 1,658                        | 1.05                                    | 6.4  | 6.7             |
| <b>Climate Zone<sup>1</sup></b>        |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 2,000 CDD and Over 5,500 HDD     | NC                      | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                      | NC   | NC              |
| Under 5,500 HDD                        | 1.6                     | 5.6           | 1,639 | 99                     | 1,028                           | 1,651                      | 1,533                        | .97                                     | 5.8  | 8.8             |
| 2,000 CDD or More and Under 4,000 HDD  | Q                       | 10.2          | 2,981 | 186                    | 759                             | 2,473                      | 2,327                        | 1.59                                    | 9.9  | 39.0            |
| <b>Type of Housing Unit</b>            |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| Single-Family                          | 1.5                     | 6.3           | 1,850 | 113                    | 1,090                           | 1,799                      | 1,671                        | .94                                     | 5.7  | 7.0             |
| Mobile Home                            | .2                      | 7.2           | 2,105 | 137                    | 723                             | 1,675                      | 1,557                        | 1.74                                    | 11.3                                       | 15.6            |
| Multifamily (2 or more units)          | .2                      | 5.4           | 1,597 | 88                     | 577                             | 1,769                      | 1,675                        | 1.56                                    | 8.7  | 15.9            |
| <b>Heated Floorspace (square feet)</b> |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| Fewer than 1,000                       | .8                      | 6.0           | 1,750 | 105                    | 706                             | 1,773                      | 1,646                        | 1.40                                    | 8.4  | 9.6             |
| 1,000 to 1,999                         | 1.0                     | 6.8           | 1,999 | 123                    | 1,058                           | 1,824                      | 1,706                        | 1.04                                    | 6.4  | 6.3             |
| 2,000 or More                          | .1                      | 4.5           | 1,324 | 82                     | 2,052                           | 1,502                      | 1,374                        | .43                                     | 2.7  | 30.5            |
| <b>Ownership of Unit</b>               |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| Owned                                  | 1.4                     | 6.3           | 1,853 | 113                    | 1,071                           | 1,770                      | 1,643                        | .98                                     | 6.0  | 7.0             |
| Rented                                 | .5                      | 6.3           | 1,842 | 111                    | 764                             | 1,806                      | 1,697                        | 1.34                                    | 8.0  | 9.1             |
| <b>Year of Construction</b>            |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| 1949 or Before                         | .6                      | 5.9           | 1,736 | 103                    | 893                             | 1,838                      | 1,698                        | 1.06                                    | 6.3  | 8.2             |
| 1950 to 1979                           | 1.1                     | 6.4           | 1,863 | 115                    | 1,047                           | 1,793                      | 1,675                        | .99                                     | 6.1  | 8.5             |
| 1980 or After <sup>2</sup>             | .2                      | 7.4           | 2,161 | 132                    | 938                             | 1,511                      | 1,422                        | 1.52                                    | 9.3  | 23.9            |
| <b>1990 Family Income</b>              |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| Less than \$10,000                     | .6                      | 4.8           | 1,406 | 84                     | 755                             | 1,825                      | 1,696                        | 1.02                                    | 6.1  | 11.0            |
| \$10,000 to \$19,999                   | .5                      | 6.0           | 1,771 | 108                    | 895                             | 1,775                      | 1,685                        | 1.11                                    | 6.8  | 10.1            |
| \$20,000 to \$34,999                   | .5                      | 6.9           | 2,025 | 124                    | 1,108                           | 1,738                      | 1,626                        | 1.05                                    | 6.5  | 12.2            |
| \$35,000 or More                       | .3                      | 8.7           | 2,552 | 155                    | 1,367                           | 1,768                      | 1,596                        | 1.06                                    | 6.4  | 13.3            |
| <b>Below Poverty Line</b>              |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| 100 Percent                            | .5                      | 4.9           | 1,425 | 87                     | 750                             | 1,751                      | 1,642                        | 1.09                                    | 6.6  | 13.7            |
| 125 Percent                            | .7                      | 5.1           | 1,482 | 89                     | 798                             | 1,798                      | 1,680                        | 1.03                                    | 6.2  | 8.6             |
| <b>Age of Householder</b>              |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 35 Years                         | .5                      | 7.3           | 2,151 | 130                    | 995                             | 1,748                      | 1,620                        | 1.24                                    | 7.5  | 7.9             |
| 35 to 59 Years                         | .7                      | 6.7           | 1,973 | 120                    | 996                             | 1,745                      | 1,638                        | 1.13                                    | 6.9  | 7.9             |
| 60 Years and Over                      | .7                      | 5.2           | 1,521 | 93                     | 969                             | 1,835                      | 1,704                        | .86                                     | 5.2  | 6.3             |
| <b>Household Size</b>                  |                         |               |       |                        |                                 |                            |                              |   |  |                 |
| 1 Person                               | .5                      | 4.8           | 1,413 | 88                     | 834                             | 1,904                      | 1,789                        | .89                                     | 5.5  | 6.7             |
| 2 to 4 Persons                         | 1.3                     | 6.7           | 1,965 | 118                    | 1,044                           | 1,718                      | 1,594                        | 1.10                                    | 6.6  | 7.2             |
| 5 or More Persons                      | Q                       | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |

See footnotes at end of table.

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**Table 76. Electricity Consumption and Expenditures for Room Air Conditioning, per South Region Household, 1990 (Continued)**

| Characteristics                        | House holds (million) | Consumption   |       | Expenditures (dollars) | Cooled Floorspace (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity    |   | RSE Row Factors |
|--|-----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|--|---|-----------------|
|  |                       | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) |                 |
|  |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| RSE Column Factors:                    | 1.6                   | NF            | NF    | NF                     | 0.8                             | 0.6                        | 0.6                          | NF                                     | NF  |                 |
| <b>West South Central Division</b>     | 2.7                   | 10.0          | 2,922 | 232                    | 961                             | 2,603                      | 2,451                        | 1.17                                   | 9.3                                       | 10.1            |
| <b>Climate Zone<sup>1</sup></b>        |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 2,000 CDD and Over 5,500 HDD     | NC                    | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                     | NC  | NC              |
| Under 5,500 HDD                        | Q                     | 4.4           | 1,304 | 113                    | 1,204                           | 1,907                      | 1,790                        | .57                                    | 4.9                                       | 14.8            |
| 2,000 CDD or More and Under 4,000 HDD  | 2.3                   | 10.8          | 3,171 | 251                    | 924                             | 2,709                      | 2,552                        | 1.27                                   | 10.0                                      | 8.7             |
| <b>Type of Housing Unit</b>            |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Single-Family                          | 2.4                   | 10.3          | 3,019 | 241                    | 1,009                           | 2,615                      | 2,461                        | 1.14                                   | 9.1                                       | 10.4            |
| Mobile Home                            | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| Multifamily (2 or more units)          | .2                    | 7.0           | 2,047 | 162                    | Q                               | 2,569                      | 2,415                        | Q                                      | Q   | 17.9            |
| <b>Heated Floorspace (square feet)</b> |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Fewer than 1,000                       | .8                    | 8.1           | 2,380 | 185                    | 664                             | 2,568                      | 2,408                        | 1.40                                   | 10.9                                      | 10.9            |
| 1,000 to 1,999                         | 1.7                   | 10.9          | 3,193 | 257                    | 1,008                           | 2,625                      | 2,475                        | 1.21                                   | 9.7                                       | 10.8            |
| 2,000 or More                          | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| <b>Ownership of Unit</b>               |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Owned                                  | 1.9                   | 10.9          | 3,204 | 254                    | 1,103                           | 2,629                      | 2,477                        | 1.10                                   | 8.8                                       | 10.1            |
| Rented                                 | .8                    | 7.8           | 2,279 | 182                    | 637                             | 2,543                      | 2,391                        | 1.41                                   | 11.3                                      | 14.9            |
| <b>Year of Construction</b>            |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1949 or Before                         | 1.0                   | 9.5           | 2,781 | 224                    | 989                             | 2,708                      | 2,561                        | 1.04                                   | 8.4                                       | 11.8            |
| 1950 to 1979                           | 1.4                   | 10.9          | 3,207 | 251                    | 894                             | 2,614                      | 2,450                        | 1.37                                   | 10.7                                      | 8.9             |
| 1980 or After <sup>2</sup>             | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| <b>1990 Family Income</b>              |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Less than \$10,000                     | .8                    | 8.3           | 2,447 | 198                    | 701                             | 2,648                      | 2,528                        | 1.32                                   | 10.7                                      | 13.2            |
| \$10,000 to \$19,999                   | .9                    | 8.4           | 2,453 | 191                    | 998                             | 2,475                      | 2,332                        | .99                                    | 7.7                                       | 15.5            |
| \$20,000 to \$34,999                   | .6                    | 11.3          | 3,324 | 266                    | 1,108                           | 2,613                      | 2,425                        | 1.15                                   | 9.2                                       | 10.1            |
| \$35,000 or More                       | .3                    | 15.5          | 4,546 | 361                    | 1,197                           | 2,821                      | 2,640                        | 1.35                                   | 10.7                                      | 12.4            |
| <b>Below Poverty Line</b>              |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 100 Percent                            | .9                    | 8.0           | 2,352 | 186                    | 775                             | 2,608                      | 2,489                        | 1.16                                   | 9.2                                       | 14.1            |
| 125 Percent                            | 1.1                   | 8.3           | 2,420 | 192                    | 786                             | 2,621                      | 2,501                        | 1.18                                   | 9.3                                       | 13.1            |
| <b>Age of Householder</b>              |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 35 Years                         | .6                    | 9.1           | 2,672 | 204                    | 913                             | 2,527                      | 2,384                        | 1.16                                   | 8.8                                       | 16.3            |
| 35 to 59 Years                         | .9                    | 11.9          | 3,475 | 286                    | 1,020                           | 2,555                      | 2,395                        | 1.33                                   | 11.0                                      | 13.7            |
| 60 Years and Over                      | 1.1                   | 9.0           | 2,623 | 206                    | 942                             | 2,682                      | 2,532                        | 1.04                                   | 8.2                                       | 9.6             |
| <b>Household Size</b>                  |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1 Person                               | .8                    | 7.9           | 2,308 | 187                    | 994                             | 2,538                      | 2,407                        | .91                                    | 7.4                                       | 15.6            |
| 2 to 4 Persons                         | 1.3                   | 10.7          | 3,140 | 249                    | 952                             | 2,607                      | 2,442                        | 1.26                                   | 10.0                                      | 7.3             |
| 5 or More Persons                      | .5                    | 11.4          | 3,354 | 264                    | 931                             | 2,693                      | 2,543                        | 1.34                                   | 10.5                                      | 16.2            |

<sup>1</sup> The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • This table reflects only those households that used their air conditioning equipment. See Appendix B, "Quality of the Data," in *Household Energy Consumption and Expenditures 1990* for a discussion of households that had air-conditioning equipment but did not use it. fuel oil, kerosene, and liquefied petroleum gas. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

WATER-HEATING CONSUMPTION/EXPENDITURES

Table 77. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in South Region Households, 1990

| Characteristics                             | Electricity          |                |               |                                      |                      | Natural Gas    |                      |                                      |      |  | RSE Row Factors |
|---|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|------|--|-----------------|
|   | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |      |  |                 |
|   |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |      |  |                 |
| RSE Column Factors:                         | 0.9                  | NF             | NF            | NF                                   | 1.1                  | NF             | NF                   | NF                                   |      |  |                 |
| South Region                                |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| <b>Total Region</b> .....                   | 18.5                 | 157.8          | 46.3          | 3.30                                 | 12.8                 | 270.4          | 262                  | 1.56                                 | 5.8  |  |                 |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q                    | Q              | Q             | Q                                    | NC                   | NC             | NC                   | NC                                   | NF   |  |                 |
| Under 5,500 HDD .....                       | 10.9                 | 103.2          | 30.2          | 2.08                                 | 6.0                  | 140.2          | 136                  | .80                                  | 11.5 |  |                 |
| 2,000 CDD or More and Under 4,000 HDD ..... | 7.6                  | 54.4           | 15.9          | 1.21                                 | 6.8                  | 130.1          | 126                  | .76                                  | 11.0 |  |                 |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| Single-Family .....                         | 12.4                 | 113.7          | 33.3          | 2.36                                 | 10.5                 | 224.0          | 217                  | 1.30                                 | 7.7  |  |                 |
| Mobile Home .....                           | 1.6                  | 14.3           | 4.2           | .30                                  | Q                    | Q              | Q                    | Q                                    | 22.9 |  |                 |
| Multifamily (2 or more units) ..            | 4.5                  | 29.9           | 8.8           | .65                                  | 2.2                  | 43.2           | 42                   | .25                                  | 16.9 |  |                 |
| <b>Heated Floorpace (square feet)</b>       |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| Fewer than 1,000 .....                      | 7.4                  | 54.6           | 16.0          | 1.16                                 | 3.1                  | 58.1           | 56                   | .35                                  | 9.9  |  |                 |
| 1,000 to 1,999 .....                        | 7.8                  | 68.7           | 20.1          | 1.43                                 | 6.5                  | 137.2          | 133                  | .78                                  | 8.2  |  |                 |
| 2,000 or More .....                         | 3.3                  | 34.5           | 10.1          | .71                                  | 3.2                  | 75.1           | 73                   | .43                                  | 15.8 |  |                 |
| <b>Ownership of Unit</b>                    |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| Owned .....                                 | 11.7                 | 105.4          | 30.9          | 2.19                                 | 9.0                  | 189.1          | 183                  | 1.09                                 | 8.1  |  |                 |
| Rented .....                                | 6.7                  | 52.4           | 15.4          | 1.11                                 | 3.9                  | 81.3           | 79                   | .47                                  | 10.4 |  |                 |
| <b>Year of Construction</b>                 |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| 1949 or Before .....                        | 2.8                  | 23.0           | 6.8           | .48                                  | 3.0                  | 57.0           | 55                   | .34                                  | 12.2 |  |                 |
| 1950 to 1979 .....                          | 9.9                  | 89.9           | 26.3          | 1.87                                 | 8.6                  | 184.0          | 178                  | 1.06                                 | 7.1  |  |                 |
| 1980 or After? .....                        | 5.8                  | 44.9           | 13.2          | .96                                  | 1.2                  | 29.4           | 29                   | .16                                  | 21.2 |  |                 |
| <b>1990 Family Income</b>                   |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| Less than \$10,000 .....                    | 3.5                  | 24.7           | 7.2           | .52                                  | 2.6                  | 42.1           | 41                   | .24                                  | 12.7 |  |                 |
| \$10,000 to \$19,999 .....                  | 4.5                  | 39.8           | 11.7          | .82                                  | 2.1                  | 40.9           | 40                   | .24                                  | 9.9  |  |                 |
| \$20,000 to \$34,999 .....                  | 4.9                  | 41.2           | 12.1          | .86                                  | 3.4                  | 71.6           | 69                   | .40                                  | 9.0  |  |                 |
| \$35,000 or More .....                      | 5.6                  | 52.2           | 15.3          | 1.11                                 | 4.8                  | 115.7          | 112                  | .69                                  | 11.7 |  |                 |
| <b>Below Poverty Line</b>                   |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| 100 Percent .....                           | 2.9                  | 24.5           | 7.2           | .51                                  | 2.3                  | 42.3           | 41                   | .24                                  | 13.4 |  |                 |
| 125 Percent .....                           | 4.3                  | 36.4           | 10.7          | .76                                  | 2.8                  | 51.1           | 50                   | .28                                  | 10.7 |  |                 |
| <b>Age of Householder</b>                   |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| Under 35 Years .....                        | 5.6                  | 46.9           | 13.8          | 1.00                                 | 3.4                  | 77.7           | 75                   | .43                                  | 10.6 |  |                 |
| 35 to 59 Years .....                        | 8.0                  | 79.9           | 23.4          | 1.65                                 | 5.5                  | 130.4          | 126                  | .76                                  | 8.2  |  |                 |
| 60 Years and Over .....                     | 4.8                  | 31.0           | 9.1           | .65                                  | 4.0                  | 62.3           | 60                   | .37                                  | 9.6  |  |                 |
| <b>Household Size</b>                       |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| 1 Person .....                              | 4.7                  | 22.9           | 6.7           | .49                                  | 2.9                  | 35.3           | 34                   | .22                                  | 10.9 |  |                 |
| 2 to 4 Persons .....                        | 12.2                 | 113.3          | 33.2          | 2.37                                 | 8.3                  | 184.7          | 179                  | 1.06                                 | 6.3  |  |                 |
| 5 or More Persons .....                     | 1.6                  | 21.7           | 6.3           | .45                                  | 1.7                  | 50.4           | 49                   | .28                                  | 13.4 |  |                 |

See footnotes at end of table.

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Table 77. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in South Region Households, 1990 (Continued)

| Characteristics                             | Electricity         |                      |                |               |                                      |                      | Natural Gas    |                      |                                      |    | RSE Row Factors |    |
|---|---------------------|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|----|-----------------|----|
|   | RSE Column Factors: | Households (million) |                |               | Total Consumed                       |                      |                | Total Consumed       |                                      |    |                 | NF |
|   |                     | Households (million) | (trillion Btu) | (billion kWh) | Total Expenditures (billion dollars) | Households (million) | (trillion Btu) | (billion cubic feet) | Total Expenditures (billion dollars) |    |                 |    |
|   |                     |                      |                |               |                                      |                      |                |                      |                                      | NF |                 |    |
| South Atlantic Division .....               | 11.5                | 93.3                 | 27.4           | 2.08          | 4.5                                  | 93.3                 | 90             | 0.65                 | 9.3                                  |    |                 |    |
| <b>Climate Zone<sup>1</sup></b>             |                     |                      |                |               |                                      |                      |                |                      |                                      |    |                 |    |
| Under 2,000 HDD and Over 5,500 HDD .....    | Q                   | Q                    | Q              | Q             | NC                                   | NC                   | NC             | NC                   | NC                                   | NC | NC              |    |
| Under 5,500 HDD .....                       | 7.0                 | 65.3                 | 19.1           | 1.42          | 3.9                                  | 82.4                 | 80             | .55                  | 11.8                                 |    |                 |    |
| 2,000 HDD or More and Under 4,000 HDD ..... | 4.5                 | 27.7                 | 8.1            | .65           | .7                                   | 11.0                 | 10             | .10                  | 18.5                                 |    |                 |    |
| <b>Type of Housing Unit</b>                 |                     |                      |                |               |                                      |                      |                |                      |                                      |    |                 |    |
| Single-Family .....                         | 7.9                 | 68.6                 | 20.1           | 1.52          | 3.5                                  | 73.1                 | 71             | .51                  | 12.2                                 |    |                 |    |
| Mobile Home .....                           | 1.0                 | 8.2                  | 2.4            | .18           | Q                                    | Q                    | Q              | Q                    | 34.8                                 |    |                 |    |
| Multifamily (2 or more units) ..            | 2.7                 | 16.5                 | 4.8            | .38           | 1.0                                  | 19.4                 | 19             | .13                  | 20.0                                 |    |                 |    |
| <b>Heated Floorspace (square feet)</b>      |                     |                      |                |               |                                      |                      |                |                      |                                      |    |                 |    |
| Fewer than 1,000 .....                      | 4.5                 | 31.0                 | 9.1            | .69           | 1.2                                  | 22.2                 | 21             | .16                  | 11.8                                 |    |                 |    |
| 1,000 to 1,999 .....                        | 5.0                 | 40.9                 | 12.0           | .92           | 1.9                                  | 38.5                 | 37             | .27                  | 15.3                                 |    |                 |    |
| 2,000 or More .....                         | 2.1                 | 21.4                 | 6.3            | .47           | 1.5                                  | 32.7                 | 32             | .22                  | 19.3                                 |    |                 |    |
| <b>Ownership of Unit</b>                    |                     |                      |                |               |                                      |                      |                |                      |                                      |    |                 |    |
| Owned .....                                 | 7.6                 | 64.6                 | 18.9           | 1.44          | 2.9                                  | 59.9                 | 58             | .42                  | 12.8                                 |    |                 |    |
| Rented .....                                | 4.0                 | 28.7                 | 8.4            | .64           | 1.6                                  | 33.4                 | 32             | .23                  | 13.0                                 |    |                 |    |
| <b>Year of Construction</b>                 |                     |                      |                |               |                                      |                      |                |                      |                                      |    |                 |    |
| 1949 or Before .....                        | 1.6                 | 13.8                 | 4.0            | .31           | 1.2                                  | 22.2                 | 22             | .15                  | 16.7                                 |    |                 |    |
| 1950 to 1979 .....                          | 5.7                 | 50.3                 | 14.7           | 1.11          | 3.0                                  | 61.5                 | 59             | .43                  | 10.3                                 |    |                 |    |
| 1980 or After <sup>2</sup> .....            | 4.2                 | 29.2                 | 8.6            | .66           | .4                                   | 9.6                  | 9              | .07                  | 27.9                                 |    |                 |    |
| <b>1990 Family Income</b>                   |                     |                      |                |               |                                      |                      |                |                      |                                      |    |                 |    |
| Less than \$10,000 .....                    | 1.9                 | 13.0                 | 3.8            | .29           | .6                                   | 8.4                  | 8              | .06                  | 22.4                                 |    |                 |    |
| \$10,000 to \$19,999 .....                  | 2.8                 | 23.3                 | 6.8            | .50           | .7                                   | 12.2                 | 12             | .09                  | 15.7                                 |    |                 |    |
| \$20,000 to \$34,999 .....                  | 3.1                 | 24.6                 | 7.2            | .55           | 1.1                                  | 23.0                 | 22             | .15                  | 14.1                                 |    |                 |    |
| \$35,000 or More .....                      | 3.7                 | 32.4                 | 9.5            | .74           | 2.2                                  | 49.7                 | 48             | .35                  | 15.4                                 |    |                 |    |
| <b>Below Poverty Line</b>                   |                     |                      |                |               |                                      |                      |                |                      |                                      |    |                 |    |
| 100 Percent .....                           | 1.6                 | 12.6                 | 3.7            | .29           | .4                                   | 7.1                  | 7              | .05                  | 24.5                                 |    |                 |    |
| 125 Percent .....                           | 2.4                 | 19.5                 | 5.7            | .44           | .5                                   | 8.4                  | 8              | .05                  | 16.3                                 |    |                 |    |
| <b>Age of Householder</b>                   |                     |                      |                |               |                                      |                      |                |                      |                                      |    |                 |    |
| Under 35 Years .....                        | 3.5                 | 26.8                 | 7.9            | .61           | 1.2                                  | 27.1                 | 26             | .19                  | 15.8                                 |    |                 |    |
| 35 to 59 Years .....                        | 5.1                 | 48.2                 | 14.1           | 1.06          | 2.1                                  | 47.7                 | 46             | .33                  | 11.9                                 |    |                 |    |
| 60 Years and Over .....                     | 2.9                 | 18.3                 | 5.4            | .41           | 1.2                                  | 18.5                 | 18             | .13                  | 18.0                                 |    |                 |    |
| <b>Household Size</b>                       |                     |                      |                |               |                                      |                      |                |                      |                                      |    |                 |    |
| 1 Person .....                              | 3.0                 | 14.0                 | 4.1            | .31           | 1.1                                  | 13.2                 | 13             | .10                  | 18.5                                 |    |                 |    |
| 2 to 4 Persons .....                        | 7.7                 | 67.7                 | 19.8           | 1.51          | 2.9                                  | 64.9                 | 63             | .44                  | 9.8                                  |    |                 |    |
| 5 or More Persons .....                     | .9                  | 11.6                 | 3.4            | .25           | .5                                   | 15.2                 | 15             | .10                  | 20.1                                 |    |                 |    |

See footnotes at end of table.

**WATER-HEATING CONSUMPTION/EXPENDITURES**

**Table 77. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in South Region Households, 1990 (Continued)**

| Characteristics                             | Electricity          |                |               |                                      | Natural Gas          |                |                      |                                      | RSE Row Factors: |
|---|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|------------------|
|   | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                  |
|   |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |                  |
| RSE Column Factors:                         | 0.9                  | NF             | NF            | NF                                   | 1.1                  | NF             | NF                   | NF                                   |                  |
| <b>East South Central Division ..</b>       | <b>4.0</b>           | <b>39.5</b>    | <b>11.6</b>   | <b>0.68</b>                          | <b>2.2</b>           | <b>51.9</b>    | <b>50</b>            | <b>0.25</b>                          | <b>12.0</b>      |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                   | NC             | NC            | NC                                   | NC                   | NC             | NC                   | NC                                   | NC               |
| Under 5,500 HDD and 2,000 CDD or More ..... | 3.7                  | 36.4           | 10.7          | .68                                  | Q                    | Q              | Q                    | Q                                    | 12.3             |
| Under 4,000 HDD .....                       | Q                    | Q              | Q             | Q                                    | Q                    | Q              | Q                    | Q                                    | NF               |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Single-Family .....                         | 2.8                  | 29.3           | 8.6           | .50                                  | 1.7                  | 40.4           | 39                   | .19                                  | 18.8             |
| Mobile Home .....                           | .4                   | 4.6            | 1.3           | .08                                  | Q                    | Q              | Q                    | Q                                    | 28.0             |
| Multifamily (2 or more units) ..            | .8                   | 5.6            | 1.7           | .10                                  | Q                    | Q              | Q                    | Q                                    | 19.3             |
| <b>Heated Floorspace (square feet)</b>      |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Fewer than 1,000 .....                      | 1.6                  | 13.6           | 4.0           | .24                                  | .7                   | 14.4           | 14                   | .07                                  | 21.6             |
| 1,000 to 1,999 .....                        | 1.7                  | 17.5           | 5.1           | .30                                  | .8                   | 15.9           | 15                   | .08                                  | 15.3             |
| 2,000 or More .....                         | .8                   | 8.3            | 2.4           | .14                                  | Q                    | Q              | Q                    | Q                                    | 22.8             |
| <b>Ownership of Unit</b>                    |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Owned .....                                 | 2.8                  | 27.7           | 8.1           | .48                                  | 1.5                  | 36.0           | 35                   | .17                                  | 18.8             |
| Rented .....                                | 1.3                  | 11.8           | 3.4           | .20                                  | .7                   | 15.9           | 15                   | .07                                  | 20.5             |
| <b>Year of Construction</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                  |
| 1949 or Before .....                        | .9                   | 7.0            | 2.1           | .12                                  | .5                   | 11.1           | 11                   | .05                                  | 27.7             |
| 1950 to 1979 .....                          | 2.3                  | 23.9           | 7.0           | .41                                  | 1.3                  | 27.7           | 27                   | .13                                  | 16.1             |
| 1980 or After <sup>2</sup> .....            | .8                   | 8.5            | 2.5           | .15                                  | Q                    | Q              | Q                    | Q                                    | 15.7             |
| <b>1990 Family Income</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Less than \$10,000 .....                    | 1.1                  | 8.6            | 2.5           | .15                                  | .4                   | 7.6            | 7                    | .03                                  | 18.0             |
| \$10,000 to \$19,999 .....                  | 1.1                  | 10.6           | 3.1           | .18                                  | .4                   | 7.9            | 8                    | .04                                  | 20.1             |
| \$20,000 to \$34,999 .....                  | 1.0                  | 10.4           | 3.0           | .18                                  | .6                   | 12.5           | 12                   | .06                                  | 14.8             |
| \$35,000 or More .....                      | .9                   | 9.9            | 2.9           | .17                                  | .9                   | Q              | Q                    | .11                                  | 21.0             |
| <b>Below Poverty Line</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                  |
| 100 Percent .....                           | .9                   | 8.3            | 2.4           | .14                                  | .3                   | 6.4            | 6                    | .03                                  | 19.3             |
| 125 Percent .....                           | 1.2                  | 11.0           | 3.2           | .19                                  | .4                   | 7.9            | 8                    | .04                                  | 17.3             |
| <b>Age of Householder</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Under 35 Years .....                        | 1.1                  | 10.7           | 3.1           | .19                                  | .6                   | 14.4           | 14                   | .07                                  | 17.9             |
| 35 to 59 Years .....                        | 1.7                  | 19.7           | 5.8           | .34                                  | 1.1                  | 28.2           | 27                   | .14                                  | 14.9             |
| 60 Years and Over .....                     | 1.3                  | 9.1            | 2.7           | .16                                  | .5                   | 9.2            | 9                    | .04                                  | 18.1             |
| <b>Household Size</b>                       |                      |                |               |                                      |                      |                |                      |                                      |                  |
| 1 Person .....                              | 1.1                  | 5.5            | 1.6           | .10                                  | .6                   | 8.5            | 8                    | .04                                  | 19.6             |
| 2 to 4 Persons .....                        | 2.7                  | 29.8           | 8.7           | .51                                  | 1.4                  | 34.9           | 34                   | .17                                  | 12.3             |
| 5 or More Persons .....                     | .3                   | 4.2            | 1.2           | .07                                  | .2                   | 8.5            | 8                    | .04                                  | 30.1             |

See footnotes at end of table.

**SOUTH**

**Table 77. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in South Region Households, 1990 (Continued)**

| Characteristics                        | Electricity          |                |               |                                      | Natural Gas          |                |                      |                                      | RSE Row Factors |
|--|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|-----------------|
|  | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                 |
|  |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |                 |
| RSE Column Factors:                    | 0.9                  | NF             | NF            | NF                                   | 1.1                  | NF             | NF                   | NF                                   |                 |
| <b>West South Central Division</b>     | 2.9                  | 25.0           | 7.3           | 0.54                                 | 6.0                  | 125.2          | 122                  | 0.67                                 | 11.7            |
| <b>Climate Zone<sup>1</sup></b>        |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 2,000 CDD and Over 5,500 HDD     | NC                   | NC             | NC            | NC                                   | NC                   | NC             | NC                   | NC                                   | NC              |
| Under 5,500 HDD and 2,000 CDD or More  | Q                    | Q              | Q             | Q                                    | Q                    | Q              | Q                    | Q                                    | NF              |
| Under 4,000 HDD                        | 2.7                  | 23.5           | 6.9           | .51                                  | 5.2                  | 100.1          | 97                   | .57                                  | 15.5            |
| <b>Type of Housing Unit</b>            |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Single-Family                          | 1.7                  | 15.8           | 4.6           | .34                                  | 5.3                  | 110.4          | 107                  | .59                                  | 12.3            |
| Mobile Home                            | Q                    | Q              | Q             | Q                                    | Q                    | Q              | Q                    | Q                                    | 100.0           |
| Multifamily (2 or more units)          | 1.0                  | 7.8            | 2.3           | .17                                  | .6                   | 13.0           | 13                   | .07                                  | 34.9            |
| <b>Heated Floorspace (square feet)</b> |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Fewer than 1,000                       | 1.3                  | 10.0           | 2.9           | .23                                  | 1.2                  | 21.5           | 21                   | .12                                  | 20.2            |
| 1,000 to 1,999                         | 1.1                  | 10.2           | 3.0           | .21                                  | 3.8                  | 82.8           | 81                   | .43                                  | 12.8            |
| 2,000 or More                          | .5                   | 4.8            | 1.4           | .10                                  | 1.0                  | 20.8           | 20                   | .11                                  | 25.8            |
| <b>Ownership of Unit</b>               |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Owned                                  | 1.4                  | 13.1           | 3.8           | .28                                  | 4.5                  | 93.2           | 91                   | .50                                  | 16.5            |
| Rented                                 | 1.5                  | 12.0           | 3.5           | .26                                  | 1.5                  | 32.0           | 31                   | .17                                  | 20.0            |
| <b>Year of Construction</b>            |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1949 or Before                         | .3                   | 2.2            | .7            | .05                                  | 1.4                  | 23.6           | 23                   | .13                                  | 19.4            |
| 1950 to 1979                           | 1.8                  | 15.7           | 4.6           | .34                                  | 4.3                  | 94.8           | 92                   | .50                                  | 14.3            |
| 1980 or After <sup>2</sup>             | .8                   | 7.1            | 2.1           | .15                                  | .3                   | 6.7            | 7                    | .04                                  | 26.7            |
| <b>1990 Family Income</b>              |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Less than \$10,000                     | .4                   | 3.1            | .9            | .07                                  | 1.6                  | 26.0           | 25                   | .15                                  | 22.6            |
| \$10,000 to \$19,999                   | .7                   | 5.9            | 1.7           | .13                                  | 1.0                  | 20.8           | 20                   | .11                                  | 16.3            |
| \$20,000 to \$34,999                   | .8                   | 6.2            | 1.8           | .13                                  | 1.7                  | 36.1           | 35                   | .18                                  | 18.8            |
| \$35,000 or More                       | 1.0                  | 9.9            | 2.9           | .21                                  | 1.7                  | 42.2           | 41                   | .23                                  | 23.1            |
| <b>Below Poverty Line</b>              |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 100 Percent                            | .4                   | 3.6            | 1.0           | .08                                  | 1.6                  | 28.9           | 28                   | .16                                  | 22.6            |
| 125 Percent                            | .6                   | 5.8            | 1.7           | .13                                  | 1.9                  | 34.8           | 34                   | .19                                  | 20.2            |
| <b>Age of Householder</b>              |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 35 Years                         | 1.0                  | 9.4            | 2.7           | .20                                  | 1.5                  | 36.2           | 35                   | .18                                  | 20.2            |
| 35 to 59 Years                         | 1.2                  | 12.0           | 3.5           | .26                                  | 2.3                  | 54.4           | 53                   | .29                                  | 19.4            |
| 60 Years and Over                      | .6                   | 3.6            | 1.1           | .08                                  | 2.2                  | 34.6           | 34                   | .19                                  | 11.7            |
| <b>Household Size</b>                  |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1 Person                               | .7                   | 3.4            | 1.0           | .07                                  | 1.2                  | 13.6           | 13                   | .08                                  | 19.7            |
| 2 to 4 Persons                         | 1.7                  | 15.9           | 4.6           | .34                                  | 3.9                  | 84.9           | 83                   | .45                                  | 13.6            |
| 5 or More Persons                      | .5                   | 5.8            | 1.7           | .12                                  | .9                   | 26.7           | 26                   | .14                                  | 23.0            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 78. Total LPG Consumption and Expenditures for Water Heating in South Region Households, 1990

| Characteristics                             | Households (million) | Total Consumed |                   | Total Expenditures (billion dollars) | RSE Row Factors |
|---|----------------------|----------------|-------------------|--------------------------------------|-----------------|
|   |                      | (trillion Btu) | (billion gallons) |                                      |                 |
| RSE Column Factors:                         | 0.9                  | NF             | NF                | NF                                   |                 |
| South Region                                |                      |                |                   |                                      |                 |
| <b>Total Region</b> .....                   | 1.1                  | 19.3           | 0.21              | 0.22                                 | 29.5            |
| South Atlantic Division .....               | .4                   | 9.7            | .11               | .12                                  | 35.9            |
| East South Central Division .....           | Q                    | Q              | Q                 | Q                                    | NF              |
| West South Central Division .....           | Q                    | Q              | Q                 | Q                                    | NF              |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |                   |                                      |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                   | NC             | NC                | NC                                   | NC              |
| Under 5,500 HDD .....                       | .7                   | 12.0           | .13               | .14                                  | 40.1            |
| 2,000 CDD or More and Under 4,000 HDD ..... | .4                   | 7.3            | .08               | .08                                  | 41.6            |
| <b>Type of Housing Unit</b>                 |                      |                |                   |                                      |                 |
| Single-Family .....                         | 1.0                  | 17.0           | .19               | .19                                  | 31.5            |
| Mobile Home .....                           | Q                    | Q              | Q                 | Q                                    | NF              |
| Multifamily (2 or more units) .....         | Q                    | Q              | Q                 | Q                                    | NF              |
| <b>Heated Floorspace (square feet)</b>      |                      |                |                   |                                      |                 |
| Fewer than 1,000 .....                      | .3                   | 5.0            | .06               | .06                                  | 30.8            |
| 1,000 to 1,999 .....                        | .6                   | 9.2            | .10               | .10                                  | 38.5            |
| 2,000 or More .....                         | Q                    | Q              | Q                 | Q                                    | NF              |
| <b>Ownership of Unit</b>                    |                      |                |                   |                                      |                 |
| Owned .....                                 | 1.0                  | 15.2           | .17               | .17                                  | 30.9            |
| Rented .....                                | Q                    | Q              | Q                 | Q                                    | NF              |
| <b>Year of Construction</b>                 |                      |                |                   |                                      |                 |
| 1949 or Before .....                        | .3                   | 7.1            | .08               | Q                                    | 44.9            |
| 1950 to 1979 .....                          | .4                   | 7.2            | .08               | .08                                  | 37.8            |
| 1980 or After <sup>2</sup> .....            | Q                    | Q              | Q                 | Q                                    | NF              |
| <b>1990 Family Income</b>                   |                      |                |                   |                                      |                 |
| Less than \$10,000 .....                    | .4                   | 5.2            | .06               | .07                                  | 34.5            |
| \$10,000 to \$19,999 .....                  | Q                    | 6.1            | .07               | .06                                  | 45.1            |
| \$20,000 to \$34,999 .....                  | Q                    | Q              | Q                 | Q                                    | NF              |
| \$35,000 or More .....                      | .3                   | 6.4            | .07               | Q                                    | 46.5            |
| <b>Below Poverty Line</b>                   |                      |                |                   |                                      |                 |
| 100 Percent .....                           | .4                   | 5.6            | .06               | .06                                  | 32.6            |
| 125 Percent .....                           | .5                   | 8.0            | .09               | .09                                  | 32.3            |
| <b>Age of Householder</b>                   |                      |                |                   |                                      |                 |
| Under 35 Years .....                        | Q                    | Q              | Q                 | Q                                    | NF              |
| 35 to 59 Years .....                        | .5                   | 10.8           | .12               | .12                                  | 36.8            |
| 60 Years and Over .....                     | .4                   | 4.5            | .05               | .06                                  | 29.9            |
| <b>Household Size</b>                       |                      |                |                   |                                      |                 |
| 1 Person .....                              | .3                   | 3.1            | .03               | .04                                  | 37.0            |
| 2 to 4 Persons .....                        | .6                   | 10.5           | .11               | .11                                  | 33.1            |
| 5 or More Persons .....                     | Q                    | Q              | Q                 | Q                                    | NF              |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the South Atlantic, East South Central and West South Central Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**WATER-HEATING CONSUMPTION/EXPENDITURES**

**SOUTH**

**Table 79. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per South Region Household, 1990**

| Characteristics                             | Electricity          |               |       |                        |  |                      | Natural Gas   |                   |                        |  |     |    | RSE Row Factors |
|---|----------------------|---------------|-------|------------------------|--|----------------------|---------------|-------------------|------------------------|--|-----|----|-----------------|
|   | Households (million) | Consumption   |       | Expenditures (dollars) | Electricity Water-Heating Intensity (kWh per household member) | Households (million) | Consumption   |                   | Expenditures (dollars) | Natural Gas Water-Heating Intensity (1000 cubic feet per household member) |     |    |                 |
|   |                      | (million Btu) | (kWh) |                        |  |                      | (million Btu) | (1000 cubic feet) |                        |  |     |    |                 |
|   |                      |               |       |                        |  |                      |               |                   |                        |  | NF  | NF |                 |
| 1.9   | NF                   | NF            | NF    | NF                     | 2.4  | NF                   | NF            | NF                | NF                     |  |     |    |                 |
| <b>RSE Column Factors:</b>                  |                      |               |       |                        |  |                      |               |                   |                        |  |     |    |                 |
| <b>Total Region</b> .....                   | 18.2                 | 8.6           | 2,527 | 180                    | 996  | 12.8                 | 21.1          | 20.5              | 122                    | 7.6  | 2.9 |    |                 |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |       |                        |  |                      |               |                   |                        |  |     |    |                 |
| Under 2,000 HDD and Over 5,500 HDD .....    | Q                    | Q             | Q     | Q                      | Q  | NC                   | NC            | NC                | NC                     | NC   | NF  |    |                 |
| Under 5,500 HDD .....                       | 10.7                 | 9.6           | 2,805 | 193                    | 1,122  | 6.0                  | 23.3          | 22.7              | 133                    | 8.5  | 4.4 |    |                 |
| 2,000 HDD or More and Under 4,000 HDD ..... | 7.4                  | 7.3           | 2,127 | 162                    | 823  | 6.8                  | 19.2          | 18.5              | 112                    | 6.8  | 5.3 |    |                 |
| <b>Type of Housing Unit</b>                 |                      |               |       |                        |  |                      |               |                   |                        |  |     |    |                 |
| Single-Family .....                         | 12.1                 | 9.3           | 2,717 | 192                    | 1,010  | 10.4                 | 21.4          | 20.8              | 124                    | 7.5  | 3.6 |    |                 |
| Mobile Home .....                           | 1.6                  | 8.9           | 2,596 | 184                    | 840  | Q                    | Q             | Q                 | Q                      | Q  | 7.2 |    |                 |
| Multifamily (2 or more units) ..            | 4.4                  | 6.7           | 1,977 | 146                    | 1,035  | 2.2                  | 19.9          | 19.3              | 113                    | 8.5  | 7.0 |    |                 |
| <b>Heated Floorspace (square feet)</b>      |                      |               |       |                        |  |                      |               |                   |                        |  |     |    |                 |
| Fewer than 1,000 .....                      | 7.3                  | 7.4           | 2,175 | 157                    | 982  | 3.1                  | 18.5          | 17.9              | 111                    | 8.3  | 4.8 |    |                 |
| 1,000 to 1,999 .....                        | 7.6                  | 8.9           | 2,617 | 186                    | 975  | 6.5                  | 21.3          | 20.6              | 121                    | 7.1  | 4.2 |    |                 |
| 2,000 or More .....                         | 3.2                  | 10.6          | 3,118 | 220                    | 1,068  | 3.2                  | 23.5          | 22.8              | 135                    | 8.3  | 5.7 |    |                 |
| <b>Ownership of Unit</b>                    |                      |               |       |                        |  |                      |               |                   |                        |  |     |    |                 |
| Owned .....                                 | 11.5                 | 9.1           | 2,663 | 189                    | 1,009  | 9.0                  | 21.1          | 20.5              | 122                    | 7.5  | 3.8 |    |                 |
| Rented .....                                | 6.7                  | 7.8           | 2,292 | 166                    | 973  | 3.8                  | 21.2          | 20.5              | 123                    | 8.0  | 4.9 |    |                 |
| <b>Year of Construction</b>                 |                      |               |       |                        |  |                      |               |                   |                        |  |     |    |                 |
| 1949 or Before .....                        | 2.7                  | 8.4           | 2,468 | 174                    | 1,044  | 3.0                  | 18.8          | 18.2              | 111                    | 7.1  | 6.6 |    |                 |
| 1950 to 1979 .....                          | 9.7                  | 9.2           | 2,704 | 192                    | 1,038  | 8.6                  | 21.5          | 20.8              | 124                    | 7.8  | 3.3 |    |                 |
| 1980 or After <sup>2</sup> .....            | 5.8                  | 7.7           | 2,259 | 165                    | 905  | 1.2                  | 24.4          | 23.8              | 136                    | 7.7  | 8.7 |    |                 |
| <b>1990 Family Income</b>                   |                      |               |       |                        |  |                      |               |                   |                        |  |     |    |                 |
| Less than \$10,000 .....                    | 3.4                  | 7.1           | 2,093 | 149                    | 986  | 2.6                  | 16.5          | 15.9              | 93                     | 7.2  | 7.2 |    |                 |
| \$10,000 to \$19,999 .....                  | 4.5                  | 8.8           | 2,570 | 181                    | 1,046  | 2.1                  | 19.5          | 18.9              | 114                    | 8.0  | 5.4 |    |                 |
| \$20,000 to \$34,999 .....                  | 4.7                  | 8.6           | 2,516 | 179                    | 1,002  | 3.4                  | 21.2          | 20.6              | 118                    | 7.3  | 4.9 |    |                 |
| \$35,000 or More .....                      | 5.5                  | 9.5           | 2,773 | 201                    | 962  | 4.8                  | 24.3          | 23.6              | 144                    | 7.8  | 4.8 |    |                 |
| <b>Below Poverty Line</b>                   |                      |               |       |                        |  |                      |               |                   |                        |  |     |    |                 |
| 100 Percent .....                           | 2.9                  | 8.4           | 2,469 | 176                    | 909  | 2.3                  | 18.7          | 18.1              | 104                    | 6.6  | 7.1 |    |                 |
| 125 Percent .....                           | 4.2                  | 8.5           | 2,506 | 178                    | 916  | 2.8                  | 18.6          | 18.0              | 103                    | 6.6  | 5.9 |    |                 |
| <b>Age of Householder</b>                   |                      |               |       |                        |  |                      |               |                   |                        |  |     |    |                 |
| Under 35 Years .....                        | 5.6                  | 8.3           | 2,437 | 177                    | 876  | 3.3                  | 23.3          | 22.6              | 130                    | 7.3  | 4.3 |    |                 |
| 35 to 59 Years .....                        | 7.9                  | 10.1          | 2,959 | 209                    | 1,066  | 5.5                  | 23.7          | 23.0              | 138                    | 7.6  | 4.1 |    |                 |
| 60 Years and Over .....                     | 4.7                  | 6.5           | 1,909 | 137                    | 1,038  | 4.0                  | 15.8          | 15.3              | 93                     | 8.1  | 5.7 |    |                 |
| <b>Household Size</b>                       |                      |               |       |                        |  |                      |               |                   |                        |  |     |    |                 |
| 1 Person .....                              | 4.6                  | 4.9           | 1,444 | 105                    | 1,444  | 2.9                  | 12.3          | 11.9              | 77                     | 11.9   | 5.9 |    |                 |
| 2 to 4 Persons .....                        | 12.0                 | 9.4           | 2,753 | 196                    | 1,005  | 8.2                  | 22.4          | 21.7              | 128                    | 8.0  | 3.1 |    |                 |
| 5 or More Persons .....                     | 1.6                  | 13.6          | 3,973 | 280                    | 725  | 1.7                  | 30.0          | 29.2              | 169                    | 5.4  | 5.0 |    |                 |

**South Region**

See footnotes at end of table.

**WATER-HEATING CONSUMPTION/EXPENDITURES**

**Table 79. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per South Region Household, 1990 (Continued)**

| Characteristics   | Electricity          |               |       |                        |  |                      | Natural Gas   |                   |                        |  |      |      | RSE Row Factors |
|---|----------------------|---------------|-------|------------------------|--|----------------------|---------------|-------------------|------------------------|--|------|------|-----------------|
|   | Households (million) | Consumption   |       | Expenditures (dollars) | Electricity Water-Heating Intensity (kWh per household member) | Households (million) | Consumption   |                   | Expenditures (dollars) | Natural Gas Water-Heating Intensity (1000 cubic feet per household member) |      |      |                 |
|   |                      | (million Btu) | (kWh) |                        |  |                      | (million Btu) | (1000 cubic feet) |                        |  |      |      |                 |
| RSE Column Factors:   | 1.9                  | NI            | NI    | NI                     | NI   | 2.4                  | NI            | NI                | NI                     | NI   | NI   |      |                 |
| <b>South Region</b>   |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |                 |
| <b>Average Electricity Expenditures (cents per kWh)</b>       |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |                 |
| Less than 6 .....   | 3.4                  | 10.9          | 3,193 | 176                    | 1,244  | --                   | --            | --                | --                     | --   | --   | 3.7  |                 |
| 6 to Less than 9 .....  | 13.8                 | 8.3           | 2,432 | 184                    | 951  | --                   | --            | --                | --                     | --   | --   | 3.8  |                 |
| 9 or More .....   | 1.0                  | 5.4           | 1,574 | 152                    | 732  | --                   | --            | --                | --                     | --   | --   | 18.2 |                 |
| <b>Average Natural Gas Expenditures (dollars per 1000 cf)</b> |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |                 |
| Less than 4.50 .....  | --                   | --            | --    | --                     | --   | 1.9                  | 26.4          | 26.0              | 102                    | 8.8  | 6.6  |      |                 |
| 4.50 to Less than 6 .....                                     | --                   | --            | --    | --                     | --   | 3.7                  | 24.0          | 23.3              | 123                    | 8.3  | 5.0  |      |                 |
| 6 or More .....   | --                   | --            | --    | --                     | --   | 7.1                  | 18.2          | 17.6              | 127                    | 6.9  | 3.7  |      |                 |
| <b>Water Heater Used</b>                                      |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |                 |
| For One Housing Unit .....                                    | 17.3                 | 8.7           | 2,560 | 183                    | 993  | 11.7                 | 21.3          | 20.7              | 123                    | 7.6  | 3.1  |      |                 |
| For Two or More Units .....                                   | .9                   | 6.3           | 1,858 | 137                    | 1,091  | 1.1                  | 19.1          | 18.5              | 112                    | 7.5  | 9.3  |      |                 |
| <b>Age of Water Heater</b>                                    |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |                 |
| Less than 5 Years .....                                       | 5.4                  | 9.0           | 2,634 | 188                    | 979  | 3.8                  | 22.0          | 21.4              | 123                    | 7.7  | 5.7  |      |                 |
| 5 to 9 Years .....  | 4.6                  | 8.4           | 2,452 | 176                    | 1,008  | 2.4                  | 21.9          | 21.2              | 128                    | 7.5  | 6.4  |      |                 |
| 10 to 19 Years .....  | 4.1                  | 9.3           | 2,713 | 192                    | 1,015  | 3.2                  | 20.5          | 19.8              | 122                    | 7.4  | 4.3  |      |                 |
| 20 Years or More .....  | 1.3                  | 7.5           | 2,188 | 158                    | 1,037  | .8                   | 18.3          | 17.6              | 109                    | 7.6  | 9.1  |      |                 |
| Don't Know .....  | 1.9                  | 8.9           | 2,623 | 187                    | 952  | 1.3                  | 22.1          | 21.3              | 122                    | 8.3  | 8.3  |      |                 |
| <b>Size of Water Heater</b>                                   |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |                 |
| 30 gallons or less .....                                      | 3.8                  | 6.8           | 2,004 | 143                    | 875  | 2.2                  | 17.4          | 16.8              | 105                    | 6.4  | 5.3  |      |                 |
| 31 to 49 gallons .....  | 9.5                  | 8.7           | 2,543 | 185                    | 984  | 7.2                  | 21.4          | 20.8              | 123                    | 7.7  | 4.1  |      |                 |
| 50 gallons or more .....                                      | 3.2                  | 11.2          | 3,289 | 224                    | 1,095  | 1.9                  | 25.7          | 24.9              | 144                    | 8.5  | 6.3  |      |                 |
| Don't Know .....  | .7                   | 9.1           | 2,665 | 181                    | 1,228  | .3                   | 22.1          | 21.4              | 124                    | 8.5  | 13.3 |      |                 |
| <b>Location of Water Heater</b>                               |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |                 |
| Heated Area .....   | 12.2                 | 8.8           | 2,565 | 180                    | 1,047  | 7.8                  | 21.5          | 20.8              | 121                    | 7.8  | 3.7  |      |                 |
| Unheated Area .....   | 5.0                  | 8.8           | 2,574 | 191                    | 887  | 3.7                  | 20.9          | 20.2              | 125                    | 7.4  | 3.5  |      |                 |
| <b>Clothes Washer Present in Household</b>                    |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |                 |
| Yes .....   | 14.3                 | 9.0           | 2,645 | 188                    | 983  | 10.3                 | 21.5          | 20.9              | 124                    | 7.5  | 3.3  |      |                 |
| No .....  | 3.9                  | 7.1           | 2,091 | 152                    | 1,062  | 2.5                  | 19.6          | 19.0              | 113                    | 8.1  | 6.2  |      |                 |
| <b>Dishwasher Present in Household</b>                        |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |                 |
| Yes .....   | 8.8                  | 8.5           | 2,499 | 179                    | 999  | 6.1                  | 22.4          | 21.7              | 128                    | 7.8  | 4.9  |      |                 |
| No .....  | 9.3                  | 8.7           | 2,553 | 182                    | 994  | 6.7                  | 20.0          | 19.4              | 116                    | 7.4  | 3.8  |      |                 |
| <b>Children Present in Household</b>                          |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |                 |
| No .....  | 11.0                 | 7.0           | 2,057 | 148                    | 1,194  | 7.5                  | 17.7          | 17.1              | 104                    | 9.7  | 3.7  |      |                 |
| Yes .....   | 7.2                  | 11.1          | 3,241 | 229                    | 859  | 5.3                  | 26.0          | 25.2              | 147                    | 6.3  | 3.3  |      |                 |
| (more than one may apply)                                     |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |                 |
| Under 13 Years .....  | 5.5                  | 10.8          | 3,160 | 221                    | 801  | 4.1                  | 25.4          | 24.6              | 145                    | 5.9  | 3.4  |      |                 |
| 13 to 18 Years .....  | 3.1                  | 13.1          | 3,828 | 272                    | 980  | 2.2                  | 29.0          | 28.2              | 159                    | 6.6  | 4.2  |      |                 |

See footnotes at end of table.

**SOUTH**



Table 79. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per South Region Household, 1990 (Continued)

| Characteristics                        | Electricity          |               |       |               |                        |  | Natural Gas          |                   |     |                        |  |    | RSE Row Factors |
|--|----------------------|---------------|-------|---------------|------------------------|--|----------------------|-------------------|-----|------------------------|--|----|-----------------|
|  | Households (million) | Consumption   |       |               | Expenditures (dollars) | Electricity Water-Heating Intensity (kWh per household member) | Households (million) | Consumption       |     | Expenditures (dollars) | Natural Gas Water-Heating Intensity (1000 cubic feet per household member) |    |                 |
|  |                      | (million Btu) | (kWh) | (million Btu) |                        |  |                      | (1000 cubic feet) | NF  |                        |  | NF |                 |
|  |                      |               |       |               |                        |  |                      |                   |     |                        |  |    |                 |
| 1.9                                    | NF                   | NF            | NF    | NF            | NF                     | 2.4  | NF                   | NF                | NF  | NF                     |  |    |                 |
| RSE Column Factors:                    | 1.9                  | NF            | NF    | NF            | NF                     | 2.4  | NF                   | NF                | NF  | NF                     | NF   | NF |                 |
| South Atlantic Division                | 11.4                 | 8.1           | 2,388 | 182           | 982                    | 4.5  | 20.6                 | 19.9              | 143 | 7.7                    | 4.2  |    |                 |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |       |               |                        |  |                      |                   |     |                        |  |    |                 |
| Under 2,000 CDD and Over 5,500 HDD     | Q                    | Q             | Q     | Q             | Q                      | NC   | NC                   | NC                | NC  | NC                     | NF   |    |                 |
| Under 5,500 HDD                        | 6.9                  | 9.4           | 2,768 | 206           | 1,098                  | 3.9  | 21.2                 | 20.6              | 141 | 8.1                    | 5.1  |    |                 |
| 2,000 CDD or More and Under 4,000 HDD  | 4.5                  | 6.2           | 1,806 | 145           | 727                    | .7   | 16.9                 | 16.1              | 149 | 5.4                    | 9.6  |    |                 |
| <b>Type of Housing Unit</b>            |                      |               |       |               |                        |  |                      |                   |     |                        |  |    |                 |
| Single-Family                          | 7.8                  | 8.8           | 2,572 | 195           | 963                    | 3.4  | 21.2                 | 20.5              | 148 | 7.5                    | 5.5  |    |                 |
| Mobile Home                            | 1.0                  | 8.3           | 2,434 | 182           | 820                    | Q  | Q                    | Q                 | Q   | Q                      | 8.0  |    |                 |
| Multifamily (2 or more units)          | 2.6                  | 6.2           | 1,828 | 143           | 984                    | 1.0  | 18.8                 | 18.3              | 128 | 8.5                    | 10.2   |    |                 |
| <b>Heated Floorspace (square feet)</b> |                      |               |       |               |                        |  |                      |                   |     |                        |  |    |                 |
| Fewer than 1,000                       | 4.5                  | 7.0           | 2,040 | 156           | 926                    | 1.2  | 17.9                 | 17.3              | 127 | 8.3                    | 6.2  |    |                 |
| 1,000 to 1,999                         | 4.9                  | 8.3           | 2,424 | 185           | 933                    | 1.9  | 20.7                 | 20.0              | 143 | 6.9                    | 6.5  |    |                 |
| 2,000 or More                          | 2.0                  | 10.5          | 3,068 | 231           | 1,037                  | 1.4  | 22.7                 | 22.0              | 155 | 8.3                    | 8.3  |    |                 |
| <b>Ownership of Unit</b>               |                      |               |       |               |                        |  |                      |                   |     |                        |  |    |                 |
| Owned                                  | 7.4                  | 8.6           | 2,533 | 192           | 973                    | 2.9  | 20.6                 | 20.0              | 144 | 7.4                    | 5.5  |    |                 |
| Rented                                 | 4.0                  | 7.2           | 2,116 | 162           | 908                    | 1.6  | 20.5                 | 19.8              | 140 | 8.1                    | 6.5  |    |                 |
| <b>Year of Construction</b>            |                      |               |       |               |                        |  |                      |                   |     |                        |  |    |                 |
| 1949 or Before                         | 1.6                  | 8.5           | 2,503 | 189           | 1,020                  | 1.2  | 19.0                 | 18.4              | 129 | 7.4                    | 9.0  |    |                 |
| 1950 to 1979                           | 5.6                  | 8.9           | 2,607 | 196           | 1,006                  | 3.0  | 20.7                 | 20.0              | 144 | 7.7                    | 5.2  |    |                 |
| 1980 or After <sup>2</sup>             | 4.2                  | 7.0           | 2,049 | 159           | 846                    | .4   | 24.1                 | 23.5              | 170 | 8.1                    | 11.7   |    |                 |
| <b>1990 Family Income</b>              |                      |               |       |               |                        |  |                      |                   |     |                        |  |    |                 |
| Less than \$10,000                     | 1.9                  | 6.8           | 1,983 | 153           | 932                    | .6   | 14.8                 | 14.3              | 97  | 7.8                    | 12.4   |    |                 |
| \$10,000 to \$19,999                   | 2.8                  | 8.2           | 2,410 | 178           | 970                    | .7   | 17.4                 | 16.9              | 128 | 7.9                    | 8.7  |    |                 |
| \$20,000 to \$34,999                   | 3.0                  | 8.1           | 2,362 | 178           | 971                    | 1.1  | 20.6                 | 19.8              | 137 | 7.7                    | 7.4  |    |                 |
| \$35,000 or More                       | 3.6                  | 8.9           | 2,607 | 202           | 934                    | 2.1  | 23.2                 | 22.5              | 162 | 7.6                    | 6.3  |    |                 |
| <b>Below Poverty Line</b>              |                      |               |       |               |                        |  |                      |                   |     |                        |  |    |                 |
| 100 Percent                            | 1.6                  | 8.1           | 2,371 | 185           | 854                    | .4   | 18.4                 | 17.8              | 118 | 7.0                    | 12.6   |    |                 |
| 125 Percent                            | 2.4                  | 8.2           | 2,406 | 184           | 854                    | .5   | 17.2                 | 16.6              | 111 | 7.1                    | 8.8  |    |                 |
| <b>Age of Householder</b>              |                      |               |       |               |                        |  |                      |                   |     |                        |  |    |                 |
| Under 35 Years                         | 3.5                  | 7.6           | 2,231 | 173           | 824                    | 1.2  | 22.2                 | 21.4              | 152 | 7.6                    | 5.8  |    |                 |
| 35 to 59 Years                         | 5.0                  | 9.6           | 2,812 | 211           | 1,029                  | 2.1  | 22.4                 | 21.7              | 154 | 7.5                    | 6.2  |    |                 |
| 60 Years and Over                      | 2.9                  | 6.3           | 1,843 | 141           | 986                    | 1.2  | 15.7                 | 15.1              | 112 | 8.2                    | 10.2   |    |                 |
| <b>Household Size</b>                  |                      |               |       |               |                        |  |                      |                   |     |                        |  |    |                 |
| 1 Person                               | 2.9                  | 4.8           | 1,395 | 107           | 1,395                  | 1.1  | 12.3                 | 11.9              | 94  | 11.9                   | 9.2  |    |                 |
| 2 to 4 Persons                         | 7.6                  | 8.9           | 2,595 | 198           | 943                    | 2.9  | 22.1                 | 21.4              | 151 | 7.9                    | 3.8  |    |                 |
| 5 or More Persons                      | .9                   | 13.3          | 3,905 | 291           | 719                    | .5   | 29.0                 | 28.1              | 194 | 5.4                    | 9.0  |    |                 |

See footnotes at end of table.

**Table 79. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per South Region Household, 1990 (Continued)**

| Characteristics                             | Electricity          |               |       |                        |  |                      | Natural Gas   |                   |                        |  |      |    | RSE Flow Factors |
|---|----------------------|---------------|-------|------------------------|--|----------------------|---------------|-------------------|------------------------|--|------|----|------------------|
|   | Households (million) | Consumption   |       | Expenditures (dollars) | Electricity Water-Heating Intensity (kWh per household member) | Households (million) | Consumption   |                   | Expenditures (dollars) | Natural Gas Water-Heating Intensity (1000 cubic feet per household member) |      |    |                  |
|   |                      | (million Btu) | (kWh) |                        |  |                      | (million Btu) | (1000 cubic feet) |                        |  |      |    |                  |
| RSE Column Factors:                         | 1.9                  | NF            | NF    | NF                     | NF   | 2.4                  | NF            | NF                | NF                     | NF   | NF   |    |                  |
| <b>East South Central Division ..</b>       | 4.0                  | 9.8           | 2,983 | 170                    | 1,179  | 2.2                  | 23.3          | 22.5              | 110                    | 8.6  | 5.3  |    |                  |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                  |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                   | NC            | NC    | NC                     | NC   | NC                   | NC            | NC                | NC                     | NC   | NC   | NC |                  |
| Under 5,500 HDD .....                       | 3.7                  | 9.9           | 2,906 | 171                    | 1,182  | Q                    | 26.0          | 25.2              | 121                    | 9.0  | 4.3  |    |                  |
| 2,000 CDD or More and Under 4,000 HDD ..... | Q                    | 9.0           | 2,631 | 156                    | 1,152  | Q                    | 19.8          | 19.0              | 96                     | 8.0  | 47.3 |    |                  |
| <b>Type of Housing Unit</b>                 |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                  |
| Single-Family .....                         | 2.8                  | 10.4          | 3,034 | 177                    | 1,200  | 1.6                  | 24.4          | 23.6              | 117                    | 8.2  | 5.7  |    |                  |
| Mobile Home .....                           | .4                   | 10.3          | 3,025 | 190                    | 1,036  | Q                    | Q             | Q                 | Q                      | Q  | 16.3 |    |                  |
| Multifamily (2 or more units) ..            | .7                   | 7.8           | 2,219 | 131                    | 1,209  | Q                    | 19.9          | 19.3              | 88                     | 10.4   | 9.0  |    |                  |
| <b>Heated Floorspace (square feet)</b>      |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                  |
| Fewer than 1,000 .....                      | 1.6                  | 8.6           | 2,507 | 149                    | 1,122  | .7                   | 20.9          | 20.2              | 98                     | 9.9  | 8.8  |    |                  |
| 1,000 to 1,999 .....                        | 1.7                  | 10.5          | 3,081 | 182                    | 1,187  | .8                   | 21.2          | 20.4              | 105                    | 7.8  | 5.3  |    |                  |
| 2,000 or More .....                         | .7                   | 11.1          | 3,241 | 187                    | 1,268  | Q                    | 27.3          | 26.5              | 126                    | 8.5  | 7.3  |    |                  |
| <b>Ownership of Unit</b>                    |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                  |
| Owned .....                                 | 2.7                  | 10.1          | 2,960 | 174                    | 1,176  | 1.5                  | 23.9          | 23.1              | 114                    | 8.4  | 6.0  |    |                  |
| Rented .....                                | 1.3                  | 9.3           | 2,716 | 161                    | 1,187  | .7                   | 21.9          | 21.2              | 102                    | 9.2  | 9.3  |    |                  |
| <b>Year of Construction</b>                 |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                  |
| 1949 or Before .....                        | .8                   | 8.2           | 2,403 | 143                    | 1,040  | .5                   | 23.3          | 22.3              | 112                    | 10.1   | 11.4 |    |                  |
| 1950 to 1979 .....                          | 2.3                  | 10.3          | 3,032 | 178                    | 1,261  | 1.3                  | 21.4          | 20.6              | 103                    | 8.2  | 5.7  |    |                  |
| 1980 or After? .....                        | .8                   | 10.1          | 2,957 | 175                    | 1,100  | Q                    | 28.7          | 28.0              | 128                    | 8.5  | 12.3 |    |                  |
| <b>1990 Family Income</b>                   |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                  |
| Less than \$10,000 .....                    | 1.1                  | 7.6           | 2,229 | 133                    | 1,062  | .4                   | 19.3          | 18.5              | 88                     | 8.5  | 11.2 |    |                  |
| \$10,000 to \$19,999 .....                  | 1.0                  | 10.2          | 2,987 | 175                    | 1,343  | .4                   | 21.0          | 20.3              | 100                    | 9.6  | 10.4 |    |                  |
| \$20,000 to \$34,999 .....                  | 1.0                  | 10.7          | 3,124 | 187                    | 1,130  | .6                   | 21.4          | 20.6              | 104                    | 7.7  | 6.2  |    |                  |
| \$35,000 or More .....                      | .9                   | 11.4          | 3,341 | 193                    | 1,192  | .9                   | 27.3          | 26.5              | 129                    | 8.9  | 8.0  |    |                  |
| <b>Below Poverty Line</b>                   |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                  |
| 100 Percent .....                           | .9                   | 9.0           | 2,626 | 153                    | 1,044  | .3                   | 21.2          | 20.3              | 97                     | 8.2  | 10.5 |    |                  |
| 125 Percent .....                           | 1.2                  | 8.8           | 2,586 | 152                    | 1,067  | .4                   | 21.3          | 20.4              | 98                     | 8.1  | 11.0 |    |                  |
| <b>Age of Householder</b>                   |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                  |
| Under 35 Years .....                        | 1.1                  | 10.0          | 2,920 | 174                    | 1,061  | .6                   | 24.8          | 24.0              | 114                    | 8.7  | 7.7  |    |                  |
| 35 to 59 Years .....                        | 1.7                  | 11.7          | 3,416 | 189                    | 1,260  | 1.1                  | 25.4          | 24.5              | 123                    | 8.3  | 6.7  |    |                  |
| 60 Years and Over .....                     | 1.2                  | 7.3           | 2,131 | 127                    | 1,189  | .5                   | 17.3          | 16.6              | 80                     | 9.7  | 6.9  |    |                  |
| <b>Household Size</b>                       |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                  |
| 1 Person .....                              | 1.0                  | 5.3           | 1,544 | 94                     | 1,544  | .6                   | 15.0          | 14.5              | 70                     | 14.5   | 6.5  |    |                  |
| 2 to 4 Persons .....                        | 2.7                  | 11.0          | 3,211 | 189                    | 1,186  | 1.4                  | 24.5          | 23.6              | 117                    | 8.4  | 5.3  |    |                  |
| 5 or More Persons .....                     | .3                   | 16.6          | 4,864 | 273                    | 877  | .2                   | 35.7          | 34.6              | 167                    | 6.5  | 8.4  |    |                  |

See footnotes at end of table.

**SOUTH**

**WATER-HEATING CONSUMPTION/EXPENDITURES**

**Table 79. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per South Region Household, 1990 (Continued)**

| Characteristics   | Electricity          |               |       |                        |  | Natural Gas          |               |                   |                        |  | RSE Row Factors |
|---|----------------------|---------------|-------|------------------------|--|----------------------|---------------|-------------------|------------------------|--|-----------------|
|   | Households (million) | Consumption   |       | Expenditures (dollars) | Electricity Water-Heating Intensity (kWh per household member) | Households (million) | Consumption   |                   | Expenditures (dollars) | Natural Gas Water-Heating Intensity (1000 cubic feet per household member) |                 |
|   |                      | (million Btu) | (kWh) |                        |  |                      | (million Btu) | (1000 cubic feet) |                        |  |                 |
| RSE Column Factors:                                       | 1.9                  | NF            | NF    | NF                     | NF   | 2.4                  | NF            | NF                | NF                     | NF   |                 |
| <b>West South Central Division</b>                        | 2.8                  | 8.8           | 2,584 | 191                    | 929  | 6.0                  | 20.8          | 20.2              | 111                    | 7.2  | 6.5             |
| <b>Climate Zone<sup>1</sup></b>                           |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Under 2,000 CDD and Over 5,500 HDD                        | NC                   | NC            | NC    | NC                     | NC   | NC                   | NC            | NC                | NC                     | NC   | NC              |
| Under 5,500 HDD and 2,000 CDD or More and Under 4,000 HDD | Q                    | Q             | Q     | Q                      | Q  | Q                    | 28.9          | 28.7              | 112                    | 9.6  | 6.2             |
| Under 4,000 HDD   | 2.6                  | 8.9           | 2,611 | 193                    | 933  | 5.2                  | 19.4          | 18.8              | 111                    | 6.8  | 7.6             |
| <b>Type of Housing Unit</b>                               |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Single-Family   | 1.6                  | 9.8           | 2,868 | 208                    | 932  | 5.3                  | 20.7          | 20.1              | 111                    | 7.3  | 6.2             |
| Mobile Home   | Q                    | Q             | Q     | Q                      | Q  | Q                    | Q             | Q                 | Q                      | Q  | NF              |
| Multifamily (2 or more units)                             | 1.0                  | 7.5           | 2,184 | 167                    | 1,041  | .6                   | 21.7          | 21.0              | 112                    | 7.3  | 15.2            |
| <b>Heated Floorspace (square feet)</b>                    |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Fewer than 1,000  | 1.3                  | 7.6           | 2,232 | 173                    | 1,003  | 1.2                  | 17.6          | 17.2              | 101                    | 7.5  | 11.4            |
| 1,000 to 1,999  | 1.0                  | 9.5           | 2,793 | 200                    | 864  | 3.8                  | 21.5          | 21.0              | 113                    | 7.0  | 6.4             |
| 2,000 or More   | .4                   | 10.7          | 3,142 | 224                    | 929  | 1.0                  | 21.6          | 20.9              | 113                    | 8.0  | 12.1            |
| <b>Ownership of Unit</b>                                  |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Owned   | 1.3                  | 9.5           | 2,779 | 203                    | 896  | 4.5                  | 20.5          | 19.9              | 110                    | 7.2  | 8.2             |
| Rented  | 1.5                  | 8.2           | 2,406 | 180                    | 967  | 1.5                  | 21.6          | 20.9              | 114                    | 7.4  | 9.6             |
| <b>Year of Construction</b>                               |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| 1949 or Before  | Q                    | Q             | Q     | Q                      | Q  | 1.4                  | 17.2          | 16.6              | 97                     | 6.1  | 10.4            |
| 1950 to 1979  | 1.7                  | 8.8           | 2,585 | 194                    | 881  | 4.3                  | 22.0          | 21.5              | 116                    | 7.7  | 6.5             |
| 1980 or After <sup>2</sup>                                | .8                   | 8.9           | 2,617 | 186                    | 972  | .3                   | 19.2          | 18.7              | 106                    | 6.1  | 15.4            |
| <b>1990 Family Income</b>                                 |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Less than \$10,000  | .4                   | 7.6           | 2,239 | 180                    | 1,030  | 1.6                  | 16.4          | 15.9              | 93                     | 6.8  | 15.2            |
| \$10,000 to \$19,999                                      | .7                   | 8.9           | 2,606 | 200                    | 964  | 1.0                  | 20.4          | 19.8              | 108                    | 7.5  | 9.6             |
| \$20,000 to \$34,999                                      | .7                   | 8.0           | 2,347 | 169                    | 937  | 1.7                  | 21.6          | 21.1              | 110                    | 7.0  | 8.7             |
| \$35,000 or More  | 1.0                  | 9.8           | 2,885 | 205                    | 878  | 1.7                  | 24.2          | 23.5              | 129                    | 7.6  | 10.6            |
| <b>Below Poverty Line</b>                                 |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| 100 Percent   | .4                   | 8.5           | 2,488 | 197                    | 842  | 1.6                  | 18.3          | 17.8              | 102                    | 6.3  | 15.2            |
| 125 Percent   | .6                   | 9.3           | 2,732 | 213                    | 893  | 1.9                  | 18.4          | 17.9              | 102                    | 6.2  | 12.1            |
| <b>Age of Householder</b>                                 |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Under 35 Years  | 1.0                  | 9.0           | 2,643 | 196                    | 860  | 1.5                  | 23.6          | 23.0              | 119                    | 6.7  | 8.4             |
| 35 to 59 Years  | 1.2                  | 10.0          | 2,932 | 213                    | 973  | 2.3                  | 24.1          | 23.4              | 130                    | 7.3  | 7.7             |
| 60 Years and Over   | .6                   | 8.0           | 1,760 | 136                    | 986  | 2.2                  | 15.4          | 15.0              | 86                     | 7.7  | 9.3             |
| <b>Household Size</b>                                     |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| 1 Person  | .7                   | 5.1           | 1,499 | 113                    | 1,499  | 1.2                  | 11.0          | 10.7              | 65                     | 10.7   | 9.0             |
| 2 to 4 Persons  | 1.7                  | 9.3           | 2,736 | 202                    | 998  | 3.9                  | 21.9          | 21.3              | 115                    | 7.9  | 6.5             |
| 5 or More Persons   | .4                   | 12.3          | 3,601 | 265                    | 650  | .9                   | 29.2          | 28.3              | 155                    | 5.1  | 6.2             |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.  
<sup>2</sup> Does not include all new construction for 1990.  
 NC = No cases in sample.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 NF = No applicable RSE row/column factor.  
 -- = Not applicable.  
 Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, E, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**WATER-HEATING CONSUMPTION/EXPENDITURES**

**Table 80. LPG Consumption and Expenditures for Main Water Heating, per South Region Household, 1990**

| Characteristics                             | Households (million) | Consumption   |           | Expenditures (dollars) | LPG Water-Heating Intensity (gallons per household member) | RSE RCV Factors |
|---|----------------------|---------------|-----------|------------------------|--|-----------------|
|   |                      | (million Btu) | (gallons) |                        |  |                 |
| RSE Column Factors:                         | 1.4                  | NF            | NF        | NF                     | NF   |                 |
| <b>South Region</b>                         |                      |               |           |                        |  |                 |
| <b>Total Region</b> .....                   | 1.1                  | 16.9          | 185       | 194                    | 64   | 17.1            |
| South Atlantic Division .....               | .4                   | 22.6          | 247       | 287                    | 101  | 22.1            |
| East South Central Division .....           | Q                    | 13.4          | 147       | 150                    | 48   | 18.4            |
| West South Central Division .....           | Q                    | 13.6          | 149       | 133                    | 47   | 24.7            |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |           |                        |  |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                   | NC            | 186       | 200                    | 66   | NC              |
| Under 5,500 HDD .....                       | .7                   | 17.0          | 186       | 200                    | 66   | 25.0            |
| 2,000 CDD or More and Under 4,000 HDD ..... | .4                   | 16.8          | 184       | 186                    | Q  | 29.5            |
| <b>Type of Housing Unit</b>                 |                      |               |           |                        |  |                 |
| Single-Family .....                         | 1.0                  | 16.9          | 185       | 189                    | 63   | 17.3            |
| Mobile Home .....                           | Q                    | Q             | Q         | Q                      | Q  | NF              |
| Multifamily (2 or more units) .....         | Q                    | Q             | Q         | Q                      | Q  | NF              |
| <b>Heated Floorspace (square feet)</b>      |                      |               |           |                        |  |                 |
| Fewer than 1,000 .....                      | .3                   | 15.3          | 168       | 197                    | 86   | 24.7            |
| 1,000 to 1,999 .....                        | .6                   | 14.9          | 164       | 163                    | 49   | 20.5            |
| 2,000 or More .....                         | Q                    | Q             | Q         | Q                      | Q  | NF              |
| <b>Ownership of Unit</b>                    |                      |               |           |                        |  |                 |
| Owned .....                                 | 1.0                  | 15.4          | 168       | 172                    | 58   | 17.2            |
| Rented .....                                | Q                    | Q             | Q         | Q                      | Q  | NF              |
| <b>Year of Construction</b>                 |                      |               |           |                        |  |                 |
| 1949 or Before .....                        | .3                   | 21.4          | 234       | 277                    | 98   | 29.2            |
| 1950 to 1979 .....                          | .4                   | 16.7          | 183       | 190                    | 63   | 26.6            |
| 1980 or After? .....                        | Q                    | 13.3          | 146       | 127                    | 44   | 25.5            |
| <b>1990 Family Income</b>                   |                      |               |           |                        |  |                 |
| Less than \$10,000 .....                    | .4                   | 13.4          | 147       | 172                    | 76   | 34.9            |
| \$10,000 to \$19,999 .....                  | Q                    | 16.2          | 177       | 167                    | Q  | 43.7            |
| \$20,000 to \$34,999 .....                  | Q                    | 23.1          | 253       | 274                    | Q  | NF              |
| \$35,000 or More .....                      | .3                   | 23.1          | 253       | 274                    | 67   | 36.5            |
| <b>Below Poverty Line</b>                   |                      |               |           |                        |  |                 |
| 100 Percent .....                           | .4                   | 15.0          | 165       | 169                    | 48   | 18.7            |
| 125 Percent .....                           | .5                   | 16.4          | 179       | 190                    | 58   | 27.5            |
| <b>Age of Householder</b>                   |                      |               |           |                        |  |                 |
| Under 35 Years .....                        | Q                    | Q             | Q         | Q                      | Q  | NF              |
| 35 to 59 Years .....                        | .5                   | 20.2          | 221       | 220                    | 64   | 26.4            |
| 60 Years and Over .....                     | .4                   | 11.4          | 125       | 142                    | 78   | 17.3            |
| <b>Household Size</b>                       |                      |               |           |                        |  |                 |
| 1 Person .....                              | .3                   | 9.9           | 109       | 132                    | 109  | 28.3            |
| 2 to 4 Persons .....                        | .6                   | 18.1          | 198       | 196                    | 75   | 28.0            |
| 5 or More Persons .....                     | Q                    | Q             | Q         | Q                      | Q  | NF              |

See footnotes at end of table.

**SOUTH**

**Table 80. LPG Consumption and Expenditures for Main Water Heating, per South Region Household, 1990 (Continued)**

| Characteristics   | Households (million) | Consumption   |           | Expenditures (dollars) | LPG Water-Heating Intensity (gallons per household member) | RSE Row Factors |
|---|----------------------|---------------|-----------|------------------------|--|-----------------|
|   |                      | (million Btu) | (gallons) |                        |  |                 |
| RSE Column Factors:                                       | 1.4                  | NF            | NF        | NF                     | NF   |                 |
| South Region  |                      |               |           |                        |  |                 |
| <b>Average Fuel Oil Expenditures (dollars per gallon)</b> |                      |               |           |                        |  |                 |
| Less than 95 .....  | 1.1                  | 16.9          | 185       | 194                    | 64   | 17.1            |
| 95 to Less than 1.10 .....                                | NC                   | NC            | NC        | NC                     | NC   | NC              |
| 1.10 or More .....  | NC                   | NC            | NC        | NC                     | NC   | NC              |
| <b>Average LPG Expenditures (dollars per gallon)</b>      |                      |               |           |                        |  |                 |
| Less than 75 .....  | Q                    | Q             | Q         | Q                      | Q  | NF              |
| 75 to Less than 1.00 .....                                | .5                   | 12.6          | 138       | 126                    | 44   | 19.6            |
| 1.00 or More .....  | .6                   | 18.1          | 198       | 246                    | 82   | 21.7            |
| <b>Water Heater Used</b>                                  |                      |               |           |                        |  |                 |
| For One Housing Unit .....                                | 1.1                  | 16.1          | 177       | 181                    | 61   | 16.9            |
| For Two or More Units .....                               | Q                    | Q             | Q         | Q                      | Q  | NF              |
| <b>Age of Water Heater</b>                                |                      |               |           |                        |  |                 |
| Less than 5 Years .....                                   | .3                   | 18.3          | 200       | 168                    | 55   | 30.2            |
| 5 to 9 Years .....  | Q                    | 11.8          | 129       | 136                    | Q  | 28.1            |
| 10 to 19 Years .....                                      | .3                   | 20.7          | 227       | 253                    | 81   | 31.5            |
| 20 Years or More .....                                    | Q                    | Q             | Q         | Q                      | Q  | NF              |
| Don't Know .....  | NC                   | NC            | NC        | NC                     | NC   | NC              |
| <b>Size of Water Heater</b>                               |                      |               |           |                        |  |                 |
| 30 gallons or less .....                                  | .3                   | 18.6          | 204       | 210                    | 99   | 38.0            |
| 31 to 49 gallons .....                                    | .5                   | 16.2          | 178       | 201                    | 58   | 25.2            |
| 50 gallons or more .....                                  | Q                    | Q             | Q         | Q                      | Q  | NF              |
| Don't Know .....  | Q                    | Q             | Q         | Q                      | Q  | NF              |
| <b>Location of Water Heater</b>                           |                      |               |           |                        |  |                 |
| Heated Area .....   | .8                   | 15.8          | 173       | 178                    | 60   | 24.0            |
| Unheated Area .....                                       | .2                   | 20.3          | 223       | 224                    | 76   | 29.7            |
| <b>Clothes Washer Present in Household</b>                |                      |               |           |                        |  |                 |
| Yes .....   | .9                   | 19.0          | 208       | 217                    | 66   | 22.4            |
| No .....  | .3                   | 9.6           | 105       | 116                    | 53   | 17.5            |
| <b>Dishwasher Present in Household</b>                    |                      |               |           |                        |  |                 |
| Yes .....   | .4                   | 18.7          | 205       | 193                    | 61   | 35.6            |
| No .....  | .8                   | 16.1          | 177       | 195                    | 66   | 19.6            |
| <b>Children Present in Household</b>                      |                      |               |           |                        |  |                 |
| No .....  | .7                   | 14.6          | 159       | 181                    | 99   | 23.0            |
| Yes .....   | .5                   | 20.2          | 222       | 213                    | 48   | 22.9            |
| <b>(more than one may apply)</b>                          |                      |               |           |                        |  |                 |
| Under 13 Years .....                                      | .4                   | 19.5          | 213       | 204                    | 43   | 19.7            |
| 13 to 18 Years .....                                      | Q                    | Q             | Q         | Q                      | Q  | NF              |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the South Atlantic, East South Central and West South Central Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

APPLIANCE CONSUMPTION/EXPENDITURES

Table 81. Total Consumption and Expenditures for Appliances in South Region Households, 1990

| Characteristics   | Electricity                  |                        |                        |  | Natural Gas                  |                        |                                  |  | Liquefied Petroleum Gas      |                        |                                 |  | RSE<br>RCM<br>Factors |
|---|------------------------------|------------------------|------------------------|--|------------------------------|------------------------|----------------------------------|--|------------------------------|------------------------|---------------------------------|--|-----------------------|
|   | House-<br>holds<br>(million) | Consumed               |                        | Ex-<br>pend-<br>itures<br>(bil-<br>lion<br>dol-<br>lars) | House-<br>holds<br>(million) | Consumed               |                                  | Ex-<br>pend-<br>itures<br>(bil-<br>lion<br>dol-<br>lars) | House-<br>holds<br>(million) | Consumed               |                                 | Ex-<br>pend-<br>itures<br>(bil-<br>lion<br>dol-<br>lars) |                       |
|   |                              | (tri-<br>llion<br>Btu) | (bil-<br>llion<br>kWh) |  |                              | (tri-<br>llion<br>Btu) | (bil-<br>llion<br>cubic<br>feet) |  |                              | (tri-<br>llion<br>Btu) | (bil-<br>llion<br>gal-<br>lons) |  |                       |
| RSE Column Factors:   | 0.4                          | NF                     | NF                     | NF   | 0.9                          | NF                     | NF                               | NF   | 1.7                          | NF                     | NF                              | NF   |                       |
| South Region  |                              |                        |                        |  |                              |                        |                                  |  |                              |                        |                                 |  |                       |
| <b>Total Region</b> .....   | 32.3                         | 532.0                  | 155.9                  | 11.38  | 10.1                         | 81.5                   | 79                               | 0.48   | 2.4                          | 12.9                   | 0.14                            | 0.18   | 10.0                  |
| <b>Climate Zone<sup>1</sup></b>                                       |                              |                        |                        |  |                              |                        |                                  |  |                              |                        |                                 |  |                       |
| Under 2,000 CDD and<br>Over 5,500 HDD .....                           | Q                            | Q                      | Q                      | Q  | NC                           | NC                     | NC                               | NC   | NC                           | NC                     | NC                              | NC   | NF                    |
| Under 5,500 HDD<br>and 2,000 CDD or More and<br>Under 4,000 HDD ..... | 17.6                         | 292.0                  | 85.6                   | 6.01   | 4.7                          | 34.0                   | 33                               | .20  | 1.4                          | 7.6                    | .08                             | .12  | 16.2                  |
| <b>Type of Housing Unit</b>   | 14.7                         | 239.5                  | 70.2                   | 5.35   | 5.4                          | 47.5                   | 46                               | .27  | 1.0                          | 5.3                    | .06                             | .07  | 17.4                  |
| Single-Family .....   | 23.7                         | 449.7                  | 131.8                  | 9.61   | 8.2                          | 70.0                   | 68                               | .41  | 1.7                          | 9.0                    | .10                             | .12  | 12.2                  |
| Mobile Home .....   | 1.9                          | 24.5                   | 7.2                    | .51  | .3                           | 2.0                    | 2                                | .01  | .7                           | 3.4                    | .04                             | .06  | 28.3                  |
| Multifamily (2 or more units) ..                                      | 6.7                          | 57.7                   | 16.9                   | 1.26   | 1.6                          | 9.5                    | 9                                | .06  | Q                            | Q                      | Q                               | Q  | 20.0                  |
| <b>Heated Floorspace<br/>(square feet)</b>                            |                              |                        |                        |  |                              |                        |                                  |  |                              |                        |                                 |  |                       |
| Fewer than 1,000 .....  | 10.9                         | 110.1                  | 32.3                   | 2.39   | 2.9                          | 18.1                   | 18                               | .12  | 1.2                          | 6.3                    | .07                             | .10  | 13.1                  |
| 1,000 to 1,999 .....  | 14.8                         | 261.3                  | 76.6                   | 5.64   | 4.9                          | 36.2                   | 35                               | .21  | 1.0                          | 5.7                    | .06                             | .07  | 12.0                  |
| 2,000 or More .....   | 6.6                          | 160.6                  | 47.1                   | 3.35   | 2.2                          | 27.1                   | 26                               | .14  | .3                           | 1.0                    | .01                             | .01  | 23.2                  |
| <b>Ownership of Unit</b>  |                              |                        |                        |  |                              |                        |                                  |  |                              |                        |                                 |  |                       |
| Owned .....   | 21.6                         | 412.6                  | 120.9                  | 8.78   | 7.1                          | 62.0                   | 60                               | .36  | 1.8                          | 9.0                    | .10                             | .13  | 12.5                  |
| Rented .....  | 10.7                         | 119.4                  | 35.0                   | 2.59   | 3.1                          | 19.5                   | 19                               | .12  | .6                           | 4.0                    | .04                             | .06  | 14.7                  |
| <b>Year of Construction</b>   |                              |                        |                        |  |                              |                        |                                  |  |                              |                        |                                 |  |                       |
| 1949 or Before .....  | 6.0                          | 87.0                   | 25.5                   | 1.89   | 2.6                          | 17.9                   | 17                               | .11  | .6                           | 4.0                    | .04                             | .06  | 19.4                  |
| 1950 to 1979 .....  | 18.8                         | 328.3                  | 96.2                   | 6.99   | 6.6                          | 57.1                   | 56                               | .33  | 1.2                          | 6.2                    | .07                             | .09  | 11.8                  |
| 1980 or After <sup>2</sup> .....                                      | 7.4                          | 116.6                  | 34.2                   | 2.50   | 1.0                          | 6.5                    | 6                                | .04  | .6                           | 2.8                    | .03                             | .04  | 24.5                  |
| <b>1990 Family Income</b>   |                              |                        |                        |  |                              |                        |                                  |  |                              |                        |                                 |  |                       |
| Less than \$10,000 .....  | 6.4                          | 73.0                   | 21.4                   | 1.59   | 2.1                          | 14.2                   | 14                               | .08  | .8                           | 4.2                    | .05                             | .07  | 16.7                  |
| \$10,000 to \$19,999 .....  | 7.0                          | 96.4                   | 28.3                   | 2.06   | 1.9                          | 13.0                   | 13                               | .09  | .7                           | 4.8                    | .05                             | .06  | 14.5                  |
| \$20,000 to \$34,999 .....  | 8.3                          | 128.6                  | 37.7                   | 2.75   | 2.6                          | 17.0                   | 16                               | .10  | .4                           | 2.2                    | .02                             | .03  | 12.7                  |
| \$35,000 or More .....  | 10.6                         | 233.9                  | 68.6                   | 4.97   | 3.5                          | 37.3                   | 36                               | .21  | .4                           | 1.8                    | .02                             | .03  | 17.2                  |
| <b>Below Poverty Line</b>   |                              |                        |                        |  |                              |                        |                                  |  |                              |                        |                                 |  |                       |
| 100 Percent .....   | 5.5                          | 69.2                   | 20.3                   | 1.52   | 1.9                          | 14.0                   | 14                               | .08  | .8                           | 4.9                    | .05                             | .07  | 16.6                  |
| 125 Percent .....   | 7.5                          | 98.7                   | 28.9                   | 2.14   | 2.3                          | 17.3                   | 17                               | .10  | 1.0                          | 6.3                    | .07                             | .09  | 14.8                  |
| <b>Age of Householder</b>   |                              |                        |                        |  |                              |                        |                                  |  |                              |                        |                                 |  |                       |
| Under 35 Years .....  | 9.2                          | 129.9                  | 38.1                   | 2.80   | 2.5                          | 16.1                   | 16                               | .09  | .6                           | 3.9                    | .04                             | .06  | 11.3                  |
| 35 to 59 Years .....  | 14.1                         | 275.0                  | 80.6                   | 5.85   | 4.5                          | 43.6                   | 42                               | .24  | .9                           | 4.5                    | .05                             | .06  | 13.6                  |
| 60 Years and Over .....   | 9.1                          | 127.1                  | 37.3                   | 2.73   | 3.1                          | 21.8                   | 21                               | .14  | .9                           | 4.6                    | .05                             | .06  | 14.7                  |
| <b>Household Size</b>   |                              |                        |                        |  |                              |                        |                                  |  |                              |                        |                                 |  |                       |
| 1 Person .....  | 7.8                          | 70.1                   | 20.5                   | 1.55   | 2.2                          | 9.2                    | 9                                | .06  | .6                           | 2.2                    | .02                             | .03  | 13.6                  |
| 2 to 4 Persons .....  | 21.0                         | 378.4                  | 110.9                  | 8.05   | 6.4                          | 57.9                   | 56                               | .34  | 1.4                          | 7.0                    | .08                             | .10  | 9.9                   |
| 5 or More Persons .....   | 3.5                          | 83.5                   | 24.5                   | 1.77   | 1.5                          | 14.3                   | 14                               | .08  | .4                           | 3.7                    | .04                             | .05  | 16.6                  |

See footnotes at end of table.

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Table 81. Total Consumption and Expenditures for Appliances in South Region Households, 1990 (Continued)

| Characteristics                        | Electricity          |                |               |                                | Natural Gas          |                |                      |                                | Liquefied Petroleum Gas |                |                   |                                | RSE Row Factors |
|--|----------------------|----------------|---------------|--------------------------------|----------------------|----------------|----------------------|--------------------------------|-------------------------|----------------|-------------------|--------------------------------|-----------------|
|  | Households (million) | Consumed       |               | Expenditures (billion dollars) | Households (million) | Consumed       |                      | Expenditures (billion dollars) | Households (million)    | Consumed       |                   | Expenditures (billion dollars) |                 |
|  |                      | (trillion Btu) | (billion kWh) |                                |                      | (trillion Btu) | (billion cubic feet) |                                |                         | (trillion Btu) | (billion gallons) |                                |                 |
|  |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 0.4                                    | NF                   | NF             | NF            | 0.9                            | NF                   | NF             | NF                   | 1.7                            | NF                      | NF             | NF                |                                |                 |
| RSE Column Factors:                    | 16.6                 | 260.1          | 76.2          | 5.87                           | 3.8                  | 27.6           | 27                   | 0.20                           | 1.4                     | 8.5            | 0.09              | 0.13                           | 11.7            |
| <b>South Atlantic Division</b> .....   |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| <b>Climate Zone<sup>1</sup></b>        |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Under 2,000 HDD and                    | Q                    | Q              | Q             | Q                              | NC                   | NC             | NC                   | NC                             | NC                      | NC             | NC                | NC                             | NF              |
| Over 5,500 HDD                         | 11.1                 | 177.5          | 52.0          | 3.91                           | 3.2                  | 23.8           | 23                   | .16                            | .7                      | Q              | Q                 | Q                              | 12.8            |
| Under 5,500 HDD                        |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 2,000 HDD or More and                  | 5.4                  | 82.1           | 24.1          | 1.94                           | Q                    | Q              | Q                    | Q                              | .7                      | 3.9            | .04               | .05                            | 16.0            |
| Under 4,000 HDD                        |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| <b>Type of Housing Unit</b>            |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Single-Family                          | 11.7                 | 214.3          | 62.8          | 4.83                           | 2.9                  | 22.6           | 22                   | .16                            | .9                      | 5.1            | .06               | .07                            | 15.3            |
| Mobile Home                            | 1.1                  | 13.7           | 4.0           | .30                            | Q                    | Q              | Q                    | Q                              | .5                      | 2.8            | .03               | .05                            | 36.0            |
| Multifamily (2 or more units)          | 3.8                  | 32.0           | 9.4           | .74                            | .8                   | 4.3            | 4                    | .03                            | Q                       | Q              | Q                 | Q                              | 23.4            |
| <b>Heated Floorspace (square feet)</b> |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Fewer than 1,000                       | 5.9                  | 58.6           | 17.2          | 1.33                           | 1.1                  | 6.9            | 7                    | .06                            | .8                      | 4.5            | .05               | .08                            | 18.1            |
| 1,000 to 1,999                         | 7.0                  | 116.3          | 34.1          | 2.63                           | 1.6                  | 11.3           | 11                   | .08                            | .5                      | 3.3            | .04               | .05                            | 19.8            |
| 2,000 or More                          | 3.6                  | 85.2           | 25.0          | 1.90                           | 1.1                  | 9.4            | 9                    | .06                            | Q                       | Q              | Q                 | Q                              | 24.6            |
| <b>Ownership of Unit</b>               |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Owned                                  | 10.8                 | 197.9          | 58.0          | 4.46                           | 2.5                  | 20.0           | 19                   | .14                            | 1.0                     | 5.2            | .06               | .08                            | 15.1            |
| Rented                                 | 5.8                  | 62.2           | 18.2          | 1.41                           | 1.3                  | 7.6            | 7                    | .05                            | .5                      | 3.3            | .04               | .05                            | 17.9            |
| <b>Year of Construction</b>            |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 1949 or Before                         | 3.0                  | 43.9           | 12.9          | .99                            | 1.1                  | 7.7            | 7                    | .05                            | .5                      | Q              | Q                 | Q                              | 26.7            |
| 1950 to 1979                           | 8.9                  | 151.6          | 44.4          | 3.40                           | 2.5                  | 16.9           | 16                   | .12                            | .7                      | 3.6            | .04               | .06                            | 14.0            |
| 1980 or After <sup>2</sup>             | 4.6                  | 64.5           | 18.9          | 1.48                           | Q                    | Q              | Q                    | Q                              | Q                       | Q              | Q                 | Q                              | 29.2            |
| <b>1990 Family Income</b>              |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Less than \$10,000                     | 2.7                  | 28.9           | 8.5           | .66                            | .3                   | 2.1            | 2                    | .01                            | .5                      | 3.1            | .03               | .05                            | 27.3            |
| \$10,000 to \$19,999                   | 3.6                  | 46.4           | 13.6          | 1.03                           | .7                   | 4.2            | 4                    | .04                            | .3                      | 2.7            | .03               | .04                            | 20.7            |
| \$20,000 to \$34,999                   | 4.3                  | 63.0           | 18.5          | 1.42                           | 1.0                  | 6.4            | 6                    | .04                            | Q                       | Q              | Q                 | Q                              | 15.8            |
| \$35,000 or More                       | 6.0                  | 121.8          | 35.7          | 2.76                           | 1.7                  | 14.8           | 14                   | .10                            | .3                      | Q              | Q                 | Q                              | 16.9            |
| <b>Below Poverty Line</b>              |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 100 Percent                            | 2.0                  | 25.1           | 7.4           | .58                            | .2                   | 1.7            | 2                    | .01                            | .4                      | 3.3            | .04               | .05                            | 32.0            |
| 125 Percent                            | 3.0                  | 39.5           | 11.6          | .90                            | .4                   | 2.9            | 3                    | .02                            | .6                      | 4.1            | .05               | .06                            | 23.2            |
| <b>Age of Householder</b>              |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Under 35 Years                         | 4.9                  | 62.8           | 18.4          | 1.44                           | 1.0                  | 6.1            | 6                    | .04                            | .4                      | 2.9            | .03               | .05                            | 16.1            |
| 35 to 59 Years                         | 7.4                  | 141.2          | 41.4          | 3.16                           | 1.8                  | 15.1           | 15                   | .10                            | .5                      | 2.7            | .03               | .04                            | 17.5            |
| 60 Years and Over                      | 4.3                  | 56.1           | 16.4          | 1.27                           | .9                   | 6.4            | 6                    | .05                            | .5                      | 2.8            | .03               | .04                            | 23.4            |
| <b>Household Size</b>                  |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 1 Person                               | 4.2                  | 35.0           | 10.3          | .81                            | .8                   | 3.4            | 3                    | .03                            | .3                      | Q              | Q                 | Q                              | 19.9            |
| 2 to 4 Persons                         | 10.9                 | 191.1          | 56.0          | 4.31                           | 2.5                  | 20.0           | 19                   | .14                            | .9                      | 4.8            | .05               | .08                            | 11.9            |
| 5 or More Persons                      | 1.5                  | 34.0           | 10.0          | .75                            | .5                   | 4.2            | 4                    | .03                            | Q                       | Q              | Q                 | Q                              | 25.2            |

See footnotes at end of table.

**Table 81. Total Consumption and Expenditures for Appliances in South Region Households, 1990 (Continued)**

| Characteristics                        | Electricity    |               |                                |                      | Natural Gas    |                      |                                |                      | Liquefied Petroleum Gas |                   |                                |      | RSE Row Factors |
|--|----------------|---------------|--------------------------------|----------------------|----------------|----------------------|--------------------------------|----------------------|-------------------------|-------------------|--------------------------------|------|-----------------|
|  | Consumed       |               | Expenditures (billion dollars) | Households (million) | Consumed       |                      | Expenditures (billion dollars) | Households (million) | Consumed                |                   | Expenditures (billion dollars) |      |                 |
|  | (trillion Btu) | (billion kWh) |                                |                      | (trillion Btu) | (billion cubic feet) |                                |                      | (trillion Btu)          | (billion gallons) |                                |      |                 |
| RSE Column Factors:                    | 0.4            | NF            | NF                             | 0.9                  | NF             | NF                   | 1.7                            | NF                   | NF                      | NF                | NF                             |      |                 |
| <b>East South Central Division</b>     | 6.4            | 108.3         | 31.8                           | 1.89                 | 1.6            | 10.8                 | 10                             | 0.05                 | 0.5                     | 2.4               | 0.03                           | 0.03 | 20.1            |
| <b>Climate Zone<sup>1</sup></b>        |                |               |                                |                      |                |                      |                                |                      |                         |                   |                                |      |                 |
| Under 2,000 CDD and Over 5,500 HDD     | NC             | NC            | NC                             | NC                   | NC             | NC                   | NC                             | NC                   | NC                      | NC                | NC                             | NC   | NC              |
| Under 5,500 HDD                        | 5.1            | 90.4          | 26.5                           | 1.57                 | Q              | Q                    | Q                              | Q                    | NC                      | NC                | NC                             | NC   | 29.3            |
| 2,000 CDD or More and Under 4,000 HDD  | Q              | Q             | Q                              | Q                    | Q              | Q                    | Q                              | Q                    | NC                      | NC                | NC                             | NC   | NF              |
| <b>Type of Housing Unit</b>            |                |               |                                |                      |                |                      |                                |                      |                         |                   |                                |      |                 |
| Single-Family                          | 4.7            | 90.8          | 26.6                           | 1.58                 | 1.1            | 7.7                  | 7                              | .04                  | .4                      | 2.0               | .02                            | .08  | 27.3            |
| Mobile Home                            | 5              | 7.0           | 2.1                            | .13                  | Q              | Q                    | Q                              | Q                    | Q                       | Q                 | Q                              | Q    | 47.3            |
| Multifamily (2 or more units)          | 1.3            | 10.5          | 3.1                            | .18                  | .4             | 2.6                  | 3                              | .01                  | NC                      | NC                | NC                             | NC   | 44.9            |
| <b>Heated Floorspace (square feet)</b> |                |               |                                |                      |                |                      |                                |                      |                         |                   |                                |      |                 |
| Fewer than 1,000                       | 2.4            | 26.1          | 7.6                            | .46                  | .6             | 3.5                  | 3                              | .02                  | .2                      | .9                | .01                            | .01  | 23.1            |
| 1,000 to 1,999                         | 2.5            | 45.0          | 13.2                           | .79                  | .5             | 3.8                  | 4                              | .02                  | .2                      | 1.4               | .02                            | Q    | 25.3            |
| 2,000 or More                          | 1.6            | 37.2          | 10.9                           | .64                  | Q              | Q                    | Q                              | Q                    | Q                       | Q                 | Q                              | Q    | 76.6            |
| <b>Ownership of Unit</b>               |                |               |                                |                      |                |                      |                                |                      |                         |                   |                                |      |                 |
| Owned                                  | 4.4            | 85.3          | 25.0                           | 1.49                 | 1.1            | 7.1                  | 7                              | .03                  | .4                      | 2.2               | .02                            | .03  | 27.2            |
| Rented                                 | 2.0            | 23.0          | 6.7                            | .40                  | .5             | 3.7                  | 4                              | .02                  | Q                       | Q                 | Q                              | Q    | 29.2            |
| <b>Year of Construction</b>            |                |               |                                |                      |                |                      |                                |                      |                         |                   |                                |      |                 |
| 1949 or Before                         | 1.4            | 19.0          | 5.6                            | .34                  | .3             | 2.6                  | 3                              | .01                  | Q                       | Q                 | Q                              | Q    | 38.7            |
| 1950 to 1979                           | 3.7            | 61.7          | 18.1                           | 1.07                 | .9             | 6.4                  | 6                              | .03                  | .3                      | 1.7               | .02                            | Q    | 23.7            |
| 1980 or After <sup>2</sup>             | 1.3            | 27.6          | 8.1                            | .48                  | Q              | Q                    | Q                              | .01                  | Q                       | Q                 | Q                              | Q    | 64.2            |
| <b>1990 Family Income</b>              |                |               |                                |                      |                |                      |                                |                      |                         |                   |                                |      |                 |
| Less than \$10,000                     | 1.6            | 19.5          | 5.7                            | .35                  | .3             | 2.7                  | 3                              | .01                  | .2                      | .8                | .01                            | .01  | 22.0            |
| \$10,000 to \$19,999                   | 1.5            | 19.8          | 5.8                            | .34                  | .3             | 1.9                  | 2                              | .01                  | Q                       | Q                 | Q                              | Q    | 27.2            |
| \$20,000 to \$34,999                   | 1.6            | 26.9          | 7.9                            | .48                  | .4             | 2.4                  | 2                              | .01                  | Q                       | Q                 | Q                              | Q    | 21.3            |
| \$35,000 or More                       | 1.8            | 42.1          | 12.3                           | .72                  | .6             | 3.8                  | 4                              | .02                  | Q                       | Q                 | Q                              | Q    | 43.2            |
| <b>Below Poverty Line</b>              |                |               |                                |                      |                |                      |                                |                      |                         |                   |                                |      |                 |
| 100 Percent                            | 1.3            | 17.2          | 5.0                            | .30                  | .3             | 2.4                  | 2                              | .01                  | .2                      | .8                | .01                            | .01  | 21.6            |
| 125 Percent                            | 1.8            | 23.3          | 6.8                            | .41                  | .3             | 3.0                  | 3                              | .01                  | .3                      | 1.3               | .01                            | .02  | 29.0            |
| <b>Age of Householder</b>              |                |               |                                |                      |                |                      |                                |                      |                         |                   |                                |      |                 |
| Under 35 Years                         | 1.7            | 26.4          | 7.7                            | .46                  | .5             | 2.4                  | 2                              | .01                  | Q                       | Q                 | Q                              | Q    | 18.6            |
| 35 to 59 Years                         | 2.9            | 56.7          | 16.6                           | .98                  | .8             | 4.9                  | 5                              | .02                  | .2                      | 1.3               | .01                            | .02  | 22.7            |
| 60 Years and Over                      | 1.9            | 25.2          | 7.4                            | .45                  | .4             | 3.6                  | 3                              | .02                  | .2                      | .9                | .01                            | .01  | 25.0            |
| <b>Household Size</b>                  |                |               |                                |                      |                |                      |                                |                      |                         |                   |                                |      |                 |
| 1 Person                               | 1.6            | 14.0          | 4.1                            | .25                  | .4             | 1.9                  | 2                              | .01                  | Q                       | Q                 | Q                              | Q    | 24.0            |
| 2 to 4 Persons                         | 4.3            | 81.2          | 23.8                           | 1.41                 | 1.0            | 6.4                  | 6                              | .03                  | Q                       | 1.0               | .01                            | Q    | 19.1            |
| 5 or More Persons                      | .5             | 13.1          | 3.8                            | .23                  | .2             | 2.5                  | 2                              | .01                  | Q                       | Q                 | Q                              | Q    | 43.4            |

See footnotes at end of table.

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**APPLIANCE CONSUMPTION/EXPENDITURES**



Table 81. Total Consumption and Expenditures for Appliances in South Region Households, 1990 (Continued)

| Characteristics                       | Electricity          |                |               |                                | Natural Gas          |                |                      |                                | Liquefied Petroleum Gas |                |                   |                                | RSE Row Factors |
|---------------------------------------|----------------------|----------------|---------------|--------------------------------|----------------------|----------------|----------------------|--------------------------------|-------------------------|----------------|-------------------|--------------------------------|-----------------|
|                                       | Households (million) | Consumed       |               | Expenditures (billion dollars) | Households (million) | Consumed       |                      | Expenditures (billion dollars) | Households (million)    | Consumed       |                   | Expenditures (billion dollars) |                 |
|                                       |                      | (trillion Btu) | (billion kWh) |                                |                      | (trillion Btu) | (billion cubic feet) |                                |                         | (trillion Btu) | (billion gallons) |                                |                 |
|                                       |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| RSE Column Factors:                   | 0.4                  | NF             | NF            | NF                             | 0.9                  | NF             | NF                   | NF                             | 1.7                     | NF             | NF                | NF                             |                 |
| West South Central Division           | 9.3                  | 163.5          | 47.9          | 3.62                           | 4.7                  | 43.1           | 42                   | 0.23                           | 0.5                     | Q              | Q                 | 0.02                           | 16.3            |
| Climate Zone <sup>1</sup>             |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Under 2,000 CDD and Over 5,500 HDD    | NC                   | NC             | NC            | NC                             | NC                   | NC             | NC                   | NC                             | NC                      | NC             | NC                | NC                             | NC              |
| Under 5,500 HDD                       | 1.3                  | 24.1           | 7.0           | .53                            | Q                    | Q              | Q                    | Q                              | Q                       | Q              | Q                 | Q                              | 73.0            |
| 2,000 CDD or More and Under 4,000 HDD | 8.0                  | 139.5          | 40.9          | 3.09                           | 4.2                  | 38.8           | 38                   | .21                            | Q                       | Q              | Q                 | Q                              | 20.9            |
| Type of Housing Unit                  |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Single-Family                         | 7.3                  | 144.6          | 42.4          | 3.19                           | 4.2                  | 39.6           | 39                   | .21                            | Q                       | Q              | Q                 | Q                              | 18.2            |
| Mobile Home                           | .3                   | Q              | Q             | .09                            | Q                    | Q              | Q                    | Q                              | Q                       | Q              | Q                 | Q                              | 86.4            |
| Multifamily (2 or more units)         | 1.6                  | 15.1           | 4.4           | .34                            | .4                   | 2.6            | 2                    | .02                            | NC                      | NC             | NC                | NC                             | 44.1            |
| Heated Floorspace (square feet)       |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Less than 1,000                       | 2.6                  | 25.4           | 7.5           | .59                            | 1.2                  | 7.7            | 7                    | .05                            | Q                       | Q              | Q                 | Q                              | 24.4            |
| 1,000 to 1,999                        | 5.2                  | 100.0          | 29.3          | 2.22                           | 2.8                  | 21.2           | 21                   | .12                            | Q                       | Q              | Q                 | Q                              | 13.1            |
| 2,000 or More                         | 1.5                  | 38.2           | 11.2          | .81                            | .7                   | Q              | Q                    | Q                              | Q                       | Q              | Q                 | Q                              | 37.9            |
| Ownership of Unit                     |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Owned                                 | 6.3                  | 129.3          | 37.9          | 2.84                           | 3.5                  | 35.0           | 34                   | .18                            | Q <sup>4</sup>          | 1.6            | 0.02              | .02                            | 24.3            |
| Rented                                | 3.0                  | 34.3           | 10.0          | .78                            | 1.2                  | 8.2            | 8                    | .05                            | Q                       | Q              | Q                 | Q                              | 24.0            |
| Year of Construction                  |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 1949 or Before                        | 1.6                  | 24.1           | 7.1           | .55                            | 1.2                  | 7.5            | 7                    | .04                            | Q                       | Q              | Q                 | Q                              | 25.2            |
| 1950 to 1979                          | 6.2                  | 115.0          | 33.7          | 2.53                           | 3.2                  | 33.8           | 33                   | .17                            | Q                       | Q              | Q                 | Q                              | 17.9            |
| 1980 or After <sup>2</sup>            | 1.5                  | 24.5           | 7.2           | .54                            | .3                   | 1.7            | 2                    | .01                            | Q                       | Q              | Q                 | Q                              | 35.7            |
| 1990 Family Income                    |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Less than \$10,000                    | 2.1                  | 24.6           | 7.2           | .58                            | 1.4                  | 9.4            | 9                    | .06                            | Q                       | Q              | Q                 | Q                              | 27.8            |
| \$10,000 to \$19,999                  | 1.9                  | 30.2           | 8.9           | .69                            | .9                   | 6.8            | 7                    | .04                            | Q                       | Q              | Q                 | Q                              | 21.2            |
| \$20,000 to \$34,999                  | 2.4                  | 38.8           | 11.4          | .86                            | 1.2                  | 8.2            | 8                    | .04                            | Q                       | Q              | Q                 | Q                              | 20.4            |
| \$35,000 or More                      | 2.9                  | 70.0           | 20.5          | 1.49                           | 1.2                  | 18.8           | 18                   | .09                            | Q                       | Q              | Q                 | Q                              | 32.5            |
| Below Poverty Line                    |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 100 Percent                           | 2.2                  | 27.0           | 7.9           | .63                            | 1.4                  | 10.0           | 10                   | .06                            | Q                       | Q              | Q                 | Q                              | 22.2            |
| 125 Percent                           | 2.7                  | 35.9           | 10.5          | .83                            | 1.6                  | 11.4           | 11                   | .07                            | Q                       | Q              | Q                 | Q                              | 24.3            |
| Age of Householder                    |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Under 35 Years                        | 2.7                  | 40.6           | 11.9          | .90                            | 1.0                  | 7.6            | 7                    | .04                            | Q                       | Q              | Q                 | Q                              | 15.9            |
| 35 to 59 Years                        | 3.7                  | 77.1           | 22.6          | 1.71                           | 2.0                  | 23.6           | 23                   | .12                            | Q                       | Q              | Q                 | Q                              | 24.9            |
| 60 Years and Over                     | 2.9                  | 45.9           | 13.4          | 1.01                           | 1.8                  | 11.9           | 12                   | .07                            | Q                       | Q              | Q                 | Q                              | 17.0            |
| Household Size                        |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 1 Person                              | 2.0                  | 21.0           | 6.2           | .49                            | 1.0                  | 3.9            | 4                    | .02                            | Q                       | Q              | Q                 | Q                              | 21.1            |
| 2 to 4 Persons                        | 5.8                  | 106.1          | 31.1          | 2.33                           | 3.0                  | 31.5           | 31                   | .16                            | Q                       | Q              | Q                 | Q                              | 17.0            |
| 5 or More Persons                     | 1.5                  | 36.4           | 10.7          | .80                            | .8                   | 7.7            | 7                    | .04                            | Q                       | Q              | Q                 | Q                              | 22.3            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Appliances do not include refrigerators. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 82. Electricity Consumption and Expenditures for Appliances and Refrigerators, per South Region Household, 1990**

| Characteristics   | Electricity Used for Appliances |               |       |                      | Electricity Used for Refrigerators |               |       |                        | RSE Row Factors |     |
|---|---------------------------------|---------------|-------|----------------------|------------------------------------|---------------|-------|------------------------|-----------------|-----|
|   | Households (million)            | Consumed      |       | Households (million) | Average Number of Refrigerators    | Consumed      |       | Expenditures (dollars) |                 |     |
|   |                                 | (million Btu) | (kWh) |                      |                                    | (million Btu) | (kWh) |                        |                 |     |
| RSE Column Factors:                                     | 1.7                             | NF            | NF    | NF                   | 1.7                                | 0.5           | NF    | NF                     | NF              |     |
| South Region  |                                 |               |       |                      |                                    |               |       |                        |                 |     |
| Total Region .....                                      | 32.3                            | 16.5          | 4,828 | 352                  | 32.2                               | 1.1           | 6.5   | 1,896                  | 140             | 2.6 |
| <b>Climate Zone<sup>1</sup></b>                         |                                 |               |       |                      |                                    |               |       |                        |                 |     |
| Under 2,000 CDD and Over 5,500 HDD .....                | Q                               | Q             | Q     | Q                    | Q                                  | Q             | Q     | Q                      | Q               | NF  |
| Under 5,500 HDD .....                                   | 17.6                            | 16.6          | 4,874 | 342                  | 17.5                               | 1.1           | 5.9   | 1,720                  | 121             | 3.7 |
| 2,000 CDD or More and Under 4,000 HDD .....             | 14.7                            | 16.3          | 4,778 | 364                  | 14.7                               | 1.1           | 7.2   | 2,108                  | 162             | 3.8 |
| <b>Type of Housing Unit</b>                             |                                 |               |       |                      |                                    |               |       |                        |                 |     |
| Single-Family .....                                     | 23.7                            | 18.0          | 5,559 | 405                  | 23.7                               | 1.2           | 7.1   | 2,082                  | 153             | 2.3 |
| Mobile Home .....                                       | 1.9                             | 13.0          | 3,823 | 273                  | 1.9                                | 1.0           | 4.4   | 1,284                  | 95              | 6.6 |
| Multifamily (2 or more units) ..                        | 6.7                             | 8.6           | 2,523 | 188                  | 6.7                                | 1.0           | 4.8   | 1,408                  | 105             | 4.6 |
| <b>Heated Floorspace (square feet)</b>                  |                                 |               |       |                      |                                    |               |       |                        |                 |     |
| Fewer than 1,000 .....                                  | 10.9                            | 10.1          | 2,960 | 219                  | 10.9                               | 1.0           | 5.1   | 1,506                  | 114             | 2.8 |
| 1,000 to 1,999 .....                                    | 14.8                            | 17.7          | 5,187 | 382                  | 14.8                               | 1.1           | 6.5   | 1,920                  | 143             | 2.5 |
| 2,000 or More .....                                     | 6.6                             | 24.2          | 7,102 | 505                  | 6.6                                | 1.3           | 8.5   | 2,484                  | 177             | 5.2 |
| <b>Ownership of Unit</b>                                |                                 |               |       |                      |                                    |               |       |                        |                 |     |
| Owned .....   | 21.6                            | 19.1          | 5,608 | 407                  | 21.5                               | 1.2           | 7.1   | 2,074                  | 152             | 2.8 |
| Rented .....  | 10.7                            | 11.1          | 3,260 | 242                  | 10.7                               | 1.0           | 5.2   | 1,537                  | 115             | 3.3 |
| <b>Year of Construction</b>                             |                                 |               |       |                      |                                    |               |       |                        |                 |     |
| 1949 or Before .....                                    | 6.0                             | 14.4          | 4,227 | 313                  | 6.0                                | 1.1           | 6.4   | 1,868                  | 140             | 4.6 |
| 1950 to 1979 .....                                      | 18.8                            | 17.4          | 5,110 | 371                  | 18.8                               | 1.1           | 6.8   | 1,993                  | 147             | 2.7 |
| 1980 or After <sup>2</sup> .....                        | 7.4                             | 15.7          | 4,600 | 336                  | 7.4                                | 1.1           | 5.7   | 1,671                  | 123             | 6.2 |
| <b>1990 Family Income</b>                               |                                 |               |       |                      |                                    |               |       |                        |                 |     |
| Less than \$10,000 .....                                | 6.4                             | 11.4          | 3,347 | 249                  | 6.3                                | 1.1           | 5.7   | 1,679                  | 127             | 4.1 |
| \$10,000 to \$19,999 .....                              | 7.0                             | 13.7          | 4,022 | 293                  | 7.0                                | 1.1           | 5.7   | 1,674                  | 123             | 3.6 |
| \$20,000 to \$34,999 .....                              | 8.3                             | 15.5          | 4,554 | 333                  | 8.3                                | 1.1           | 6.1   | 1,797                  | 135             | 3.3 |
| \$35,000 or More .....                                  | 10.6                            | 22.1          | 6,470 | 469                  | 10.6                               | 1.2           | 7.7   | 2,249                  | 163             | 4.8 |
| <b>Below Poverty Line</b>                               |                                 |               |       |                      |                                    |               |       |                        |                 |     |
| 100 Percent .....                                       | 5.5                             | 12.5          | 3,662 | 273                  | 5.5                                | 1.1           | 5.6   | 1,630                  | 124             | 4.8 |
| 125 Percent .....                                       | 7.5                             | 13.2          | 3,874 | 287                  | 7.4                                | 1.1           | 5.6   | 1,650                  | 124             | 4.0 |
| <b>Age of Householder</b>                               |                                 |               |       |                      |                                    |               |       |                        |                 |     |
| Under 35 Years .....                                    | 9.2                             | 14.2          | 4,150 | 305                  | 9.2                                | 1.0           | 5.3   | 1,551                  | 116             | 3.6 |
| 35 to 59 Years .....                                    | 14.1                            | 19.6          | 5,732 | 416                  | 14.0                               | 1.2           | 7.1   | 2,071                  | 152             | 3.6 |
| 60 Years and Over .....                                 | 9.1                             | 14.0          | 4,111 | 302                  | 9.0                                | 1.2           | 6.7   | 1,971                  | 146             | 3.4 |
| <b>Household Size</b>                                   |                                 |               |       |                      |                                    |               |       |                        |                 |     |
| 1 Person .....  | 7.8                             | 8.9           | 2,617 | 198                  | 7.8                                | 1.1           | 5.7   | 1,662                  | 127             | 3.6 |
| 2 to 4 Persons .....                                    | 21.0                            | 18.1          | 5,294 | 384                  | 20.9                               | 1.1           | 6.7   | 1,962                  | 144             | 2.3 |
| 5 or More Persons .....                                 | 3.5                             | 23.9          | 6,991 | 507                  | 3.5                                | 1.2           | 6.9   | 2,021                  | 147             | 4.1 |
| <b>Average Electricity Expenditures (cents per kWh)</b> |                                 |               |       |                      |                                    |               |       |                        |                 |     |
| Less than 6 .....                                       | 4.9                             | 19.2          | 5,620 | 313                  | --                                 | --            | --    | --                     | --              | 8.5 |
| 6 to Less than 9 .....                                  | 25.0                            | 16.7          | 4,895 | 370                  | --                                 | --            | --    | --                     | --              | 2.7 |
| 9 or More .....   | 2.4                             | 8.7           | 2,547 | 254                  | --                                 | --            | --    | --                     | --              | 9.4 |

See footnotes at end of table.

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Table 82. Electricity Consumption and Expenditures for Appliances and Refrigerators, per South Region Household, 1990 (Continued)

| Characteristics   | Electricity Used for Appliances |               |       |                        | Electricity Used for Refrigerators |                                 |               |       | RSE Row Factors |                        |
|---|---------------------------------|---------------|-------|------------------------|------------------------------------|---------------------------------|---------------|-------|-----------------|------------------------|
|   | Households (million)            | Consumed      |       | Expenditures (dollars) | Households (million)               | Average Number of Refrigerators | Consumed      |       |                 | Expenditures (dollars) |
|   |                                 | (million Btu) | (kWh) |                        |                                    |                                 | (million Btu) | (kWh) |                 |                        |
| RSE Column Factors:   | 1.7                             | NF            | NF    | NF                     | 1.7                                | 0.5                             | NF            | NF    | NF              |                        |
| South Region  |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| <b>Average Electric Refrigerator Expenditures (cents per kWh)</b> |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Less than 6 .....   | --                              | --            | --    | --                     | 4.8                                | 1.2                             | 7.1           | 2,067 | 116             | 8.7                    |
| 6 to Less than 9 .....  | --                              | --            | --    | --                     | 25.0                               | 1.1                             | 6.6           | 1,924 | 146             | 2.7                    |
| 9 or More .....   | --                              | --            | --    | --                     | 2.4                                | 1.0                             | 4.3           | 1,262 | 127             | 9.4                    |
| <b>Appliances Present in Household (more than one may apply)</b>  |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Separate Freezer .....  | 12.3                            | 22.3          | 6,547 | 472                    | 12.3                               | 1.2                             | 7.2           | 2,108 | 152             | 3.2                    |
| Dishwasher .....  | 15.3                            | 19.4          | 5,698 | 413                    | 15.3                               | 1.2                             | 7.2           | 2,103 | 153             | 3.8                    |
| Clothes Washer .....  | 25.6                            | 18.8          | 5,507 | 401                    | 25.5                               | 1.1                             | 6.8           | 2,002 | 147             | 2.4                    |
| Clothes Dryer .....   | 19.8                            | 19.9          | 5,820 | 421                    | 19.8                               | 1.1                             | 6.9           | 2,013 | 147             | 2.7                    |
| Waterbed Heater .....   | 4.1                             | 20.4          | 5,993 | 424                    | 4.1                                | 1.1                             | 6.0           | 1,772 | 128             | 4.9                    |
| Swimming-Pool Pump .....  | 1.6                             | 32.3          | 9,466 | 689                    | 1.6                                | 1.2                             | 9.0           | 2,628 | 194             | 8.6                    |
| Hot-Tub or Spa Pump .....   | 1.1                             | 27.3          | 7,991 | 562                    | 1.1                                | 1.2                             | 8.8           | 2,571 | 180             | 11.3                   |
| Hot-Tub or Spa Heater .....                                       | .8                              | 26.1          | 7,637 | 535                    | .8                                 | 1.2                             | 7.7           | 2,268 | 159             | 13.9                   |
| Well Pump .....   | 4.9                             | 20.0          | 5,852 | 436                    | 4.9                                | 1.2                             | 6.7           | 1,970 | 149             | 5.0                    |
| <b>Appliance Combinations</b>                                     |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Dishwasher, Clothes Washer, and Clothes Dryer                     | 11.5                            | 21.7          | 6,364 | 459                    | 11.5                               | 1.2                             | 7.5           | 2,195 | 158             | 4.4                    |
| With .....  | 4.7                             | 7.4           | 2,164 | 164                    | 4.7                                | 1.1                             | 5.2           | 1,526 | 117             | 5.6                    |
| Without .....   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Well Pump and Separate Freezer                                    | 2.6                             | 24.0          | 7,043 | 525                    | 2.6                                | 1.2                             | 6.6           | 1,945 | 147             | 7.8                    |
| With .....  | 17.6                            | 12.5          | 3,667 | 271                    | 17.6                               | 1.1                             | 5.9           | 1,734 | 130             | 3.1                    |
| Without .....   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| <b>Main Heating Fuel</b>  |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Natural Gas   | 14.1                            | 17.3          | 5,078 | 371                    | 14.1                               | 1.2                             | 7.0           | 2,058 | 151             | 3.8                    |
| Electricity .....   | 12.3                            | 15.4          | 4,510 | 329                    | 12.3                               | 1.1                             | 6.1           | 1,787 | 132             | 4.1                    |
| Fuel Oil or Kerosene .....  | 2.2                             | 17.2          | 5,029 | 372                    | 2.2                                | 1.1                             | 5.8           | 1,692 | 126             | 5.1                    |
| Wood .....  | 1.2                             | 19.5          | 5,720 | 394                    | 1.2                                | 1.2                             | 5.9           | 1,723 | 119             | 10.4                   |
| LPG .....   | 2.2                             | 15.3          | 4,493 | 337                    | 2.2                                | 1.1                             | 6.1           | 1,776 | 137             | 11.3                   |
| Other .....   | Q                               | Q             | Q     | Q                      | Q                                  | Q                               | Q             | Q     | Q               | NF                     |
| <b>Number of Refrigerators</b>                                    |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1 .....   | 28.4                            | 15.6          | 4,560 | 336                    | 28.4                               | 1.0                             | 5.7           | 1,683 | 126             | 2.0                    |
| 2 or More .....   | 3.8                             | 23.4          | 6,853 | 479                    | 3.8                                | 2.1                             | 11.9          | 3,482 | 246             | 4.8                    |

See footnotes at end of table.

**Table 82. Electricity Consumption and Expenditures for Appliances and Refrigerators, per South Region Household, 1990 (Continued)**

| Characteristics                             | Electricity Used for Appliances |               |       |                        |                      | Electricity Used for Refrigerators |               |       |                        |     | RSE Row Factors |
|---|---------------------------------|---------------|-------|------------------------|----------------------|------------------------------------|---------------|-------|------------------------|-----|-----------------|
|   | Households (million)            | Consumed      |       | Expenditures (dollars) | Households (million) | Average Number of Refrigerators    | Consumed      |       | Expenditures (dollars) |     |                 |
|   |                                 | (million Btu) | (kWh) |                        |                      |                                    | (million Btu) | (kWh) |                        |     |                 |
| RSE Column Factors:                         | 1.7                             | NF            | NF    | NF                     | 1.7                  | 0.5                                | NF            | NF    | NF                     |     |                 |
| South Atlantic Division .....               | 16.6                            | 15.7          | 4,604 | 354                    | 16.6                 | 1.1                                | 6.0           | 1,760 | 137                    | 3.0 |                 |
| <b>Climate Zone<sup>1</sup></b>             |                                 |               |       |                        |                      |                                    |               |       |                        |     |                 |
| Under 2,000 HDD .....                       | Q                               | Q             | Q     | Q                      | Q                    | Q                                  | Q             | Q     | NF                     |     |                 |
| Under 5,500 HDD .....                       | 11.1                            | 15.9          | 4,668 | 351                    | 11.1                 | 1.1                                | 5.6           | 1,641 | 124                    | 4.1 |                 |
| 2,000 CDD or More and Under 4,000 HDD ..... | 5.4                             | 15.3          | 4,482 | 382                    | 5.4                  | 1.1                                | 6.9           | 2,016 | 165                    | 4.4 |                 |
| <b>Type of Housing Unit</b>                 |                                 |               |       |                        |                      |                                    |               |       |                        |     |                 |
| Single-Family .....                         | 11.7                            | 18.3          | 5,366 | 413                    | 11.7                 | 1.2                                | 6.7           | 1,952 | 152                    | 3.4 |                 |
| Mobile Home .....                           | 1.1                             | 12.8          | 3,765 | 279                    | 1.1                  | 1.1                                | 4.1           | 1,214 | 82                     | 8.8 |                 |
| Multifamily (2 or more units) ..            | 3.8                             | 8.5           | 2,480 | 195                    | 3.8                  | 1.0                                | 4.5           | 1,323 | 105                    | 6.8 |                 |
| <b>Heated Floorspace (square feet)</b>      |                                 |               |       |                        |                      |                                    |               |       |                        |     |                 |
| Fewer than 1,000 .....                      | 5.9                             | 9.9           | 2,896 | 225                    | 5.9                  | 1.0                                | 4.8           | 1,416 | 112                    | 3.9 |                 |
| 1,000 to 1,999 .....                        | 7.0                             | 16.5          | 4,844 | 374                    | 7.0                  | 1.1                                | 6.0           | 1,753 | 137                    | 4.6 |                 |
| 2,000 or More .....                         | 3.6                             | 23.7          | 6,955 | 529                    | 3.6                  | 1.2                                | 8.0           | 2,343 | 179                    | 6.5 |                 |
| <b>Ownership of Unit</b>                    |                                 |               |       |                        |                      |                                    |               |       |                        |     |                 |
| Owned .....                                 | 10.8                            | 18.3          | 5,370 | 413                    | 10.8                 | 1.2                                | 6.6           | 1,942 | 151                    | 4.2 |                 |
| Rented .....                                | 5.8                             | 10.8          | 3,166 | 245                    | 5.8                  | 1.0                                | 4.8           | 1,418 | 112                    | 4.4 |                 |
| <b>Year of Construction</b>                 |                                 |               |       |                        |                      |                                    |               |       |                        |     |                 |
| 1949 or Before .....                        | 3.0                             | 14.6          | 4,278 | 330                    | 3.0                  | 1.2                                | 6.0           | 1,763 | 137                    | 6.4 |                 |
| 1950 to 1979 .....                          | 8.9                             | 17.0          | 4,994 | 382                    | 8.9                  | 1.1                                | 6.5           | 1,898 | 148                    | 4.0 |                 |
| 1980 or After <sup>2</sup> .....            | 4.6                             | 13.9          | 4,068 | 318                    | 4.6                  | 1.1                                | 5.1           | 1,494 | 118                    | 6.3 |                 |
| <b>1990 Family Income</b>                   |                                 |               |       |                        |                      |                                    |               |       |                        |     |                 |
| Less than \$10,000 .....                    | 2.7                             | 10.9          | 3,188 | 250                    | 2.7                  | 1.1                                | 5.3           | 1,563 | 123                    | 6.7 |                 |
| \$10,000 to \$19,999 .....                  | 3.6                             | 12.7          | 3,727 | 282                    | 3.6                  | 1.1                                | 5.3           | 1,541 | 118                    | 4.6 |                 |
| \$20,000 to \$34,999 .....                  | 4.3                             | 14.7          | 4,320 | 332                    | 4.3                  | 1.1                                | 5.6           | 1,651 | 131                    | 4.3 |                 |
| \$35,000 or More .....                      | 6.0                             | 20.4          | 5,972 | 461                    | 6.0                  | 1.2                                | 7.0           | 2,060 | 160                    | 7.4 |                 |
| <b>Below Poverty Line</b>                   |                                 |               |       |                        |                      |                                    |               |       |                        |     |                 |
| 100 Percent .....                           | 2.0                             | 12.3          | 3,603 | 286                    | 2.0                  | 1.1                                | 5.1           | 1,491 | 119                    | 9.5 |                 |
| 125 Percent .....                           | 3.0                             | 13.0          | 3,812 | 297                    | 3.0                  | 1.1                                | 5.3           | 1,543 | 121                    | 6.2 |                 |
| <b>Age of Householder</b>                   |                                 |               |       |                        |                      |                                    |               |       |                        |     |                 |
| Under 35 Years .....                        | 4.9                             | 12.9          | 3,733 | 296                    | 4.9                  | 1.0                                | 4.7           | 1,368 | 109                    | 4.1 |                 |
| 35 to 59 Years .....                        | 7.4                             | 19.0          | 5,556 | 424                    | 7.4                  | 1.2                                | 6.7           | 1,977 | 153                    | 5.3 |                 |
| 60 Years and Over .....                     | 4.3                             | 13.2          | 3,863 | 299                    | 4.3                  | 1.1                                | 6.2           | 1,827 | 142                    | 5.6 |                 |
| <b>Household Size</b>                       |                                 |               |       |                        |                      |                                    |               |       |                        |     |                 |
| 1 Person .....                              | 4.2                             | 8.4           | 2,449 | 193                    | 4.2                  | 1.1                                | 5.2           | 1,533 | 122                    | 5.7 |                 |
| 2 to 4 Persons .....                        | 10.9                            | 17.5          | 5,138 | 395                    | 10.9                 | 1.1                                | 6.3           | 1,847 | 144                    | 3.7 |                 |
| 5 or More Persons .....                     | 1.5                             | 23.2          | 6,794 | 513                    | 1.5                  | 1.1                                | 6.0           | 1,767 | 136                    | 6.7 |                 |

See footnotes at end of table.

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Table 82. Electricity Consumption and Expenditures for Appliances and Refrigerators, per South Region Household, 1990 (Continued)

| Characteristics                             | Electricity Used for Appliances |               |       |                        | Electricity Used for Refrigerators |                                 |               |       | RSE Row Factors |                        |
|---|---------------------------------|---------------|-------|------------------------|------------------------------------|---------------------------------|---------------|-------|-----------------|------------------------|
|   | Households (million)            | Consumed      |       | Expenditures (dollars) | Households (million)               | Average Number of Refrigerators | Consumed      |       |                 | Expenditures (dollars) |
|   |                                 | (million Btu) | (kWh) |                        |                                    |                                 | (million Btu) | (kWh) |                 |                        |
| RSE Column Factors:                         | 1.7                             | NF            | NF    | NF                     | 1.7                                | 0.5                             | NF            | NF    | NF              |                        |
| East South Central Division ..              | 6.4                             | 16.8          | 4,937 | 294                    | 6.4                                | 1.2                             | 6.4           | 1,882 | 113             | 5.4                    |
| <b>Climate Zone<sup>1</sup></b>             |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Under 2,000 HDD and Over 5,500 HDD .....    | NC                              | NC            | NC    | NC                     | NC                                 | NC                              | NC            | NC    | NC              | NC                     |
| Under 5,500 HDD .....                       | 5.1                             | 17.6          | 5,168 | 307                    | 5.1                                | 1.2                             | 6.4           | 1,864 | 111             | 7.5                    |
| 2,000 HDD or More and Under 4,000 HDD ..... | Q                               | 13.7          | 4,030 | 242                    | Q                                  | 1.1                             | 6.7           | 1,954 | 118             | 42.3                   |
| <b>Type of Housing Unit</b>                 |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Single-Family .....                         | 4.7                             | 19.5          | 5,702 | 339                    | 4.6                                | 1.2                             | 7.0           | 2,045 | 123             | 5.8                    |
| Mobile Home .....                           | 5                               | 14.4          | 4,226 | 263                    | 5                                  | 1.0                             | 4.6           | 1,358 | 86              | 11.1                   |
| Multifamily (2 or more units) ..            | 1.3                             | 8.2           | 2,417 | 140                    | 1.3                                | 1.0                             | 5.1           | 1,488 | 87              | 8.0                    |
| <b>Heated Floorspace (square feet)</b>      |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Fewer than 1,000 .....                      | 2.4                             | 11.1          | 3,249 | 196                    | 2.3                                | 1.0                             | 5.3           | 1,563 | 94              | 4.2                    |
| 1,000 to 1,999 .....                        | 2.5                             | 18.1          | 5,296 | 318                    | 2.5                                | 1.1                             | 6.4           | 1,867 | 113             | 3.6                    |
| 2,000 or More .....                         | 1.6                             | 23.5          | 6,881 | 402                    | 1.6                                | 1.4                             | 8.1           | 2,388 | 140             | 13.2                   |
| <b>Ownership of Unit</b>                    |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Owned .....                                 | 4.4                             | 19.2          | 5,633 | 335                    | 4.4                                | 1.2                             | 6.8           | 1,986 | 119             | 6.2                    |
| Rented .....                                | 2.0                             | 11.6          | 3,386 | 202                    | 2.0                                | 1.0                             | 5.6           | 1,650 | 99              | 6.6                    |
| <b>Year of Construction</b>                 |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1949 or Before .....                        | 1.4                             | 13.7          | 4,029 | 247                    | 1.4                                | 1.1                             | 5.6           | 1,650 | 103             | 6.3                    |
| 1950 to 1979 .....                          | 3.7                             | 16.6          | 4,867 | 288                    | 3.7                                | 1.1                             | 6.6           | 1,924 | 114             | 4.5                    |
| 1980 or After <sup>2</sup> .....            | 1.3                             | 20.7          | 6,077 | 359                    | 1.3                                | 1.2                             | 6.8           | 2,005 | 118             | 18.7                   |
| <b>1990 Family Income</b>                   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Less than \$10,000 .....                    | 1.6                             | 11.8          | 3,470 | 211                    | 1.6                                | 1.1                             | 5.4           | 1,594 | 99              | 6.4                    |
| \$10,000 to \$19,999 .....                  | 1.5                             | 13.7          | 4,001 | 237                    | 1.5                                | 1.0                             | 5.8           | 1,714 | 102             | 6.0                    |
| \$20,000 to \$34,999 .....                  | 1.6                             | 17.0          | 4,987 | 302                    | 1.6                                | 1.2                             | 5.8           | 1,702 | 103             | 6.5                    |
| \$35,000 or More .....                      | 1.8                             | 24.0          | 7,048 | 412                    | 1.8                                | 1.3                             | 8.4           | 2,449 | 144             | 9.3                    |
| <b>Below Poverty Line</b>                   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 100 Percent .....                           | 1.3                             | 12.9          | 3,783 | 226                    | 1.3                                | 1.1                             | 5.5           | 1,620 | 99              | 7.0                    |
| 125 Percent .....                           | 1.8                             | 13.2          | 3,863 | 233                    | 1.7                                | 1.1                             | 5.6           | 1,632 | 100             | 6.0                    |
| <b>Age of Householder</b>                   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Under 35 Years .....                        | 1.7                             | 15.9          | 4,673 | 279                    | 1.7                                | 1.1                             | 5.6           | 1,641 | 99              | 6.4                    |
| 35 to 59 Years .....                        | 2.9                             | 19.8          | 5,794 | 342                    | 2.9                                | 1.2                             | 7.1           | 2,092 | 124             | 8.5                    |
| 60 Years and Over .....                     | 1.9                             | 13.2          | 3,875 | 235                    | 1.9                                | 1.2                             | 6.1           | 1,776 | 108             | 6.2                    |
| <b>Household Size</b>                       |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1 Person .....                              | 1.6                             | 8.6           | 2,511 | 155                    | 1.6                                | 1.1                             | 5.3           | 1,548 | 96              | 6.9                    |
| 2 to 4 Persons .....                        | 4.3                             | 19.1          | 5,598 | 332                    | 4.2                                | 1.2                             | 6.7           | 1,969 | 117             | 5.5                    |
| 5 or More Persons .....                     | 5                               | 24.2          | 7,091 | 419                    | 5                                  | 1.2                             | 7.5           | 2,208 | 132             | 11.0                   |

See footnotes at end of table.

**Table 82. Electricity Consumption and Expenditures for Appliances and Refrigerators, per South Region Household, 1990 (Continued)**

| Characteristics                       | Electricity Used for Appliances |               |       |                        |                      | Electricity Used for Refrigerators |               |       |                        |      | RSE Row Factors |
|---------------------------------------|---------------------------------|---------------|-------|------------------------|----------------------|------------------------------------|---------------|-------|------------------------|------|-----------------|
|                                       | Households (million)            | Consumed      |       | Expenditures (dollars) | Households (million) | Average Number of Refrigerators    | Consumed      |       | Expenditures (dollars) |      |                 |
|                                       |                                 | (million Btu) | (KWh) |                        |                      |                                    | (million Btu) | (KWh) |                        |      |                 |
| RSE Column Factors:                   | 1.7                             | NE            | NE    | NE                     | 1.7                  | 0.5                                | NE            | NE    | NE                     |      |                 |
| <b>West South Central Division</b>    | 9.3                             | 17.6          | 5,150 | 389                    | 9.3                  | 1.1                                | 7.3           | 2,146 | 163                    | 3.6  |                 |
| <b>Climate Zone<sup>1</sup></b>       |                                 |               |       |                        |                      |                                    |               |       |                        |      |                 |
| Under 2,000 HDD                       | NC                              | NC            | NC    | NC                     | NC                   | NC                                 | NC            | NC    | NC                     | NC   |                 |
| Over 5,500 HDD                        | 1.3                             | 18.7          | 5,480 | 411                    | 1.3                  | 1.1                                | 6.3           | 1,838 | 137                    | 9.7  |                 |
| Under 5,500 HDD                       |                                 |               |       |                        |                      |                                    |               |       |                        |      |                 |
| 2,000 HDD or More                     | 8.0                             | 17.4          | 5,097 | 385                    | 8.0                  | 1.1                                | 7.5           | 2,195 | 168                    | 5.1  |                 |
| Under 4,000 HDD                       |                                 |               |       |                        |                      |                                    |               |       |                        |      |                 |
| <b>Type of Housing Unit</b>           |                                 |               |       |                        |                      |                                    |               |       |                        |      |                 |
| Single-Family                         | 7.3                             | 19.7          | 5,773 | 435                    | 7.3                  | 1.2                                | 7.9           | 2,312 | 175                    | 4.1  |                 |
| Mobile Home                           | .3                              | 11.6          | 3,410 | 266                    | .3                   | 1.0                                | 4.8           | 1,405 | 117                    | 23.3 |                 |
| Multifamily (2 or more units)         | 1.6                             | 9.2           | 2,707 | 208                    | 1.6                  | 1.0                                | 5.3           | 1,545 | 118                    | 7.4  |                 |
| <b>Heated Floorpace (square feet)</b> |                                 |               |       |                        |                      |                                    |               |       |                        |      |                 |
| Fewer than 1,000                      | 2.6                             | 9.7           | 2,844 | 227                    | 2.6                  | 1.0                                | 5.7           | 1,658 | 134                    | 6.7  |                 |
| 1,000 to 1,999                        | 5.2                             | 19.1          | 5,595 | 423                    | 5.2                  | 1.1                                | 7.4           | 2,189 | 165                    | 3.4  |                 |
| 2,000 or More                         | 1.5                             | 26.3          | 7,709 | 559                    | 1.5                  | 1.3                                | 10.0          | 2,937 | 210                    | 9.8  |                 |
| <b>Ownership of Unit</b>              |                                 |               |       |                        |                      |                                    |               |       |                        |      |                 |
| Owned                                 | 6.3                             | 20.5          | 5,999 | 449                    | 6.3                  | 1.2                                | 8.1           | 2,360 | 178                    | 4.6  |                 |
| Rented                                | 3.0                             | 11.5          | 3,358 | 262                    | 3.0                  | 1.0                                | 5.8           | 1,692 | 133                    | 6.3  |                 |
| <b>Year of Construction</b>           |                                 |               |       |                        |                      |                                    |               |       |                        |      |                 |
| 1949 or Before                        | 1.6                             | 14.7          | 4,301 | 338                    | 1.6                  | 1.1                                | 7.7           | 2,244 | 176                    | 9.4  |                 |
| 1950 to 1979                          | 6.2                             | 18.5          | 5,421 | 406                    | 6.2                  | 1.1                                | 7.4           | 2,170 | 165                    | 4.0  |                 |
| 1980 or After <sup>2</sup>            | 1.5                             | 16.9          | 4,950 | 373                    | 1.5                  | 1.1                                | 6.6           | 1,930 | 144                    | 7.7  |                 |
| <b>1990 Family Income</b>             |                                 |               |       |                        |                      |                                    |               |       |                        |      |                 |
| Less than \$10,000                    | 2.1                             | 11.8          | 3,452 | 279                    | 2.1                  | 1.1                                | 6.5           | 1,893 | 155                    | 6.1  |                 |
| \$10,000 to \$19,999                  | 1.9                             | 15.7          | 4,596 | 358                    | 1.9                  | 1.1                                | 6.5           | 1,898 | 147                    | 8.3  |                 |
| \$20,000 to \$34,999                  | 2.4                             | 16.0          | 4,682 | 355                    | 2.4                  | 1.1                                | 7.2           | 2,117 | 162                    | 6.4  |                 |
| \$35,000 or More                      | 2.9                             | 24.4          | 7,154 | 519                    | 2.9                  | 1.2                                | 8.6           | 2,519 | 182                    | 7.5  |                 |
| <b>Below Poverty Line</b>             |                                 |               |       |                        |                      |                                    |               |       |                        |      |                 |
| 100 Percent                           | 2.2                             | 12.4          | 3,643 | 290                    | 2.2                  | 1.1                                | 6.0           | 1,767 | 143                    | 6.7  |                 |
| 125 Percent                           | 2.7                             | 13.5          | 3,951 | 311                    | 2.6                  | 1.1                                | 6.1           | 1,786 | 143                    | 7.2  |                 |
| <b>Age of Householder</b>             |                                 |               |       |                        |                      |                                    |               |       |                        |      |                 |
| Under 35 Years                        | 2.7                             | 15.3          | 4,474 | 337                    | 2.6                  | 1.1                                | 6.2           | 1,832 | 139                    | 7.4  |                 |
| 35 to 59 Years                        | 3.7                             | 20.6          | 6,037 | 457                    | 3.7                  | 1.1                                | 7.6           | 2,242 | 171                    | 5.9  |                 |
| 60 Years and Over                     | 2.9                             | 15.8          | 4,627 | 349                    | 2.9                  | 1.2                                | 7.9           | 2,308 | 176                    | 5.5  |                 |
| <b>Household Size</b>                 |                                 |               |       |                        |                      |                                    |               |       |                        |      |                 |
| 1 Person                              | 2.0                             | 10.4          | 3,053 | 243                    | 2.0                  | 1.1                                | 6.9           | 2,023 | 162                    | 7.1  |                 |
| 2 to 4 Persons                        | 5.8                             | 18.3          | 5,364 | 403                    | 5.8                  | 1.1                                | 7.4           | 2,174 | 163                    | 3.8  |                 |
| 5 or More Persons                     | 1.5                             | 24.4          | 7,149 | 533                    | 1.5                  | 1.2                                | 7.5           | 2,204 | 165                    | 5.3  |                 |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NE = Not applicable.

Notes: \* To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. \* Because of rounding, data may not sum to totals. \* See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Sources: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

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Table 83. Natural Gas and LPG Consumption and Expenditures for Appliances, per South Region Household, 1990

| Characteristics                             | Natural Gas          |               |                   |                      | Liquefied Petroleum Gas |           |                        |                        | RSE Row Factors |
|---|----------------------|---------------|-------------------|----------------------|-------------------------|-----------|------------------------|------------------------|-----------------|
|   | Households (million) | Consumed      |                   | Households (million) | Consumed                |           | Expenditures (dollars) | Expenditures (dollars) |                 |
|   |                      | (million Btu) | (1000 cubic feet) |                      | (million Btu)           | (gallons) |                        |                        |                 |
|   |                      |               |                   |                      |                         |           |                        |                        |                 |
| RSE Column Factors:                         | 1.0                  | NF            | NF                | 1.8                  | NF                      | NF        | NF                     | NF                     |                 |
| South Region                                |                      |               |                   |                      |                         |           |                        |                        |                 |
| <b>Total Region</b> .....                   | 10.1                 | 8.1           | 7.8               | 47                   | 2.4                     | 5.4       | 59                     | 77                     | 11.0            |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |                   |                      |                         |           |                        |                        |                 |
| Under 2,000 HDD and Over 5,500 HDD .....    | NC                   | NC            | NC                | NC                   | NC                      | NC        | NC                     | NC                     | NC              |
| Under 5,500 HDD .....                       | 4.7                  | 7.2           | 7.0               | 43                   | 1.4                     | 5.4       | 60                     | 85                     | 13.6            |
| 2,000 HDD or More and Under 4,000 HDD ..... | 5.4                  | 8.8           | 8.5               | 51                   | 1.0                     | 5.3       | 58                     | 65                     | 17.0            |
| <b>Type of Housing Unit</b>                 |                      |               |                   |                      |                         |           |                        |                        |                 |
| Single-Family .....                         | 8.2                  | 8.5           | 8.3               | 49                   | 1.7                     | 5.4       | 59                     | 73                     | 13.1            |
| Mobile Home .....                           | .3                   | 6.4           | 6.2               | 39                   | .7                      | 5.3       | 58                     | 85                     | 18.1            |
| Multifamily (2 or more units) ..            | 1.6                  | 6.0           | 5.8               | 36                   | Q                       | Q         | Q                      | Q                      | 13.9            |
| <b>Heated Floorspace (square feet)</b>      |                      |               |                   |                      |                         |           |                        |                        |                 |
| Fewer than 1,000 .....                      | 2.9                  | 6.2           | 6.0               | 42                   | 1.2                     | 5.5       | 60                     | 84                     | 11.3            |
| 1,000 to 1,999 .....                        | 4.9                  | 7.3           | 7.1               | 43                   | 1.0                     | 5.7       | 62                     | 74                     | 12.3            |
| 2,000 or More .....                         | 2.2                  | 12.1          | 11.8              | 62                   | .3                      | 3.9       | 42                     | 51                     | 26.1            |
| <b>Ownership of Unit</b>                    |                      |               |                   |                      |                         |           |                        |                        |                 |
| Owned .....                                 | 7.1                  | 8.8           | 8.5               | 51                   | 1.8                     | 5.1       | 56                     | 72                     | 13.2            |
| Rented .....                                | 3.1                  | 6.4           | 6.2               | 38                   | .6                      | 6.2       | 67                     | 89                     | 12.2            |
| <b>Year of Construction</b>                 |                      |               |                   |                      |                         |           |                        |                        |                 |
| 1949 or Before .....                        | 2.6                  | 6.9           | 6.7               | 42                   | .6                      | 6.5       | 71                     | 90                     | 17.3            |
| 1950 to 1979 .....                          | 6.6                  | 8.7           | 8.4               | 50                   | 1.2                     | 5.0       | 55                     | 75                     | 13.2            |
| 1980 or After <sup>2</sup> .....            | 1.0                  | 6.8           | 6.6               | 41                   | .6                      | 5.0       | 55                     | 64                     | 32.9            |
| <b>1990 Family Income</b>                   |                      |               |                   |                      |                         |           |                        |                        |                 |
| Less than \$10,000 .....                    | 2.1                  | 6.8           | 6.6               | 40                   | .8                      | 5.1       | 56                     | 79                     | 14.3            |
| \$10,000 to \$19,999 .....                  | 1.9                  | 6.7           | 6.5               | 46                   | .7                      | 6.5       | 71                     | 85                     | 15.2            |
| \$20,000 to \$34,999 .....                  | 2.6                  | 6.5           | 6.3               | 38                   | .4                      | 5.2       | 57                     | 71                     | 12.3            |
| \$35,000 or More .....                      | 3.5                  | 10.7          | 10.5              | 59                   | .4                      | 4.2       | 46                     | 63                     | 20.5            |
| <b>Below Poverty Line</b>                   |                      |               |                   |                      |                         |           |                        |                        |                 |
| 100 Percent .....                           | 1.9                  | 7.4           | 7.2               | 43                   | .8                      | 6.1       | 66                     | 86                     | 13.1            |
| 125 Percent .....                           | 2.3                  | 7.4           | 7.2               | 44                   | 1.0                     | 6.1       | 67                     | 88                     | 12.4            |
| <b>Age of Householder</b>                   |                      |               |                   |                      |                         |           |                        |                        |                 |
| Under 35 Years .....                        | 2.5                  | 6.5           | 6.3               | 38                   | .6                      | 6.1       | 67                     | 90                     | 10.6            |
| 35 to 59 Years .....                        | 4.5                  | 9.6           | 9.3               | 54                   | .9                      | 5.1       | 56                     | 71                     | 16.7            |
| 60 Years and Over .....                     | 3.1                  | 7.1           | 6.8               | 45                   | .9                      | 5.1       | 56                     | 72                     | 12.9            |
| <b>Household Size</b>                       |                      |               |                   |                      |                         |           |                        |                        |                 |
| 1 Person .....                              | 2.2                  | 4.2           | 4.0               | 26                   | .6                      | 3.7       | 41                     | 51                     | 14.1            |
| 2 to 4 Persons .....                        | 6.4                  | 9.0           | 8.8               | 52                   | 1.4                     | 5.0       | 55                     | 74                     | 11.3            |
| 5 or More Persons .....                     | 1.5                  | 9.7           | 9.4               | 55                   | .4                      | 9.0       | 98                     | 123                    | 12.2            |

See footnotes at end of table.

**Table 83. Natural Gas and LPG Consumption and Expenditures for Appliances, per South Region Household, 1990 (Continued)**

| Characteristics                        | Natural Gas          |               |                   |                        | Liquefied Petroleum Gas |               |           |                        | RSE Row Factors |
|--|----------------------|---------------|-------------------|------------------------|-------------------------|---------------|-----------|------------------------|-----------------|
|  | Households (million) | Consumed      |                   | Expenditures (dollars) | Households (million)    | Consumed      |           | Expenditures (dollars) |                 |
|  |                      | (million Btu) | (1000 cubic feet) |                        |                         | (million Btu) | (gallons) |                        |                 |
| RSE Column Factors:                    | 1.0                  | NF            | NF                | NF                     | 1.8                     | NF            | NF        | NF                     |                 |
| <b>South Atlantic Division</b>         | <b>3.8</b>           | <b>7.3</b>    | <b>7.1</b>        | <b>52</b>              | <b>1.4</b>              | <b>5.9</b>    | <b>64</b> | <b>90</b>              | <b>12.6</b>     |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 2,000 CDD and Over 5,500 HDD     | NC                   | NC            | NC                | NC                     | NC                      | NC            | NC        | NC                     | NC              |
| Under 5,500 HDD and 2,000 CDD or More  | 3.2                  | 7.4           | 7.2               | 49                     | .7                      | 6.2           | 68        | 109                    | 16.5            |
| Under 4,000 HDD                        | Q                    | 6.7           | 6.4               | 69                     | .7                      | 5.5           | 60        | 70                     | 20.6            |
| <b>Type of Housing Unit</b>            |                      |               |                   |                        |                         |               |           |                        |                 |
| Single-Family                          | 2.9                  | 7.9           | 7.6               | 57                     | .9                      | 5.7           | 63        | 83                     | 16.2            |
| Mobile Home                            | Q                    | Q             | Q                 | Q                      | .5                      | 6.2           | 68        | 104                    | 17.3            |
| Multifamily (2 or more units)          | .8                   | 5.5           | 5.3               | 38                     | Q                       | Q             | Q         | Q                      | 14.8            |
| <b>Heated Floorspace (square feet)</b> |                      |               |                   |                        |                         |               |           |                        |                 |
| Fewer than 1,000                       | 1.1                  | 6.0           | 5.8               | 49                     | .8                      | 6.0           | 66        | 101                    | 15.7            |
| 1,000 to 1,999                         | 1.6                  | 7.2           | 6.9               | 50                     | .5                      | 6.8           | 74        | 92                     | 15.8            |
| 2,000 or More                          | 1.1                  | 8.9           | 8.7               | 59                     | Q                       | Q             | Q         | Q                      | 29.4            |
| <b>Ownership of Unit</b>               |                      |               |                   |                        |                         |               |           |                        |                 |
| Owned                                  | 2.5                  | 8.1           | 7.8               | 58                     | 1.0                     | 5.5           | 60        | 84                     | 15.0            |
| Rented                                 | 1.3                  | 5.8           | 5.6               | 41                     | .5                      | 6.7           | 73        | 102                    | 14.2            |
| <b>Year of Construction</b>            |                      |               |                   |                        |                         |               |           |                        |                 |
| 1949 or Before                         | 1.1                  | 7.2           | 7.0               | 49                     | .5                      | 7.1           | 78        | 101                    | 23.0            |
| 1950 to 1979                           | 2.5                  | 6.9           | 6.7               | 51                     | .7                      | 5.0           | 55        | 82                     | 13.2            |
| 1980 or After <sup>2</sup>             | Q                    | Q             | Q                 | Q                      | Q                       | Q             | Q         | Q                      | NF              |
| <b>1990 Family Income</b>              |                      |               |                   |                        |                         |               |           |                        |                 |
| Less than \$10,000                     | .3                   | 6.1           | 5.9               | 40                     | .5                      | 5.9           | 65        | 100                    | 24.7            |
| \$10,000 to \$19,999                   | .7                   | 6.1           | 5.9               | 53                     | .3                      | 8.1           | 89        | 111                    | 19.1            |
| \$20,000 to \$34,999                   | 1.0                  | 6.3           | 6.0               | 43                     | Q                       | Q             | Q         | Q                      | 8.1             |
| \$35,000 or More                       | 1.7                  | 8.6           | 8.4               | 60                     | .3                      | 4.1           | 45        | 65                     | 21.5            |
| <b>Below Poverty Line</b>              |                      |               |                   |                        |                         |               |           |                        |                 |
| 100 Percent                            | .2                   | 7.4           | 7.2               | 47                     | .4                      | 7.4           | 82        | 117                    | 24.4            |
| 125 Percent                            | .4                   | 7.7           | 7.5               | 53                     | .6                      | 7.3           | 80        | 112                    | 18.8            |
| <b>Age of Householder</b>              |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 35 Years                         | 1.0                  | 5.8           | 5.6               | 41                     | .4                      | 7.0           | 76        | 110                    | 15.1            |
| 35 to 59 Years                         | 1.8                  | 8.4           | 8.1               | 58                     | .5                      | 5.5           | 80        | 80                     | 19.0            |
| 60 Years and Over                      | .9                   | 6.9           | 6.7               | 54                     | .5                      | 5.3           | 58        | 83                     | 24.7            |
| <b>Household Size</b>                  |                      |               |                   |                        |                         |               |           |                        |                 |
| 1 Person                               | .8                   | 4.2           | 4.1               | 31                     | .3                      | 4.5           | 50        | 68                     | 24.2            |
| 2 to 4 Persons                         | 2.5                  | 8.1           | 7.8               | 57                     | .9                      | 5.1           | 56        | 82                     | 12.5            |
| 5 or More Persons                      | .5                   | 8.7           | 8.4               | 61                     | Q                       | Q             | Q         | Q                      | 15.8            |

See footnotes at end of table.

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APPLIANCE CONSUMPTION/EXPENDITURES

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Table 83. Natural Gas and LPG Consumption and Expenditures for Appliances, per South Region Household, 1990 (Continued)

| Characteristics                             | Natural Gas          |               |                   |                        | Liquefied Petroleum Gas |               |           |                        | RSE Row Factors |
|---|----------------------|---------------|-------------------|------------------------|-------------------------|---------------|-----------|------------------------|-----------------|
|   | Households (million) | Consumed      |                   | Expenditures (dollars) | Households (million)    | Consumed      |           | Expenditures (dollars) |                 |
|   |                      | (million Btu) | (1000 cubic feet) |                        |                         | (million Btu) | (gallons) |                        |                 |
|   |                      |               |                   |                        |                         |               |           |                        |                 |
| RSE Column Factors:                         | 1.0                  | NF            | NF                | 1.8                    | NF                      | NF            | NF        | NF                     |                 |
| East South Central Division ..              | 1.6                  | 6.7           | 6.5               | 0.5                    | 5.3                     | 57            | 70        | 18.3                   |                 |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                   | NC            | NC                | NC                     | NC                      | NC            | NC        | NC                     | NC              |
| Under 5,500 HDD .....                       | Q                    | Q             | Q                 | .5                     | 5.3                     | 57            | 70        | 17.3                   |                 |
| 2,000 CDD or More and Under 4,000 HDD ..... | Q                    | 7.2           | 6.9               | NC                     | NC                      | NC            | NC        | 57.2                   |                 |
| <b>Type of Housing Unit</b>                 |                      |               |                   |                        |                         |               |           |                        |                 |
| Single-Family .....                         | 1.1                  | 6.8           | 6.6               | .4                     | 5.6                     | 62            | 78        | 25.1                   | NF              |
| Mobile Home .....                           | Q                    | Q             | Q                 | Q                      | Q                       | Q             | Q         | Q                      | NF              |
| Multifamily (2 or more units) ..            | .4                   | 6.2           | 6.0               | NC                     | NC                      | NC            | NC        | 29.5                   |                 |
| <b>Heated Floorspace (square feet)</b>      |                      |               |                   |                        |                         |               |           |                        |                 |
| Fewer than 1,000 .....                      | .6                   | 6.4           | 6.2               | .2                     | 4.5                     | 49            | 55        | 21.7                   |                 |
| 1,000 to 1,999 .....                        | .5                   | 7.1           | 6.8               | .2                     | 6.0                     | 66            | 86        | 24.5                   |                 |
| 2,000 or More .....                         | Q                    | Q             | Q                 | Q                      | Q                       | Q             | Q         | NF                     |                 |
| <b>Ownership of Unit</b>                    |                      |               |                   |                        |                         |               |           |                        |                 |
| Owned .....                                 | 1.1                  | 6.6           | 6.4               | .4                     | 5.3                     | 57            | 72        | 27.7                   |                 |
| Rented .....                                | .5                   | 6.9           | 6.7               | Q                      | Q                       | Q             | Q         | 30.9                   |                 |
| <b>Year of Construction</b>                 |                      |               |                   |                        |                         |               |           |                        |                 |
| 1949 or Before .....                        | .3                   | 7.7           | 7.4               | Q                      | Q                       | Q             | Q         | 24.2                   |                 |
| 1950 to 1979 .....                          | .9                   | 7.1           | 6.8               | .3                     | 5.4                     | 59            | 76        | 23.0                   |                 |
| 1980 or After <sup>2</sup> .....            | Q                    | Q             | Q                 | Q                      | Q                       | Q             | Q         | NF                     |                 |
| <b>1990 Family Income</b>                   |                      |               |                   |                        |                         |               |           |                        |                 |
| Less than \$10,000 .....                    | .3                   | 7.9           | 7.6               | .2                     | 3.9                     | 43            | 45        | 23.6                   |                 |
| \$10,000 to \$19,999 .....                  | .3                   | 6.2           | 6.0               | Q                      | Q                       | Q             | Q         | 23.3                   |                 |
| \$20,000 to \$34,999 .....                  | .4                   | 6.1           | 5.8               | Q                      | Q                       | Q             | Q         | 23.1                   |                 |
| \$35,000 or More .....                      | .6                   | 6.8           | 6.6               | Q                      | Q                       | Q             | Q         | 60.6                   |                 |
| <b>Below Poverty Line</b>                   |                      |               |                   |                        |                         |               |           |                        |                 |
| 100 Percent .....                           | .3                   | 8.5           | 8.2               | .2                     | 4.3                     | 47            | 50        | 20.2                   |                 |
| 125 Percent .....                           | .3                   | 8.6           | 8.3               | .3                     | 5.1                     | 55            | 71        | 24.1                   |                 |
| <b>Age of Householder</b>                   |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 35 Years .....                        | .5                   | 5.3           | 5.2               | Q                      | Q                       | Q             | Q         | 14.5                   |                 |
| 35 to 59 Years .....                        | .8                   | 6.3           | 6.1               | .2                     | 6.3                     | 69            | 88        | 18.1                   |                 |
| 60 Years and Over .....                     | .4                   | 9.3           | 8.9               | .2                     | 4.0                     | 44            | 53        | 26.3                   |                 |
| <b>Household Size</b>                       |                      |               |                   |                        |                         |               |           |                        |                 |
| 1 Person .....                              | .4                   | 4.6           | 4.5               | Q                      | Q                       | Q             | Q         | 13.7                   |                 |
| 2 to 4 Persons .....                        | 1.0                  | 6.7           | 6.5               | .2                     | 5.0                     | 55            | 63        | 13.1                   |                 |
| 5 or More Persons .....                     | .2                   | 10.5          | 10.1              | Q                      | Q                       | Q             | Q         | 30.6                   |                 |

See footnotes at end of table.

**Table 83. Natural Gas and LPG Consumption and Expenditures for Appliances, per South Region Household, 1990 (Continued)**

| Characteristics                             | Natural Gas          |               |                   |                        | Liquefied Petroleum Gas |               |           |                        | RSE Row Factors |
|---|----------------------|---------------|-------------------|------------------------|-------------------------|---------------|-----------|------------------------|-----------------|
|   | Households (million) | Consumed      |                   | Expenditures (dollars) | Households (million)    | Consumed      |           | Expenditures (dollars) |                 |
|   |                      | (million Btu) | (1000 cubic feet) |                        |                         | (million Btu) | (gallons) |                        |                 |
| RSE Column Factors:                         | 1.0                  | NF            | NF                | NF                     | 1.8                     | NF            | NF        | NF                     |                 |
| <b>West South Central Division</b>          | 4.7                  | 9.1           | 8.9               | 48                     | 0.5                     | 4.1           | 45        | 44                     | 19.6            |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | NC                   | NC            | NC                | NC                     | NC                      | NC            | NC        | NC                     | NC              |
| Under 5,500 HDD .....                       | Q                    | Q             | Q                 | Q                      | Q                       | Q             | Q         | Q                      | NF              |
| 2,000 CDD or More and Under 4,000 HDD ..... | 4.2                  | 9.3           | 9.1               | 51                     | Q                       | 4.8           | 53        | 53                     | 21.3            |
| <b>Type of Housing Unit</b>                 |                      |               |                   |                        |                         |               |           |                        |                 |
| Single-Family .....                         | 4.2                  | 9.4           | 9.1               | 49                     | Q                       | 4.6           | 50        | 46                     | 26.2            |
| Mobile Home .....                           | Q                    | Q             | Q                 | Q                      | Q                       | Q             | Q         | Q                      | NF              |
| Multifamily (2 or more units) ..            | .4                   | 7.0           | 6.7               | 41                     | NC                      | NC            | NC        | NC                     | 37.9            |
| <b>Heated Floorspace (square feet)</b>      |                      |               |                   |                        |                         |               |           |                        |                 |
| Fewer than 1,000 .....                      | 1.2                  | 6.3           | 6.1               | 41                     | Q                       | Q             | Q         | Q                      | 17.4            |
| 1,000 to 1,999 .....                        | 2.8                  | 7.5           | 7.2               | 41                     | Q                       | Q             | Q         | Q                      | 13.3            |
| 2,000 or More .....                         | .7                   | Q             | Q                 | 93                     | Q                       | Q             | Q         | Q                      | 36.1            |
| <b>Ownership of Unit</b>                    |                      |               |                   |                        |                         |               |           |                        |                 |
| Owned .....                                 | 3.5                  | 9.9           | 9.7               | 52                     | .4                      | 4.1           | 45        | 43                     | 23.7            |
| Rented .....                                | 1.2                  | 6.8           | 6.6               | 38                     | Q                       | Q             | Q         | Q                      | 14.2            |
| <b>Year of Construction</b>                 |                      |               |                   |                        |                         |               |           |                        |                 |
| 1949 or Before .....                        | 1.2                  | 6.4           | 6.2               | 38                     | Q                       | Q             | Q         | Q                      | 19.8            |
| 1950 to 1979 .....                          | 3.2                  | 10.5          | 10.3              | 54                     | Q                       | Q             | Q         | Q                      | 24.0            |
| 1980 or After <sup>2</sup> .....            | .3                   | 5.2           | 5.0               | 32                     | Q                       | Q             | Q         | Q                      | 22.0            |
| <b>1990 Family Income</b>                   |                      |               |                   |                        |                         |               |           |                        |                 |
| Less than \$10,000 .....                    | 1.4                  | 6.7           | 6.5               | 40                     | Q                       | Q             | Q         | Q                      | 17.4            |
| \$10,000 to \$19,999 .....                  | .9                   | 7.4           | 7.2               | 46                     | Q                       | Q             | Q         | Q                      | 17.2            |
| \$20,000 to \$34,999 .....                  | 1.2                  | 6.8           | 6.6               | 36                     | Q                       | Q             | Q         | Q                      | 12.3            |
| \$35,000 or More .....                      | 1.2                  | 15.5          | 15.2              | 71                     | Q                       | Q             | Q         | Q                      | 41.8            |
| <b>Below Poverty Line</b>                   |                      |               |                   |                        |                         |               |           |                        |                 |
| 100 Percent .....                           | 1.4                  | 7.2           | 7.0               | 43                     | Q                       | Q             | Q         | Q                      | 15.3            |
| 125 Percent .....                           | 1.6                  | 7.1           | 6.9               | 42                     | Q                       | Q             | Q         | Q                      | 15.0            |
| <b>Age of Householder</b>                   |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 35 Years .....                        | 1.0                  | 7.6           | 7.5               | 41                     | Q                       | Q             | Q         | Q                      | 12.7            |
| 35 to 59 Years .....                        | 2.0                  | 12.1          | 11.8              | 59                     | Q                       | Q             | Q         | Q                      | 30.0            |
| 60 Years and Over .....                     | 1.8                  | 6.7           | 6.5               | 41                     | Q                       | Q             | Q         | Q                      | 16.0            |
| <b>Household Size</b>                       |                      |               |                   |                        |                         |               |           |                        |                 |
| 1 Person .....                              | 1.0                  | 4.0           | 3.9               | 24                     | Q                       | Q             | Q         | Q                      | 13.8            |
| 2 to 4 Persons .....                        | 3.0                  | 10.6          | 10.3              | 55                     | Q                       | Q             | Q         | Q                      | 25.2            |
| 5 or More Persons .....                     | .8                   | 10.0          | 9.7               | 53                     | Q                       | Q             | Q         | Q                      | 15.5            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 84. Consumption and Expenditures in West Region Households, 1990

| Characteristics                             | Average of Major Energy Sources <sup>1</sup> |                        |                                     |                            |                                |                             |                                |              |                 |               | RSE Row Factors |                        |  |  |  |  |
|---|--|------------------------|-------------------------------------|----------------------------|--------------------------------|-----------------------------|--------------------------------|--------------|-----------------|---------------|-----------------|------------------------|--|--|--|--|
|   | Residential Buildings                        |                        |                                     |                            |                                | Consumption                 |                                |              |                 |               |                 | Expenditures (dollars) |  |  |  |  |
|   | Total Households (million)                   | Total Number (million) | Total Floor space (billion sq. ft.) | per Building (million Btu) | per Square Foot (thousand Btu) | per Household (million Btu) | per House Member (million Btu) | per Building | per Square Foot | per Household |                 | per House Member       |  |  |  |  |
| RSE Column Factors:                         | 1.4  | 1.6                    | 1.5                                 | 1.0                        | 0.9                            | 0.8                         | 1.0                            | 0.9          | 0.9             | 0.7           | 0.8             |                        |  |  |  |  |
| <b>West Region</b>                          |  |                        |                                     |                            |                                |                             |                                |              |                 |               |                 |                        |  |  |  |  |
| <b>Total Region</b> .....                   | 19.4   | 14.8                   | 29.5                                | 102                        | 51                             | 77.8                        | 29                             | 1,203        | 0.60            | 920           | 342             | 3.5                    |  |  |  |  |
| <b>Climate Zone:<sup>2</sup></b>            |  |                        |                                     |                            |                                |                             |                                |              |                 |               |                 |                        |  |  |  |  |
| Under 2,000 HDD and Over 5,500 HDD .....    | 4.7  | 4.1                    | 8.0                                 | 119                        | 61                             | 103.9                       | 39                             | 1,034        | .53             | 902           | 336             | 9.0                    |  |  |  |  |
| Under 5,500 HDD and 2,000 HDD or More ..... | 12.3   | 8.8                    | 18.5                                | 99                         | 47                             | 70.7                        | 27                             | 1,247        | .59             | 889           | 341             | 5.5                    |  |  |  |  |
| Under 4,000 HDD .....                       | 2.3  | 1.9                    | 3.0                                 | 77                         | 48                             | 62.5                        | 20                             | 1,369        | .86             | 1,119         | 361             | 8.7                    |  |  |  |  |
| <b>Type of Housing Unit</b>                 |  |                        |                                     |                            |                                |                             |                                |              |                 |               |                 |                        |  |  |  |  |
| Single-Family .....                         | 12.8   | 12.8                   | 23.8                                | 90                         | 48                             | 90.3                        | 31                             | 1,072        | .58             | 1,072         | 365             | 3.8                    |  |  |  |  |
| Mobile Home .....                           | 1.2  | 1.2                    | 1.2                                 | 76                         | 77                             | 76.4                        | 33                             | 801          | .81             | 801           | 350             | 11.2                   |  |  |  |  |
| Multifamily (2 or more units) .....         | 5.4  | .9                     | 4.5                                 | 308                        | 59                             | 49.0                        | 22                             | 3,699        | .71             | 588           | 270             | 6.9                    |  |  |  |  |
| <b>Heated Floorspace (square feet)</b>      |  |                        |                                     |                            |                                |                             |                                |              |                 |               |                 |                        |  |  |  |  |
| Fewer than 1,000 .....                      | 8.0  | 4.3                    | 6.1                                 | 97                         | 69                             | 52.7                        | 22                             | 1,185        | .84             | 640           | 271             | 4.8                    |  |  |  |  |
| 1,000 to 1,999 .....                        | 8.5  | 7.7                    | 14.4                                | 96                         | 51                             | 86.4                        | 30                             | 1,140        | .61             | 1,030         | 360             | 4.2                    |  |  |  |  |
| 2,000 or More .....                         | 2.8  | 2.8                    | 8.9                                 | 126                        | 39                             | 122.8                       | 40                             | 1,410        | .44             | 1,373         | 449             | 6.3                    |  |  |  |  |
| <b>Ownership of Unit</b>                    |  |                        |                                     |                            |                                |                             |                                |              |                 |               |                 |                        |  |  |  |  |
| Owned .....                                 | 11.3   | 10.8                   | 21.8                                | 96                         | 47                             | 91.2                        | 34                             | 1,123        | .56             | 1,071         | 394             | 3.8                    |  |  |  |  |
| Rented .....                                | 8.1  | 4.0                    | 7.7                                 | 118                        | 62                             | 59.2                        | 22                             | 1,418        | .74             | 709           | 268             | 4.8                    |  |  |  |  |
| <b>Year of Construction</b>                 |  |                        |                                     |                            |                                |                             |                                |              |                 |               |                 |                        |  |  |  |  |
| 1949 or Before .....                        | 4.6  | 3.8                    | 7.0                                 | 103                        | 56                             | 84.1                        | 33                             | 1,014        | .55             | 832           | 324             | 6.5                    |  |  |  |  |
| 1950 to 1979 .....                          | 10.8   | 7.8                    | 15.4                                | 104                        | 53                             | 75.6                        | 29                             | 1,251        | .63             | 907           | 348             | 4.0                    |  |  |  |  |
| 1980 or After <sup>3</sup> .....            | 4.0  | 3.2                    | 7.2                                 | 95                         | 43                             | 76.5                        | 25                             | 1,312        | .59             | 1,056         | 346             | 7.5                    |  |  |  |  |
| <b>1990 Family Income</b>                   |  |                        |                                     |                            |                                |                             |                                |              |                 |               |                 |                        |  |  |  |  |
| Less than \$10,000 .....                    | 2.9  | 1.8                    | 2.6                                 | 89                         | 61                             | 54.5                        | 25                             | 999          | .69             | 612           | 286             | 8.5                    |  |  |  |  |
| \$10,000 to \$19,999 .....                  | 4.3  | 3.1                    | 5.2                                 | 92                         | 54                             | 66.5                        | 25                             | 1,055        | .62             | 759           | 299             | 5.2                    |  |  |  |  |
| \$20,000 to \$34,999 .....                  | 5.0  | 3.7                    | 7.1                                 | 104                        | 54                             | 76.1                        | 28                             | 1,163        | .61             | 851           | 308             | 6.0                    |  |  |  |  |
| \$35,000 or More .....                      | 7.2  | 6.3                    | 14.6                                | 109                        | 47                             | 95.2                        | 33                             | 1,357        | .58             | 1,187         | 411             | 4.3                    |  |  |  |  |
| <b>Below Poverty Line</b>                   |  |                        |                                     |                            |                                |                             |                                |              |                 |               |                 |                        |  |  |  |  |
| 100 Percent .....                           | 2.8  | 1.8                    | 2.7                                 | 91                         | 59                             | 58.0                        | 18                             | 1,092        | .71             | 698           | 211             | 8.3                    |  |  |  |  |
| 125 Percent .....                           | 3.8  | 2.5                    | 4.0                                 | 94                         | 60                             | 62.0                        | 20                             | 1,110        | .71             | 733           | 235             | 6.9                    |  |  |  |  |
| <b>Age of Householder</b>                   |  |                        |                                     |                            |                                |                             |                                |              |                 |               |                 |                        |  |  |  |  |
| Under 35 Years .....                        | 6.4  | 3.9                    | 7.6                                 | 113                        | 58                             | 69.0                        | 22                             | 1,316        | .68             | 804           | 257             | 4.9                    |  |  |  |  |
| 35 to 59 Years .....                        | 8.1  | 6.8                    | 14.0                                | 104                        | 51                             | 87.8                        | 31                             | 1,240        | .60             | 1,046         | 364             | 4.3                    |  |  |  |  |
| 60 Years and Over .....                     | 4.9  | 4.1                    | 7.9                                 | 88                         | 46                             | 73.0                        | 40                             | 1,036        | .54             | 863           | 476             | 5.3                    |  |  |  |  |
| <b>Household Size</b>                       |  |                        |                                     |                            |                                |                             |                                |              |                 |               |                 |                        |  |  |  |  |
| 1 Person .....                              | 5.0  | 3.3                    | 5.9                                 | 88                         | 49                             | 58.1                        | 58                             | 990          | .55             | 657           | 657             | 4.5                    |  |  |  |  |
| 2 to 4 Persons .....                        | 11.8   | 9.2                    | 19.0                                | 107                        | 51                             | 82.9                        | 31                             | 1,245        | .60             | 968           | 358             | 3.5                    |  |  |  |  |
| 5 or More Persons .....                     | 2.6  | 2.3                    | 4.6                                 | 103                        | 53                             | 92.4                        | 16                             | 1,342        | .69             | 1,201         | 207             | 6.4                    |  |  |  |  |

See footnotes at end of table.

**Table 84. Consumption and Expenditures in West Region Households, 1990 (Continued)**

| Characteristics   | Average of Major Energy Sources <sup>1</sup> |                        |                                     |                            |                                |                             |                                |                        |                 |               |                  | RSE Row Factors |
|---|--|------------------------|-------------------------------------|----------------------------|--------------------------------|-----------------------------|--------------------------------|------------------------|-----------------|---------------|------------------|-----------------|
|   | Residential Buildings                        |                        |                                     | Consumption                |                                |                             |                                | Expenditures (dollars) |                 |               |                  |                 |
|   | Total Households (million)                   | Total Number (million) | Total Floor-space (billion sq. ft.) | per Building (million Btu) | per Square Foot (thousand Btu) | per Household (million Btu) | per House-member (million Btu) | per Building           | per Square Foot | per Household | per House-member |                 |
| RSE Column Factors:   | 1.4  | 1.6                    | 1.5                                 | 1.0                        | 0.9                            | 0.8                         | 1.0                            | 0.9                    | 0.9             | 0.7           | 0.8              |                 |
| Mountain Division .....   | 4.8  | 4.2                    | 7.8                                 | 118                        | 63                             | 101.8                       | 37                             | 1,166                  | 0.62            | 1,002         | 366              | 5.4             |
| <b>Climate Zone:<sup>2</sup></b>                                |  |                        |                                     |                            |                                |                             |                                |                        |                 |               |                  |                 |
| Under 2,000 CDD and Over 5,500 HDD .....                        | 2.9  | 2.5                    | 5.2                                 | 143                        | 67                             | 120.9                       | 45                             | 1,112                  | .52             | 942           | 350              | 8.9             |
| Under 5,500 HDD and 2,000 CDD or More and Under 4,000 HDD ..... | .5   | .5                     | 0                                   | 96                         | 73                             | 93.0                        | 31                             | 955                    | .73             | 924           | 312              | 14.6            |
| 1.4   | 1.2  | 1.9                    | 78                                  | 48                         | 65.7                           | 24                          | 1,367                          | .85                    | 1,155           | 419           | 5.4              |                 |
| <b>Type of Housing Unit</b>                                     |  |                        |                                     |                            |                                |                             |                                |                        |                 |               |                  |                 |
| Single-Family .....   | 3.5  | 3.5                    | 6.7                                 | 113                        | 59                             | 112.7                       | 38                             | 1,097                  | .57             | 1,097         | 372              | 5.3             |
| Mobile Home .....   | .5   | .5                     | .5                                  | 86                         | 86                             | 85.6                        | 33                             | 796                    | .80             | 798           | 305              | 13.4            |
| Multifamily (2 or more units) ...                               | .9   | .2                     | .7                                  | 292                        | 91                             | 68.1                        | 34                             | 3,193                  | .99             | 744           | 372              | 16.6            |
| <b>Heated Floorspace (square feet)</b>                          |  |                        |                                     |                            |                                |                             |                                |                        |                 |               |                  |                 |
| Fewer than 1,000 .....  | 1.7  | 1.1                    | 1.3                                 | 118                        | 103                            | 76.7                        | 33                             | 1,194                  | 1.04            | 776           | 335              | 9.2             |
| 1,000 to 1,999 .....  | 2.3  | 2.2                    | 3.8                                 | 107                        | 62                             | 103.1                       | 36                             | 1,093                  | .64             | 1,054         | 365              | 5.7             |
| 2,000 or More .....   | .9   | .9                     | 2.8                                 | 149                        | 46                             | 147.2                       | 46                             | 1,317                  | .41             | 1,304         | 411              | 9.9             |
| <b>Ownership of Unit</b>  |  |                        |                                     |                            |                                |                             |                                |                        |                 |               |                  |                 |
| Owned .....   | 3.3  | 3.3                    | 6.4                                 | 115                        | 59                             | 113.4                       | 40                             | 1,095                  | .56             | 1,075         | 382              | 6.1             |
| Rented .....  | 1.5  | .9                     | 1.5                                 | 129                        | 81                             | 76.7                        | 30                             | 1,421                  | .89             | 845           | 326              | 7.9             |
| <b>Year of Construction</b>                                     |  |                        |                                     |                            |                                |                             |                                |                        |                 |               |                  |                 |
| 1949 or Before .....  | 1.2  | 1.1                    | 1.8                                 | 132                        | 79                             | 120.6                       | 45                             | 1,016                  | .61             | 929           | 343              | 10.0            |
| 1950 to 1979 .....  | 2.5  | 2.1                    | 3.9                                 | 122                        | 66                             | 101.3                       | 38                             | 1,191                  | .65             | 992           | 376              | 5.9             |
| 1980 or After <sup>3</sup> .....                                | 1.1  | 1.0                    | 2.1                                 | 97                         | 44                             | 83.8                        | 28                             | 1,274                  | .58             | 1,101         | 367              | 11.2            |
| <b>1990 Family Income</b>                                       |  |                        |                                     |                            |                                |                             |                                |                        |                 |               |                  |                 |
| Less than \$10,000 .....  | .9   | .6                     | .9                                  | 106                        | 72                             | 77.9                        | 36                             | 1,069                  | .73             | 786           | 360              | 13.2            |
| \$10,000 to \$19,999 .....                                      | 1.0  | .8                     | 1.2                                 | 112                        | 73                             | 88.1                        | 32                             | 1,168                  | .76             | 921           | 334              | 7.9             |
| \$20,000 to \$34,999 .....                                      | 1.4  | 1.2                    | 2.2                                 | 125                        | 70                             | 109.9                       | 41                             | 1,080                  | .60             | 953           | 355              | 8.9             |
| \$35,000 or More .....  | 1.6  | 1.5                    | 3.5                                 | 122                        | 53                             | 116.5                       | 38                             | 1,274                  | .55             | 1,214         | 394              | 5.8             |
| <b>Below Poverty Line</b>                                       |  |                        |                                     |                            |                                |                             |                                |                        |                 |               |                  |                 |
| 100 Percent .....   | .7   | .6                     | .8                                  | 105                        | 73                             | 83.2                        | 26                             | 1,109                  | .77             | 880           | 274              | 14.1            |
| 125 Percent .....   | 1.0  | .8                     | 1.2                                 | 111                        | 75                             | 87.6                        | 28                             | 1,128                  | .76             | 888           | 280              | 11.5            |
| <b>Age of Householder</b>                                       |  |                        |                                     |                            |                                |                             |                                |                        |                 |               |                  |                 |
| Under 25 Years .....  | 1.5  | 1.1                    | 2.1                                 | 126                        | 69                             | 94.0                        | 28                             | 1,293                  | .71             | 961           | 287              | 7.8             |
| 25 to 59 Years .....  | 2.1  | 1.9                    | 3.7                                 | 116                        | 60                             | 106.4                       | 38                             | 1,145                  | .59             | 1,050         | 376              | 6.7             |
| 60 Years and Over .....   | 1.2  | 1.1                    | 2.0                                 | 115                        | 63                             | 103.8                       | 56                             | 1,070                  | .59             | 970           | 521              | 9.9             |
| <b>Household Size</b>   |  |                        |                                     |                            |                                |                             |                                |                        |                 |               |                  |                 |
| 1 Person .....  | 1.2  | .9                     | 1.5                                 | 109                        | 62                             | 79.8                        | 80                             | 994                    | .56             | 727           | 727              | 9.4             |
| 2 to 4 Persons .....  | 3.0  | 2.6                    | 5.0                                 | 121                        | 63                             | 106.4                       | 39                             | 1,207                  | .63             | 1,066         | 389              | 5.4             |
| 5 or More Persons .....   | .7   | .7                     | 1.3                                 | 122                        | 64                             | 119.6                       | 21                             | 1,222                  | .63             | 1,195         | 209              | 8.5             |

See footnotes at end of table.

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Table 84. Consumption and Expenditures in West Region Households, 1990 (Continued)

| Characteristics                        | Average of Major Energy Sources <sup>1</sup> |                        |                                     |                            |                                |                             |                                |                        |                 |                      | RSE Row Factors |      |
|--|--|------------------------|-------------------------------------|----------------------------|--------------------------------|-----------------------------|--------------------------------|------------------------|-----------------|----------------------|-----------------|------|
|  | Residential Buildings                        |                        | Consumption                         |                            |                                |                             |                                | Expenditures (dollars) |                 |                      |                 |      |
|  | Total Households (million)                   | Total Number (million) | Total Floor-space (billion sq. ft.) | per Building (million Btu) | per Square Foot (thousand Btu) | per Household (million Btu) | per House-Member (million Btu) | per Building           | per Square Foot | per Household Member |                 |      |
| RSE Column Factors:                    | 1.4  | 1.6                    | 1.5                                 | 1.0                        | 0.9                            | 0.8                         | 1.0                            | 0.9                    | 0.9             | 0.7                  | 0.8             |      |
| Pacific Division                       | 14.6   | 10.7                   | 21.7                                | 95                         | 47                             | 69.9                        | 26                             | 1,218                  | 0.60            | 892                  | 334             | 3.9  |
| <b>Climate Zone:<sup>2</sup></b>       |  |                        |                                     |                            |                                |                             |                                |                        |                 |                      |                 |      |
| Under 2,000 CDD and Over 5,500 HDD     | 1.8  | 1.7                    | 2.8                                 | 84                         | 51                             | 76.7                        | 29                             | 920                    | .55             | 837                  | 313             | 12.7 |
| Under 5,500 HDD                        | 11.8   | 8.3                    | 17.8                                | 99                         | 46                             | 69.7                        | 27                             | 1,265                  | .59             | 888                  | 342             | 5.7  |
| 2,000 CDD or More and Under 4,000 HDD  | .9   | .7                     | Q                                   | 74                         | 47                             | 57.6                        | 16                             | 1,372                  | .86             | 1,062                | 293             | 21.5 |
| <b>Type of Housing Unit</b>            |  |                        |                                     |                            |                                |                             |                                |                        |                 |                      |                 |      |
| Single-Family                          | 9.3  | 9.3                    | 17.1                                | 82                         | 44                             | 81.9                        | 28                             | 1,063                  | .58             | 1,063                | 362             | 4.9  |
| Mobile Home                            | .7   | .7                     | .7                                  | 70                         | 71                             | 70.1                        | 34                             | 804                    | .81             | 804                  | 390             | 16.6 |
| Multifamily (2 or more units)          | 4.6  | .7                     | 3.8                                 | 313                        | 54                             | 45.2                        | 20                             | 3,858                  | .66             | 557                  | 252             | 7.4  |
| <b>Heated Floorspace (square feet)</b> |  |                        |                                     |                            |                                |                             |                                |                        |                 |                      |                 |      |
| Fewer than 1,000                       | 6.3  | 3.2                    | 4.9                                 | 91                         | 60                             | 46.3                        | 19                             | 1,182                  | .78             | 604                  | 254             | 5.3  |
| 1,000 to 1,999                         | 6.3  | 5.5                    | 10.6                                | 91                         | 47                             | 80.3                        | 28                             | 1,158                  | .60             | 1,022                | 358             | 5.2  |
| 2,000 or More                          | 2.0  | 1.9                    | 6.2                                 | 116                        | 36                             | 112.0                       | 37                             | 1,452                  | .45             | 1,403                | 467             | 7.3  |
| <b>Ownership of Unit</b>               |  |                        |                                     |                            |                                |                             |                                |                        |                 |                      |                 |      |
| Owned                                  | 8.0  | 7.5                    | 15.4                                | 87                         | 42                             | 81.9                        | 31                             | 1,135                  | .55             | 1,069                | 399             | 4.8  |
| Rented                                 | 6.6  | 3.1                    | 6.2                                 | 115                        | 58                             | 55.1                        | 21                             | 1,417                  | .71             | 677                  | 255             | 5.9  |
| <b>Year of Construction</b>            |  |                        |                                     |                            |                                |                             |                                |                        |                 |                      |                 |      |
| 1949 or Before                         | 3.5  | 2.7                    | 5.2                                 | 91                         | 48                             | 71.9                        | 29                             | 1,013                  | .53             | 799                  | 317             | 7.1  |
| 1950 to 1979                           | 8.2  | 5.7                    | 11.4                                | 98                         | 49                             | 67.7                        | 26                             | 1,273                  | .63             | 880                  | 340             | 5.1  |
| 1980 or After <sup>3</sup>             | 2.9  | 2.3                    | 5.0                                 | 94                         | 42                             | 73.6                        | 24                             | 1,328                  | .60             | 1,039                | 338             | 9.8  |
| <b>1990 Family Income</b>              |  |                        |                                     |                            |                                |                             |                                |                        |                 |                      |                 |      |
| Less than \$10,000                     | 2.0  | 1.1                    | 1.7                                 | 80                         | 55                             | 44.7                        | 21                             | 960                    | .66             | 538                  | 254             | 11.1 |
| \$10,000 to \$19,999                   | 3.3  | 2.3                    | 4.0                                 | 86                         | 49                             | 58.9                        | 23                             | 1,016                  | .57             | 709                  | 274             | 6.3  |
| \$20,000 to \$34,999                   | 3.6  | 2.5                    | 4.9                                 | 94                         | 47                             | 63.2                        | 23                             | 1,204                  | .61             | 813                  | 291             | 6.9  |
| \$35,000 or More                       | 5.6  | 4.8                    | 11.1                                | 105                        | 45                             | 89.2                        | 31                             | 1,384                  | .59             | 1,180                | 417             | 5.4  |
| <b>Below Poverty Line</b>              |  |                        |                                     |                            |                                |                             |                                |                        |                 |                      |                 |      |
| 100 Percent                            | 2.1  | 1.2                    | 1.9                                 | 84                         | 53                             | 49.4                        | 15                             | 1,085                  | .69             | 636                  | 191             | 9.8  |
| 125 Percent                            | 2.8  | 1.7                    | 2.8                                 | 86                         | 54                             | 52.7                        | 17                             | 1,101                  | .69             | 676                  | 218             | 8.6  |
| <b>Age of Householder</b>              |  |                        |                                     |                            |                                |                             |                                |                        |                 |                      |                 |      |
| Under 35 Years                         | 4.8  | 2.8                    | 5.5                                 | 107                        | 54                             | 61.1                        | 20                             | 1,325                  | .67             | 754                  | 247             | 6.2  |
| 35 to 59 Years                         | 6.0  | 4.9                    | 10.3                                | 99                         | 47                             | 81.2                        | 28                             | 1,279                  | .61             | 1,044                | 360             | 5.3  |
| 60 Years and Over                      | 3.7  | 3.0                    | 5.9                                 | 78                         | 40                             | 63.1                        | 35                             | 1,023                  | .52             | 829                  | 461             | 6.2  |
| <b>Household Size</b>                  |  |                        |                                     |                            |                                |                             |                                |                        |                 |                      |                 |      |
| 1 Person                               | 3.8  | 2.4                    | 4.4                                 | 80                         | 44                             | 51.5                        | 52                             | 988                    | .55             | 635                  | 635             | 4.8  |
| 2 to 4 Persons                         | 8.8  | 6.5                    | 14.0                                | 101                        | 47                             | 74.9                        | 28                             | 1,260                  | .59             | 935                  | 347             | 4.3  |
| 5 or More Persons                      | 1.9  | 1.7                    | 3.3                                 | 96                         | 49                             | 82.8                        | 14                             | 1,390                  | .71             | 1,203                | 206             | 7.9  |

<sup>1</sup> Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.  
<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.  
<sup>3</sup> Does not include all new construction for 1990.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

# ENERGY CONSUMPTION AND EXPENDITURES

## Table 85. Total Consumption in West Region Households, 1990

| Characteristics                        | Major Energy Sources <sup>1</sup><br>(trillion Btu) | Electricity    |               | Natural Gas    |                      | Fuel Oil       |                   | Kerosene       |                   | Liquefied Petroleum Gas |                   | RSE Row Factors |
|--|---|----------------|---------------|----------------|----------------------|----------------|-------------------|----------------|-------------------|-------------------------|-------------------|-----------------|
|  |   | (trillion Btu) | (billion kWh) | (trillion Btu) | (billion cubic feet) | (trillion Btu) | (billion gallons) | (trillion Btu) | (billion gallons) | (trillion Btu)          | (billion gallons) |                 |
| RSE Column Factors:                    | 0.3   | 0.4            | 0.4           | 0.4            | 0.4                  | 1.9            | 1.9               | 2.7            | 2.8               | 1.8                     | 1.8               |                 |
| West Region                            |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Total Region .....                     | 1,510.2   | 539.4          | 158.1         | 918.3          | 891                  | Q              | Q                 | Q              | Q                 | 31.5                    | 0.35              | 12.8            |
| <b>Climate Zone<sup>2</sup></b>        |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 2,000 CDD and                    |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 5,500 HDD .....                  | 492.6   | 172.9          | 50.7          | 300.8          | 294                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 52.5            |
| Over 5,500 HDD .....                   | 873.2   | 295.3          | 86.5          | 549.7          | 592                  | Q              | Q                 | Q              | Q                 | 13.0                    | .14               | 21.6            |
| 2,000 CDD or More and                  |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 4,000 HDD .....                  | 144.5   | 71.2           | 20.9          | 67.9           | 66                   | Q              | Q                 | Q              | Q                 | 5.2                     | .06               | 48.1            |
| <b>Type of Housing Unit</b>            |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Single-Family .....                    | 1,152.7   | 414.1          | 121.4         | 695.4          | 675                  | Q              | Q                 | Q              | Q                 | 22.3                    | .24               | 16.8            |
| Mobile Home .....                      | 91.3  | 31.9           | 9.4           | 51.3           | 50                   | NC             | NC                | NC             | NC                | Q                       | Q                 | 60.3            |
| Multifamily (2 or more units) ...      | 266.2   | 93.4           | 27.4          | 171.6          | 166                  | NC             | NC                | NC             | NC                | Q                       | Q                 | 31.6            |
| <b>Heated Floorspace (square feet)</b> |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Fewer than 1,000 .....                 | 422.2   | 153.0          | 44.9          | 253.8          | 246                  | Q              | Q                 | Q              | Q                 | 14.4                    | .16               | 17.6            |
| 1,000 to 1,999 .....                   | 738.5   | 274.3          | 80.4          | 443.9          | 431                  | 7.8            | 0.06              | Q              | Q                 | Q                       | Q                 | 19.1            |
| 2,000 or More .....                    | 349.6   | 112.1          | 32.8          | 220.6          | 214                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 35.0            |
| <b>Ownership of Unit</b>               |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Owned .....                            | 1,031.0   | 363.4          | 106.5         | 628.6          | 610                  | Q              | Q                 | Q              | Q                 | (*)                     | 21.3              | 23              |
| Rented .....                           | 479.3   | 176.0          | 51.6          | 289.7          | 281                  | Q              | Q                 | Q              | Q                 | Q                       | 10.2              | .11             |
| <b>Year of Construction</b>            |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 1949 or Before .....                   | 389.6   | 113.5          | 33.3          | 258.0          | 251                  | 10.9           | .08               | Q              | Q                 | 7.0                     | .08               | 26.2            |
| 1950 to 1979 .....                     | 813.2   | 296.6          | 86.9          | 490.4          | 475                  | Q              | Q                 | Q              | Q                 | 16.4                    | .18               | 18.6            |
| 1980 or After <sup>3</sup> .....       | 307.4   | 129.3          | 37.9          | 169.9          | 165                  | NC             | NC                | Q              | Q                 | 8.1                     | .09               | 32.6            |
| <b>1990 Family Income</b>              |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Less than \$10,000 .....               | 158.5   | 60.0           | 17.6          | 87.5           | 85                   | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 37.4            |
| \$10,000 to \$19,999 .....             | 284.1   | 103.1          | 30.2          | 169.9          | 164                  | Q              | Q                 | NC             | NC                | 4.4                     | .05               | 21.1            |
| \$20,000 to \$34,999 .....             | 382.6   | 133.9          | 39.2          | 230.2          | 224                  | Q              | Q                 | Q              | Q                 | 10.1                    | .11               | 28.3            |
| \$35,000 or More .....                 | 685.0   | 242.4          | 71.1          | 430.7          | 418                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 13.0            |
| <b>Below Poverty Line</b>              |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 100 Percent .....                      | 159.5   | 64.7           | 19.0          | 87.0           | 85                   | NC             | NC                | Q              | Q                 | 7.7                     | .08               | 28.9            |
| 125 Percent .....                      | 238.3   | 92.0           | 27.0          | 134.0          | 130                  | Q              | Q                 | Q              | Q                 | 11.5                    | .13               | 24.9            |
| <b>Age of Householder</b>              |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| Under 35 Years .....                   | 440.4   | 146.9          | 43.1          | 284.9          | 276                  | Q              | Q                 | NC             | NC                | Q                       | Q                 | 21.5            |
| 35 to 59 Years .....                   | 709.0   | 258.9          | 75.9          | 433.3          | 422                  | Q              | Q                 | Q              | Q                 | 9.5                     | .10               | 16.6            |
| 60 Years and Over .....                | 360.8   | 133.6          | 39.2          | 200.1          | 194                  | Q              | Q                 | Q              | Q                 | 14.9                    | .16               | 24.1            |
| <b>Household Size</b>                  |   |                |               |                |                      |                |                   |                |                   |                         |                   |                 |
| 1 Person .....                         | 289.1   | 103.3          | 30.3          | 170.5          | 166                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 20.4            |
| 2 to 4 Persons .....                   | 978.5   | 344.0          | 100.8         | 607.9          | 590                  | Q              | Q                 | Q              | Q                 | 17.8                    | .19               | 15.3            |
| 5 or More Persons .....                | 242.6   | 92.1           | 27.0          | 139.9          | 135                  | Q              | Q                 | Q              | Q                 | 4.0                     | .04               | 23.5            |

See footnotes at end of table.

WEST

ENERGY CONSUMPTION AND EXPENDITURES

WEST

Table 85. Total Consumption in West Region Households, 1990 (Continued)

| Characteristics                             | Major Energy Sources <sup>1</sup><br>(trillion Btu) | Electricity    |               | Natural Gas    |                      | Fuel Oil       |                   | Kerosene       |                   | Liquefied Petroleum Gas |                   | RSE Flow Factors |
|---|---|----------------|---------------|----------------|----------------------|----------------|-------------------|----------------|-------------------|-------------------------|-------------------|------------------|
|   |   | (trillion Btu) | (billion kWh) | (trillion Btu) | (billion cubic feet) | (trillion Btu) | (billion gallons) | (trillion Btu) | (billion gallons) | (trillion Btu)          | (billion gallons) |                  |
|   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| RSE Column Factors:                         | 0.3   | 0.4            | 0.4           | 0.4            | 0.4                  | 1.9            | 1.9               | 2.7            | 2.8               | 1.8                     | 1.8               |                  |
| <b>Mountain Division</b> .....              | 493.2   | 141.8          | 41.6          | 333.7          | 324                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 29.8             |
| <b>Climate Zone<sup>2</sup></b>             |   |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| Under 2,000 HDD .....                       |   |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| Over 5,500 HDD .....                        | 352.6   | 79.4           | 23.3          | 256.6          | 250                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 54.7             |
| Under 5,500 HDD .....                       | Q   | Q              | Q             | 35.3           | 33                   | NC             | NC                | NC             | NC                | Q                       | Q                 | 109.5            |
| 2,000 HDD or More and Under 4,000 HDD ..... | 92.7  | 50.4           | 14.8          | 41.9           | 41                   | NC             | NC                | Q              | Q                 | Q                       | Q                 | 27.2             |
| <b>Type of Housing Unit</b>                 |   |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| Single-Family .....                         | 391.0   | 111.2          | 32.6          | 264.6          | 257                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 29.3             |
| Mobile Home .....                           | 41.8  | 12.2           | 3.6           | 27.2           | 26                   | NC             | NC                | NC             | NC                | Q                       | Q                 | 89.6             |
| Multifamily (2 or more units) ...           | 60.4  | 18.4           | 5.4           | 42.0           | 41                   | NC             | NC                | NC             | NC                | NC                      | NC                | 59.2             |
| <b>Heated Floorspace (square feet)</b>      |   |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| Fewer than 1,000 .....                      | 129.3   | 33.7           | 9.9           | 92.5           | 90                   | Q              | Q                 | NC             | NC                | Q                       | Q                 | 44.8             |
| 1,000 to 1,999 .....                        | 236.0   | 73.7           | 21.6          | 154.4          | 150                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 34.1             |
| 2,000 or More .....                         | 128.0   | 34.3           | 10.1          | 86.8           | 84                   | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 49.8             |
| <b>Ownership of Unit</b>                    |   |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| Owned .....                                 | 375.7   | 105.3          | 30.9          | 255.9          | 249                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 35.4             |
| Rented .....                                | 117.5   | 36.5           | 10.7          | 77.9           | 76                   | NC             | NC                | NC             | NC                | Q                       | Q                 | 28.8             |
| <b>Year of Construction</b>                 |   |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| 1949 or Before .....                        | 140.2   | 27.2           | 8.0           | 106.0          | 104                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 65.7             |
| 1950 to 1979 .....                          | 257.7   | 73.2           | 21.4          | 178.5          | 173                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 27.7             |
| 1980 or After <sup>3</sup> .....            | 95.3  | 41.4           | 12.1          | 49.3           | 47                   | NC             | NC                | Q              | Q                 | Q                       | Q                 | 58.5             |
| <b>1990 Family Income</b>                   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| Less than \$10,000 .....                    | 67.1  | 18.3           | 5.4           | 44.9           | 44                   | Q              | Q                 | NC             | NC                | Q                       | Q                 | 59.0             |
| \$10,000 to \$19,999 .....                  | 88.9  | 25.1           | 7.3           | 63.3           | 61                   | NC             | NC                | NC             | NC                | Q                       | Q                 | 38.4             |
| \$20,000 to \$34,999 .....                  | 152.2   | 37.5           | 11.0          | 107.6          | 105                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 56.6             |
| \$35,000 or More .....                      | 185.0   | 61.0           | 17.9          | 118.0          | 115                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 24.5             |
| <b>Below Poverty Line</b>                   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| 100 Percent .....                           | 58.0  | 17.9           | 5.3           | 37.0           | 36                   | NC             | NC                | NC             | NC                | Q                       | Q                 | 73.3             |
| 125 Percent .....                           | 90.3  | 25.8           | 7.6           | 60.6           | 59                   | Q              | Q                 | NC             | NC                | Q                       | Q                 | 56.6             |
| <b>Age of Householder</b>                   |   |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| Under 35 Years .....                        | 144.7   | 42.7           | 12.5          | 98.4           | 95                   | NC             | NC                | NC             | NC                | Q                       | Q                 | 31.7             |
| 35 to 59 Years .....                        | 224.4   | 69.3           | 20.3          | 148.2          | 145                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 40.7             |
| 60 Years and Over .....                     | 124.2   | 29.8           | 8.7           | 87.1           | 85                   | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 45.3             |
| <b>Household Size</b>                       |   |                |               |                |                      |                |                   |                |                   |                         |                   |                  |
| 1 Person .....                              | 93.2  | 20.5           | 6.0           | 69.8           | 69                   | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 44.0             |
| 2 to 4 Persons .....                        | 318.4   | 97.0           | 28.4          | 209.2          | 203                  | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 31.3             |
| 5 or More Persons .....                     | 81.7  | 24.3           | 7.1           | 54.7           | 52                   | Q              | Q                 | Q              | Q                 | Q                       | Q                 | 50.7             |

See footnotes at end of table.

# ENERGY CONSUMPTION AND EXPENDITURES

**Table 85. Total Consumption in West Region Households, 1990 (Continued)**

| Characteristics                             | Major Energy Sources <sup>1</sup><br>(trillion Btu) |                | Electricity   |                | Natural Gas          |                | Fuel Oil          |                | Kerosene          |                | Liquefied Petroleum Gas |      | RSE Row Factors |
|---|---|----------------|---------------|----------------|----------------------|----------------|-------------------|----------------|-------------------|----------------|-------------------------|------|-----------------|
|   | (trillion Btu)                                      | (trillion Btu) | (billion kWh) | (trillion Btu) | (billion cubic feet) | (trillion Btu) | (billion gallons) | (trillion Btu) | (billion gallons) | (trillion Btu) | (billion gallons)       |      |                 |
| RSE Column Factors:                         | 0.3   | 0.4            | 0.4           | 0.4            | 0.4                  | 1.9            | 1.9               | 2.7            | 2.8               | 1.8            | 1.8                     |      |                 |
| Pacific Division .....                      | 1,017.0   | 397.6          | 116.5         | 584.6          | 567                  | Q              | Q                 | Q              | Q                 | 18.1           | 0.20                    | 12.6 |                 |
| <b>Climate Zone<sup>2</sup></b>             |   |                |               |                |                      |                |                   |                |                   |                |                         |      |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 140.0   | 93.5           | 27.4          | 44.2           | 44                   | Q              | Q                 | Q              | Q                 | Q              | Q                       | 79.0 |                 |
| Under 5,500 HDD .....                       | 825.2   | 283.3          | 83.0          | 514.4          | 498                  | Q              | Q                 | Q              | Q                 | 12.3           | .13                     | 21.6 |                 |
| 2,000 CDD or More and Under 4,000 HDD ..... | Q   | Q              | Q             | Q              | Q                    | Q              | Q                 | NC             | NC                | 4.9            | .05                     | 27.1 |                 |
| <b>Type of Housing Unit</b>                 |   |                |               |                |                      |                |                   |                |                   |                |                         |      |                 |
| Single-Family .....                         | 761.7   | 302.9          | 88.8          | 430.8          | 418                  | Q              | Q                 | Q              | Q                 | 11.3           | .12                     | 18.9 |                 |
| Mobile Home .....                           | 49.5  | 19.7           | 5.8           | 24.2           | 23                   | NC             | NC                | NC             | NC                | Q              | Q                       | 79.5 |                 |
| Multifamily (2 or more units) .....         | 205.8   | 75.0           | 22.0          | 129.7          | 126                  | NC             | NC                | NC             | NC                | Q              | Q                       | 38.8 |                 |
| <b>Heated Floorspace (square feet)</b>      |   |                |               |                |                      |                |                   |                |                   |                |                         |      |                 |
| Fewer than 1,000 .....                      | 292.9   | 119.3          | 35.0          | 161.3          | 157                  | Q              | Q                 | Q              | Q                 | 12.1           | .13                     | 18.5 |                 |
| 1,000 to 1,999 .....                        | 502.5   | 200.6          | 58.8          | 289.5          | 281                  | Q              | Q                 | Q              | Q                 | 5.6            | .06                     | 21.5 |                 |
| 2,000 or More .....                         | 221.6   | 77.7           | 22.8          | 133.8          | 130                  | Q              | Q                 | Q              | Q                 | Q              | Q                       | 47.3 |                 |
| <b>Ownership of Unit</b>                    |   |                |               |                |                      |                |                   |                |                   |                |                         |      |                 |
| Owned .....                                 | 655.2   | 258.1          | 75.7          | 372.8          | 362                  | Q              | Q                 | Q              | Q                 | 11.1           | .12                     | 18.6 |                 |
| Rented .....                                | 361.8   | 139.5          | 40.9          | 211.8          | 206                  | Q              | Q                 | Q              | Q                 | 7.0            | .08                     | 20.5 |                 |
| <b>Year of Construction</b>                 |   |                |               |                |                      |                |                   |                |                   |                |                         |      |                 |
| 1949 or Before .....                        | 249.4   | 86.3           | 25.3          | 152.0          | 147                  | Q              | Q                 | Q              | Q                 | 3.3            | .04                     | 23.4 |                 |
| 1950 to 1979 .....                          | 555.5   | 223.4          | 65.5          | 311.9          | 302                  | Q              | Q                 | Q              | Q                 | 11.2           | .12                     | 22.8 |                 |
| 1980 or After <sup>3</sup> .....            | 212.1   | 87.9           | 25.8          | 120.6          | 117                  | NC             | NC                | NC             | NC                | 3.6            | .04                     | 38.1 |                 |
| <b>1990 Family Income</b>                   |   |                |               |                |                      |                |                   |                |                   |                |                         |      |                 |
| Less than \$10,000 .....                    | 91.5  | 41.8           | 12.2          | 42.7           | 41                   | NC             | NC                | Q              | Q                 | Q              | Q                       | 43.8 |                 |
| \$10,000 to \$19,999 .....                  | 195.2   | 78.0           | 22.9          | 106.6          | 103                  | Q              | Q                 | NC             | NC                | 3.8            | .04                     | 25.5 |                 |
| \$20,000 to \$34,999 .....                  | 230.4   | 96.4           | 28.3          | 122.6          | 119                  | Q              | Q                 | Q              | Q                 | 4.3            | .05                     | 26.9 |                 |
| \$35,000 or More .....                      | 500.0   | 181.5          | 53.2          | 312.7          | 304                  | Q              | Q                 | Q              | Q                 | Q              | Q                       | 16.7 |                 |
| <b>Below Poverty Line</b>                   |   |                |               |                |                      |                |                   |                |                   |                |                         |      |                 |
| 100 Percent .....                           | 101.4   | 46.8           | 13.7          | 50.0           | 49                   | NC             | NC                | Q              | Q                 | 4.6            | .05                     | 24.5 |                 |
| 125 Percent .....                           | 148.0   | 66.3           | 19.4          | 73.3           | 71                   | NC             | NC                | Q              | Q                 | 8.4            | .09                     | 25.2 |                 |
| <b>Age of Householder</b>                   |   |                |               |                |                      |                |                   |                |                   |                |                         |      |                 |
| Under 35 Years .....                        | 295.7   | 104.2          | 30.5          | 186.5          | 181                  | Q              | Q                 | NC             | NC                | 3.6            | .04                     | 23.9 |                 |
| 35 to 59 Years .....                        | 484.7   | 189.6          | 55.6          | 285.0          | 277                  | Q              | Q                 | Q              | Q                 | 6.2            | .07                     | 17.6 |                 |
| 60 Years and Over .....                     | 236.6   | 103.8          | 30.4          | 113.0          | 109                  | Q              | Q                 | NC             | NC                | Q              | Q                       | 29.7 |                 |
| <b>Household Size</b>                       |   |                |               |                |                      |                |                   |                |                   |                |                         |      |                 |
| 1 Person .....                              | 195.9   | 82.7           | 24.2          | 100.7          | 98                   | Q              | Q                 | Q              | Q                 | Q              | Q                       | 21.4 |                 |
| 2 to 4 Persons .....                        | 660.1   | 247.0          | 72.4          | 398.7          | 387                  | Q              | Q                 | Q              | Q                 | 7.3            | .08                     | 15.6 |                 |
| 5 or More Persons .....                     | 161.0   | 67.9           | 19.9          | 85.2           | 82                   | Q              | Q                 | NC             | NC                | 3.1            | .03                     | 28.2 |                 |

1 Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.  
 2 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.  
 3 Does not include all new construction for 1990.  
 NC = No cases in sample.  
 (\*) = Data cannot be displayed due to rounding.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 Notes: • To obtain the RSE Percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).



**Table 86. Total Expenditures in West Region Households, 1990**  
(Billion Dollars)

| Characteristics                             | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|   | 0.4                               | 0.4         | 0.5         | 2.3      | 3.2      | 1.8                     |                 |
| West Region                                 |                                   |             |             |          |          |                         |                 |
| <b>Total Region</b> .....                   | 17.85                             | 12.50       | 4.80        | Q        | Q        | 0.38                    | 10.7            |
| <b>Climate Zone<sup>2</sup></b>             |                                   |             |             |          |          |                         |                 |
| Under 2,000 HDD .....                       | 4.28                              | 2.85        | 1.25        | Q        | Q        | Q                       | 46.3            |
| Over 5,500 HDD .....                        | 10.98                             | 7.60        | 3.10        | Q        | Q        | .16                     | 20.4            |
| Under 5,500 HDD and 2,000 HDD or More ..... | 2.58                              | 2.05        | .45         | Q        | Q        | .09                     | 42.6            |
| Under 4,000 HDD .....                       |                                   |             |             |          |          |                         |                 |
| <b>Type of Housing Unit</b>                 |                                   |             |             |          |          |                         |                 |
| Single-Family .....                         | 13.69                             | 9.62        | 3.63        | Q        | Q        | .27                     | 14.9            |
| Mobile Home .....                           | .96                               | .61         | .26         | NC       | NC       | Q                       | 55.0            |
| Multifamily (2 or more units) .....         | 3.20                              | 2.27        | .91         | NC       | NC       | Q                       | 30.0            |
| <b>Heated Floorspace (square feet)</b>      |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                      | 5.13                              | 3.60        | 1.33        | Q        | Q        | .19                     | 16.6            |
| 1,000 to 1,999 .....                        | 8.80                              | 6.28        | 2.32        | 0.06     | Q        | .13                     | 18.0            |
| 2,000 or More .....                         | 3.91                              | 2.62        | 1.15        | Q        | Q        | Q                       | 31.2            |
| <b>Ownership of Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Owned .....                                 | 12.11                             | 8.46        | 3.26        | .13      | (*)      | .25                     | 15.1            |
| Rented .....                                | 5.74                              | 4.04        | 1.54        | Q        | Q        | .13                     | 16.6            |
| <b>Year of Construction</b>                 |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                        | 3.85                              | 2.38        | 1.30        | .08      | Q        | .09                     | 21.5            |
| 1950 to 1979 .....                          | 9.75                              | 6.86        | 2.60        | Q        | Q        | .20                     | 17.2            |
| 1980 or After <sup>3</sup> .....            | 4.25                              | 3.26        | .90         | NC       | Q        | .09                     | 29.6            |
| <b>1990 Family Income</b>                   |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                    | 1.78                              | 1.20        | .45         | Q        | Q        | Q                       | 32.9            |
| \$10,000 to \$19,999 .....                  | 3.24                              | 2.24        | .89         | Q        | NC       | .05                     | 22.4            |
| \$20,000 to \$34,999 .....                  | 4.28                              | 2.93        | 1.16        | Q        | Q        | .12                     | 22.2            |
| \$35,000 or More .....                      | 8.54                              | 6.13        | 2.30        | Q        | Q        | .08                     | 16.0            |
| <b>Below Poverty Line</b>                   |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                           | 1.92                              | 1.37        | .46         | NC       | Q        | .09                     | 27.6            |
| 125 Percent .....                           | 2.82                              | 1.97        | .70         | Q        | Q        | .14                     | 24.9            |
| <b>Age of Householder</b>                   |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                        | 5.13                              | 3.54        | 1.50        | Q        | NC       | .08                     | 21.5            |
| 35 to 59 Years .....                        | 8.45                              | 5.98        | 2.27        | Q        | Q        | .13                     | 14.7            |
| 60 Years and Over .....                     | 4.27                              | 2.98        | 1.03        | .09      | Q        | .17                     | 23.9            |
| <b>Household Size</b>                       |                                   |             |             |          |          |                         |                 |
| 1 Person .....                              | 3.27                              | 2.23        | .87         | Q        | Q        | Q                       | 19.1            |
| 2 to 4 Persons .....                        | 11.42                             | 7.98        | 3.17        | Q        | Q        | .21                     | 11.8            |
| 5 or More Persons .....                     | 3.15                              | 2.29        | .76         | Q        | Q        | .06                     | 25.1            |

See footnotes at end of table.

**Table 86. Total Expenditures in West Region Households, 1990 (Continued)**  
(Billion Dollars)

| Characteristics                           | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
| RSE Column Factors:                       | 0.4                               | 0.4         | 0.5         | 2.3      | 3.2      | 1.8                     |                 |
| <b>Mountain Division</b> .....            | 4.86                              | 3.12        | 1.57        | Q        | Q        | Q                       | 21.7            |
| <b>Climate Zone<sup>2</sup></b>           |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and                       |                                   |             |             |          |          |                         |                 |
| Over 5,500 HDD .....                      | 2.75                              | 1.53        | 1.07        | Q        | Q        | Q                       | 45.2            |
| Under 5,500 HDD .....                     | .48                               | .27         | .20         | NC       | NC       | Q                       | 109.0           |
| 2,000 CDD or More and                     |                                   |             |             |          |          |                         |                 |
| Under 4,000 HDD .....                     | 1.63                              | 1.32        | .30         | NC       | Q        | Q                       | 27.1            |
| <b>Type of Housing Unit</b>               |                                   |             |             |          |          |                         |                 |
| Single-Family .....                       | 3.81                              | 2.41        | 1.25        | Q        | Q        | Q                       | 21.1            |
| Mobile Home .....                         | .39                               | .24         | .13         | NC       | NC       | Q                       | 70.8            |
| Multifamily (2 or more units) ...         | .66                               | .47         | .19         | NC       | NC       | NC                      | 66.7            |
| <b>Heated Floorspace</b><br>(square feet) |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                    | 1.31                              | .83         | .45         | Q        | NC       | Q                       | 42.2            |
| 1,000 to 1,999 .....                      | 2.41                              | 1.60        | .75         | Q        | Q        | Q                       | 26.0            |
| 2,000 or More .....                       | 1.13                              | .69         | .38         | Q        | Q        | Q                       | 46.4            |
| <b>Ownership of Unit</b>                  |                                   |             |             |          |          |                         |                 |
| Owned .....                               | 3.56                              | 2.23        | 1.20        | Q        | Q        | Q                       | 25.8            |
| Rented .....                              | 1.29                              | .89         | .37         | NC       | NC       | Q                       | 29.7            |
| <b>Year of Construction</b>               |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                      | 1.08                              | .56         | .46         | Q        | Q        | Q                       | 49.0            |
| 1950 to 1979 .....                        | 2.52                              | 1.60        | .87         | Q        | Q        | Q                       | 22.3            |
| 1980 or After <sup>3</sup> .....          | 1.25                              | .96         | .25         | NC       | Q        | Q                       | 54.0            |
| <b>1990 Family Income</b>                 |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                  | .68                               | .43         | .21         | Q        | NC       | Q                       | 58.2            |
| \$10,000 to \$19,999 .....                | .93                               | .61         | .32         | NC       | NC       | Q                       | 39.7            |
| \$20,000 to \$34,999 .....                | 1.32                              | .77         | .48         | Q        | Q        | Q                       | 38.4            |
| \$35,000 or More .....                    | 1.93                              | 1.32        | .56         | Q        | Q        | Q                       | 25.4            |
| <b>Below Poverty Line</b>                 |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                         | .61                               | .41         | .17         | NC       | NC       | Q                       | 69.8            |
| 125 Percent .....                         | .92                               | .59         | .29         | Q        | NC       | Q                       | 54.5            |
| <b>Age of Householder</b>                 |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                      | 1.48                              | .97         | .47         | NC       | NC       | Q                       | 29.9            |
| 35 to 59 Years .....                      | 2.22                              | 1.46        | .69         | Q        | Q        | Q                       | 26.6            |
| 60 Years and Over .....                   | 1.16                              | .69         | .41         | Q        | Q        | Q                       | 40.5            |
| <b>Household Size</b>                     |                                   |             |             |          |          |                         |                 |
| 1 Person .....                            | .85                               | .50         | .32         | Q        | Q        | Q                       | 35.7            |
| 2 to 4 Persons .....                      | 3.19                              | 2.10        | .98         | Q        | Q        | Q                       | 21.4            |
| 5 or More Persons .....                   | .82                               | .52         | .27         | Q        | Q        | Q                       | 51.6            |

See footnotes at end of table.

**Table 86. Total Expenditures in West Region Households, 1990 (Continued)**  
(Billion Dollars)

| Characteristics                        | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|--|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|  | RSE Column Factors:               | 0.4         | 0.4         | 0.5      | 2.3      | 3.2                     |                 |
| <b>Pacific Division</b> .....          | 12.99                             | 9.38        | 3.23        | Q        | Q        | 0.25                    | 13.4            |
| <b>Climate Zone<sup>2</sup></b>        |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and                    |                                   |             |             |          |          |                         |                 |
| Over 5,500 HDD .....                   | 1.53                              | 1.32        | .18         | Q        | Q        | Q                       | 84.7            |
| Under 5,500 HDD .....                  | 10.51                             | 7.33        | 2.90        | Q        | Q        | .16                     | 20.6            |
| 2,000 CDD or More and                  |                                   |             |             |          |          |                         |                 |
| Under 4,000 HDD .....                  | Q                                 | .72         | Q           | Q        | NC       | .08                     | 47.9            |
| <b>Type of Housing Unit</b>            |                                   |             |             |          |          |                         |                 |
| Single-Family .....                    | 9.89                              | 7.21        | 2.38        | Q        | Q        | .17                     | 19.3            |
| Mobile Home .....                      | .57                               | .37         | .13         | NC       | NC       | Q                       | 79.3            |
| Multifamily (2 or more units) ...      | 2.54                              | 1.80        | .72         | NC       | NC       | Q                       | 32.5            |
| <b>Heated Floorspace (square feet)</b> |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                 | 3.82                              | 2.77        | .89         | Q        | Q        | .17                     | 18.4            |
| 1,000 to 1,999 .....                   | 6.39                              | 4.68        | 1.57        | Q        | Q        | .08                     | 22.0            |
| 2,000 or More .....                    | 2.78                              | 1.93        | .77         | Q        | Q        | Q                       | 41.0            |
| <b>Ownership of Unit</b>               |                                   |             |             |          |          |                         |                 |
| Owned .....                            | 8.55                              | 6.23        | 2.06        | Q        | Q        | .15                     | 17.7            |
| Rented .....                           | 4.44                              | 3.15        | 1.16        | Q        | Q        | .10                     | 18.8            |
| <b>Year of Construction</b>            |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                   | 2.77                              | 1.82        | .84         | Q        | Q        | .05                     | 24.6            |
| 1950 to 1979 .....                     | 7.22                              | 5.26        | 1.73        | Q        | Q        | .15                     | 21.8            |
| 1980 or After <sup>3</sup> .....       | 2.99                              | 2.30        | .65         | NC       | NC       | .05                     | 35.9            |
| <b>1990 Family Income</b>              |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....               | 1.10                              | .77         | .23         | NC       | Q        | Q                       | 37.4            |
| \$10,000 to \$19,999 .....             | 2.31                              | 1.64        | .58         | Q        | NC       | Q                       | 27.4            |
| \$20,000 to \$34,999 .....             | 2.96                              | 2.16        | .68         | Q        | Q        | .07                     | 25.7            |
| \$35,000 or More .....                 | 6.61                              | 4.81        | 1.74        | Q        | Q        | .04                     | 18.8            |
| <b>Below Poverty Line</b>              |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                      | 1.31                              | .96         | .28         | NC       | Q        | .06                     | 26.8            |
| 125 Percent .....                      | 1.90                              | 1.38        | .41         | NC       | Q        | .11                     | 27.7            |
| <b>Age of Householder</b>              |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                   | 3.65                              | 2.57        | 1.02        | Q        | NC       | .05                     | 23.9            |
| 35 to 59 Years .....                   | 6.23                              | 4.52        | 1.58        | Q        | Q        | .09                     | 18.6            |
| 60 Years and Over .....                | 3.11                              | 2.29        | .62         | Q        | NC       | Q                       | 32.5            |
| <b>Household Size</b>                  |                                   |             |             |          |          |                         |                 |
| 1 Person .....                         | 2.42                              | 1.73        | .55         | Q        | Q        | Q                       | 23.6            |
| 2 to 4 Persons .....                   | 8.23                              | 5.88        | 2.19        | Q        | Q        | .11                     | 15.0            |
| 5 or More Persons .....                | 2.34                              | 1.77        | .49         | Q        | NC       | Q                       | 30.9            |

<sup>1</sup> Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>3</sup> Does not include all new construction for 1990.

NC = No cases in sample.

(\*) = Data cannot be displayed due to rounding.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 87. Electricity Consumption and Expenditures in West Region Households, 1990**

| Characteristics                             | Households Using Electricity (million) | Average per Household |        |                        |                          | Expenditures (cents per kWh) | RSE Row Factors |
|---|--|-----------------------|--------|------------------------|--------------------------|------------------------------|-----------------|
|   |  | Consumption           |        | Expenditures (dollars) | Floorspace (square feet) |                              |                 |
|   |  | (million Btu)         | (kWh)  |                        |                          |                              |                 |
| RSE Column Factors:                         | 1.3                                    | 1.1                   | 1.1    | 1.0                    | 0.7                      | 0.8                          |                 |
| <b>West Region</b>                          |  |                       |        |                        |                          |                              |                 |
| <b>Total Region</b> .....                   | 19.4                                   | 27.8                  | 8,162  | 645                    | 1,522                    | 7.9                          | 3.9             |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |        |                        |                          |                              |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 4.7                                    | 36.7                  | 10,763 | 605                    | 1,698                    | 5.6                          | 11.4            |
| Under 5,500 HDD .....                       | 12.3                                   | 23.9                  | 7,007  | 615                    | 1,495                    | 8.8                          | 6.2             |
| 2,000 CDD or More and Under 4,000 HDD ..... | 2.3                                    | 30.8                  | 9,093  | 886                    | 1,308                    | 9.8                          | 5.8             |
| <b>Type of Housing Unit</b>                 |  |                       |        |                        |                          |                              |                 |
| Single-Family .....                         | 12.7                                   | 32.5                  | 9,528  | 755                    | 1,868                    | 7.9                          | 4.1             |
| Mobile Home .....                           | 1.2                                    | 26.7                  | 7,827  | 510                    | 993                      | 6.5                          | 13.9            |
| Multifamily ( 2 or more units) ..           | 5.4                                    | 17.2                  | 5,036  | 417                    | 829                      | 8.3                          | 7.0             |
| <b>Heated Floorspace (square feet)</b>      |  |                       |        |                        |                          |                              |                 |
| Fewer than 1,000 .....                      | 8.0                                    | 19.2                  | 5,623  | 451                    | 767                      | 8.0                          | 4.4             |
| 1,000 to 1,999 .....                        | 8.5                                    | 32.1                  | 9,407  | 734                    | 1,689                    | 7.8                          | 4.4             |
| 2,000 or More .....                         | 2.8                                    | 39.4                  | 11,536 | 922                    | 3,135                    | 8.0                          | 6.3             |
| <b>Ownership of Unit</b>                    |  |                       |        |                        |                          |                              |                 |
| Owned .....                                 | 11.3                                   | 32.2                  | 9,446  | 750                    | 1,931                    | 7.9                          | 4.0             |
| Rented .....                                | 8.1                                    | 21.7                  | 6,372  | 499                    | 952                      | 7.8                          | 4.9             |
| <b>Year of Construction</b>                 |  |                       |        |                        |                          |                              |                 |
| 1949 or Before .....                        | 4.6                                    | 24.5                  | 7,182  | 514                    | 1,508                    | 7.2                          | 7.2             |
| 1950 to 1979 .....                          | 10.8                                   | 27.6                  | 8,086  | 638                    | 1,428                    | 7.9                          | 4.1             |
| 1980 or After? .....                        | 4.0                                    | 32.4                  | 9,506  | 817                    | 1,792                    | 8.6                          | 5.7             |
| <b>1990 Family Income</b>                   |  |                       |        |                        |                          |                              |                 |
| Less than \$10,000 .....                    | 2.9                                    | 20.9                  | 6,122  | 418                    | 894                      | 6.8                          | 9.6             |
| \$10,000 to \$19,999 .....                  | 4.3                                    | 24.1                  | 7,072  | 525                    | 1,226                    | 7.4                          | 5.3             |
| \$20,000 to \$34,999 .....                  | 5.0                                    | 26.6                  | 7,801  | 582                    | 1,405                    | 7.5                          | 6.6             |
| \$35,000 or More .....                      | 7.2                                    | 33.7                  | 9,876  | 852                    | 2,030                    | 8.6                          | 3.5             |
| <b>Below Poverty Line</b>                   |  |                       |        |                        |                          |                              |                 |
| 100 Percent .....                           | 2.7                                    | 23.8                  | 6,983  | 504                    | 984                      | 7.2                          | 8.8             |
| 125 Percent .....                           | 3.8                                    | 24.2                  | 7,082  | 516                    | 1,035                    | 7.3                          | 7.4             |
| <b>Age of Householder</b>                   |  |                       |        |                        |                          |                              |                 |
| Under 35 Years .....                        | 6.4                                    | 23.0                  | 6,747  | 555                    | 1,187                    | 8.2                          | 5.1             |
| 35 to 59 Years .....                        | 8.0                                    | 32.2                  | 9,435  | 744                    | 1,739                    | 7.9                          | 4.2             |
| 60 Years and Over .....                     | 4.9                                    | 27.0                  | 7,918  | 602                    | 1,602                    | 7.6                          | 5.1             |
| <b>Household Size</b>                       |  |                       |        |                        |                          |                              |                 |
| 1 Person .....                              | 4.9                                    | 20.9                  | 6,127  | 452                    | 1,193                    | 7.4                          | 5.1             |
| 2 to 4 Persons .....                        | 11.8                                   | 29.1                  | 8,541  | 676                    | 1,612                    | 7.9                          | 3.5             |
| 5 or More Persons .....                     | 2.6                                    | 35.1                  | 10,287 | 872                    | 1,737                    | 8.5                          | 6.2             |

See footnotes at end of table.

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Table 87. Electricity Consumption and Expenditures in West Region Households, 1990 (Continued)

| Characteristics                             | Households Using Electricity (million) | Average per Household |        |                        |                          | RSE Row Factors |                              |
|---|--|-----------------------|--------|------------------------|--------------------------|-----------------|------------------------------|
|   |  | Consumption           |        | Expenditures (dollars) | Floorspace (square feet) |                 |                              |
|   |  | (million Btu)         | (kWh)  |                        |                          |                 | Expenditures (cents per kWh) |
| RSE Column Factors:                         | 1.3                                    | 1.1                   | 1.1    | 1.0                    | 0.7                      | 0.8             |                              |
| Mountain Division .....                     | 4.8                                    | 29.3                  | 8,578  | 644                    | 1,614                    | 7.5             | 6.4                          |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |        |                        |                          |                 |                              |
| Under 2,000 CDD and Over 5,500 HDD .....    | 2.9                                    | 27.2                  | 7,982  | 524                    | 1,799                    | 6.6             | 11.7                         |
| Under 5,500 HDD .....                       | .5                                     | 23.1                  | 6,774  | 520                    | 1,270                    | 7.7             | 15.6                         |
| 2,000 CDD or More and Under 4,000 HDD ..... | 1.4                                    | 35.7                  | 10,468 | 938                    | 1,357                    | 9.0             | 4.2                          |
| <b>Type of Housing Unit</b>                 |  |                       |        |                        |                          |                 |                              |
| Single-Family .....                         | 3.5                                    | 32.0                  | 9,393  | 696                    | 1,922                    | 7.4             | 6.7                          |
| Mobile Home .....                           | .5                                     | 24.9                  | 7,298  | 483                    | 997                      | 6.6             | 21.5                         |
| Multifamily ( 2 or more units) ..           | .9                                     | 20.8                  | 6,095  | 532                    | 750                      | 8.7             | 14.1                         |
| <b>Heated Floorspace (square feet)</b>      |  |                       |        |                        |                          |                 |                              |
| Fewer than 1,000 .....                      | 1.7                                    | 20.0                  | 5,867  | 495                    | 745                      | 8.4             | 8.6                          |
| 1,000 to 1,999 .....                        | 2.3                                    | 32.2                  | 9,435  | 697                    | 1,660                    | 7.4             | 6.3                          |
| 2,000 or More .....                         | .9                                     | 39.5                  | 11,578 | 795                    | 3,179                    | 6.9             | 10.3                         |
| <b>Ownership of Unit</b>                    |  |                       |        |                        |                          |                 |                              |
| Owned .....                                 | 3.3                                    | 31.8                  | 9,318  | 673                    | 1,920                    | 7.2             | 7.5                          |
| Rented .....                                | 1.5                                    | 23.8                  | 6,978  | 583                    | 953                      | 8.4             | 6.1                          |
| <b>Year of Construction</b>                 |  |                       |        |                        |                          |                 |                              |
| 1949 or Before .....                        | 1.2                                    | 23.4                  | 6,861  | 485                    | 1,520                    | 7.1             | 12.0                         |
| 1950 to 1979 .....                          | 2.5                                    | 28.8                  | 8,430  | 628                    | 1,536                    | 7.5             | 7.3                          |
| 1980 or After <sup>2</sup> .....            | 1.1                                    | 36.4                  | 10,662 | 843                    | 1,884                    | 7.9             | 7.9                          |
| <b>1990 Family Income</b>                   |  |                       |        |                        |                          |                 |                              |
| Less than \$10,000 .....                    | .9                                     | 21.3                  | 6,231  | 495                    | 1,080                    | 7.9             | 11.4                         |
| \$10,000 to \$19,999 .....                  | 1.0                                    | 24.8                  | 7,274  | 601                    | 1,206                    | 8.3             | 8.7                          |
| \$20,000 to \$34,999 .....                  | 1.4                                    | 27.1                  | 7,928  | 556                    | 1,581                    | 7.0             | 10.5                         |
| \$35,000 or More .....                      | 1.6                                    | 38.4                  | 11,244 | 830                    | 2,191                    | 7.4             | 6.3                          |
| <b>Below Poverty Line</b>                   |  |                       |        |                        |                          |                 |                              |
| 100 Percent .....                           | .7                                     | 25.7                  | 7,538  | 586                    | 1,143                    | 7.8             | 14.0                         |
| 125 Percent .....                           | 1.0                                    | 25.0                  | 7,327  | 569                    | 1,169                    | 7.8             | 11.6                         |
| <b>Age of Householder</b>                   |  |                       |        |                        |                          |                 |                              |
| Under 35 Years .....                        | 1.5                                    | 27.7                  | 8,131  | 632                    | 1,360                    | 7.8             | 5.8                          |
| 35 to 59 Years .....                        | 2.1                                    | 32.9                  | 9,628  | 693                    | 1,776                    | 7.2             | 8.3                          |
| 60 Years and Over .....                     | 1.2                                    | 24.9                  | 7,300  | 575                    | 1,655                    | 7.9             | 10.2                         |
| <b>Household Size</b>                       |  |                       |        |                        |                          |                 |                              |
| 1 Person .....                              | 1.2                                    | 17.6                  | 5,150  | 428                    | 1,291                    | 8.3             | 9.4                          |
| 2 to 4 Persons .....                        | 3.0                                    | 32.4                  | 9,493  | 700                    | 1,678                    | 7.4             | 6.5                          |
| 5 or More Persons .....                     | .7                                     | 35.6                  | 10,431 | 768                    | 1,863                    | 7.4             | 10.2                         |

See footnotes at end of table.

**Table 87. Electricity Consumption and Expenditures in West Region Households, 1990 (Continued)**

| Characteristics                             | Households Using Electricity (million) | Average per Household |        |     | Expenditures (dollars) | Floor/space (square feet) | Expenditures (cents per kWh) | RSE Row Factors |
|---|--|-----------------------|--------|-----|------------------------|---------------------------|------------------------------|-----------------|
|   |  | Consumption           |        |     |                        |                           |                              |                 |
| RSE Column Factors:                         |  | (million Btu)         | (kWh)  |     |                        |                           |                              |                 |
| Pacific Division .....                      | 14.5                                   | 27.4                  | 8,023  | 646 | 1,491                  | 8.0                       | 3.8                          |                 |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |        |     |                        |                           |                              |                 |
| Under 2,000 HDD .....                       |  |                       |        |     |                        |                           |                              |                 |
| Over 5,500 HDD .....                        | 1.8                                    | 52.2                  | 15,288 | 737 | 1,533                  | 4.8                       | 15.2                         |                 |
| Under 5,500 HDD .....                       | 11.8                                   | 23.9                  | 7,017  | 620 | 1,505                  | 8.8                       | 6.4                          |                 |
| 2,000 HDD or More and Under 4,000 HDD ..... | .9                                     | 23.1                  | 6,780  | 805 | 1,229                  | 11.9                      | 13.2                         |                 |
| <b>Type of Housing Unit</b>                 |  |                       |        |     |                        |                           |                              |                 |
| Single-Family .....                         | 9.3                                    | 32.7                  | 9,578  | 777 | 1,847                  | 8.1                       | 5.0                          |                 |
| Mobile Home .....                           | .7                                     | 28.0                  | 8,193  | 529 | 989                    | 6.5                       | 18.6                         |                 |
| Multifamily (2 or more units) ..            | 4.6                                    | 16.5                  | 4,830  | 395 | 845                    | 8.2                       | 7.5                          |                 |
| <b>Heated Floorspace (square feet)</b>      |  |                       |        |     |                        |                           |                              |                 |
| Fewer than 1,000 .....                      | 6.3                                    | 19.0                  | 5,558  | 440 | 773                    | 7.9                       | 4.9                          |                 |
| 1,000 to 1,999 .....                        | 6.3                                    | 32.1                  | 9,397  | 748 | 1,700                  | 8.0                       | 5.5                          |                 |
| 2,000 or More .....                         | 2.0                                    | 39.3                  | 11,518 | 977 | 3,116                  | 8.5                       | 7.4                          |                 |
| <b>Ownership of Unit</b>                    |  |                       |        |     |                        |                           |                              |                 |
| Owned .....                                 | 8.0                                    | 32.4                  | 9,500  | 783 | 1,936                  | 8.2                       | 4.6                          |                 |
| Rented .....                                | 6.6                                    | 21.3                  | 6,231  | 479 | 951                    | 7.7                       | 5.9                          |                 |
| <b>Year of Construction</b>                 |  |                       |        |     |                        |                           |                              |                 |
| 1949 or Before .....                        | 3.5                                    | 24.9                  | 7,289  | 524 | 1,504                  | 7.2                       | 8.4                          |                 |
| 1950 to 1979 .....                          | 8.2                                    | 27.2                  | 7,979  | 641 | 1,394                  | 8.0                       | 4.8                          |                 |
| 1980 or After <sup>2</sup> .....            | 2.8                                    | 30.9                  | 9,045  | 807 | 1,755                  | 8.9                       | 7.6                          |                 |
| <b>1990 Family Income</b>                   |  |                       |        |     |                        |                           |                              |                 |
| Less than \$10,000 .....                    | 2.0                                    | 20.7                  | 6,075  | 385 | 815                    | 6.3                       | 11.7                         |                 |
| \$10,000 to \$19,999 .....                  | 3.3                                    | 23.9                  | 7,009  | 502 | 1,233                  | 7.2                       | 6.4                          |                 |
| \$20,000 to \$34,999 .....                  | 3.6                                    | 26.5                  | 7,753  | 592 | 1,339                  | 7.6                       | 8.2                          |                 |
| \$35,000 or More .....                      | 5.6                                    | 32.4                  | 9,488  | 858 | 1,984                  | 9.0                       | 4.1                          |                 |
| <b>Below Poverty Line</b>                   |  |                       |        |     |                        |                           |                              |                 |
| 100 Percent .....                           | 2.0                                    | 23.2                  | 6,792  | 476 | 929                    | 7.0                       | 10.5                         |                 |
| 125 Percent .....                           | 2.8                                    | 23.9                  | 6,991  | 496 | 985                    | 7.1                       | 9.1                          |                 |
| <b>Age of Householder</b>                   |  |                       |        |     |                        |                           |                              |                 |
| Under 35 Years .....                        | 4.8                                    | 21.5                  | 6,307  | 530 | 1,132                  | 8.4                       | 6.5                          |                 |
| 35 to 59 Years .....                        | 5.9                                    | 32.0                  | 9,387  | 762 | 1,726                  | 8.1                       | 4.8                          |                 |
| 60 Years and Over .....                     | 3.7                                    | 27.7                  | 8,115  | 611 | 1,585                  | 7.5                       | 5.7                          |                 |
| <b>Household Size</b>                       |  |                       |        |     |                        |                           |                              |                 |
| 1 Person .....                              | 3.8                                    | 21.9                  | 6,429  | 460 | 1,162                  | 7.1                       | 5.8                          |                 |
| 2 to 4 Persons .....                        | 8.8                                    | 28.0                  | 8,217  | 667 | 1,589                  | 8.1                       | 4.2                          |                 |
| 5 or More Persons .....                     | 1.9                                    | 34.9                  | 10,236 | 909 | 1,686                  | 8.9                       | 7.4                          |                 |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 88. Natural Gas Consumption and Expenditures in West Region Households, 1990

| Characteristics                             | Households Using Natural Gas (million) | Average per Household |               |                        |                          | RSE Row Factors |
|---|--|-----------------------|---------------|------------------------|--------------------------|-----------------|
|   |  | Consumption           |               | Expenditures (dollars) | Floorspace (square feet) |                 |
|   |  | (million Btu)         | (thousand cf) |                        |                          |                 |
| RSE Column Factors:                         | 1.8                                    | 1.1                   | 1.1           | 0.9                    | 1.0                      | 0.6             |
| West Region                                 |  |                       |               |                        |                          |                 |
| Total Region .....                          | 13.7                                   | 67.0                  | 65.0          | 350                    | 1,561                    | 5.4             |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |               |                        |                          |                 |
| Under 2,000 HDD and Over 5,500 HDD .....    | 2.8                                    | 109.1                 | 106.5         | 453                    | 1,775                    | 4.3             |
| Under 5,500 HDD .....                       | 9.7                                    | 56.8                  | 55.0          | 321                    | 1,524                    | 5.8             |
| 2,000 HDD or More and Under 4,000 HDD ..... | 1.3                                    | 53.0                  | 51.5          | 349                    | 1,372                    | 6.8             |
| <b>Type of Housing Unit</b>                 |  |                       |               |                        |                          |                 |
| Single-Family .....                         | 8.9                                    | 77.7                  | 75.5          | 406                    | 1,939                    | 5.4             |
| Mobile Home .....                           | .7                                     | 72.2                  | 69.9          | 363                    | 984                      | 5.2             |
| Multifamily (2 or more units) ..            | 4.1                                    | 42.3                  | 41.0          | 224                    | 828                      | 5.5             |
| <b>Heated Floorspace (square feet)</b>      |  |                       |               |                        |                          |                 |
| Fewer than 1,000 .....                      | 5.3                                    | 47.8                  | 46.4          | 251                    | 742                      | 5.4             |
| 1,000 to 1,999 .....                        | 6.2                                    | 71.9                  | 69.8          | 376                    | 1,685                    | 5.4             |
| 2,000 or More .....                         | 2.2                                    | 98.9                  | 95.9          | 513                    | 3,164                    | 5.4             |
| <b>Ownership of Unit</b>                    |  |                       |               |                        |                          |                 |
| Owned .....                                 | 8.2                                    | 76.7                  | 74.5          | 398                    | 1,992                    | 5.3             |
| Rented .....                                | 5.5                                    | 52.5                  | 50.9          | 278                    | 921                      | 5.5             |
| <b>Year of Construction</b>                 |  |                       |               |                        |                          |                 |
| 1949 or Before .....                        | 3.4                                    | 75.2                  | 73.2          | 379                    | 1,466                    | 5.2             |
| 1950 to 1979 .....                          | 7.7                                    | 63.7                  | 61.7          | 338                    | 1,464                    | 5.5             |
| 1980 or After <sup>2</sup> .....            | 2.6                                    | 65.9                  | 63.8          | 347                    | 1,976                    | 5.4             |
| <b>1990 Family Income</b>                   |  |                       |               |                        |                          |                 |
| Less than \$10,000 .....                    | 1.6                                    | 53.3                  | 51.8          | 273                    | 853                      | 5.3             |
| \$10,000 to \$19,999 .....                  | 2.9                                    | 56.0                  | 56.1          | 305                    | 1,167                    | 5.4             |
| \$20,000 to \$34,999 .....                  | 3.4                                    | 67.5                  | 65.5          | 340                    | 1,387                    | 5.2             |
| \$35,000 or More .....                      | 5.7                                    | 75.2                  | 73.0          | 401                    | 2,069                    | 5.5             |
| <b>Below Poverty Line</b>                   |  |                       |               |                        |                          |                 |
| 100 Percent .....                           | 1.6                                    | 55.7                  | 54.2          | 293                    | 961                      | 5.4             |
| 125 Percent .....                           | 2.2                                    | 59.6                  | 57.8          | 313                    | 1,025                    | 5.4             |
| <b>Age of Householder</b>                   |  |                       |               |                        |                          |                 |
| Under 35 Years .....                        | 4.9                                    | 57.6                  | 55.8          | 303                    | 1,209                    | 5.4             |
| 35 to 59 Years .....                        | 5.6                                    | 76.8                  | 74.7          | 403                    | 1,814                    | 5.4             |
| 60 Years and Over .....                     | 3.1                                    | 64.0                  | 62.0          | 329                    | 1,660                    | 5.3             |
| <b>Household Size</b>                       |  |                       |               |                        |                          |                 |
| 1 Person .....                              | 3.2                                    | 52.8                  | 51.6          | 269                    | 1,220                    | 5.2             |
| 2 to 4 Persons .....                        | 8.6                                    | 70.3                  | 68.3          | 367                    | 1,658                    | 5.4             |
| 5 or More Persons .....                     | 1.8                                    | 76.0                  | 73.1          | 412                    | 1,698                    | 5.6             |

See footnotes at end of table.

ENERGY CONSUMPTION AND EXPENDITURES

Table 88. Natural Gas Consumption and Expenditures in West Region Households, 1990 (Continued)

| Characteristics                             | Households Using Natural Gas (million) | Average per Household     |                            |                          | Expenditures (dollars per thousand cf) | RSE Row Factors |
|---|--|---------------------------|----------------------------|--------------------------|--|-----------------|
|   |  | Consumption (million Btu) | Expenditures (thousand cf) | Floorspace (square feet) |  |                 |
| RSE Column Factors:                         | 1.8                                    | 1.1                       | 1.1                        | 0.9                      | 1.0                                    | 0.8             |
| Mountain Division .....                     | 3.8                                    | 88.6                      | 86.1                       | 417                      | 1,593                                  | 4.8             |
| <b>Climate Zone<sup>1</sup></b>             |  |                           |                            |                          |  |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 2.4                                    | 104.9                     | 102.3                      | 437                      | 1,729                                  | 4.3             |
| Under 5,500 HDD .....                       | .5                                     | 72.6                      | 68.9                       | 415                      | 1,280                                  | 6.0             |
| 2,000 CDD or More and Under 4,000 HDD ..... | .8                                     | 50.2                      | 48.7                       | 359                      | 1,379                                  | 7.4             |
| <b>Type of Housing Unit</b>                 |  |                           |                            |                          |  |                 |
| Single-Family .....                         | 2.8                                    | 95.5                      | 92.8                       | 452                      | 1,866                                  | 4.9             |
| Mobile Home .....                           | .4                                     | 79.7                      | 71.2                       | 350                      | 958                                    | 4.9             |
| Multifamily (2 or more units) .....         | .6                                     | 67.1                      | 64.9                       | 301                      | 758                                    | 4.6             |
| <b>Heated Floorspace (square feet)</b>      |  |                           |                            |                          |  |                 |
| Fewer than 1,000 .....                      | 1.3                                    | 68.7                      | 66.8                       | 331                      | 756                                    | 5.0             |
| 1,000 to 1,999 .....                        | 1.7                                    | 88.7                      | 86.1                       | 429                      | 1,631                                  | 5.0             |
| 2,000 or More .....                         | .7                                     | 127.9                     | 124.2                      | 557                      | 3,157                                  | 4.5             |
| <b>Ownership of Unit</b>                    |  |                           |                            |                          |  |                 |
| Owned .....                                 | 2.7                                    | 95.8                      | 93.0                       | 449                      | 1,872                                  | 4.8             |
| Rented .....                                | 1.1                                    | 71.2                      | 69.1                       | 340                      | 913                                    | 4.9             |
| <b>Year of Construction</b>                 |  |                           |                            |                          |  |                 |
| 1949 or Before .....                        | 1.0                                    | 105.2                     | 103.0                      | 453                      | 1,467                                  | 4.4             |
| 1950 to 1979 .....                          | 2.1                                    | 84.4                      | 81.9                       | 410                      | 1,512                                  | 5.0             |
| 1980 or After <sup>2</sup> .....            | .6                                     | 76.6                      | 73.4                       | 382                      | 2,057                                  | 5.2             |
| <b>1990 Family Income</b>                   |  |                           |                            |                          |  |                 |
| Less than \$10,000 .....                    | .6                                     | 74.1                      | 72.2                       | 354                      | 1,098                                  | 4.9             |
| \$10,000 to \$19,999 .....                  | .8                                     | 76.7                      | 74.2                       | 386                      | 1,220                                  | 5.2             |
| \$20,000 to \$34,999 .....                  | 1.1                                    | 95.8                      | 93.2                       | 428                      | 1,526                                  | 4.6             |
| \$35,000 or More .....                      | 1.2                                    | 97.3                      | 94.5                       | 459                      | 2,156                                  | 4.9             |
| <b>Below Poverty Line</b>                   |  |                           |                            |                          |  |                 |
| 100 Percent .....                           | .4                                     | 83.3                      | 81.1                       | 394                      | 1,157                                  | 4.9             |
| 125 Percent .....                           | .7                                     | 83.8                      | 81.2                       | 404                      | 1,193                                  | 5.0             |
| <b>Age of Householder</b>                   |  |                           |                            |                          |  |                 |
| Under 35 Years .....                        | 1.2                                    | 83.5                      | 80.6                       | 401                      | 1,406                                  | 5.0             |
| 35 to 59 Years .....                        | 1.6                                    | 93.7                      | 91.4                       | 437                      | 1,731                                  | 4.8             |
| 60 Years and Over .....                     | 1.0                                    | 86.7                      | 84.1                       | 404                      | 1,596                                  | 4.8             |
| <b>Household Size</b>                       |  |                           |                            |                          |  |                 |
| 1 Person .....                              | 1.0                                    | 70.6                      | 69.3                       | 325                      | 1,343                                  | 4.7             |
| 2 to 4 Persons .....                        | 2.2                                    | 93.9                      | 91.3                       | 440                      | 1,636                                  | 4.8             |
| 5 or More Persons .....                     | .5                                     | 99.7                      | 95.0                       | 488                      | 1,870                                  | 5.1             |

See footnotes at end of table.

WEST



Table 88. Natural Gas Consumption and Expenditures in West Region Households, 1990 (Continued)

| Characteristics                             | Households Using Natural Gas (million) | Average per Household |               |                        |                          | Expenditures (dollars per thousand cf) | RSE Row Factors |
|---|--|-----------------------|---------------|------------------------|--------------------------|--|-----------------|
|   |  | Consumption           |               | Expenditures (dollars) | Floorspace (square feet) |  |                 |
|   |  | (million Btu)         | (thousand cf) |                        |                          |  |                 |
| RSE Column Factors:                         | 1.8                                    | 1.1                   | 1.1           | 0.9                    | 1.0                      | 0.6                                    |                 |
| <b>Pacific Division</b> .....               | 9.9                                    | 58.8                  | 57.0          | 325                    | 1,548                    | 5.7                                    | 2.9             |
| <b>Climate Zone<sup>1</sup></b>             |  |                       |               |                        |                          |  |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | .3                                     | 141.7                 | 140.0         | 576                    | 2,141                    | 4.1                                    | 12.7            |
| Under 5,500 HDD .....                       | 9.2                                    | 56.0                  | 54.2          | 316                    | 1,537                    | 5.8                                    | 3.5             |
| 2,000 CDD or More and Under 4,000 HDD ..... | Q                                      | 58.4                  | 56.6          | 331                    | 1,358                    | 5.9                                    | 28.5            |
| <b>Type of Housing Unit</b>                 |  |                       |               |                        |                          |  |                 |
| Single-Family .....                         | 6.2                                    | 69.8                  | 67.7          | 385                    | 1,971                    | 5.7                                    | 3.1             |
| Mobile Home .....                           | .3                                     | 70.6                  | 68.5          | 376                    | 1,012                    | 5.5                                    | 12.4            |
| Multifamily (2 or more units) ..            | 3.4                                    | 37.8                  | 36.7          | 210                    | 840                      | 5.7                                    | 5.2             |
| <b>Heated Floorspace (square feet)</b>      |  |                       |               |                        |                          |  |                 |
| Fewer than 1,000 .....                      | 4.0                                    | 40.7                  | 39.5          | 224                    | 737                      | 5.7                                    | 3.3             |
| 1,000 to 1,999 .....                        | 4.4                                    | 65.3                  | 63.4          | 355                    | 1,706                    | 5.6                                    | 2.8             |
| 2,000 or More .....                         | 1.6                                    | 86.2                  | 83.5          | 495                    | 3,167                    | 5.9                                    | 4.1             |
| <b>Ownership of Unit</b>                    |  |                       |               |                        |                          |  |                 |
| Owned .....                                 | 5.5                                    | 67.5                  | 65.5          | 374                    | 2,050                    | 5.7                                    | 3.3             |
| Rented .....                                | 4.4                                    | 47.8                  | 46.4          | 263                    | 923                      | 5.7                                    | 4.6             |
| <b>Year of Construction</b>                 |  |                       |               |                        |                          |  |                 |
| 1949 or Before .....                        | 2.4                                    | 62.7                  | 60.8          | 348                    | 1,465                    | 5.7                                    | 6.3             |
| 1950 to 1979 .....                          | 5.6                                    | 55.8                  | 54.1          | 310                    | 1,445                    | 5.7                                    | 4.5             |
| 1980 or After <sup>2</sup> .....            | 1.9                                    | 62.3                  | 60.6          | 336                    | 1,949                    | 5.5                                    | 10.1            |
| <b>1990 Family Income</b>                   |  |                       |               |                        |                          |  |                 |
| Less than \$10,000 .....                    | 1.0                                    | 41.1                  | 39.9          | 225                    | 711                      | 5.6                                    | 8.0             |
| \$10,000 to \$19,999 .....                  | 2.1                                    | 50.6                  | 49.1          | 273                    | 1,146                    | 5.6                                    | 4.9             |
| \$20,000 to \$34,999 .....                  | 2.3                                    | 53.6                  | 52.0          | 296                    | 1,318                    | 5.7                                    | 5.5             |
| \$35,000 or More .....                      | 4.5                                    | 69.2                  | 67.2          | 386                    | 2,045                    | 5.7                                    | 3.8             |
| <b>Below Poverty Line</b>                   |  |                       |               |                        |                          |  |                 |
| 100 Percent .....                           | 1.1                                    | 44.8                  | 43.5          | 252                    | 883                      | 5.8                                    | 9.1             |
| 125 Percent .....                           | 1.5                                    | 48.1                  | 46.7          | 270                    | 946                      | 5.8                                    | 7.0             |
| <b>Age of Householder</b>                   |  |                       |               |                        |                          |  |                 |
| Under 35 Years .....                        | 3.8                                    | 49.5                  | 48.0          | 272                    | 1,147                    | 5.7                                    | 5.5             |
| 35 to 59 Years .....                        | 4.1                                    | 70.2                  | 68.2          | 390                    | 1,846                    | 5.7                                    | 3.3             |
| 60 Years and Over .....                     | 2.1                                    | 53.2                  | 51.6          | 293                    | 1,690                    | 5.7                                    | 5.5             |
| <b>Household Size</b>                       |  |                       |               |                        |                          |  |                 |
| 1 Person .....                              | 2.2                                    | 45.0                  | 43.7          | 244                    | 1,166                    | 5.6                                    | 5.8             |
| 2 to 4 Persons .....                        | 6.4                                    | 62.1                  | 60.3          | 341                    | 1,666                    | 5.7                                    | 3.1             |
| 5 or More Persons .....                     | 1.3                                    | 66.0                  | 63.8          | 380                    | 1,625                    | 6.0                                    | 7.7             |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 89. Liquefied Petroleum Gas Consumption and Expenditures in West Region Households, 1990

| Characteristics                             | Households Using LPG (million) | Average per Household |           |                        |                          | Expenditures (dollars per gallon) | RSE Row Factors |
|---|--------------------------------|-----------------------|-----------|------------------------|--------------------------|-----------------------------------|-----------------|
|   |                                | Consumption           |           | Expenditures (dollars) | Floorspace (square feet) |                                   |                 |
|   |                                | (million Btu)         | (gallons) |                        |                          |                                   |                 |
| RSE Column Factors:                         | 1.4                            | 1.4                   | 1.4       | 1.1                    | 0.7                      | 0.5                               |                 |
| West Region                                 |                                |                       |           |                        |                          |                                   |                 |
| <b>Total Region</b> .....                   | 1.1                            | 27.4                  | 301       | 333                    | 1,296                    | 1.11                              | 17.2            |
| Mountain Division .....                     | Q                              | 63.7                  | 697       | 616                    | 1,925                    | .88                               | 35.0            |
| Pacific Division .....                      | .9                             | 19.3                  | 211       | 270                    | 1,154                    | 1.28                              | 14.1            |
| <b>Climate Zone<sup>1</sup></b>             |                                |                       |           |                        |                          |                                   |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | .3                             | Q                     | Q         | Q                      | 1,629                    | Q                                 | 37.9            |
| Under 5,500 HDD .....                       | .5                             | 24.7                  | 271       | 309                    | 1,181                    | 1.14                              | 20.7            |
| 2,000 CDD or More and Under 4,000 HDD ..... | .3                             | 17.5                  | 191       | 294                    | 1,135                    | 1.54                              | 19.2            |
| <b>Type of Housing Unit</b>                 |                                |                       |           |                        |                          |                                   |                 |
| Single-Family .....                         | .9                             | 26.0                  | 284       | 320                    | 1,434                    | 1.12                              | 20.4            |
| Mobile Home .....                           | Q                              | 43.4                  | 475       | 484                    | 732                      | 1.02                              | 38.8            |
| Multifamily (2 or more units) ...           | Q                              | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| <b>Heated Floorspace (square feet)</b>      |                                |                       |           |                        |                          |                                   |                 |
| Fewer than 1,000 .....                      | .7                             | 20.6                  | 225       | 275                    | 802                      | 1.22                              | 14.7            |
| 1,000 to 1,999 .....                        | .4                             | 31.8                  | 348       | 369                    | 1,648                    | 1.06                              | 22.1            |
| 2,000 or More .....                         | Q                              | Q                     | Q         | Q                      | Q                        | Q                                 | NF              |
| <b>Ownership of Unit</b>                    |                                |                       |           |                        |                          |                                   |                 |
| Owned .....                                 | .7                             | 29.1                  | 318       | 347                    | 1,541                    | 1.09                              | 24.4            |
| Rented .....                                | .4                             | 24.6                  | 269       | 310                    | 861                      | 1.15                              | 17.5            |
| <b>Year of Construction</b>                 |                                |                       |           |                        |                          |                                   |                 |
| 1949 or Before .....                        | .3                             | 27.8                  | 304       | 342                    | 1,428                    | 1.12                              | 24.5            |
| 1950 to 1979 .....                          | .6                             | 26.0                  | 285       | 324                    | 1,197                    | 1.14                              | 19.5            |
| 1980 or After <sup>2</sup> .....            | .3                             | 30.5                  | 334       | 348                    | 1,405                    | 1.04                              | 31.1            |
| <b>1990 Family Income</b>                   |                                |                       |           |                        |                          |                                   |                 |
| Less than \$10,000 .....                    | .4                             | 23.4                  | 257       | 286                    | 921                      | 1.12                              | 28.8            |
| \$10,000 to \$19,999 .....                  | .2                             | 25.2                  | 276       | 308                    | 914                      | 1.11                              | 14.7            |
| \$20,000 to \$34,999 .....                  | .3                             | 38.4                  | 420       | 475                    | 1,421                    | 1.13                              | 24.5            |
| \$35,000 or More .....                      | .3                             | Q                     | Q         | 290                    | 2,005                    | 1.07                              | 33.2            |
| <b>Below Poverty Line</b>                   |                                |                       |           |                        |                          |                                   |                 |
| 100 Percent .....                           | .4                             | 19.0                  | 208       | 232                    | 955                      | 1.11                              | 25.9            |
| 125 Percent .....                           | .5                             | 23.0                  | 252       | 281                    | 946                      | 1.11                              | 20.5            |
| <b>Age of Householder</b>                   |                                |                       |           |                        |                          |                                   |                 |
| Under 35 Years .....                        | .2                             | 31.7                  | 347       | 371                    | 1,062                    | 1.07                              | 23.6            |
| 35 to 59 Years .....                        | .6                             | 16.8                  | 184       | 226                    | 1,288                    | 1.23                              | 19.8            |
| 60 Years and Over .....                     | .4                             | 41.6                  | 456       | 479                    | 1,456                    | 1.05                              | 24.0            |
| <b>Household Size</b>                       |                                |                       |           |                        |                          |                                   |                 |
| 1 Person .....                              | .4                             | 25.4                  | 278       | 309                    | 693                      | 1.11                              | 25.6            |
| 2 to 4 Persons .....                        | .6                             | 30.1                  | 329       | 349                    | 1,555                    | 1.06                              | 24.6            |
| 5 or More Persons .....                     | .2                             | 23.1                  | 253       | 336                    | 1,749                    | 1.33                              | 22.7            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the Mountain and Pacific Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and D of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 90. Wood Consumption in West Region Households, December 1989 Through November 1990

| Characteristics                             | Households Using Wood  |                    |                       |         | Wood Used as Main Space-Heating Fuel |                    |                       |         | RSE Row Factors |     |      |
|---|------------------------|--------------------|-----------------------|---------|--------------------------------------|--------------------|-----------------------|---------|-----------------|-----|------|
|   | Consumption            |                    | Average per Household |         | Consumption                          |                    | Average per Household |         |                 |     |      |
|   | Total                  | (million cords)    | (million Btu)         | (cords) | Total                                | (million cords)    | (million Btu)         | (cords) |                 |     |      |
|   | Households (mil-lions) | (quad-rillion Btu) | (million cords)       | (cords) | Households (mil-lions)               | (quad-rillion Btu) | (million cords)       | (cords) |                 |     |      |
| RSE Column Factors:                         | 0.8                    | 1.1                | 1.1                   | 0.7     | 1.6                                  | 1.8                | 0.7                   | 0.7     |                 |     |      |
| West Region                                 |                        |                    |                       |         |                                      |                    |                       |         |                 |     |      |
| <b>Total Region</b> .....                   | 5.8                    | 0.12               | 6.2                   | 21.6    | 1.1                                  | 1.2                | 0.07                  | 3.4     | 57.3            | 2.9 | 14.6 |
| Mountain Division .....                     | 1.2                    | .03                | 1.5                   | 24.1    | 1.2                                  | .2                 | .01                   | .7      | 75.3            | 3.8 | 19.9 |
| Pacific Division .....                      | 4.6                    | .10                | 4.8                   | 20.9    | 1.0                                  | 1.0                | .05                   | 2.7     | 53.9            | 2.7 | 18.7 |
| <b>Climate Zone<sup>1</sup></b>             |                        |                    |                       |         |                                      |                    |                       |         |                 |     |      |
| Under 2,000 CDD and Over 5,500 HDD .....    | 1.8                    | .07                | 3.3                   | 36.3    | 1.8                                  | .6                 | .04                   | 1.9     | 64.7            | 3.2 | 16.7 |
| Under 5,500 HDD and 2,000 CDD or More ..... | 3.7                    | .05                | 2.7                   | 15.0    | .7                                   | .6                 | Q                     | Q       | 49.7            | 2.5 | 34.4 |
| Under 4,000 HDD .....                       | 3                      | Q                  | Q                     | 14.0    | .7                                   | Q                  | Q                     | Q       | Q               | Q   | 51.5 |
| <b>Type of Housing Unit</b>                 |                        |                    |                       |         |                                      |                    |                       |         |                 |     |      |
| Single-Family .....                         | 5.2                    | .11                | 5.6                   | 21.8    | 1.1                                  | 1.0                | .06                   | 3.0     | 59.0            | 2.9 | 14.9 |
| Mobile Home .....                           | .2                     | Q                  | Q                     | 54.7    | 2.7                                  | Q                  | Q                     | Q       | Q               | Q   | 40.1 |
| Multifamily (2 or more units) .....         | 5                      | (*)                | .2                    | Q       | Q                                    | Q                  | Q                     | Q       | Q               | Q   | 40.6 |
| <b>Heated Floorspace (square feet)</b>      |                        |                    |                       |         |                                      |                    |                       |         |                 |     |      |
| Fewer than 1,000 .....                      | .9                     | .02                | 1.1                   | 22.5    | 1.1                                  | .4                 | .02                   | .9      | 46.3            | 2.3 | 29.3 |
| 1,000 to 1,999 .....                        | 3.2                    | .08                | 3.9                   | 24.3    | 1.2                                  | .7                 | .04                   | 1.9     | 59.5            | 3.0 | 17.0 |
| 2,000 or More .....                         | 1.6                    | .03                | 1.3                   | 15.7    | .8                                   | .1                 | .01                   | .5      | 78.4            | 3.9 | 23.6 |
| <b>Ownership of Unit</b>                    |                        |                    |                       |         |                                      |                    |                       |         |                 |     |      |
| Owned .....                                 | 4.7                    | .10                | 5.1                   | 21.6    | 1.1                                  | .9                 | .05                   | 2.6     | 58.4            | 2.9 | 13.5 |
| Rented .....                                | 1.0                    | .02                | 1.1                   | 21.6    | 1.1                                  | .3                 | Q                     | Q       | 53.6            | 2.7 | 31.6 |
| <b>Year of Construction</b>                 |                        |                    |                       |         |                                      |                    |                       |         |                 |     |      |
| 1949 or Before .....                        | 1.4                    | .05                | 2.4                   | 34.9    | 1.7                                  | .5                 | .03                   | 1.7     | 74.7            | 3.7 | 16.2 |
| 1950 to 1979 .....                          | 2.9                    | .05                | 2.5                   | 17.3    | .9                                   | .5                 | .02                   | 1.1     | 45.3            | 2.3 | 18.6 |
| 1980 or After <sup>2</sup> .....            | 1.5                    | .03                | 1.3                   | 17.5    | .9                                   | Q                  | Q                     | Q       | 46.8            | 2.3 | 24.6 |
| <b>1990 Family Income</b>                   |                        |                    |                       |         |                                      |                    |                       |         |                 |     |      |
| Less than \$10,000 .....                    | .5                     | .01                | .7                    | 27.8    | 1.4                                  | Q                  | Q                     | Q       | 43.7            | 2.2 | 40.7 |
| \$10,000 to \$19,999 .....                  | .8                     | .02                | 1.1                   | 27.7    | 1.4                                  | Q                  | Q                     | Q       | 63.3            | 3.2 | 42.0 |
| \$20,000 to \$34,999 .....                  | 1.6                    | .04                | 2.2                   | 27.7    | 1.4                                  | .3                 | .02                   | 1.2     | 72.8            | 3.6 | 16.6 |
| \$35,000 or More .....                      | 2.9                    | .05                | 2.3                   | 15.5    | .8                                   | .4                 | .02                   | 1.0     | 46.8            | 2.3 | 11.0 |
| <b>Below Poverty Line</b>                   |                        |                    |                       |         |                                      |                    |                       |         |                 |     |      |
| 100 Percent .....                           | 7                      | .02                | 1.1                   | 31.0    | 1.6                                  | Q                  | Q                     | Q       | 54.5            | 2.7 | 39.5 |
| 125 Percent .....                           | 9                      | .03                | 1.3                   | 28.5    | 1.4                                  | Q                  | Q                     | Q       | 50.8            | 2.5 | 39.4 |
| <b>Age of Householder</b>                   |                        |                    |                       |         |                                      |                    |                       |         |                 |     |      |
| Under 35 Years .....                        | 1.3                    | .02                | 1.0                   | 15.5    | .8                                   | .3                 | Q                     | Q       | 44.5            | 2.2 | 31.0 |
| 35 to 59 Years .....                        | 3.2                    | .07                | 3.5                   | 21.9    | 1.1                                  | .6                 | .04                   | 1.9     | 58.4            | 2.9 | 10.8 |
| 60 Years and Over .....                     | 1.3                    | .03                | 1.7                   | 26.7    | 1.3                                  | .3                 | .02                   | .9      | 68.2            | 3.4 | 19.0 |
| <b>Household Size</b>                       |                        |                    |                       |         |                                      |                    |                       |         |                 |     |      |
| 1 Person .....                              | .9                     | .02                | .8                    | 19.0    | .9                                   | Q                  | Q                     | Q       | Q               | Q   | 35.2 |
| 2 to 4 Persons .....                        | 3.9                    | .08                | 3.9                   | 20.0    | 1.0                                  | .8                 | .04                   | 2.1     | 51.9            | 2.6 | 13.8 |
| 5 or More Persons .....                     | 1.1                    | .03                | 1.6                   | 29.4    | 1.5                                  | .2                 | .02                   | 1.0     | 76.8            | 3.8 | 20.1 |

See footnotes at end of table.

ENERGY CONSUMPTION AND EXPENDITURES

Table 90. Wood Consumption in West Region Households, December 1989 Through November 1990 (Continued)

| Characteristics                               | Households Using Wood |                   |                       |               | Wood Used as Main Space-Heating Fuel |                       |         |     | RSE Row Factors |
|---|-----------------------|-------------------|-----------------------|---------------|--------------------------------------|-----------------------|---------|-----|-----------------|
|   | Consumption           |                   | Average per Household | Consumption   |                                      | Average per Household |         |     |                 |
|   | Total                 | Household         |                       | Total         | Household                            |                       |         |     |                 |
| RSE Column Factors:                           | Households (millions) | (quadrillion Btu) | (million cords)       | (million Btu) | (million cords)                      | (million Btu)         | (cords) |     |                 |
| West Region                                   |                       |                   |                       |               |                                      |                       |         |     |                 |
| <b>Main Heating Fuel</b>                      |                       |                   |                       |               |                                      |                       |         |     |                 |
| Natural Gas .....                             | 3.2                   | 0.03              | 1.4                   | 8.6           | 0.4                                  | --                    | --      | --  | 9.2             |
| Electricity .....                             | 1.0                   | .03               | 1.3                   | 24.6          | 1.2                                  | --                    | --      | --  | 32.3            |
| Fuel Oil or Kerosene .....                    | Q                     | Q                 | Q                     | Q             | --                                   | --                    | --      | --  | NF              |
| Wood .....                                    | 1.2                   | .07               | 3.4                   | 57.3          | 2.9                                  | 1.2                   | 0.07    | 3.4 | 57.3            |
| Heating Stove .....                           | 1.0                   | .06               | 3.1                   | 59.9          | 3.0                                  | 1.0                   | .06     | 3.1 | 59.9            |
| Fireplace .....                               | Q                     | Q                 | Q                     | Q             | Q                                    | Q                     | Q       | Q   | Q               |
| Furnace/Other .....                           | Q                     | Q                 | Q                     | Q             | Q                                    | Q                     | Q       | Q   | Q               |
| LPG .....                                     | Q                     | Q                 | Q                     | Q             | Q                                    | --                    | --      | --  | NF              |
| Other .....                                   | Q                     | Q                 | Q                     | Q             | Q                                    | --                    | --      | --  | NF              |
| <b>Secondary Heating Equipment Used</b> ..... | 5.6                   | .12               | 5.9                   | 21.0          | 1.0                                  | 1.0                   | .06     | 3.1 | 58.7            |
| 2.9   | .01                   | .5                | 3.4                   | .2            | Q                                    | Q                     | Q       | Q   | 8.5             |
| Less than one-half Cord .....                 | .8                    | .01               | .5                    | 11.2          | .6                                   | Q                     | Q       | Q   | 10.2            |
| One-half to Less than 1 .....                 | .7                    | .02               | .8                    | 23.7          | 1.2                                  | .2                    | .01     | .3  | 27.1            |
| 1 to Less than 2 .....                        | 1.1                   | .06               | 2.9                   | 54.0          | 2.7                                  | .6                    | .04     | 1.8 | 57.9            |
| 2 to 4 Cords .....                            | .3                    | .03               | 1.6                   | 108.9         | 5.4                                  | .2                    | .03     | 1.3 | 109.8           |
| More than 4 Cords .....                       |                       |                   |                       |               |                                      |                       |         |     | 5.5             |
| <b>Hours Wood Burned in Winter</b>            |                       |                   |                       |               |                                      |                       |         |     |                 |
| Less than 1 Hour per week .....               | 1.6                   | .01               | .3                    | 3.6           | .2                                   | Q                     | Q       | Q   | 15.8            |
| Less than 1 Hour per day .....                | 1.2                   | .01               | .5                    | 7.6           | .4                                   | Q                     | Q       | NC  | 31.0            |
| 1 to 4 Hours per day .....                    | 1.3                   | .02               | 1.0                   | 15.6          | .8                                   | Q                     | Q       | Q   | 16.9            |
| More than 4 Hours per day .....               | .7                    | .03               | 1.5                   | 40.6          | .3                                   | .3                    | .01     | .7  | 49.0            |
| Almost Continuously .....                     | .9                    | .06               | 3.0                   | 63.8          | 3.2                                  | .7                    | .05     | 2.4 | 71.2            |
| <b>Purchased Firewood</b>                     |                       |                   |                       |               |                                      |                       |         |     |                 |
| Yes .....                                     | 2.4                   | .06               | 3.2                   | 26.7          | 1.3                                  | .5                    | .03     | 1.5 | 62.0            |
| No .....                                      | 3.3                   | .06               | 2.9                   | 17.7          | .9                                   | .7                    | .04     | 1.8 | 53.6            |
| 3.1   |                       |                   |                       |               |                                      |                       |         |     | 2.7             |
| 16.6  |                       |                   |                       |               |                                      |                       |         |     | 15.4            |

1 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.  
 2 Does not include all new construction for 1990.  
 NC = No cases in sample.  
 (\*) = Data cannot be displayed due to rounding.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 -- = Data not applicable.  
 NF = No applicable RSE row/column factor.  
 Notes: • Data in the Mountain and Pacific Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, and C of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 91. Average Expenditures for Major Energy Sources in West Region Households, 1990**  
(Dollars per Million Btu)

| Characteristics                             | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas |     | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----|-----------------|
|   |                                   |             |             |          |          |                         |     |                 |
| West Region                                 |                                   |             |             |          |          |                         |     |                 |
| RSE Column Factors:                         | 0.7                               | 0.6         | 0.3         | 2.3      | 2.3      | 1.3                     | 1.3 |                 |
| <b>Total Region</b> .....                   | 11.8                              | 23.2        | 5.2         | 7.5      | 12.8     | 12.1                    |     | 5.8             |
| <b>Climate Zone<sup>2</sup></b>             |                                   |             |             |          |          |                         |     |                 |
| Under 2,000 HDD and Over 5,500 HDD .....    | 8.7                               | 16.5        | 4.2         | Q        | Q        | Q                       |     | 15.8            |
| Under 5,500 HDD .....                       | 12.6                              | 25.7        | 5.6         | Q        | Q        | 12.5                    |     | 5.6             |
| 2,000 HDD or More and Under 4,000 HDD ..... | 17.9                              | 28.8        | 6.6         | Q        | Q        | 16.8                    |     | 9.3             |
| <b>Type of Housing Unit</b>                 |                                   |             |             |          |          |                         |     |                 |
| Single-Family .....                         | 11.9                              | 23.2        | 5.2         | 7.5      | 12.8     | 12.3                    |     | 6.5             |
| Mobile Home .....                           | 10.5                              | 19.1        | 5.0         | NC       | NC       | 11.2                    |     | 16.6            |
| Multifamily (2 or more units) ..            | 12.0                              | 24.3        | 5.3         | NC       | NC       | Q                       |     | 7.4             |
| <b>Heated Floorspace (square feet)</b>      |                                   |             |             |          |          |                         |     |                 |
| Fewer than 1,000 .....                      | 12.2                              | 23.5        | 5.2         | Q        | Q        | 13.4                    |     | 6.0             |
| 1,000 to 1,999 .....                        | 11.9                              | 22.9        | 5.2         | 7.9      | Q        | 11.6                    |     | 6.6             |
| 2,000 or More .....                         | 11.2                              | 23.4        | 5.2         | 7.2      | Q        | Q                       |     | 10.3            |
| <b>Ownership of Unit</b>                    |                                   |             |             |          |          |                         |     |                 |
| Owned .....                                 | 11.7                              | 23.3        | 5.2         | 7.4      | 11.9     | 11.9                    |     | 7.6             |
| Rented .....                                | 12.0                              | 23.0        | 5.3         | Q        | Q        | 12.6                    |     | 5.9             |
| <b>Year of Construction</b>                 |                                   |             |             |          |          |                         |     |                 |
| 1949 or Before .....                        | 9.9                               | 21.0        | 5.0         | 7.4      | Q        | 12.3                    |     | 10.7            |
| 1950 to 1979 .....                          | 12.0                              | 23.1        | 5.3         | 7.6      | 13.7     | 12.4                    |     | 6.6             |
| 1980 or After <sup>3</sup> .....            | 13.8                              | 25.2        | 5.3         | NC       | Q        | 11.4                    |     | 7.9             |
| <b>1990 Family Income</b>                   |                                   |             |             |          |          |                         |     |                 |
| Less than \$10,000 .....                    | 11.2                              | 20.0        | 5.1         | Q        | Q        | 12.2                    |     | 14.3            |
| \$10,000 to \$19,999 .....                  | 11.4                              | 21.8        | 5.3         | Q        | NC       | 12.2                    |     | 7.1             |
| \$20,000 to \$34,999 .....                  | 11.2                              | 21.9        | 5.0         | Q        | Q        | 12.4                    |     | 10.8            |
| \$35,000 or More .....                      | 12.5                              | 25.3        | 5.3         | Q        | Q        | 11.7                    |     | 6.5             |
| <b>Below Poverty Line</b>                   |                                   |             |             |          |          |                         |     |                 |
| 100 Percent .....                           | 12.0                              | 21.2        | 5.2         | NC       | Q        | 12.2                    |     | 11.6            |
| 125 Percent .....                           | 11.8                              | 21.4        | 5.3         | Q        | Q        | 12.2                    |     | 9.6             |
| <b>Age of Householder</b>                   |                                   |             |             |          |          |                         |     |                 |
| Under 35 Years .....                        | 11.7                              | 24.1        | 5.3         | Q        | NC       | 11.7                    |     | 6.4             |
| 35 to 59 Years .....                        | 11.9                              | 23.1        | 5.2         | Q        | 12.8     | 13.5                    |     | 6.7             |
| 60 Years and Over .....                     | 11.8                              | 22.3        | 5.1         | 7.5      | Q        | 11.5                    |     | 7.5             |
| <b>Household Size</b>                       |                                   |             |             |          |          |                         |     |                 |
| 1 Person .....                              | 11.3                              | 21.6        | 5.1         | Q        | Q        | 12.2                    |     | 8.9             |
| 2 to 4 Persons .....                        | 11.7                              | 23.2        | 5.2         | 7.3      | 13.1     | 11.6                    |     | 7.2             |
| 5 or More Persons .....                     | 13.0                              | 24.9        | 5.4         | Q        | Q        | 14.5                    |     | 7.5             |

See footnotes at end of table.

**ENERGY CONSUMPTION AND EXPENDITURES**

**Table 91. Average Expenditures for Major Energy Sources in West Region Households, 1990 (Continued)**  
(Dollars per Million Btu)

| Characteristics                             | Major Energy Sources <sup>1</sup> |             |             |          |          |                         | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|   | RSE Column Factors:               | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas |                 |
| Mountain Division .....                     | 0.7                               | 0.6         | 0.3         | 2.3      | 2.3      | 1.3                     | 11.1            |
| <b>Climate Zone<sup>2</sup></b>             |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 9.8                               | 22.0        | 4.7         | Q        | Q        | 9.7                     | 11.1            |
| Under 5,500 HDD .....                       | 7.8                               | 19.3        | 4.2         | Q        | Q        | 9.5                     | 16.8            |
| Under 5,500 HDD .....                       | 9.9                               | 22.5        | 5.7         | NC       | NC       | Q                       | 26.5            |
| 2,000 CDD or More and Under 4,000 HDD ..... | 17.6                              | 26.3        | 7.1         | NC       | Q        | Q                       | 6.3             |
| <b>Type of Housing Unit</b>                 |                                   |             |             |          |          |                         |                 |
| Single-Family .....                         | 9.7                               | 21.7        | 4.7         | Q        | Q        | 9.6                     | 10.4            |
| Mobile Home .....                           | 9.3                               | 19.4        | 4.7         | NC       | NC       | Q                       | 23.4            |
| Multifamily (2 or more units) ..            | 10.9                              | 25.6        | 4.5         | NC       | NC       | NC                      | 15.1            |
| <b>Heated Floorspace (square feet)</b>      |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                      | 10.1                              | 24.7        | 4.8         | Q        | NC       | Q                       | 12.3            |
| 1,000 to 1,999 .....                        | 10.2                              | 21.7        | 4.8         | Q        | Q        | Q                       | 11.8            |
| 2,000 or More .....                         | 8.9                               | 20.1        | 4.4         | Q        | Q        | Q                       | 13.7            |
| <b>Ownership of Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Owned .....                                 | 9.5                               | 21.2        | 4.7         | Q        | Q        | 9.8                     | 13.9            |
| Rented .....                                | 11.0                              | 24.5        | 4.8         | NC       | NC       | Q                       | 10.2            |
| <b>Year of Construction</b>                 |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                        | 7.7                               | 20.7        | 4.3         | Q        | Q        | Q                       | 16.2            |
| 1950 to 1979 .....                          | 9.8                               | 21.8        | 4.9         | Q        | Q        | Q                       | 10.1            |
| 1980 or After <sup>3</sup> .....            | 13.1                              | 23.2        | 5.0         | NC       | Q        | Q                       | 12.9            |
| <b>1990 Family Income</b>                   |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                    | 10.1                              | 23.3        | 4.8         | Q        | NC       | Q                       | 15.8            |
| \$10,000 to \$19,999 .....                  | 10.5                              | 24.2        | 5.0         | NC       | NC       | Q                       | 11.8            |
| \$20,000 to \$34,999 .....                  | 8.7                               | 20.6        | 4.5         | Q        | Q        | Q                       | 16.8            |
| \$35,000 or More .....                      | 10.4                              | 21.6        | 4.7         | Q        | Q        | Q                       | 8.4             |
| <b>Below Poverty Line</b>                   |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                           | 10.6                              | 22.8        | 4.7         | NC       | NC       | Q                       | 20.3            |
| 125 Percent .....                           | 10.1                              | 22.8        | 4.8         | Q        | NC       | Q                       | 16.2            |
| <b>Age of Householder</b>                   |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                        | 10.2                              | 22.8        | 4.8         | NC       | NC       | Q                       | 7.9             |
| 35 to 59 Years .....                        | 9.9                               | 21.1        | 4.7         | Q        | Q        | Q                       | 14.0            |
| 60 Years and Over .....                     | 9.3                               | 23.1        | 4.7         | Q        | Q        | Q                       | 11.4            |
| <b>Household Size</b>                       |                                   |             |             |          |          |                         |                 |
| 1 Person .....                              | 9.1                               | 24.4        | 4.6         | Q        | Q        | Q                       | 13.5            |
| 2 to 4 Persons .....                        | 10.0                              | 21.6        | 4.7         | Q        | Q        | 9.4                     | 10.8            |
| 5 or More Persons .....                     | 10.0                              | 21.6        | 4.9         | Q        | Q        | Q                       | 10.3            |

See footnotes at end of table.

**WEST**

**Table 91. Average Expenditures for Major Energy Sources in West Region Households, 1990 (Continued)**  
(Dollars per Million Btu)

| Characteristics                             | Major Energy Sources <sup>1</sup> | Electricity | Natural Gas | Fuel Oil | Kerosene | Liquefied Petroleum Gas | RSE Row Factors |
|---|-----------------------------------|-------------|-------------|----------|----------|-------------------------|-----------------|
|   | RSE Column Factors:               | 0.7         | 0.6         | 0.3      | 2.3      | 2.3                     |                 |
| <b>Pacific Division</b> .....               | 12.8                              | 23.6        | 5.5         | 7.4      | Q        | 14.0                    | 5.5             |
| <b>Climate Zone<sup>2</sup></b>             |                                   |             |             |          |          |                         |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 10.9                              | 14.1        | 4.1         | Q        | Q        | Q                       | 21.9            |
| Under 5,500 HDD .....                       | 12.7                              | 25.9        | 5.6         | Q        | Q        | 12.7                    | 5.6             |
| 2,000 CDD or More and Under 4,000 HDD ..... | 18.4                              | 34.8        | 5.7         | Q        | NC       | 16.9                    | 26.5            |
| <b>Type of Housing Unit</b>                 |                                   |             |             |          |          |                         |                 |
| Single-Family .....                         | 13.0                              | 23.8        | 5.5         | 7.4      | Q        | 14.9                    | 5.5             |
| Mobile Home .....                           | 11.5                              | 18.9        | 5.3         | NC       | NC       | Q                       | 17.3            |
| Multifamily (2 or more units) ...           | 12.3                              | 24.0        | 5.6         | NC       | NC       | Q                       | 6.5             |
| <b>Heated Floorspace (square feet)</b>      |                                   |             |             |          |          |                         |                 |
| Fewer than 1,000 .....                      | 13.1                              | 23.2        | 5.5         | Q        | Q        | 13.9                    | 5.6             |
| 1,000 to 1,999 .....                        | 12.7                              | 23.3        | 5.4         | Q        | Q        | 14.1                    | 6.7             |
| 2,000 or More .....                         | 12.5                              | 24.9        | 5.7         | Q        | Q        | Q                       | 8.0             |
| <b>Ownership of Unit</b>                    |                                   |             |             |          |          |                         |                 |
| Owned .....                                 | 13.0                              | 24.1        | 5.5         | 7.3      | Q        | 13.9                    | 7.1             |
| Rented .....                                | 12.3                              | 22.5        | 5.5         | Q        | Q        | 14.1                    | 5.3             |
| <b>Year of Construction</b>                 |                                   |             |             |          |          |                         |                 |
| 1949 or Before .....                        | 11.1                              | 21.1        | 5.6         | Q        | Q        | 16.0                    | 8.9             |
| 1950 to 1979 .....                          | 13.0                              | 23.5        | 5.6         | 7.6      | Q        | 13.8                    | 6.3             |
| 1980 or After <sup>3</sup> .....            | 14.1                              | 26.1        | 5.4         | NC       | NC       | 12.8                    | 7.7             |
| <b>1990 Family Income</b>                   |                                   |             |             |          |          |                         |                 |
| Less than \$10,000 .....                    | 12.1                              | 18.6        | 5.5         | NC       | Q        | Q                       | 16.5            |
| \$10,000 to \$19,999 .....                  | 11.8                              | 21.0        | 5.4         | Q        | NC       | 12.8                    | 7.1             |
| \$20,000 to \$34,999 .....                  | 12.9                              | 22.4        | 5.5         | Q        | Q        | 15.7                    | 8.4             |
| \$35,000 or More .....                      | 13.2                              | 26.5        | 5.6         | Q        | Q        | 14.6                    | 6.1             |
| <b>Below Poverty Line</b>                   |                                   |             |             |          |          |                         |                 |
| 100 Percent .....                           | 12.9                              | 20.5        | 5.6         | NC       | Q        | 13.8                    | 10.1            |
| 125 Percent .....                           | 12.8                              | 20.8        | 5.6         | NC       | Q        | 13.1                    | 8.1             |
| <b>Age of Householder</b>                   |                                   |             |             |          |          |                         |                 |
| Under 35 Years .....                        | 12.3                              | 24.6        | 5.5         | Q        | NC       | 13.5                    | 6.3             |
| 35 to 59 Years .....                        | 12.9                              | 23.8        | 5.6         | Q        | Q        | 15.2                    | 5.4             |
| 60 Years and Over .....                     | 13.1                              | 22.1        | 5.5         | 7.5      | NC       | 13.3                    | 7.8             |
| <b>Household Size</b>                       |                                   |             |             |          |          |                         |                 |
| 1 Person .....                              | 12.3                              | 20.9        | 5.4         | Q        | Q        | 12.7                    | 9.6             |
| 2 to 4 Persons .....                        | 12.5                              | 23.8        | 5.5         | Q        | Q        | 14.7                    | 4.7             |
| 5 or More Persons .....                     | 14.5                              | 26.0        | 5.8         | Q        | NC       | 15.6                    | 9.3             |

<sup>1</sup> Major Energy Sources include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas.

<sup>2</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>3</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 92. Total Consumption and Expenditures by End Uses  
in West Region Households, 1990**

| Characteristics | Space Heating                                   |   | Air Conditioning                                |   | Water Heating                                   |   | Refrigerator                                    |   | Appliances                                      |   | RSE<br>Row<br>Factors |
|-----------------|---|---|---|---|---|---|---|---|---|---|-----------------------|
|                 | Con-<br>sump-<br>tion<br>(tril-<br>lion<br>Btu) | Expend-<br>itures<br>(billion<br>dollars) | Con-<br>sump-<br>tion<br>(tril-<br>lion<br>Btu) | Expend-<br>itures<br>(billion<br>dollars) | Con-<br>sump-<br>tion<br>(tril-<br>lion<br>Btu) | Expend-<br>itures<br>(billion<br>dollars) | Con-<br>sump-<br>tion<br>(tril-<br>lion<br>Btu) | Expend-<br>itures<br>(billion<br>dollars) | Con-<br>sump-<br>tion<br>(tril-<br>lion<br>Btu) | Expend-<br>itures<br>(billion<br>dollars) |                       |
|                 | NF  | NF  | NF  | NF  | NF  | NF  | NF  | NF  | NF  | NF  |                       |

## West Region

|  |       |      |      |      |       |      |      |      |       |      |      |
|--|-------|------|------|------|-------|------|------|------|-------|------|------|
| <b>Total Region</b> .....                  | 668.9 | 4.53 | 44.7 | 1.14 | 353.7 | 2.72 | 91.4 | 2.36 | 351.5 | 7.11 | 4.0  |
| <b>Climate Zone<sup>1</sup></b>            |       |      |      |      |       |      |      |      |       |      |      |
| Under 2,000 CDD and                        |       |      |      |      |       |      |      |      |       |      |      |
| Over 5,500 HDD .....                       | 278.1 | 1.59 | 6.1  | .10  | 100.1 | .72  | 20.4 | .37  | 87.9  | 1.50 | 20.5 |
| Under 5,500 HDD .....                      | 348.0 | 2.54 | 26.4 | .70  | 220.1 | 1.62 | 55.2 | 1.51 | 223.5 | 4.61 | 10.8 |
| 2,000 CDD or More and                      |       |      |      |      |       |      |      |      |       |      |      |
| Under 4,000 HDD .....                      | 42.9  | .40  | 12.2 | .34  | 33.4  | .38  | 15.8 | .47  | 40.2  | 1.00 | 22.6 |
| <b>Type of Housing Unit</b>                |       |      |      |      |       |      |      |      |       |      |      |
| Single-Family .....                        | 529.8 | 3.52 | 31.7 | .84  | 244.0 | 1.90 | 68.6 | 1.78 | 278.6 | 5.65 | 6.2  |
| Mobile Home .....                          | 45.6  | .34  | 1.8  | .04  | 19.8  | .15  | 5.0  | .11  | 19.1  | .32  | 24.3 |
| Multifamily (2 or more units) .....        | 93.5  | .68  | 11.2 | .26  | 89.9  | .67  | 17.7 | .46  | 53.9  | 1.13 | 13.3 |
| <b>Heated Floorspace<br/>(square feet)</b> |       |      |      |      |       |      |      |      |       |      |      |
| Fewer than 1,000 .....                     | 163.0 | 1.20 | 11.2 | .25  | 124.7 | 1.01 | 29.7 | .79  | 93.5  | 1.88 | 8.4  |
| 1,000 to 1,999 .....                       | 329.9 | 2.26 | 22.4 | .57  | 164.1 | 1.26 | 43.9 | 1.11 | 178.2 | 3.60 | 7.9  |
| 2,000 or More .....                        | 176.0 | 1.07 | 11.1 | .31  | 64.9  | .45  | 17.7 | .46  | 79.9  | 1.62 | 15.0 |
| <b>Ownership of Unit</b>                   |       |      |      |      |       |      |      |      |       |      |      |
| Owned .....                                | 485.6 | 3.13 | 30.8 | .81  | 206.8 | 1.56 | 62.2 | 1.59 | 245.6 | 5.02 | 5.7  |
| Rented .....                               | 183.3 | 1.40 | 13.9 | .33  | 146.9 | 1.16 | 29.2 | .76  | 106.0 | 2.09 | 7.9  |
| <b>Year of Construction</b>                |       |      |      |      |       |      |      |      |       |      |      |
| 1949 or Before .....                       | 205.0 | 1.27 | 3.4  | .07  | 84.0  | .61  | 19.5 | .46  | 77.7  | 1.44 | 11.0 |
| 1950 to 1979 .....                         | 351.3 | 2.45 | 21.5 | .57  | 193.6 | 1.47 | 50.6 | 1.31 | 196.3 | 3.94 | 7.2  |
| 1980 or After <sup>2</sup> .....           | 112.6 | .81  | 19.9 | .49  | 76.1  | .64  | 21.3 | .58  | 77.5  | 1.73 | 13.7 |
| <b>1990 Family Income</b>                  |       |      |      |      |       |      |      |      |       |      |      |
| Less than \$10,000 .....                   | 74.3  | .58  | 2.9  | .07  | 39.5  | .33  | 10.0 | .23  | 31.8  | .57  | 16.2 |
| \$10,000 to \$19,999 .....                 | 126.4 | .86  | 6.1  | .16  | 70.5  | .56  | 18.8 | .47  | 62.3  | 1.19 | 10.3 |
| \$20,000 to \$34,999 .....                 | 173.1 | 1.16 | 8.4  | .17  | 92.6  | .72  | 22.1 | .55  | 86.3  | 1.68 | 10.3 |
| \$35,000 or More .....                     | 295.0 | 1.93 | 27.3 | .74  | 151.1 | 1.11 | 40.5 | 1.10 | 171.1 | 3.67 | 6.0  |
| <b>Below Poverty Line</b>                  |       |      |      |      |       |      |      |      |       |      |      |
| 100 Percent .....                          | 62.1  | .48  | 2.9  | .08  | 46.7  | .41  | 10.2 | .25  | 37.6  | .70  | 14.6 |
| 125 Percent .....                          | 98.7  | .74  | 4.3  | .11  | 66.0  | .56  | 15.1 | .37  | 54.3  | 1.03 | 12.6 |
| <b>Age of Householder</b>                  |       |      |      |      |       |      |      |      |       |      |      |
| Under 35 Years .....                       | 171.1 | 1.11 | 15.2 | .38  | 126.0 | .93  | 25.0 | .67  | 103.2 | 2.05 | 10.3 |
| 35 to 59 Years .....                       | 309.2 | 2.05 | 20.7 | .52  | 165.4 | 1.29 | 41.9 | 1.07 | 171.9 | 3.51 | 6.2  |
| 60 Years and Over .....                    | 188.6 | 1.37 | 8.8  | .23  | 62.3  | .50  | 24.6 | .62  | 76.5  | 1.55 | 11.7 |
| <b>Household Size</b>                      |       |      |      |      |       |      |      |      |       |      |      |
| 1 Person .....                             | 157.1 | 1.17 | 6.8  | .17  | 53.1  | .42  | 19.9 | .48  | 52.3  | 1.03 | 8.1  |
| 2 to 4 Persons .....                       | 427.4 | 2.80 | 32.2 | .80  | 233.0 | 1.74 | 57.2 | 1.47 | 228.7 | 4.61 | 4.2  |
| 5 or More Persons .....                    | 84.4  | .57  | 5.8  | .16  | 67.6  | .56  | 14.3 | .40  | 70.5  | 1.47 | 12.0 |

See footnotes at end of table.



Table 92. Total Consumption and Expenditures by End Uses in West Region Households, 1990 (Continued)

| Characteristics                        | Space Heating              |                                | Air Conditioning           |                                | Water Heating              |                                | Refrigerator               |                                | Appliances                 |                                | RSE Row Factors |
|--|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|-----------------|
|  | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) |                 |
|  | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             |                 |
| <b>Mountain Division</b> .....         | 260.9                      | 1.46                           | 16.0                       | 0.37                           | 102.2                      | 0.72                           | 26.1                       | 0.61                           | 87.9                       | 1.70                           | 8.5             |
| <b>Climate Zone<sup>1</sup></b>        |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 2,000 CDD and                    |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Over 5,500 HDD .....                   | 209.5                      | 1.02                           | 5.2                        | .09                            | 71.8                       | .42                            | 12.6                       | .25                            | 53.5                       | .96                            | 20.2            |
| Under 5,500 HDD .....                  | Q                          | .14                            | Q                          | Q                              | Q                          | .07                            | 3.2                        | .08                            | Q                          | .17                            | 50.8            |
| 2,000 CDD or More and                  |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 4,000 HDD .....                  | 28.6                       | .30                            | 9.7                        | .26                            | 19.3                       | .23                            | 10.4                       | .28                            | 24.7                       | .57                            | 10.9            |
| <b>Type of Housing Unit</b>            |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Single-Family .....                    | 211.0                      | 1.17                           | 11.0                       | .26                            | 77.7                       | .54                            | 20.2                       | .46                            | 71.0                       | 1.37                           | 8.9             |
| Mobile Home .....                      | 21.0                       | .12                            | Q                          | Q                              | 9.1                        | .06                            | 2.2                        | .05                            | 8.6                        | .14                            | 30.1            |
| Multifamily (2 or more units) .....    | 28.9                       | .16                            | 4.1                        | .10                            | 15.4                       | .12                            | 3.7                        | .10                            | 8.3                        | .19                            | 26.3            |
| <b>Heated Floorspace (square feet)</b> |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Fewer than 1,000 .....                 | 64.6                       | .37                            | 4.6                        | .11                            | 31.1                       | .21                            | 7.9                        | .20                            | 21.1                       | .41                            | 18.7            |
| 1,000 to 1,999 .....                   | 122.7                      | .70                            | 8.4                        | .19                            | 47.0                       | .35                            | 12.7                       | .29                            | 45.1                       | .87                            | 10.9            |
| 2,000 or More .....                    | 73.6                       | .39                            | 3.1                        | .07                            | 24.1                       | .15                            | 5.4                        | .11                            | 21.7                       | .41                            | 20.6            |
| <b>Ownership of Unit</b>               |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Owned .....                            | 206.7                      | 1.13                           | 9.6                        | .22                            | 72.2                       | .50                            | 19.0                       | .43                            | 68.2                       | 1.29                           | 10.4            |
| Rented .....                           | 54.2                       | .33                            | 6.4                        | .15                            | 30.1                       | .22                            | 7.1                        | .18                            | 19.7                       | .41                            | 12.2            |
| <b>Year of Construction</b>            |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1949 or Before .....                   | 85.3                       | .41                            | 1.2                        | .03                            | 27.3                       | .16                            | 5.3                        | .12                            | 21.2                       | .37                            | 23.1            |
| 1950 to 1979 .....                     | 135.3                      | .76                            | 8.4                        | .19                            | 53.5                       | .36                            | 14.4                       | .34                            | 46.2                       | .88                            | 9.2             |
| 1980 or After <sup>2</sup> .....       | 40.4                       | .29                            | 6.4                        | .16                            | 21.5                       | .21                            | 6.5                        | .15                            | 20.6                       | .44                            | 21.8            |
| <b>1990 Family Income</b>              |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Less than \$10,000 .....               | 36.3                       | .22                            | 1.9                        | .05                            | 14.0                       | .11                            | 3.9                        | .09                            | 11.1                       | .21                            | 24.3            |
| \$10,000 to \$19,999 .....             | 45.4                       | .26                            | 3.3                        | .08                            | 19.6                       | .14                            | 5.3                        | .14                            | 15.3                       | .31                            | 17.1            |
| \$20,000 to \$34,999 .....             | 84.1                       | .43                            | 2.8                        | .06                            | 32.7                       | .20                            | 6.8                        | .15                            | 25.8                       | .48                            | 16.6            |
| \$35,000 or More .....                 | 95.2                       | .54                            | 8.0                        | .18                            | 36.0                       | .28                            | 10.1                       | .22                            | 35.8                       | .70                            | 10.4            |
| <b>Below Poverty Line</b>              |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 100 Percent .....                      | 29.0                       | .19                            | Q                          | Q                              | 13.4                       | .11                            | 3.2                        | .08                            | 10.9                       | .20                            | 30.4            |
| 125 Percent .....                      | 46.5                       | .28                            | 2.4                        | .06                            | 20.5                       | .16                            | 4.8                        | .12                            | 16.1                       | .30                            | 24.0            |
| <b>Age of Householder</b>              |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 35 Years .....                   | 71.7                       | .41                            | 5.2                        | .12                            | 34.8                       | .25                            | 7.0                        | .17                            | 26.0                       | .53                            | 13.7            |
| 35 to 59 Years .....                   | 114.5                      | .64                            | 7.3                        | .16                            | 47.4                       | .34                            | 12.1                       | .27                            | 43.1                       | .80                            | 10.4            |
| 60 Years and Over .....                | 74.8                       | .40                            | 3.6                        | .09                            | 20.1                       | .13                            | 7.0                        | .17                            | 18.8                       | .37                            | 17.7            |
| <b>Household Size</b>                  |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1 Person .....                         | 57.8                       | .30                            | 3.0                        | .07                            | 15.1                       | .10                            | 5.5                        | .14                            | 11.8                       | .24                            | 15.6            |
| 2 to 4 Persons .....                   | 165.3                      | .94                            | 11.5                       | .27                            | 67.1                       | .49                            | 17.0                       | .39                            | 57.5                       | 1.11                           | 8.2             |
| 5 or More Persons .....                | 37.9                       | .22                            | 1.6                        | .03                            | 20.0                       | .13                            | 3.6                        | .08                            | 18.6                       | .35                            | 22.0            |

See footnotes at end of table.

Table 92. Total Consumption and Expenditures by End Uses in West Region Households, 1990 (Continued)

| Characteristics                        | Space Heating              |                                | Air Conditioning           |                                | Water Heating              |                                | Refrigerator               |                                | Appliances                 |                                | RSE Row Factors |
|--|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|-----------------|
|  | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) | Consumption (trillion Btu) | Expenditures (billion dollars) |                 |
| RSE Column Factors:                    | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             | NF                         | NF                             |                 |
| <b>Pacific Division</b> .....          | 408.0                      | 3.07                           | 28.7                       | 0.77                           | 251.5                      | 2.00                           | 65.2                       | 1.75                           | 263.6                      | 5.41                           | 5.6             |
| <b>Climate Zone<sup>1</sup></b>        |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 2,000 CDD and                    |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Over 5,500 HDD .....                   | 68.6                       | Q                              | Q                          | Q                              | 28.4                       | .30                            | 7.8                        | .12                            | 34.4                       | .54                            | 43.7            |
| Under 5,500 HDD .....                  | 325.1                      | 2.40                           | 25.3                       | .68                            | 209.0                      | 1.55                           | 52.0                       | 1.44                           | 213.8                      | 4.44                           | 11.0            |
| 2,000 CDD or More and                  |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 4,000 HDD .....                  | Q                          | Q                              | Q                          | Q                              | Q                          | Q                              | 5.4                        | .19                            | Q                          | .43                            | 51.4            |
| <b>Type of Housing Unit</b>            |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Single-Family .....                    | 318.8                      | 2.35                           | 20.7                       | .58                            | 166.4                      | 1.35                           | 48.3                       | 1.32                           | 207.5                      | 4.28                           | 8.6             |
| Mobile Home .....                      | 24.5                       | .21                            | .9                         | .02                            | 10.7                       | .09                            | 2.9                        | .06                            | 10.5                       | .18                            | 30.8            |
| Multifamily (2 or more units) .....    | 64.7                       | .51                            | 7.1                        | .16                            | 74.4                       | .55                            | 14.0                       | .37                            | 45.6                       | .95                            | 15.0            |
| <b>Heated Floorspace (square feet)</b> |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Fewer than 1,000 .....                 | 98.5                       | .83                            | 6.7                        | .14                            | 93.7                       | .80                            | 21.8                       | .58                            | 72.3                       | 1.47                           | 9.3             |
| 1,000 to 1,999 .....                   | 207.2                      | 1.55                           | 14.0                       | .38                            | 117.1                      | .90                            | 31.2                       | .82                            | 133.1                      | 2.73                           | 10.3            |
| 2,000 or More .....                    | 102.4                      | .68                            | 8.0                        | .24                            | 40.8                       | .29                            | 12.3                       | .34                            | 58.2                       | 1.21                           | 19.9            |
| <b>Ownership of Unit</b>               |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Owned .....                            | 278.9                      | 2.00                           | 21.1                       | .59                            | 134.6                      | 1.06                           | 43.2                       | 1.17                           | 177.4                      | 3.73                           | 7.5             |
| Rented .....                           | 129.1                      | 1.07                           | 7.6                        | .17                            | 116.8                      | .94                            | 22.1                       | .58                            | 86.2                       | 1.68                           | 10.2            |
| <b>Year of Construction</b>            |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1949 or Before .....                   | 119.7                      | .86                            | 2.2                        | .05                            | 56.7                       | .45                            | 14.2                       | .35                            | 56.5                       | 1.06                           | 12.6            |
| 1950 to 1979 .....                     | 216.0                      | 1.70                           | 13.1                       | .38                            | 140.1                      | 1.11                           | 36.2                       | .98                            | 150.1                      | 3.06                           | 9.6             |
| 1980 or After <sup>2</sup> .....       | 72.3                       | .52                            | 13.4                       | .33                            | 54.6                       | .43                            | 14.8                       | .42                            | 57.0                       | 1.29                           | 18.1            |
| <b>1990 Family Income</b>              |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Less than \$10,000 .....               | 38.1                       | .36                            | 1.0                        | .02                            | 25.5                       | .23                            | 6.1                        | .13                            | 20.7                       | .36                            | 20.1            |
| \$10,000 to \$19,999 .....             | 81.1                       | .61                            | 2.7                        | .07                            | 50.9                       | .42                            | 13.4                       | .34                            | 47.0                       | .88                            | 13.8            |
| \$20,000 to \$34,999 .....             | 89.0                       | .73                            | 5.7                        | .11                            | 59.9                       | .52                            | 15.3                       | .40                            | 60.5                       | 1.21                           | 13.0            |
| \$35,000 or More .....                 | 199.8                      | 1.39                           | 19.3                       | .56                            | 115.1                      | .84                            | 30.4                       | .87                            | 135.4                      | 2.96                           | 7.5             |
| <b>Below Poverty Line</b>              |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 100 Percent .....                      | 33.0                       | .29                            | 1.4                        | .04                            | 33.3                       | .30                            | 7.0                        | .17                            | 26.7                       | .50                            | 15.1            |
| 125 Percent .....                      | 52.2                       | .46                            | 1.9                        | .05                            | 45.5                       | .41                            | 10.3                       | .25                            | 38.2                       | .73                            | 14.9            |
| <b>Age of Householder</b>              |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| Under 35 Years .....                   | 99.4                       | .69                            | 10.0                       | .26                            | 91.2                       | .67                            | 17.9                       | .50                            | 77.2                       | 1.53                           | 13.7            |
| 35 to 59 Years .....                   | 194.7                      | 1.41                           | 13.5                       | .36                            | 118.0                      | .95                            | 29.7                       | .80                            | 128.7                      | 2.70                           | 8.1             |
| 60 Years and Over .....                | 113.8                      | .97                            | 5.2                        | .15                            | 42.3                       | .37                            | 17.6                       | .45                            | 57.7                       | 1.18                           | 15.4            |
| <b>Household Size</b>                  |                            |                                |                            |                                |                            |                                |                            |                                |                            |                                |                 |
| 1 Person .....                         | 99.3                       | .86                            | 3.8                        | .10                            | 38.0                       | .32                            | 14.3                       | .34                            | 40.5                       | .79                            | 10.1            |
| 2 to 4 Persons .....                   | 262.2                      | 1.86                           | 20.7                       | .54                            | 165.9                      | 1.25                           | 40.2                       | 1.09                           | 171.2                      | 3.50                           | 5.6             |
| 5 or More Persons .....                | 46.5                       | .35                            | 4.2                        | .13                            | 47.6                       | .42                            | 10.7                       | .32                            | 51.9                       | 1.12                           | 14.2            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Consumption and Expenditure data are for major energy sources which include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 93. Consumption by End Uses, per West Region Household, 1990**

| Characteristics     | All Uses             |                           | Space Heating        |                           | Air Conditioning     |                           | Water Heating        |                           | Refrigerator         |                           | Appliances           |                           | RSE Row Factors |
|---------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|-----------------|
|                     | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) |                 |
| RSE Column Factors: | 1.1                  | 0.6                       | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        |                 |

## West Region

|  |      |       |      |      |     |      |      |      |      |     |      |      |      |
|--|------|-------|------|------|-----|------|------|------|------|-----|------|------|------|
| <b>Total Region</b> .....              | 19.4 | 77.8  | 18.7 | 35.7 | 7.3 | 6.1  | 19.2 | 18.4 | 19.3 | 4.7 | 19.4 | 18.1 | 4.5  |
| <b>Climate Zone<sup>1</sup></b>        |      |       |      |      |     |      |      |      |      |     |      |      |      |
| Under 2,000 CDD and                    |      |       |      |      |     |      |      |      |      |     |      |      |      |
| Over 5,500 HDD .....                   | 4.7  | 103.9 | 4.7  | 59.7 | 1.2 | 5.0  | 4.7  | 21.3 | 4.7  | 4.3 | 4.7  | 18.5 | 12.7 |
| Under 5,500 HDD .....                  | 12.3 | 70.7  | 12.1 | 28.7 | 4.9 | 5.4  | 12.3 | 17.9 | 12.3 | 4.5 | 12.3 | 18.1 | 6.5  |
| 2,000 CDD or More and                  |      |       |      |      |     |      |      |      |      |     |      |      |      |
| Under 4,000 HDD .....                  | 2.3  | 62.5  | 1.9  | 22.4 | 1.2 | 10.2 | 2.2  | 15.0 | 2.3  | 6.8 | 2.3  | 17.4 | 13.3 |
| <b>Type of Housing Unit</b>            |      |       |      |      |     |      |      |      |      |     |      |      |      |
| Single-Family .....                    | 12.8 | 90.3  | 12.2 | 43.4 | 4.8 | 6.6  | 12.7 | 19.3 | 12.7 | 5.4 | 12.8 | 21.8 | 4.4  |
| Mobile Home .....                      | 1.2  | 76.4  | 1.2  | 39.5 | .4  | 4.5  | 1.2  | 16.6 | 1.2  | 4.3 | 1.2  | 16.0 | 15.0 |
| Multifamily (2 or more units) ...      | 5.4  | 49.0  | 5.4  | 17.5 | 2.1 | 5.3  | 5.4  | 16.7 | 5.4  | 3.3 | 5.4  | 9.9  | 8.6  |
| <b>Heated Floorspace (square feet)</b> |      |       |      |      |     |      |      |      |      |     |      |      |      |
| Fewer than 1,000 .....                 | 8.0  | 52.7  | 7.4  | 22.0 | 2.4 | 4.8  | 7.9  | 15.9 | 8.0  | 3.7 | 8.0  | 11.7 | 6.2  |
| 1,000 to 1,999 .....                   | 8.5  | 86.4  | 8.5  | 39.0 | 3.5 | 6.4  | 8.5  | 19.2 | 8.5  | 5.1 | 8.5  | 20.9 | 5.0  |
| 2,000 or More .....                    | 2.8  | 122.8 | 2.8  | 61.8 | 1.4 | 7.7  | 2.8  | 22.8 | 2.8  | 6.2 | 2.8  | 28.1 | 8.8  |
| <b>Ownership of Unit</b>               |      |       |      |      |     |      |      |      |      |     |      |      |      |
| Owned .....                            | 11.3 | 91.2  | 11.0 | 44.3 | 4.8 | 6.4  | 11.2 | 18.4 | 11.3 | 5.5 | 11.3 | 21.7 | 4.0  |
| Rented .....                           | 8.1  | 59.2  | 7.7  | 23.7 | 2.5 | 5.6  | 8.0  | 18.3 | 8.1  | 3.6 | 8.1  | 13.1 | 6.1  |
| <b>Year of Construction</b>            |      |       |      |      |     |      |      |      |      |     |      |      |      |
| 1949 or Before .....                   | 4.6  | 84.1  | 4.5  | 45.8 | 1.0 | 3.5  | 4.6  | 18.3 | 4.6  | 4.2 | 4.6  | 16.8 | 8.1  |
| 1950 to 1979 .....                     | 10.8 | 75.6  | 10.5 | 33.4 | 4.1 | 5.2  | 10.7 | 18.1 | 10.7 | 4.7 | 10.8 | 18.3 | 4.8  |
| 1980 or After <sup>2</sup> .....       | 4.0  | 76.5  | 3.7  | 30.4 | 2.2 | 9.0  | 4.0  | 19.1 | 4.0  | 5.4 | 4.0  | 19.3 | 9.8  |
| <b>1990 Family Income</b>              |      |       |      |      |     |      |      |      |      |     |      |      |      |
| Less than \$10,000 .....               | 2.9  | 54.5  | 2.8  | 26.3 | .8  | 3.7  | 2.8  | 13.9 | 2.9  | 3.5 | 2.9  | 10.9 | 10.4 |
| \$10,000 to \$19,999 .....             | 4.3  | 66.5  | 4.1  | 31.2 | 1.3 | 4.6  | 4.2  | 16.6 | 4.3  | 4.4 | 4.3  | 14.6 | 6.5  |
| \$20,000 to \$34,999 .....             | 5.0  | 76.1  | 4.8  | 35.9 | 1.6 | 5.3  | 5.0  | 18.6 | 5.0  | 4.4 | 5.0  | 17.2 | 7.9  |
| \$35,000 or More .....                 | 7.2  | 95.2  | 7.0  | 42.1 | 3.6 | 7.5  | 7.2  | 21.1 | 7.2  | 5.6 | 7.2  | 23.8 | 4.7  |
| <b>Below Poverty Line</b>              |      |       |      |      |     |      |      |      |      |     |      |      |      |
| 100 Percent .....                      | 2.8  | 58.0  | 2.6  | 24.0 | .7  | 4.4  | 2.7  | 17.3 | 2.7  | 3.8 | 2.8  | 13.7 | 10.1 |
| 125 Percent .....                      | 3.8  | 62.0  | 3.7  | 27.0 | 1.0 | 4.3  | 3.8  | 17.4 | 3.8  | 4.0 | 3.8  | 14.1 | 8.2  |
| <b>Age of Householder</b>              |      |       |      |      |     |      |      |      |      |     |      |      |      |
| Under 35 Years .....                   | 6.4  | 69.0  | 6.2  | 27.6 | 2.6 | 5.9  | 6.3  | 19.9 | 6.4  | 3.9 | 6.4  | 16.2 | 7.4  |
| 35 to 59 Years .....                   | 8.1  | 87.8  | 7.8  | 39.7 | 2.9 | 7.1  | 8.0  | 20.6 | 8.0  | 5.2 | 8.1  | 21.3 | 4.3  |
| 60 Years and Over .....                | 4.9  | 73.0  | 4.7  | 39.9 | 1.8 | 4.8  | 4.9  | 12.8 | 4.9  | 5.0 | 4.9  | 15.5 | 6.8  |
| <b>Household Size</b>                  |      |       |      |      |     |      |      |      |      |     |      |      |      |
| 1 Person .....                         | 5.0  | 58.1  | 4.8  | 32.6 | 1.7 | 4.1  | 4.9  | 10.8 | 4.9  | 4.0 | 5.0  | 10.5 | 5.7  |
| 2 to 4 Persons .....                   | 11.8 | 82.9  | 11.4 | 37.3 | 4.8 | 6.7  | 11.7 | 19.8 | 11.8 | 4.8 | 11.8 | 19.4 | 3.2  |
| 5 or More Persons .....                | 2.6  | 92.4  | 2.5  | 34.4 | .8  | 6.9  | 2.6  | 25.9 | 2.6  | 5.5 | 2.6  | 26.9 | 7.7  |

See footnotes at end of table.

Table 93. Consumption by End Uses, per West Region Household, 1990 (Continued)

| Characteristics                        | All Uses             |                           | Space Heating        |                           | Air Conditioning     |                           | Water Heating        |                           | Refrigerator         |                           | Appliances           |                           | RSE Row Factors |
|--|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|-----------------|
|  | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) |                 |
| RSE Column Factors:                    | 1.1                  | 0.6                       | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        |                 |
| <b>Mountain Division</b> .....         | 4.8                  | 101.8                     | 4.8                  | 54.2                      | 2.0                  | 8.1                       | 4.8                  | 21.1                      | 4.8                  | 5.4                       | 4.8                  | 18.2                      | 6.4             |
| <b>Climate Zone<sup>1</sup></b>        |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 2,000 CDD and                    |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Over 5,500 HDD .....                   | 2.9                  | 120.9                     | 2.9                  | 72.5                      | .9                   | 5.6                       | 2.9                  | 24.6                      | 2.9                  | 4.3                       | 2.9                  | 18.4                      | 12.3            |
| Under 5,500 HDD .....                  | .5                   | 93.0                      | .5                   | 44.4                      | Q                    | Q                         | .5                   | 21.6                      | .5                   | 6.2                       | .5                   | 18.8                      | 23.4            |
| 2,000 CDD or More and                  |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 4,000 HDD .....                  | 1.4                  | 65.7                      | 1.4                  | 20.3                      | .9                   | 10.5                      | 1.4                  | 13.8                      | 1.4                  | 7.3                       | 1.4                  | 17.5                      | 8.4             |
| <b>Type of Housing Unit</b>            |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Single-Family .....                    | 3.5                  | 112.7                     | 3.4                  | 61.2                      | 1.3                  | 8.7                       | 3.5                  | 22.4                      | 3.5                  | 5.8                       | 3.5                  | 20.5                      | 7.2             |
| Mobile Home .....                      | .5                   | 85.6                      | .5                   | 43.9                      | Q                    | 5.6                       | .5                   | 18.7                      | .5                   | 4.6                       | .5                   | 17.6                      | 19.6            |
| Multifamily (2 or more units) .....    | .9                   | 68.1                      | .9                   | 32.6                      | .6                   | 7.4                       | .9                   | 17.6                      | .9                   | 4.2                       | .9                   | 9.4                       | 20.7            |
| <b>Heated Floorspace (square feet)</b> |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Fewer than 1,000 .....                 | 1.7                  | 76.7                      | 1.7                  | 38.5                      | .7                   | 6.5                       | 1.7                  | 18.6                      | 1.7                  | 4.7                       | 1.7                  | 12.5                      | 13.3            |
| 1,000 to 1,999 .....                   | 2.3                  | 103.1                     | 2.3                  | 54.1                      | 1.0                  | 8.8                       | 2.3                  | 20.5                      | 2.3                  | 5.6                       | 2.3                  | 19.7                      | 7.6             |
| 2,000 or More .....                    | .9                   | 147.2                     | .9                   | 84.7                      | .3                   | 9.3                       | .9                   | 27.8                      | .9                   | 6.3                       | .9                   | 24.9                      | 13.1            |
| <b>Ownership of Unit</b>               |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Owned .....                            | 3.3                  | 113.4                     | 3.3                  | 62.8                      | 1.2                  | 7.9                       | 3.3                  | 21.8                      | 3.3                  | 5.7                       | 3.3                  | 20.6                      | 8.2             |
| Rented .....                           | 1.5                  | 76.7                      | 1.5                  | 35.6                      | .8                   | 8.4                       | 1.5                  | 19.6                      | 1.5                  | 4.7                       | 1.5                  | 12.9                      | 11.4            |
| <b>Year of Construction</b>            |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1949 or Before .....                   | 1.2                  | 120.6                     | 1.2                  | 73.4                      | .2                   | 5.3                       | 1.2                  | 23.5                      | 1.2                  | 4.5                       | 1.2                  | 18.2                      | 15.5            |
| 1950 to 1979 .....                     | 2.5                  | 101.3                     | 2.5                  | 53.6                      | 1.1                  | 7.4                       | 2.5                  | 21.1                      | 2.5                  | 5.6                       | 2.5                  | 18.2                      | 7.2             |
| 1980 or After <sup>2</sup> .....       | 1.1                  | 83.8                      | 1.1                  | 35.8                      | .6                   | 10.4                      | 1.1                  | 18.9                      | 1.1                  | 5.7                       | 1.1                  | 18.1                      | 14.2            |
| <b>1990 Family Income</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Less than \$10,000 .....               | .9                   | 77.9                      | .9                   | 42.1                      | .3                   | 6.4                       | .9                   | 16.5                      | .9                   | 4.5                       | .9                   | 12.9                      | 15.8            |
| \$10,000 to \$19,999 .....             | 1.0                  | 88.1                      | 1.0                  | 44.9                      | .4                   | 7.5                       | 1.0                  | 19.4                      | 1.0                  | 5.3                       | 1.0                  | 15.2                      | 11.0            |
| \$20,000 to \$34,999 .....             | 1.4                  | 109.9                     | 1.4                  | 61.6                      | .5                   | 5.5                       | 1.4                  | 23.6                      | 1.4                  | 4.9                       | 1.4                  | 18.6                      | 11.8            |
| \$35,000 or More .....                 | 1.6                  | 116.5                     | 1.6                  | 60.3                      | .7                   | 10.9                      | 1.6                  | 22.6                      | 1.6                  | 6.3                       | 1.6                  | 22.5                      | 8.3             |
| <b>Below Poverty Line</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 100 Percent .....                      | .7                   | 83.2                      | .7                   | 41.6                      | .2                   | 6.4                       | .7                   | 19.5                      | .7                   | 4.7                       | .7                   | 15.6                      | 19.3            |
| 125 Percent .....                      | 1.0                  | 87.6                      | 1.0                  | 45.1                      | .3                   | 6.9                       | 1.0                  | 20.1                      | 1.0                  | 4.7                       | 1.0                  | 15.6                      | 14.6            |
| <b>Age of Householder</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 35 Years .....                   | 1.5                  | 94.0                      | 1.5                  | 46.9                      | .7                   | 7.4                       | 1.5                  | 22.6                      | 1.5                  | 4.6                       | 1.5                  | 16.9                      | 9.6             |
| 35 to 59 Years .....                   | 2.1                  | 106.4                     | 2.1                  | 54.5                      | .8                   | 8.9                       | 2.1                  | 22.5                      | 2.1                  | 5.7                       | 2.1                  | 20.5                      | 8.1             |
| 60 Years and Over .....                | 1.2                  | 103.8                     | 1.2                  | 63.1                      | .5                   | 7.7                       | 1.2                  | 16.9                      | 1.2                  | 5.8                       | 1.2                  | 15.7                      | 12.1            |
| <b>Household Size</b>                  |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1 Person .....                         | 1.2                  | 79.8                      | 1.2                  | 49.5                      | .5                   | 5.9                       | 1.2                  | 13.0                      | 1.2                  | 4.7                       | 1.2                  | 10.1                      | 11.6            |
| 2 to 4 Persons .....                   | 3.0                  | 106.4                     | 3.0                  | 55.8                      | 1.3                  | 9.0                       | 3.0                  | 22.4                      | 3.0                  | 5.7                       | 3.0                  | 19.2                      | 6.8             |
| 5 or More Persons .....                | .7                   | 119.6                     | .7                   | 55.5                      | .2                   | 7.6                       | .7                   | 29.3                      | .7                   | 5.3                       | .7                   | 27.3                      | 13.6            |

See footnotes at end of table.

Table 93. Consumption by End Uses, per West Region Household, 1990 (Continued)

| Characteristics                        | All Uses             |                           | Space Heating        |                           | Air Conditioning     |                           | Water Heating        |                           | Refrigerator         |                           | Appliances           |                           | RSE Row Factors |
|--|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|-----------------|
|  | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) | Households (million) | Consumption (million Btu) |                 |
| RSE Column Factors:                    | 1.1                  | 0.6                       | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        | NF                   | NF                        |                 |
| <b>Pacific Division</b> .....          | 14.6                 | 69.9                      | 13.9                 | 29.4                      | 5.3                  | 5.4                       | 14.4                 | 17.4                      | 14.5                 | 4.5                       | 14.6                 | 18.1                      | 3.2             |
| <b>Climate Zone<sup>1</sup></b>        |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 2,000 CDD and                    |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Over 5,500 HDD .....                   | 1.8                  | 76.7                      | 1.8                  | 38.7                      | Q                    | Q                         | 1.8                  | 15.8                      | 1.8                  | 4.4                       | 1.8                  | 18.8                      | 16.3            |
| Under 5,500 HDD .....                  | 11.8                 | 69.7                      | 11.6                 | 28.0                      | 4.8                  | 5.3                       | 11.8                 | 17.7                      | 11.8                 | 4.4                       | 11.8                 | 18.1                      | 6.7             |
| 2,000 CDD or More and                  |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 4,000 HDD .....                  | .9                   | 57.6                      | Q                    | 28.2                      | Q                    | Q                         | Q                    | 17.1                      | .9                   | 6.0                       | .9                   | 17.2                      | 31.4            |
| <b>Type of Housing Unit</b>            |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Single-Family .....                    | 9.3                  | 81.9                      | 8.8                  | 36.4                      | 3.5                  | 5.9                       | 9.2                  | 18.1                      | 9.3                  | 5.2                       | 9.3                  | 22.3                      | 5.6             |
| Mobile Home .....                      | .7                   | 70.1                      | .7                   | 36.4                      | .2                   | 3.8                       | .7                   | 15.1                      | .7                   | 4.1                       | .7                   | 14.9                      | 21.7            |
| Multifamily (2 or more units) .....    | 4.6                  | 45.2                      | 4.5                  | 14.5                      | 1.6                  | 4.5                       | 4.5                  | 16.5                      | 4.6                  | 3.1                       | 4.6                  | 10.0                      | 9.2             |
| <b>Heated Floorspace (square feet)</b> |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Fewer than 1,000 .....                 | 6.3                  | 46.3                      | 5.7                  | 17.2                      | 1.7                  | 4.0                       | 6.2                  | 15.2                      | 6.3                  | 3.5                       | 6.3                  | 11.4                      | 6.8             |
| 1,000 to 1,999 .....                   | 6.3                  | 80.3                      | 6.2                  | 33.5                      | 2.6                  | 5.5                       | 6.3                  | 18.7                      | 6.3                  | 5.0                       | 6.3                  | 21.3                      | 6.0             |
| 2,000 or More .....                    | 2.0                  | 112.0                     | 2.0                  | 51.7                      | 1.1                  | 7.3                       | 2.0                  | 20.6                      | 2.0                  | 6.2                       | 2.0                  | 29.4                      | 10.6            |
| <b>Ownership of Unit</b>               |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Owned .....                            | 8.0                  | 81.9                      | 7.7                  | 36.3                      | 3.6                  | 5.9                       | 7.9                  | 17.0                      | 8.0                  | 5.4                       | 8.0                  | 22.2                      | 4.9             |
| Rented .....                           | 6.6                  | 55.1                      | 6.2                  | 20.7                      | 1.7                  | 4.4                       | 6.5                  | 18.0                      | 6.5                  | 3.4                       | 6.6                  | 13.1                      | 7.3             |
| <b>Year of Construction</b>            |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1949 or Before .....                   | 3.5                  | 71.9                      | 3.3                  | 36.1                      | .7                   | 3.0                       | 3.4                  | 16.5                      | 3.5                  | 4.1                       | 3.5                  | 16.3                      | 8.6             |
| 1950 to 1979 .....                     | 8.2                  | 67.7                      | 8.0                  | 27.0                      | 3.0                  | 4.4                       | 8.1                  | 17.2                      | 8.2                  | 4.4                       | 8.2                  | 18.3                      | 5.9             |
| 1980 or After <sup>2</sup> .....       | 2.9                  | 73.6                      | 2.6                  | 28.0                      | 1.6                  | 8.4                       | 2.8                  | 19.2                      | 2.8                  | 5.2                       | 2.9                  | 19.8                      | 12.9            |
| <b>1990 Family Income</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Less than \$10,000 .....               | 2.0                  | 44.7                      | 2.0                  | 19.4                      | .5                   | 2.1                       | 2.0                  | 12.8                      | 2.0                  | 3.1                       | 2.0                  | 10.1                      | 12.8            |
| \$10,000 to \$19,999 .....             | 3.3                  | 59.9                      | 3.0                  | 26.6                      | .9                   | 3.2                       | 3.2                  | 15.7                      | 3.3                  | 4.1                       | 3.3                  | 14.4                      | 7.9             |
| \$20,000 to \$34,999 .....             | 3.6                  | 63.2                      | 3.5                  | 25.8                      | 1.1                  | 5.2                       | 3.6                  | 16.6                      | 3.6                  | 4.2                       | 3.6                  | 16.6                      | 9.2             |
| \$35,000 or More .....                 | 5.6                  | 89.2                      | 5.4                  | 36.8                      | 2.9                  | 6.7                       | 5.6                  | 20.6                      | 5.6                  | 5.4                       | 5.6                  | 24.1                      | 5.7             |
| <b>Below Poverty Line</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 100 Percent .....                      | 2.1                  | 49.4                      | 1.9                  | 17.5                      | .4                   | 3.2                       | 2.0                  | 16.5                      | 2.0                  | 3.5                       | 2.1                  | 13.0                      | 11.0            |
| 125 Percent .....                      | 2.8                  | 52.7                      | 2.6                  | 19.9                      | .7                   | 2.9                       | 2.8                  | 16.4                      | 2.8                  | 3.7                       | 2.8                  | 13.6                      | 9.6             |
| <b>Age of Householder</b>              |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| Under 35 Years .....                   | 4.8                  | 61.1                      | 4.7                  | 21.3                      | 1.9                  | 5.4                       | 4.8                  | 19.0                      | 4.8                  | 3.7                       | 4.8                  | 15.9                      | 9.1             |
| 35 to 59 Years .....                   | 6.0                  | 81.2                      | 5.7                  | 34.2                      | 2.1                  | 6.4                       | 5.9                  | 19.9                      | 5.9                  | 5.0                       | 6.0                  | 21.6                      | 5.3             |
| 60 Years and Over .....                | 3.7                  | 63.1                      | 3.5                  | 32.1                      | 1.4                  | 3.8                       | 3.7                  | 11.5                      | 3.7                  | 4.7                       | 3.7                  | 15.4                      | 8.4             |
| <b>Household Size</b>                  |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                      |                           |                 |
| 1 Person .....                         | 3.8                  | 51.5                      | 3.6                  | 27.2                      | 1.2                  | 3.3                       | 3.7                  | 10.2                      | 3.8                  | 3.8                       | 3.8                  | 10.7                      | 6.5             |
| 2 to 4 Persons .....                   | 8.8                  | 74.9                      | 8.5                  | 30.9                      | 3.5                  | 5.9                       | 8.8                  | 18.9                      | 8.8                  | 4.6                       | 8.8                  | 19.4                      | 4.0             |
| 5 or More Persons .....                | 1.9                  | 82.8                      | 1.8                  | 26.3                      | .6                   | 6.6                       | 1.9                  | 24.7                      | 1.9                  | 5.5                       | 1.9                  | 26.7                      | 9.4             |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Consumption and Expenditure data are for major energy sources which include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 94. Expenditures by End Uses, per West Region Household, 1990

| Characteristics                        | All Uses             |                        | Space Heating        |                        | Air Conditioning     |                        | Water Heating        |                        | Refrigerator         |                        | Appliances           |                        | RSE Flow Factors |
|--|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|------------------|
|  | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) |                  |
|  | RSE Column Factors:  | 1.1                    | 0.6                  | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     |                  |
| <b>West Region</b>                     |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                  |
| <b>Total Region</b> .....              | 19.4                 | 920                    | 18.7                 | 242                    | 7.3                  | 156                    | 19.2                 | 141                    | 19.3                 | 122                    | 19.4                 | 366                    | 4.6              |
| <b>Climate Zone<sup>1</sup></b>        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                  |
| Under 2,000 CDD and                    |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                  |
| Over 5,500 HDD .....                   | 4.7                  | 902                    | 4.7                  | 341                    | 1.2                  | 79                     | 4.7                  | 153                    | 4.7                  | 79                     | 4.7                  | 316                    | 13.8             |
| Under 5,500 HDD .....                  | 12.3                 | 889                    | 12.1                 | 209                    | 4.9                  | 144                    | 12.3                 | 131                    | 12.3                 | 123                    | 12.3                 | 373                    | 6.9              |
| 2,000 CDD or More and                  |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                  |
| Under 4,000 HDD .....                  | 2.3                  | 1,119                  | 1.9                  | 208                    | 1.2                  | 279                    | 2.2                  | 171                    | 2.3                  | 204                    | 2.3                  | 432                    | 10.3             |
| <b>Type of Housing Unit</b>            |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                  |
| Single-Family .....                    | 12.8                 | 1,072                  | 12.2                 | 288                    | 4.8                  | 176                    | 12.7                 | 150                    | 12.7                 | 140                    | 12.8                 | 443                    | 4.7              |
| Mobile Home .....                      | 1.2                  | 801                    | 1.2                  | 291                    | .4                   | 89                     | 1.2                  | 130                    | 1.2                  | 95                     | 1.2                  | 266                    | 15.7             |
| Multifamily (2 or more units) ..       | 5.4                  | 588                    | 5.4                  | 126                    | 2.1                  | 122                    | 5.4                  | 124                    | 5.4                  | 85                     | 5.4                  | 208                    | 7.9              |
| <b>Heated Floorspace (square feet)</b> |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                  |
| Fewer than 1,000 .....                 | 8.0                  | 640                    | 7.4                  | 162                    | 2.4                  | 107                    | 7.9                  | 129                    | 8.0                  | 99                     | 8.0                  | 235                    | 6.0              |
| 1,000 to 1,999 .....                   | 8.5                  | 1,030                  | 8.5                  | 267                    | 3.5                  | 163                    | 8.5                  | 147                    | 8.5                  | 130                    | 8.5                  | 422                    | 5.6              |
| 2,000 or More .....                    | 2.8                  | 1,373                  | 2.8                  | 376                    | 1.4                  | 217                    | 2.8                  | 157                    | 2.8                  | 161                    | 2.8                  | 570                    | 9.7              |
| <b>Ownership of Unit</b>               |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                  |
| Owned .....                            | 11.3                 | 1,071                  | 11.0                 | 285                    | 4.8                  | 168                    | 11.2                 | 139                    | 11.3                 | 142                    | 11.3                 | 444                    | 4.3              |
| Rented .....                           | 8.1                  | 709                    | 7.7                  | 181                    | 2.5                  | 132                    | 8.0                  | 145                    | 8.1                  | 94                     | 8.1                  | 258                    | 6.0              |
| <b>Year of Construction</b>            |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                  |
| 1949 or Before .....                   | 4.6                  | 832                    | 4.5                  | 283                    | 1.0                  | 77                     | 4.6                  | 132                    | 4.6                  | 100                    | 4.6                  | 310                    | 8.6              |
| 1950 to 1979 .....                     | 10.8                 | 907                    | 10.5                 | 233                    | 4.1                  | 139                    | 10.7                 | 137                    | 10.7                 | 122                    | 10.8                 | 366                    | 4.8              |
| 1980 or After <sup>2</sup> .....       | 4.0                  | 1,056                  | 3.7                  | 217                    | 2.2                  | 221                    | 4.0                  | 162                    | 4.0                  | 145                    | 4.0                  | 430                    | 8.8              |
| <b>1990 Family Income</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                  |
| Less than \$10,000 .....               | 2.9                  | 612                    | 2.8                  | 204                    | .8                   | 93                     | 2.8                  | 117                    | 2.9                  | 80                     | 2.9                  | 196                    | 10.3             |
| \$10,000 to \$19,999 .....             | 4.3                  | 759                    | 4.1                  | 213                    | 1.3                  | 121                    | 4.2                  | 132                    | 4.3                  | 111                    | 4.3                  | 278                    | 7.1              |
| \$20,000 to \$34,999 .....             | 5.0                  | 851                    | 4.8                  | 241                    | 1.6                  | 107                    | 5.0                  | 144                    | 5.0                  | 110                    | 5.0                  | 334                    | 7.3              |
| \$35,000 or More .....                 | 7.2                  | 1,187                  | 7.0                  | 275                    | 3.6                  | 203                    | 7.2                  | 155                    | 7.2                  | 153                    | 7.2                  | 510                    | 4.8              |
| <b>Below Poverty Line</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                  |
| 100 Percent .....                      | 2.8                  | 698                    | 2.6                  | 185                    | .7                   | 116                    | 2.7                  | 152                    | 2.7                  | 93                     | 2.8                  | 256                    | 10.2             |
| 125 Percent .....                      | 3.8                  | 733                    | 3.7                  | 203                    | 1.0                  | 111                    | 3.8                  | 149                    | 3.8                  | 97                     | 3.8                  | 269                    | 8.5              |
| <b>Age of Householder</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                  |
| Under 35 Years .....                   | 6.4                  | 804                    | 6.2                  | 179                    | 2.6                  | 148                    | 6.3                  | 146                    | 6.4                  | 105                    | 6.4                  | 322                    | 7.2              |
| 35 to 59 Years .....                   | 8.1                  | 1,046                  | 7.8                  | 263                    | 2.9                  | 181                    | 8.0                  | 161                    | 8.0                  | 133                    | 8.1                  | 434                    | 4.2              |
| 60 Years and Over .....                | 4.9                  | 863                    | 4.7                  | 290                    | 1.8                  | 127                    | 4.9                  | 102                    | 4.9                  | 125                    | 4.9                  | 313                    | 7.1              |
| <b>Household Size</b>                  |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                  |
| 1 Person .....                         | 5.0                  | 657                    | 4.8                  | 242                    | 1.7                  | 103                    | 4.9                  | 86                     | 4.9                  | 98                     | 5.0                  | 207                    | 5.6              |
| 2 to 4 Persons .....                   | 11.8                 | 968                    | 11.4                 | 244                    | 4.8                  | 167                    | 11.7                 | 148                    | 11.8                 | 125                    | 11.8                 | 391                    | 3.3              |
| 5 or More Persons .....                | 2.6                  | 1,201                  | 2.5                  | 232                    | .8                   | 195                    | 2.6                  | 213                    | 2.6                  | 152                    | 2.6                  | 559                    | 8.1              |

See footnotes at end of table.

**Table 94. Expenditures by End Uses, per West Region Household, 1990 (Continued)**

| Characteristics                        | All Uses             |                        | Space Heating        |                        | Air Conditioning     |                        | Water Heating        |                        | Refrigerator         |                        | Appliances           |                        | RSE Row Factors |
|--|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|-----------------|
|  | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) |                 |
| RSE Column Factors:                    | 1.1                  | 0.6                    | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     |                 |
| <b>Mountain Division</b> .....         | 4.8                  | 1,002                  | 4.8                  | 303                    | 2.0                  | 187                    | 4.8                  | 149                    | 4.8                  | 126                    | 4.8                  | 351                    | 6.1             |
| <b>Climate Zone<sup>1</sup></b>        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 2,000 CDD and                    |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Over 5,500 HDD .....                   | 2.9                  | 942                    | 2.9                  | 354                    | .9                   | 96                     | 2.9                  | 144                    | 2.9                  | 88                     | 2.9                  | 330                    | 11.6            |
| Under 5,500 HDD .....                  | .5                   | 924                    | .5                   | 272                    | Q                    | Q                      | .5                   | 133                    | .5                   | 147                    | .5                   | 333                    | 26.7            |
| 2,000 CDD or More and                  |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 4,000 HDD .....                  | 1.4                  | 1,155                  | 1.4                  | 210                    | .9                   | 282                    | 1.4                  | 165                    | 1.4                  | 197                    | 1.4                  | 400                    | 6.6             |
| <b>Type of Housing Unit</b>            |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Single-Family .....                    | 3.5                  | 1,097                  | 3.4                  | 339                    | 1.3                  | 204                    | 3.5                  | 157                    | 3.5                  | 133                    | 3.5                  | 396                    | 7.5             |
| Mobile Home .....                      | .5                   | 798                    | .5                   | 260                    | Q                    | 91                     | .5                   | 128                    | .5                   | 103                    | .5                   | 284                    | 15.7            |
| Multifamily (2 or more units) ..       | .9                   | 744                    | .9                   | 185                    | .6                   | 176                    | .9                   | 131                    | .9                   | 109                    | .9                   | 210                    | 17.4            |
| <b>Heated Floorspace (square feet)</b> |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Fewer than 1,000 .....                 | 1.7                  | 776                    | 1.7                  | 219                    | .7                   | 157                    | 1.7                  | 128                    | 1.7                  | 121                    | 1.7                  | 246                    | 11.2            |
| 1,000 to 1,999 .....                   | 2.3                  | 1,054                  | 2.3                  | 310                    | 1.0                  | 203                    | 2.3                  | 154                    | 2.3                  | 127                    | 2.3                  | 382                    | 7.2             |
| 2,000 or More .....                    | .9                   | 1,304                  | .9                   | 444                    | .3                   | 206                    | .9                   | 178                    | .9                   | 132                    | .9                   | 473                    | 14.2            |
| <b>Ownership of Unit</b>               |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Owned .....                            | 3.3                  | 1,075                  | 3.3                  | 342                    | 1.2                  | 178                    | 3.3                  | 151                    | 3.3                  | 129                    | 3.3                  | 390                    | 8.3             |
| Rented .....                           | 1.5                  | 845                    | 1.5                  | 218                    | .8                   | 201                    | 1.5                  | 146                    | 1.5                  | 118                    | 1.5                  | 265                    | 9.5             |
| <b>Year of Construction</b>            |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1949 or Before .....                   | 1.2                  | 929                    | 1.2                  | 352                    | .2                   | 111                    | 1.2                  | 134                    | 1.2                  | 101                    | 1.2                  | 320                    | 14.9            |
| 1950 to 1979 .....                     | 2.5                  | 992                    | 2.5                  | 300                    | 1.1                  | 167                    | 2.5                  | 141                    | 2.5                  | 132                    | 2.5                  | 347                    | 7.1             |
| 1980 or After <sup>2</sup> .....       | 1.1                  | 1,101                  | 1.1                  | 258                    | .6                   | 252                    | 1.1                  | 184                    | 1.1                  | 136                    | 1.1                  | 390                    | 12.6            |
| <b>1990 Family Income</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Less than \$10,000 .....               | .9                   | 786                    | .9                   | 255                    | .3                   | 162                    | .9                   | 124                    | .9                   | 110                    | .9                   | 244                    | 15.8            |
| \$10,000 to \$19,999 .....             | 1.0                  | 921                    | 1.0                  | 256                    | .4                   | 190                    | 1.0                  | 142                    | 1.0                  | 136                    | 1.0                  | 306                    | 10.6            |
| \$20,000 to \$34,999 .....             | 1.4                  | 953                    | 1.4                  | 319                    | .5                   | 116                    | 1.4                  | 143                    | 1.4                  | 110                    | 1.4                  | 343                    | 10.2            |
| \$35,000 or More .....                 | 1.6                  | 1,214                  | 1.6                  | 345                    | .7                   | 245                    | 1.6                  | 173                    | 1.6                  | 142                    | 1.6                  | 444                    | 8.4             |
| <b>Below Poverty Line</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 100 Percent .....                      | .7                   | 880                    | .7                   | 266                    | .2                   | 161                    | .7                   | 163                    | .7                   | 115                    | .7                   | 287                    | 17.6            |
| 125 Percent .....                      | 1.0                  | 888                    | 1.0                  | 272                    | .3                   | 172                    | 1.0                  | 155                    | 1.0                  | 114                    | 1.0                  | 293                    | 13.8            |
| <b>Age of Householder</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 35 Years .....                   | 1.5                  | 961                    | 1.5                  | 270                    | .7                   | 173                    | 1.5                  | 164                    | 1.5                  | 110                    | 1.5                  | 342                    | 8.8             |
| 35 to 59 Years .....                   | 2.1                  | 1,050                  | 2.1                  | 304                    | .8                   | 198                    | 2.1                  | 161                    | 2.1                  | 129                    | 2.1                  | 381                    | 7.3             |
| 60 Years and Over .....                | 1.2                  | 970                    | 1.2                  | 341                    | .5                   | 190                    | 1.2                  | 110                    | 1.2                  | 140                    | 1.2                  | 308                    | 13.1            |
| <b>Household Size</b>                  |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1 Person .....                         | 1.2                  | 727                    | 1.2                  | 258                    | .5                   | 139                    | 1.2                  | 84                     | 1.2                  | 119                    | 1.2                  | 207                    | 11.1            |
| 2 to 4 Persons .....                   | 3.0                  | 1,066                  | 3.0                  | 317                    | 1.3                  | 209                    | 3.0                  | 164                    | 3.0                  | 129                    | 3.0                  | 370                    | 6.2             |
| 5 or More Persons .....                | .7                   | 1,195                  | .7                   | 317                    | .2                   | 168                    | .7                   | 195                    | .7                   | 121                    | .7                   | 513                    | 13.1            |

See footnotes at end of table.

Table 94. Expenditures by End Uses, per West Region Household, 1990 (Continued)

| Characteristics                        | All Uses             |                        | Space Heating        |                        | Air Conditioning     |                        | Water Heating        |                        | Refrigerator         |                        | Appliances           |                        | RSE Row Factors |
|--|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|-----------------|
|  | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) | Households (million) | Expenditures (dollars) |                 |
| RSE Column Factors:                    | 1.1                  | 0.6                    | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     | NF                   | NF                     |                 |
| <b>Pacific Division</b> .....          | 14.6                 | 892                    | 13.9                 | 221                    | 5.3                  | 144                    | 14.4                 | 139                    | 14.5                 | 120                    | 14.6                 | 371                    | 3.5             |
| <b>Climate Zone<sup>1</sup></b>        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 2,000 CDD and                    |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Over 5,500 HDD .....                   | 1.8                  | 837                    | 1.8                  | 322                    | Q                    | Q                      | 1.8                  | 167                    | 1.8                  | 65                     | 1.8                  | 294                    | 31.4            |
| Under 5,500 HDD .....                  | 11.8                 | 888                    | 11.6                 | 207                    | 4.8                  | 144                    | 11.8                 | 131                    | 11.8                 | 122                    | 11.8                 | 375                    | 7.1             |
| 2,000 CDD or More and                  |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 4,000 HDD .....                  | .9                   | 1,062                  | Q                    | 204                    | Q                    | Q                      | Q                    | 182                    | .9                   | 215                    | .9                   | 482                    | 25.6            |
| <b>Type of Housing Unit</b>            |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Single-Family .....                    | 9.3                  | 1,063                  | 8.8                  | 268                    | 3.5                  | 166                    | 9.2                  | 147                    | 9.3                  | 142                    | 9.3                  | 460                    | 6.1             |
| Mobile Home .....                      | .7                   | 804                    | .7                   | 313                    | .2                   | 87                     | .7                   | 130                    | .7                   | 90                     | .7                   | 254                    | 24.6            |
| Multifamily (2 or more units) ..       | 4.6                  | 557                    | 4.5                  | 114                    | 1.6                  | 103                    | 4.5                  | 122                    | 4.6                  | 80                     | 4.6                  | 208                    | 8.7             |
| <b>Heated Floorspace (square feet)</b> |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Fewer than 1,000 .....                 | 6.3                  | 604                    | 5.7                  | 145                    | 1.7                  | 86                     | 6.2                  | 129                    | 6.3                  | 93                     | 6.3                  | 232                    | 7.0             |
| 1,000 to 1,999 .....                   | 6.3                  | 1,022                  | 6.2                  | 251                    | 2.6                  | 149                    | 6.3                  | 145                    | 6.3                  | 131                    | 6.3                  | 436                    | 7.3             |
| 2,000 or More .....                    | 2.0                  | 1,403                  | 2.0                  | 346                    | 1.1                  | 220                    | 2.0                  | 148                    | 2.0                  | 173                    | 2.0                  | 612                    | 12.3            |
| <b>Ownership of Unit</b>               |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Owned .....                            | 8.0                  | 1,069                  | 7.7                  | 261                    | 3.6                  | 164                    | 7.9                  | 134                    | 8.0                  | 147                    | 8.0                  | 466                    | 5.4             |
| Rented .....                           | 6.6                  | 677                    | 6.2                  | 172                    | 1.7                  | 101                    | 6.5                  | 144                    | 6.5                  | 88                     | 6.6                  | 256                    | 7.2             |
| <b>Year of Construction</b>            |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1949 or Before .....                   | 3.5                  | 799                    | 3.3                  | 259                    | .7                   | 66                     | 3.4                  | 131                    | 3.5                  | 100                    | 3.5                  | 307                    | 10.1            |
| 1950 to 1979 .....                     | 8.2                  | 880                    | 8.0                  | 212                    | 3.0                  | 128                    | 8.1                  | 137                    | 8.2                  | 119                    | 8.2                  | 372                    | 6.0             |
| 1980 or After <sup>2</sup> .....       | 2.9                  | 1,039                  | 2.6                  | 200                    | 1.6                  | 209                    | 2.8                  | 153                    | 2.8                  | 149                    | 2.9                  | 446                    | 11.6            |
| <b>1990 Family Income</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Less than \$10,000 .....               | 2.0                  | 538                    | 2.0                  | 182                    | .5                   | 51                     | 2.0                  | 114                    | 2.0                  | 67                     | 2.0                  | 176                    | 12.6            |
| \$10,000 to \$19,999 .....             | 3.3                  | 709                    | 3.0                  | 199                    | .9                   | 86                     | 3.2                  | 129                    | 3.3                  | 103                    | 3.3                  | 269                    | 9.1             |
| \$20,000 to \$34,999 .....             | 3.6                  | 813                    | 3.5                  | 210                    | 1.1                  | 102                    | 3.6                  | 144                    | 3.6                  | 110                    | 3.6                  | 331                    | 9.7             |
| \$35,000 or More .....                 | 5.6                  | 1,180                  | 5.4                  | 255                    | 2.9                  | 192                    | 5.6                  | 150                    | 5.6                  | 156                    | 5.6                  | 528                    | 5.8             |
| <b>Below Poverty Line</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 100 Percent .....                      | 2.1                  | 636                    | 1.9                  | 155                    | .4                   | 91                     | 2.0                  | 148                    | 2.0                  | 86                     | 2.1                  | 245                    | 11.9            |
| 125 Percent .....                      | 2.8                  | 676                    | 2.6                  | 176                    | .7                   | 79                     | 2.8                  | 147                    | 2.8                  | 91                     | 2.8                  | 260                    | 10.7            |
| <b>Age of Householder</b>              |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| Under 35 Years .....                   | 4.8                  | 754                    | 4.7                  | 149                    | 1.9                  | 139                    | 4.8                  | 140                    | 4.8                  | 103                    | 4.8                  | 315                    | 9.3             |
| 35 to 59 Years .....                   | 6.0                  | 1,044                  | 5.7                  | 248                    | 2.1                  | 174                    | 5.9                  | 161                    | 5.9                  | 135                    | 6.0                  | 453                    | 5.4             |
| 60 Years and Over .....                | 3.7                  | 829                    | 3.5                  | 272                    | 1.4                  | 106                    | 3.7                  | 100                    | 3.7                  | 120                    | 3.7                  | 314                    | 8.7             |
| <b>Household Size</b>                  |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                      |                        |                 |
| 1 Person .....                         | 3.8                  | 635                    | 3.6                  | 237                    | 1.2                  | 87                     | 3.7                  | 87                     | 3.8                  | 91                     | 3.8                  | 207                    | 6.7             |
| 2 to 4 Persons .....                   | 8.8                  | 935                    | 8.5                  | 219                    | 3.5                  | 152                    | 8.8                  | 143                    | 8.8                  | 123                    | 8.8                  | 398                    | 4.3             |
| 5 or More Persons .....                | 1.9                  | 1,203                  | 1.8                  | 199                    | .6                   | 203                    | 1.9                  | 219                    | 1.9                  | 163                    | 1.9                  | 575                    | 9.6             |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Consumption and Expenditure data are for major energy sources which include: electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).



SPACE-HEATING CONSUMPTION/EXPENDITURES

WEST

Table 95. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in West Region Households, 1990

| Characteristics                             | Electricity          |                |               |                                | Natural Gas          |                |                      |                                      | RSE Row Factors |
|---|----------------------|----------------|---------------|--------------------------------|----------------------|----------------|----------------------|--------------------------------------|-----------------|
|   | Households (million) | Total Consumed |               | Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                 |
|   |                      | (trillion Btu) | (billion kWh) |                                |                      | (trillion Btu) | (billion cubic feet) |                                      |                 |
|   |                      |                |               |                                |                      |                |                      |                                      |                 |
| RSE Column Factors:                         | 0.9                  | NF             | NF            | 0.6                            | NF                   | NF             | NF                   | NF                                   |                 |
| <b>West Region</b>                          |                      |                |               |                                |                      |                |                      |                                      |                 |
| <b>Total Region</b> .....                   | 8.3                  | 78.2           | 22.9          | 1.35                           | 12.8                 | 551.4          | 536                  | 2.81                                 | 9.0             |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                |                      |                |                      |                                      |                 |
| Under 2,000 HDD and Over 5,500 HDD .....    | 2.2                  | 40.1           | 11.8          | .54                            | 2.7                  | 223.2          | 218                  | .92                                  | 27.0            |
| Under 5,500 HDD and 2,000 HDD or More ..... | 5.0                  | 33.0           | 9.7           | .68                            | 8.9                  | 292.3          | 283                  | 1.65                                 | 11.8            |
| Under 4,000 HDD .....                       | 1.0                  | 5.1            | 1.5           | .13                            | 1.2                  | 35.8           | 35                   | .24                                  | 23.6            |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                |                      |                |                      |                                      |                 |
| Single-Family .....                         | 5.3                  | 56.7           | 16.6          | .97                            | 8.7                  | 439.3          | 427                  | 2.25                                 | 12.4            |
| Mobile Home .....                           | .5                   | Q              | Q             | .11                            | .7                   | 32.8           | 32                   | .16                                  | 32.7            |
| Multifamily (2 or more units) ..            | 2.5                  | 14.0           | 4.1           | .27                            | 3.4                  | 79.3           | 77                   | .40                                  | 16.4            |
| <b>Heated Floorspace (square feet)</b>      |                      |                |               |                                |                      |                |                      |                                      |                 |
| Fewer than 1,000 .....                      | 3.5                  | 25.7           | 7.5           | .46                            | 4.7                  | 129.7          | 126                  | .66                                  | 10.6            |
| 1,000 to 1,999 .....                        | 3.6                  | 40.8           | 12.0          | .70                            | 6.0                  | 272.4          | 265                  | 1.40                                 | 12.2            |
| 2,000 or More .....                         | 1.1                  | 11.7           | 3.4           | .19                            | 2.2                  | 149.3          | 145                  | .76                                  | 18.1            |
| <b>Ownership of Unit</b>                    |                      |                |               |                                |                      |                |                      |                                      |                 |
| Owned .....                                 | 4.6                  | 45.5           | 13.3          | .76                            | 8.0                  | 409.6          | 398                  | 2.09                                 | 10.8            |
| Rented .....                                | 3.6                  | 32.8           | 9.6           | .59                            | 4.9                  | 141.8          | 138                  | .73                                  | 10.7            |
| <b>Year of Construction</b>                 |                      |                |               |                                |                      |                |                      |                                      |                 |
| 1949 or Before .....                        | 1.9                  | 18.3           | 5.4           | .29                            | 3.3                  | 171.2          | 167                  | .85                                  | 14.4            |
| 1950 to 1979 .....                          | 4.7                  | 45.9           | 13.4          | .78                            | 7.2                  | 285.8          | 278                  | 1.48                                 | 12.1            |
| 1980 or After <sup>2</sup> .....            | 1.7                  | 14.0           | 4.1           | .28                            | 2.3                  | 94.4           | 92                   | .49                                  | 19.7            |
| <b>1990 Family Income</b>                   |                      |                |               |                                |                      |                |                      |                                      |                 |
| Less than \$10,000 .....                    | 1.4                  | 14.8           | 4.3           | .23                            | 1.5                  | 51.9           | 51                   | .26                                  | 19.6            |
| \$10,000 to \$19,999 .....                  | 1.7                  | 17.9           | 5.3           | .28                            | 2.7                  | 99.6           | 97                   | .51                                  | 12.4            |
| \$20,000 to \$34,999 .....                  | 2.3                  | 21.5           | 6.3           | .37                            | 3.2                  | 138.2          | 134                  | .67                                  | 18.0            |
| \$35,000 or More .....                      | 2.9                  | 24.0           | 7.0           | .47                            | 5.4                  | 261.6          | 254                  | 1.37                                 | 10.4            |
| <b>Below Poverty Line</b>                   |                      |                |               |                                |                      |                |                      |                                      |                 |
| 100 Percent .....                           | 1.4                  | 12.6           | 3.7           | .20                            | 1.4                  | 45.2           | 44                   | .22                                  | 19.4            |
| 125 Percent .....                           | 1.8                  | 17.8           | 5.2           | .29                            | 2.1                  | 73.4           | 71                   | .37                                  | 15.5            |
| <b>Age of Householder</b>                   |                      |                |               |                                |                      |                |                      |                                      |                 |
| Under 35 Years .....                        | 2.4                  | 17.2           | 5.0           | .30                            | 4.4                  | 148.7          | 144                  | .76                                  | 14.4            |
| 35 to 59 Years .....                        | 3.5                  | 34.4           | 10.1          | .60                            | 5.5                  | 263.9          | 257                  | 1.35                                 | 10.6            |
| 60 Years and Over .....                     | 2.3                  | 26.6           | 7.8           | .45                            | 2.9                  | 138.7          | 135                  | .70                                  | 14.1            |
| <b>Household Size</b>                       |                      |                |               |                                |                      |                |                      |                                      |                 |
| 1 Person .....                              | 2.5                  | 25.9           | 7.6           | .45                            | 3.1                  | 119.4          | 117                  | .60                                  | 12.5            |
| 2 to 4 Persons .....                        | 4.8                  | 44.0           | 12.9          | .75                            | 8.0                  | 364.0          | 354                  | 1.86                                 | 10.7            |
| 5 or More Persons .....                     | 1.0                  | 8.4            | 2.5           | .15                            | 1.7                  | 67.9           | 65                   | .36                                  | 17.9            |

See footnotes at end of table.

SPACE-HEATING CONSUMPTION/EXPENDITURES

Table 95. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in West Region Households, 1990 (Continued)

| Characteristics                 | Electricity          |                |               |                                      |                      | Natural Gas    |                      |                                      |      |  | RSE Row Factors |
|---------------------------------|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|------|--|-----------------|
|                                 | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |      |  |                 |
|                                 |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |      |  |                 |
| RSE Column Factors:             | 0.9                  | NF             | NF            | NF                                   | 0.6                  | NF             | NF                   | NF                                   |      |  |                 |
| Mountain Division               | 1.7                  | 12.5           | 3.7           | 0.25                                 | 3.7                  | 234.4          | 228                  | 1.08                                 | 18.4 |  |                 |
| Climate Zone <sup>1</sup>       |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| Under 2,000 HDD and             |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| Over 5,500 HDD                  | .7                   | Q              | Q             | Q                                    | 2.4                  | 188.9          | 184                  | .78                                  | 26.3 |  |                 |
| Under 5,500 HDD                 | Q                    | Q              | Q             | Q                                    | .5                   | 21.9           | 21                   | .13                                  | 62.8 |  |                 |
| 2,000 HDD or More and           |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| Under 4,000 HDD                 | .8                   | 4.7            | 1.4           | .12                                  | .8                   | 23.7           | 23                   | .17                                  | 14.4 |  |                 |
| Type of Housing Unit            |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| Single-Family                   | 1.2                  | 9.1            | 2.7           | .18                                  | 2.7                  | 189.7          | 185                  | .88                                  | 17.3 |  |                 |
| Mobile Home                     | Q                    | Q              | Q             | Q                                    | .4                   | 17.7           | 17                   | .08                                  | 48.5 |  |                 |
| Multifamily (2 or more units)   | Q                    | Q              | Q             | Q                                    | .6                   | 27.1           | 26                   | .12                                  | 28.4 |  |                 |
| Heated Floorspace (square feet) |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| Fewer than 1,000                | .5                   | 2.8            | .8            | .07                                  | 1.3                  | 59.4           | 58                   | .28                                  | 24.0 |  |                 |
| 1,000 to 1,999                  | .9                   | 6.5            | 1.9           | .13                                  | 1.7                  | 109.7          | 107                  | .52                                  | 18.4 |  |                 |
| 2,000 or More                   | .3                   | Q              | Q             | .06                                  | .7                   | 65.4           | 64                   | .28                                  | 28.7 |  |                 |
| Ownership of Unit               |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| Owned                           | 1.1                  | 8.7            | 2.6           | .17                                  | 2.6                  | 186.5          | 181                  | .86                                  | 21.0 |  |                 |
| Rented                          | .5                   | 3.8            | 1.1           | .08                                  | 1.1                  | 48.0           | 47                   | .22                                  | 18.0 |  |                 |
| Year of Construction            |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| 1949 or Before                  | .3                   | 1.5            | .4            | .03                                  | 1.0                  | 77.5           | 76                   | .33                                  | 35.2 |  |                 |
| 1950 to 1979                    | .8                   | 6.6            | 1.9           | .12                                  | 2.1                  | 124.0          | 121                  | .59                                  | 18.9 |  |                 |
| 1980 or After <sup>2</sup>      | .6                   | 4.4            | 1.3           | .10                                  | .6                   | 32.9           | 32                   | .16                                  | 27.0 |  |                 |
| 1990 Family Income              |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| Less than \$10,000              | .3                   | 2.4            | .7            | .05                                  | .6                   | 30.9           | 30                   | .14                                  | 34.8 |  |                 |
| \$10,000 to \$19,999            | .3                   | 1.9            | .6            | .04                                  | .8                   | 42.9           | 41                   | .21                                  | 25.2 |  |                 |
| \$20,000 to \$34,999            | .4                   | Q              | Q             | .05                                  | 1.1                  | 75.8           | 74                   | .33                                  | 28.7 |  |                 |
| \$35,000 or More                | .6                   | 5.0            | 1.5           | .11                                  | 1.2                  | 84.9           | 83                   | .39                                  | 14.3 |  |                 |
| Below Poverty Line              |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| 100 Percent                     | .3                   | Q              | Q             | .05                                  | .4                   | 24.2           | 24                   | .11                                  | 39.8 |  |                 |
| 125 Percent                     | .4                   | 3.1            | .9            | .06                                  | .7                   | 40.4           | 39                   | .19                                  | 29.4 |  |                 |
| Age of Householder              |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| Under 35 Years                  | .5                   | 3.7            | 1.1           | .08                                  | 1.2                  | 65.4           | 63                   | .31                                  | 16.8 |  |                 |
| 35 to 59 Years                  | .7                   | 6.7            | 2.0           | .13                                  | 1.6                  | 102.3          | 100                  | .47                                  | 24.5 |  |                 |
| 60 Years and Over               | .4                   | 2.1            | .6            | .05                                  | 1.0                  | 66.7           | 65                   | .30                                  | 26.9 |  |                 |
| Household Size                  |                      |                |               |                                      |                      |                |                      |                                      |      |  |                 |
| 1 Person                        | .4                   | 1.5            | .4            | .03                                  | 1.0                  | 53.9           | 53                   | .24                                  | 25.2 |  |                 |
| 2 to 4 Persons                  | 1.0                  | 9.4            | 2.7           | .18                                  | 2.2                  | 146.6          | 143                  | .67                                  | 20.9 |  |                 |
| 5 or More Persons               | .2                   | 1.6            | .5            | .03                                  | .5                   | 33.9           | 32                   | .16                                  | 24.7 |  |                 |

See footnotes at end of table.

WEST

Table 95. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in West Region Households, 1990 (Continued)

| Characteristics                             | Electricity          |                |               |                                      | Natural Gas          |                |                      |                                      | RSE Row Factors |
|---|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|-----------------|
|   | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                 |
|   |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |                 |
| RSE Column Factors:                         | 0.9                  | NF             | NF            | NF                                   | 0.6                  | NF             | NF                   | NF                                   |                 |
| <b>Pacific Division</b> .....               | 6.6                  | 65.8           | 19.3          | 1.10                                 | 9.1                  | 316.9          | 308                  | 1.74                                 | 9.3             |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 1.5                  | Q              | Q             | Q                                    | .3                   | 34.3           | 34                   | .14                                  | 33.5            |
| Under 5,500 HDD .....                       | 4.9                  | 32.5           | 9.5           | .67                                  | 8.4                  | 270.5          | 262                  | 1.53                                 | 11.7            |
| 2,000 CDD or More and Under 4,000 HDD ..... | Q                    | Q              | Q             | Q                                    | Q                    | Q              | Q                    | Q                                    | NF              |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Single-Family .....                         | 4.1                  | 47.6           | 13.9          | .78                                  | 5.9                  | 249.6          | 243                  | 1.37                                 | 14.1            |
| Mobile Home .....                           | .3                   | Q              | Q             | Q                                    | .3                   | 15.1           | 15                   | .08                                  | 37.7            |
| Multifamily (2 or more units) ..            | 2.2                  | 12.2           | 3.6           | .23                                  | 2.8                  | 52.2           | 51                   | .28                                  | 18.1            |
| <b>Heated Floorspace (square feet)</b>      |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Fewer than 1,000 .....                      | 3.0                  | 22.9           | 6.7           | .39                                  | 3.4                  | 70.3           | 68                   | .38                                  | 10.6            |
| 1,000 to 1,999 .....                        | 2.8                  | 34.3           | 10.1          | .57                                  | 4.3                  | 162.7          | 158                  | .88                                  | 12.2            |
| 2,000 or More .....                         | .9                   | 8.5            | 2.5           | .14                                  | 1.5                  | 83.9           | 82                   | .48                                  | 22.5            |
| <b>Ownership of Unit</b>                    |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Owned .....                                 | 3.5                  | 36.8           | 10.8          | .60                                  | 5.3                  | 223.1          | 217                  | 1.23                                 | 12.0            |
| Rented .....                                | 3.1                  | 29.0           | 8.5           | .50                                  | 3.8                  | 93.9           | 91                   | .51                                  | 12.7            |
| <b>Year of Construction</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1949 or Before .....                        | 1.6                  | 16.9           | 4.9           | .26                                  | 2.3                  | 93.7           | 91                   | .52                                  | 11.9            |
| 1950 to 1979 .....                          | 3.9                  | 39.3           | 11.5          | .66                                  | 5.1                  | 161.7          | 157                  | .89                                  | 15.5            |
| 1980 or After <sup>2</sup> .....            | 1.2                  | 9.7            | 2.8           | .18                                  | 1.6                  | 61.5           | 60                   | .33                                  | 26.5            |
| <b>1990 Family Income</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Less than \$10,000 .....                    | 1.1                  | 12.4           | 3.6           | .18                                  | .9                   | 21.1           | 20                   | .11                                  | 20.0            |
| \$10,000 to \$19,999 .....                  | 1.4                  | 16.0           | 4.7           | .23                                  | 1.9                  | 56.7           | 55                   | .30                                  | 14.5            |
| \$20,000 to \$34,999 .....                  | 1.9                  | 18.4           | 5.4           | .31                                  | 2.1                  | 62.5           | 61                   | .34                                  | 16.0            |
| \$35,000 or More .....                      | 2.2                  | 19.0           | 5.6           | .37                                  | 4.2                  | 176.7          | 172                  | .98                                  | 13.2            |
| <b>Below Poverty Line</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 100 Percent .....                           | 1.1                  | 9.9            | 2.9           | .15                                  | .9                   | 21.0           | 20                   | .11                                  | 19.6            |
| 125 Percent .....                           | 1.4                  | 14.7           | 4.3           | .23                                  | 1.4                  | 33.0           | 32                   | .18                                  | 16.0            |
| <b>Age of Householder</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 35 Years .....                        | 1.9                  | 13.5           | 4.0           | .22                                  | 3.3                  | 83.3           | 81                   | .45                                  | 18.5            |
| 35 to 59 Years .....                        | 2.8                  | 27.7           | 8.1           | .47                                  | 3.9                  | 161.6          | 157                  | .89                                  | 11.1            |
| 60 Years and Over .....                     | 1.9                  | 24.5           | 7.2           | .40                                  | 1.9                  | 72.0           | 70                   | .40                                  | 16.3            |
| <b>Household Size</b>                       |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1 Person .....                              | 2.1                  | 24.4           | 7.2           | .42                                  | 2.1                  | 65.6           | 64                   | .35                                  | 13.6            |
| 2 to 4 Persons .....                        | 3.7                  | 34.6           | 10.1          | .57                                  | 5.8                  | 217.4          | 211                  | 1.19                                 | 12.0            |
| 5 or More Persons .....                     | .8                   | 6.8            | 2.0           | .12                                  | 1.2                  | 34.0           | 33                   | .19                                  | 22.2            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, E, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 96. Electricity Consumption and Expenditures for Main Space Heating, per West Region Household, 1990**

| Characteristics                                 | Consumption          |               |       | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Electricity Space-Heating Intensity     |  | RSE Row Factors |
|---|----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|---|--|-----------------|
|   | Households (million) | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (KWh/HDD* 1000 square feet) | Expenditures (cents/HDD* 1000 square feet) |                 |
| RSE Column Factors:                             | 1.5                  | NF            | NF    | NF                     | 0.5                             | 0.9                        | 0.9                          | NF                                      | NF   |                 |
| <b>West Region</b>                              |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| <b>Total Region</b> .....                       | 4.6                  | 15.3          | 4,471 | 253                    | 1,162                           | 3,723                      | 4,015                        | 1.03                                    | 5.8  | 9.2             |
| <b>Climate Zone<sup>1</sup></b>                 |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 2,000 HDD and Over 5,500 HDD .....        | 1.3                  | 27.9          | 8,163 | 361                    | 1,275                           | 6,016                      | 6,356                        | 1.06                                    | 4.7  | 12.2            |
| Under 5,500 HDD and 2,000 HDD or More .....     | 2.6                  | 11.0          | 3,223 | 217                    | 1,104                           | 3,212                      | 3,443                        | .91                                     | 6.1  | 9.6             |
| Under 4,000 HDD .....                           | .7                   | 6.7           | 1,965 | 175                    | 1,159                           | 1,164                      | 1,592                        | 1.46                                    | 13.0                                       | 6.0             |
| <b>Type of Housing Unit</b>                     |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Single-Family .....                             | 2.5                  | 20.1          | 5,900 | 327                    | 1,422                           | 3,957                      | 4,250                        | 1.05                                    | 5.8  | 11.6            |
| Mobile Home .....                               | 0                    | 24.5          | 7,183 | 361                    | 1,147                           | 5,153                      | 5,244                        | 1.22                                    | 6.1  | 16.4            |
| Multifamily (2 or more units) ..                | 1.8                  | 7.2           | 2,105 | 135                    | 814                             | 3,176                      | 3,499                        | .81                                     | 5.2  | 10.9            |
| <b>Heated Floorspace (square feet)</b>          |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Fewer than 1,000 .....                          | 2.3                  | 10.3          | 3,009 | 179                    | 715                             | 3,667                      | 3,930                        | 1.15                                    | 6.8  | 10.2            |
| 1,000 to 1,999 .....                            | 1.9                  | 18.9          | 5,539 | 311                    | 1,399                           | 3,689                      | 4,018                        | 1.07                                    | 6.0  | 11.0            |
| 2,000 or More .....                             | .3                   | 28.3          | 8,286 | 427                    | 2,826                           | 4,282                      | 4,568                        | .68                                     | 3.5  | 13.6            |
| <b>Ownership of Unit</b>                        |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Owned .....                                     | 2.0                  | 19.4          | 5,694 | 309                    | 1,497                           | 3,808                      | 4,108                        | 1.00                                    | 5.4  | 10.6            |
| Rented .....                                    | 2.6                  | 11.9          | 3,501 | 208                    | 896                             | 3,655                      | 3,941                        | 1.07                                    | 6.3  | 12.4            |
| <b>Year of Construction</b>                     |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 1949 or Before .....                            | .5                   | 28.7          | 8,415 | 430                    | 1,290                           | 5,424                      | 5,684                        | 1.20                                    | 6.1  | 17.1            |
| 1950 to 1979 .....                              | 2.8                  | 14.9          | 4,354 | 244                    | 1,130                           | 3,770                      | 4,042                        | 1.02                                    | 5.7  | 11.1            |
| 1980 or After <sup>2</sup> .....                | 1.2                  | 10.3          | 3,024 | 197                    | 1,178                           | 2,878                      | 3,229                        | .89                                     | 5.8  | 11.9            |
| <b>1990 Family Income</b>                       |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Less than \$10,000 .....                        | 1.0                  | 13.8          | 4,039 | 212                    | 851                             | 3,956                      | 4,248                        | 1.20                                    | 6.3  | 16.0            |
| \$10,000 to \$19,999 .....                      | 1.0                  | 16.1          | 4,731 | 241                    | 989                             | 4,184                      | 4,470                        | 1.14                                    | 5.8  | 13.1            |
| \$20,000 to \$34,999 .....                      | 1.2                  | 15.8          | 4,617 | 256                    | 1,179                           | 3,918                      | 4,199                        | 1.00                                    | 5.5  | 15.5            |
| \$35,000 or More .....                          | 1.3                  | 15.2          | 4,469 | 291                    | 1,524                           | 2,997                      | 3,302                        | .98                                     | 6.4  | 12.8            |
| <b>Below Poverty Line</b>                       |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 100 Percent .....                               | .9                   | 13.3          | 3,901 | 209                    | 862                             | 3,812                      | 4,158                        | 1.19                                    | 6.4  | 17.8            |
| 125 Percent .....                               | 1.2                  | 14.2          | 4,152 | 223                    | 913                             | 3,963                      | 4,281                        | 1.15                                    | 6.2  | 15.9            |
| <b>Age of Householder</b>                       |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 35 Years .....                            | 1.5                  | 10.4          | 3,043 | 171                    | 932                             | 3,095                      | 3,432                        | 1.05                                    | 5.9  | 13.3            |
| 35 to 59 Years .....                            | 1.8                  | 16.7          | 4,882 | 277                    | 1,286                           | 3,927                      | 4,229                        | .97                                     | 5.5  | 10.0            |
| 60 Years and Over .....                         | 1.3                  | 18.7          | 5,482 | 310                    | 1,246                           | 4,141                      | 4,369                        | 1.06                                    | 6.0  | 12.0            |
| <b>Household Size</b>                           |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 1 Person .....                                  | 1.6                  | 15.5          | 4,531 | 266                    | 971                             | 4,058                      | 4,268                        | 1.15                                    | 6.7  | 11.8            |
| 2 to 4 Persons .....                            | 2.6                  | 14.9          | 4,364 | 241                    | 1,218                           | 3,558                      | 3,900                        | 1.01                                    | 5.6  | 10.4            |
| 5 or More Persons .....                         | .4                   | 16.9          | 4,954 | 278                    | 1,578                           | 3,444                      | 3,740                        | .91                                     | 5.1  | 19.4            |
| <b>Main Heating Equipment Using Electricity</b> |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Central Warm-Air .....                          | 1.2                  | 17.1          | 5,003 | 292                    | 1,357                           | 3,165                      | 3,442                        | 1.17                                    | 6.8  | 13.3            |
| Furnace .....                                   |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Built-In Electric .....                         | 2.2                  | 16.5          | 4,841 | 246                    | 1,012                           | 4,639                      | 4,932                        | 1.03                                    | 5.2  | 10.7            |
| Units .....                                     | .8                   | 9.2           | 2,698 | 195                    | 1,397                           | 2,144                      | 2,501                        | .90                                     | 6.5  | 9.3             |
| Heat Pump .....                                 | .3                   | 15.1          | 4,425 | 295                    | 820                             | 3,606                      | 3,773                        | 1.50                                    | 10.0                                       | 21.7            |
| Other .....                                     |                      |               |       |                        |                                 |                            |                              |   |  |                 |

See footnotes at end of table.

**WEST**

SPACE-HEATING CONSUMPTION/EXPENDITURES

WEST

Table 96. Electricity Consumption and Expenditures for Main Space Heating, per West Region Household, 1990 (Continued)

| Characteristics   | Households (million) | Consumption   |       | Heated Floorspace (square feet) | Annual Heating Degree-Days |       | Electricity Space-Heating Intensity |   | RSE Row Factors |  |
|---|----------------------|---------------|-------|---------------------------------|----------------------------|-------|-------------------------------------|---|-----------------|--|
|   |                      | (million Btu) | (kWh) |                                 | Expenditures (dollars)     | 1990  | 30-Year Average <sup>1</sup>        | Consumption (kWh/HDD* 1000 square feet) |                 | Expenditures (cents/HDD* 1000 square feet) |
|   |                      |               |       |                                 |                            |       |                                     |   |                 |  |
| RSE Column Factors:   |                      |               |       |                                 |                            |       |                                     |   |                 |  |
|   | 1.5                  |               |       | 0.5                             |                            | 0.9   | 0.9                                 |   |                 |  |
| West Region   |                      |               |       |                                 |                            |       |                                     |   |                 |  |
| <b>Age of Main Heating Equipment</b>  |                      |               |       |                                 |                            |       |                                     |   |                 |  |
| Less than 5 Years .....   | 0.7                  | 13.3          | 3,903 | 251                             | 1,047                      | 3,133 | 3,406                               | 1.19                                    | 7.6             | 14.5                                       |
| 5 to 9 Years .....  | .8                   | 11.8          | 3,445 | 217                             | 1,143                      | 3,090 | 3,391                               | .98                                     | 6.1             | 15.8                                       |
| 10 to 19 Years .....  | 1.9                  | 15.8          | 4,634 | 257                             | 1,167                      | 3,993 | 4,287                               | .99                                     | 5.5             | 12.6                                       |
| 20 Years or More .....  | .7                   | 17.9          | 5,243 | 258                             | 1,173                      | 4,029 | 4,344                               | 1.11                                    | 5.5             | 12.0                                       |
| Don't Know .....  | .5                   | 17.9          | 5,249 | 291                             | 1,316                      | 4,141 | 4,404                               | .96                                     | 5.3             | 18.9                                       |
| <b>Secondary Heating Fuel (more than one may apply)</b>                     |                      |               |       |                                 |                            |       |                                     |   |                 |  |
| No .....  | 2.9                  | 13.6          | 3,987 | 224                             | 966                        | 3,670 | 3,972                               | 1.12                                    | 6.3             | 10.1                                       |
| Yes .....   | 1.7                  | 18.0          | 5,265 | 300                             | 1,483                      | 3,810 | 4,085                               | .93                                     | 5.3             | 11.6                                       |
| Wood .....  | 1.2                  | 20.0          | 5,863 | 311                             | 1,519                      | 4,300 | 4,589                               | .90                                     | 4.8             | 13.7                                       |
| Electricity .....   | Q                    | Q             | Q     | Q                               | Q                          | Q     | Q                                   | Q                                       | Q               | NF   |
| Natural Gas .....   | Q                    | 7.4           | 2,163 | 225                             | 1,521                      | 1,474 | 1,750                               | .96                                     | 10.0            | 20.6                                       |
| Kerosene .....  | Q                    | Q             | Q     | Q                               | Q                          | Q     | Q                                   | Q                                       | Q               | NF   |
| Other .....   | NC                   | NC            | NC    | NC                              | NC                         | NC    | NC                                  | NC                                      | NC              | NC   |
| <b>Average Electricity Expenditures for Main Space Heat (cents per kWh)</b> |                      |               |       |                                 |                            |       |                                     |   |                 |  |
| Less than 6 .....   | 2.1                  | 23.5          | 6,890 | 301                             | 1,180                      | 5,422 | 5,728                               | 1.08                                    | 4.7             | 11.7                                       |
| 6 to Less than 9 .....  | 1.1                  | 10.6          | 3,110 | 230                             | 1,146                      | 2,668 | 2,938                               | 1.02                                    | 7.5             | 16.2                                       |
| 9 or More .....   | 1.4                  | 6.6           | 1,927 | 199                             | 1,147                      | 2,008 | 2,295                               | .84                                     | 8.6             | 12.4                                       |
| <b>Winter Temperature Inside Housing Unit</b>                               |                      |               |       |                                 |                            |       |                                     |   |                 |  |
| Prefer .....  |                      |               |       |                                 |                            |       |                                     |   |                 |  |
| Usual Temperature .....   | 3.6                  | 15.4          | 4,526 | 259                             | 1,162                      | 3,729 | 4,014                               | 1.04                                    | 6.0             | 10.1                                       |
| Warmer Temperature .....  | .7                   | 15.2          | 4,456 | 251                             | 1,245                      | 3,568 | 3,847                               | 1.00                                    | 5.7             | 13.8                                       |
| Cooler Temperature .....  | .3                   | 13.0          | 3,807 | 177                             | 954                        | 4,046 | 4,455                               | .99                                     | 4.6             | 20.8                                       |
| <b>Adequacy of Insulation</b>   |                      |               |       |                                 |                            |       |                                     |   |                 |  |
| Well Insulated .....  | 1.4                  | 19.3          | 5,644 | 315                             | 1,378                      | 4,440 | 4,692                               | .92                                     | 5.2             | 11.2                                       |
| Adequately Insulated .....  | 1.9                  | 12.4          | 3,636 | 201                             | 1,098                      | 3,216 | 3,541                               | 1.03                                    | 5.7             | 10.6                                       |
| Poorly Insulated .....  | 1.2                  | 14.9          | 4,353 | 257                             | 1,007                      | 3,748 | 4,039                               | 1.15                                    | 6.8             | 13.6                                       |
| Don't Know .....  | Q                    | Q             | Q     | Q                               | Q                          | Q     | Q                                   | Q                                       | Q               | NF   |

See footnotes at end of table.

SPACE-HEATING CONSUMPTION/EXPENDITURES

Table 96. Electricity Consumption and Expenditures for Main Space Heating, per West Region Household, 1990 (Continued)

| Characteristics                        | Consumption          |               | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |       | Electricity Space-Heating Intensity |   | RSE Row Factor: |  |
|--|----------------------|---------------|------------------------|---------------------------------|----------------------------|-------|-------------------------------------|---|-----------------|--|
|  | Households (million) | (million Btu) |                        |                                 | (kWh)                      | 1990  | 30-Year Average <sup>1</sup>        | Consumption (kWh/HDD* 1000 square feet) |                 | Expenditures (cents/HDD* 1000 square feet) |
| RSE Column Factors:                    | 1.5                  | NF            | NF                     | 0.5                             | 0.9                        | 0.9   | NF                                  | NF                                      |                 |  |
| Mountain Division .....                | 0.9                  | 11.7          | 3,431                  | 233                             | 1,297                      | 2,470 | 2,904                               | 1.07                                    | 7.3             | 16.7                                       |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |                        |                                 |                            |       |                                     |   |                 |  |
| Under 2,000 HDD and                    | Q                    | 25.0          | 7,323                  | 382                             | 1,539                      | 6,037 | 6,452                               | .79                                     | 4.1             | 15.4                                       |
| Over 5,500 HDD .....                   | Q                    | Q             | Q                      | Q                               | Q                          | Q     | Q                                   | Q                                       | Q               | NF   |
| Under 5,500 HDD .....                  | Q                    | Q             | Q                      | Q                               | Q                          | Q     | Q                                   | Q                                       | Q               | NF   |
| 2,000 HDD or More and                  |                      |               |                        |                                 |                            |       |                                     |   |                 |  |
| Under 4,000 HDD .....                  | .6                   | 6.8           | 2,000                  | 179                             | 1,196                      | 1,152 | 1,597                               | 1.45                                    | 13.0            | 6.3  |
| <b>Type of Housing Unit</b>            |                      |               |                        |                                 |                            |       |                                     |   |                 |  |
| Single-Family .....                    | .6                   | 13.2          | 3,862                  | 261                             | 1,571                      | 2,330 | 2,773                               | 1.05                                    | 7.1             | 14.8                                       |
| Mobile Home .....                      | Q                    | Q             | Q                      | Q                               | Q                          | Q     | Q                                   | Q                                       | Q               | NF   |
| Multifamily (2 or more units) ..       | Q                    | Q             | Q                      | Q                               | 716                        | Q     | Q                                   | Q                                       | Q               | 20.3                                       |
| <b>Heated Floorspace (square feet)</b> |                      |               |                        |                                 |                            |       |                                     |   |                 |  |
| Fewer than 1,000 .....                 | Q                    | Q             | Q                      | 173                             | 703                        | Q     | Q                                   | 1.37                                    | 11.2            | 33.2                                       |
| 1,000 to 1,999 .....                   | .5                   | 11.6          | 3,408                  | 223                             | 1,385                      | 2,405 | 2,890                               | 1.02                                    | 6.7             | 16.3                                       |
| 2,000 or More .....                    | Q                    | Q             | Q                      | Q                               | Q                          | Q     | Q                                   | Q                                       | Q               | NF   |
| <b>Ownership of Unit</b>               |                      |               |                        |                                 |                            |       |                                     |   |                 |  |
| Owned .....                            | .5                   | 14.6          | 4,272                  | 272                             | 1,571                      | 2,848 | 3,261                               | .95                                     | 6.1             | 18.0                                       |
| Rented .....                           | .4                   | 8.5           | 2,487                  | 189                             | 989                        | 2,045 | 2,504                               | 1.23                                    | 9.4             | 30.3                                       |
| <b>Year of Construction</b>            |                      |               |                        |                                 |                            |       |                                     |   |                 |  |
| 1949 or Before .....                   | Q                    | Q             | Q                      | Q                               | Q                          | Q     | Q                                   | Q                                       | Q               | NF   |
| 1950 to 1979 .....                     | .4                   | 13.8          | 4,044                  | 251                             | 1,266                      | 2,794 | 3,146                               | 1.14                                    | 7.1             | 27.6                                       |
| 1980 or After <sup>2</sup> .....       | .4                   | 9.2           | 2,687                  | 207                             | 1,369                      | 1,975 | 2,483                               | .99                                     | 7.7             | 14.9                                       |
| <b>1990 Family Income</b>              |                      |               |                        |                                 |                            |       |                                     |   |                 |  |
| Less than \$10,000 .....               | Q                    | Q             | Q                      | 227                             | 1,000                      | Q     | Q                                   | 1.19                                    | Q               | 46.2                                       |
| \$10,000 to \$19,999 .....             | Q                    | 8.7           | 2,548                  | 190                             | 865                        | Q     | 2,539                               | 1.31                                    | 9.8             | 27.8                                       |
| \$20,000 to \$34,999 .....             | .2                   | 14.5          | 4,244                  | 239                             | 1,571                      | 3,067 | 3,446                               | .88                                     | 5.0             | 27.9                                       |
| \$35,000 or More .....                 | .3                   | 12.4          | 3,624                  | 259                             | 1,590                      | 2,120 | 2,592                               | 1.08                                    | 7.7             | 20.6                                       |
| <b>Below Poverty Line</b>              |                      |               |                        |                                 |                            |       |                                     |   |                 |  |
| 100 Percent .....                      | Q                    | Q             | Q                      | 243                             | 997                        | Q     | 3,726                               | Q                                       | Q               | 35.6                                       |
| 125 Percent .....                      | .3                   | 11.2          | 3,292                  | 228                             | 1,013                      | 2,813 | 3,311                               | 1.16                                    | Q               | 33.8                                       |
| <b>Age of Householder</b>              |                      |               |                        |                                 |                            |       |                                     |   |                 |  |
| Under 35 Years .....                   | .3                   | 9.2           | 2,692                  | 190                             | 1,050                      | 2,149 | 2,673                               | 1.19                                    | 8.4             | 18.5                                       |
| 35 to 59 Years .....                   | .4                   | 14.7          | 4,319                  | 272                             | 1,518                      | 2,968 | 3,364                               | .96                                     | 6.0             | 16.2                                       |
| 60 Years and Over .....                | Q                    | Q             | Q                      | 225                             | 1,258                      | Q     | Q                                   | Q                                       | Q               | 39.6                                       |
| <b>Household Size</b>                  |                      |               |                        |                                 |                            |       |                                     |   |                 |  |
| 1 Person .....                         | .1                   | 7.8           | 2,292                  | 177                             | 999                        | 2,018 | 2,266                               | 1.14                                    | Q               | 37.9                                       |
| 2 to 4 Persons .....                   | .7                   | 12.4          | 3,633                  | 244                             | 1,342                      | 2,536 | 3,020                               | 1.07                                    | 7.2             | 16.5                                       |
| 5 or More Persons .....                | Q                    | Q             | Q                      | Q                               | Q                          | Q     | Q                                   | Q                                       | Q               | NF   |

See footnotes at end of table.

WEST

SPACE-HEATING CONSUMPTION/EXPENDITURES

WEST

Table 96. Electricity Consumption and Expenditures for Main Space Heating, per West Region Household, 1990 (Continued)

| Characteristics                        | Households (million) | Consumption   |       | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Electricity Space-Heating Intensity     |  | RSE Row Factors |
|--|----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|---|--|-----------------|
|  |                      | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/HDD* 1000 square feet) | Expenditures (cents/HDD* 1000 square feet) |                 |
|  |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| RSE Column Factors:                    |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Pacific Division                       | 3.7                  | 16.1          | 4,725 | 258                    | 1,129                           | 4,028                      | 4,285                        | 1.04                                    | 5.7  | 10.3            |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 2,000 CDD and Over 5,500 HDD     | Q                    | 28.5          | 8,342 | 357                    | 1,219                           | 6,011                      | 6,335                        | 1.14                                    | 4.9  | 13.1            |
| Under 5,500 HDD and 2,000 CDD or More  | 2.6                  | 11.0          | 3,220 | 217                    | 1,099                           | 3,217                      | 3,447                        | .91                                     | 6.1  | 9.7             |
| Under 4,000 HDD                        | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| <b>Type of Housing Unit</b>            |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Single-Family                          | 1.9                  | 22.2          | 6,497 | 347                    | 1,378                           | 4,434                      | 4,683                        | 1.06                                    | 5.7  | 13.3            |
| Mobile Home                            | Q                    | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                       | Q  | NF              |
| Multifamily (2 or more units)          | 1.6                  | 7.3           | 2,152 | 131                    | 831                             | 3,352                      | 3,652                        | .77                                     | 4.7  | 10.7            |
| <b>Heated Floorspace (square feet)</b> |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Fewer than 1,000                       | 2.0                  | 10.8          | 3,152 | 179                    | 717                             | 3,900                      | 4,138                        | 1.13                                    | 6.4  | 10.2            |
| 1,000 to 1,999                         | 1.5                  | 21.3          | 6,238 | 339                    | 1,403                           | 4,110                      | 4,388                        | 1.08                                    | 5.9  | 12.1            |
| 2,000 or More                          | .2                   | 29.6          | 8,678 | 416                    | 2,910                           | 4,594                      | 4,892                        | .65                                     | 3.1  | 18.2            |
| <b>Ownership of Unit</b>               |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Owned                                  | 1.6                  | 20.9          | 6,128 | 321                    | 1,475                           | 4,100                      | 4,366                        | 1.01                                    | 5.3  | 13.2            |
| Rented                                 | 2.1                  | 12.6          | 3,702 | 212                    | 878                             | 3,975                      | 4,226                        | 1.06                                    | 6.1  | 12.8            |
| <b>Year of Construction</b>            |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 1949 or Before                         | .5                   | 30.4          | 8,900 | 447                    | 1,327                           | 5,630                      | 5,862                        | 1.19                                    | 6.0  | 17.5            |
| 1950 to 1979                           | 2.4                  | 15.0          | 4,408 | 242                    | 1,106                           | 3,940                      | 4,199                        | 1.01                                    | 5.6  | 12.3            |
| 1980 or After <sup>2</sup>             | .8                   | 10.9          | 3,196 | 191                    | 1,080                           | 3,341                      | 3,611                        | .89                                     | 5.3  | 18.9            |
| <b>1990 Family Income</b>              |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Less than \$10,000                     | .8                   | 14.4          | 4,225 | 209                    | 816                             | 4,249                      | 4,491                        | 1.22                                    | 6.0  | 17.1            |
| \$10,000 to \$19,999                   | .8                   | 17.9          | 5,242 | 253                    | 1,018                           | 4,637                      | 4,909                        | 1.11                                    | 5.4  | 13.0            |
| \$20,000 to \$34,999                   | 1.0                  | 16.0          | 4,680 | 259                    | 1,113                           | 4,062                      | 4,327                        | 1.04                                    | 5.7  | 17.1            |
| \$35,000 or More                       | 1.0                  | 16.2          | 4,748 | 301                    | 1,503                           | 3,287                      | 3,536                        | .96                                     | 6.1  | 16.6            |
| <b>Below Poverty Line</b>              |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 100 Percent                            | .7                   | 13.6          | 3,980 | 199                    | 822                             | 3,994                      | 4,286                        | 1.21                                    | 6.0  | 20.8            |
| 125 Percent                            | .9                   | 15.0          | 4,385 | 222                    | 886                             | 4,276                      | 4,545                        | 1.16                                    | 5.9  | 17.5            |
| <b>Age of Householder</b>              |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| Under 35 Years                         | 1.1                  | 10.7          | 3,150 | 166                    | 897                             | 3,381                      | 3,662                        | 1.04                                    | 5.5  | 16.0            |
| 35 to 59 Years                         | 1.4                  | 17.3          | 5,058 | 279                    | 1,219                           | 4,204                      | 4,480                        | .99                                     | 5.4  | 12.0            |
| 60 Years and Over                      | 1.2                  | 19.9          | 5,641 | 321                    | 1,245                           | 4,438                      | 4,651                        | 1.06                                    | 5.8  | 12.1            |
| <b>Household Size</b>                  |                      |               |       |                        |                                 |                            |                              |   |  |                 |
| 1 Person                               | 1.5                  | 16.2          | 4,751 | 274                    | 968                             | 4,258                      | 4,464                        | 1.15                                    | 6.7  | 12.6            |
| 2 to 4 Persons                         | 1.9                  | 15.8          | 4,619 | 241                    | 1,175                           | 3,914                      | 4,206                        | 1.00                                    | 5.2  | 12.4            |
| 5 or More Persons                      | .3                   | 18.0          | 5,286 | 288                    | 1,615                           | 3,646                      | 3,926                        | .90                                     | 4.9  | 26.8            |

1 The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

2 Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 97. Natural Gas Consumption and Expenditures for Main Space Heating, per West Region Household, 1990**

| Characteristics                                 | Households (million) | Consumption   |                   | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Natural Gas Space-Heating Intensity           |   | RSE Row Factors |
|---|----------------------|---------------|-------------------|------------------------|---------------------------------|----------------------------|------------------------------|---|---|-----------------|
|   |                      | (million Btu) | (1000 cubic feet) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (cubic feet/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
| RSE Column Factors:                             | 1.4                  | NF            | NF                | NF                     | 0.7                             | 0.9                        | 0.9                          | NF  | NF  |                 |
| <b>West Region</b>                              |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| <b>Total Region</b> .....                       | 12.4                 | 43.7          | 42.5              | 223                    | 1,389                           | 2,950                      | 3,221                        | 10.4  | 5.5                                       | 2.4             |
| <b>Climate Zone<sup>1</sup></b>                 |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Under 2,000 CDD and                             |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Over 5,500 HDD .....                            | 2.7                  | 82.4          | 80.5              | 341                    | 1,572                           | 6,344                      | 6,645                        | 8.1   | 3.4                                       | 5.5             |
| Under 5,500 HDD .....                           | 8.6                  | 33.5          | 32.4              | 189                    | 1,345                           | 2,060                      | 2,337                        | 11.7  | 6.8                                       | 2.5             |
| 2,000 CDD or More and                           |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Under 4,000 HDD .....                           | 1.1                  | 30.9          | 30.0              | 206                    | 1,293                           | 1,753                      | 1,921                        | 13.2  | 9.1                                       | 2.1             |
| <b>Type of Housing Unit</b>                     |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Single-Family .....                             | 8.3                  | 51.9          | 50.5              | 266                    | 1,668                           | 3,050                      | 3,326                        | 9.9   | 5.2                                       | 2.9             |
| Mobile Home .....                               | .7                   | 47.8          | 46.3              | 239                    | 951                             | 3,288                      | 3,518                        | 14.8  | 7.6                                       | 12.1            |
| Multifamily (2 or more units) ..                | 3.4                  | 23.1          | 22.4              | 117                    | 804                             | 2,641                      | 2,910                        | 10.5  | 5.5                                       | 2.4             |
| <b>Heated Floorspace (square feet)</b>          |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Fewer than 1,000 .....                          | 4.6                  | 28.0          | 27.2              | 142                    | 687                             | 2,754                      | 3,020                        | 14.4  | 7.5                                       | 2.2             |
| 1,000 to 1,999 .....                            | 5.6                  | 45.9          | 45.6              | 241                    | 1,435                           | 2,979                      | 3,244                        | 10.7  | 5.6                                       | 4.1             |
| 2,000 or More .....                             | 2.1                  | 69.1          | 67.1              | 352                    | 2,778                           | 3,295                      | 3,597                        | 7.3   | 3.8                                       | 7.2             |
| <b>Ownership of Unit</b>                        |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Owned .....                                     | 7.6                  | 52.7          | 51.2              | 269                    | 1,726                           | 3,131                      | 3,409                        | 9.5   | 5.0                                       | 2.0             |
| Rented .....                                    | 4.8                  | 29.4          | 28.6              | 151                    | 854                             | 2,662                      | 2,924                        | 12.6  | 6.6                                       | 4.8             |
| <b>Year of Construction</b>                     |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| 1949 or Before .....                            | 3.3                  | 51.1          | 49.7              | 254                    | 1,312                           | 3,176                      | 3,498                        | 11.9  | 6.1                                       | 2.2             |
| 1950 to 1979 .....                              | 6.9                  | 40.8          | 39.7              | 211                    | 1,302                           | 2,716                      | 2,961                        | 11.2  | 6.0                                       | 5.0             |
| 1980 or After <sup>2</sup> .....                | 2.2                  | 41.8          | 40.6              | 215                    | 1,770                           | 3,341                      | 3,621                        | 6.9   | 3.6                                       | 12.3            |
| <b>1990 Family Income</b>                       |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Less than \$10,000 .....                        | 1.5                  | 35.2          | 34.3              | 173                    | 802                             | 3,121                      | 3,386                        | 13.7  | 6.9                                       | 2.9             |
| \$10,000 to \$19,999 .....                      | 2.7                  | 37.3          | 36.1              | 191                    | 1,028                           | 2,807                      | 3,095                        | 12.5  | 6.6                                       | 2.5             |
| \$20,000 to \$34,999 .....                      | 3.1                  | 43.3          | 42.1              | 212                    | 1,240                           | 3,072                      | 3,341                        | 11.0  | 5.6                                       | 7.3             |
| \$35,000 or More .....                          | 5.2                  | 49.6          | 48.3              | 261                    | 1,826                           | 2,902                      | 3,169                        | 9.1   | 4.9                                       | 2.1             |
| <b>Below Poverty Line</b>                       |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| 100 Percent .....                               | 1.4                  | 32.9          | 32.1              | 163                    | 876                             | 2,865                      | 3,123                        | 12.8  | 6.5                                       | 11.7            |
| 125 Percent .....                               | 2.0                  | 36.0          | 34.9              | 179                    | 909                             | 2,964                      | 3,216                        | 13.0  | 6.7                                       | 8.9             |
| <b>Age of Householder</b>                       |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Under 35 Years .....                            | 4.4                  | 33.5          | 32.5              | 171                    | 1,117                           | 2,673                      | 2,945                        | 10.9  | 5.7                                       | 2.5             |
| 35 to 59 Years .....                            | 5.2                  | 48.7          | 48.4              | 254                    | 1,586                           | 3,205                      | 3,470                        | 9.5   | 5.0                                       | 5.0             |
| 60 Years and Over .....                         | 2.8                  | 48.6          | 47.1              | 247                    | 1,449                           | 2,906                      | 3,192                        | 11.2  | 5.9                                       | 2.1             |
| <b>Household Size</b>                           |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| 1 Person .....                                  | 2.9                  | 40.9          | 39.9              | 205                    | 1,098                           | 3,309                      | 3,602                        | 11.0  | 5.6                                       | 2.5             |
| 2 to 4 Persons .....                            | 7.8                  | 45.8          | 44.6              | 234                    | 1,478                           | 2,919                      | 3,186                        | 10.3  | 5.4                                       | 2.0             |
| 5 or More Persons .....                         | 1.7                  | 38.7          | 37.2              | 204                    | 1,478                           | 2,479                      | 2,737                        | 10.1  | 5.6                                       | 2.7             |
| <b>Main Heating Equipment Using Natural Gas</b> |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Central Warm-Air                                |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Furnace .....                                   | 8.1                  | 48.4          | 47.0              | 250                    | 1,596                           | 3,104                      | 3,375                        | 9.5   | 5.0                                       | 2.7             |
| Steam or Hot-Water System .....                 | .5                   | 85.3          | 83.7              | 368                    | 1,605                           | 5,770                      | 6,054                        | 9.0   | 4.0                                       | 18.8            |
| Floor, Wall, or Pipeless                        |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Furnace .....                                   | 3.0                  | 27.5          | 26.7              | 146                    | 941                             | 2,051                      | 2,301                        | 13.8  | 7.6                                       | 2.8             |
| Room Heater/Other .....                         | .7                   | 29.2          | 28.4              | 147                    | 810                             | 2,920                      | 3,282                        | 12.0  | 6.2                                       | 17.9            |

See footnotes at end of table.

**WEST**

**SPACE-HEATING CONSUMPTION/EXPENDITURES**



SPACE-HEATING CONSUMPTION/EXPENDITURES

WEST

Table 97. Natural Gas Consumption and Expenditures for Main Space Heating, per West Region Household, 1990 (Continued)

| Characteristics   | Households (million) | Consumption   |                   | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Natural Gas Space-Heating Intensity           |   | RSE Row Factors |
|---|----------------------|---------------|-------------------|------------------------|---------------------------------|----------------------------|------------------------------|---|---|-----------------|
|   |                      | (million Btu) | (1000 cubic feet) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (cubic feet/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
|   |                      | NF            | NF                |                        |                                 | 0.9                        | 0.9                          | NF  | NF  |                 |
| West Region   |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| RSE Column Factors:   |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
|   | 1.4                  |               |                   |                        | 0.7                             |                            |                              |   |   |                 |
| <b>Age of Main Heating Equipment</b>  |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Less than 5 Years   | 1.6                  | 49.5          | 48.1              | 258                    | 1,742                           | 3,223                      | 3,514                        | 8.6   | 4.6                                       | 8.9             |
| 5 to 9 Years  | 2.4                  | 39.7          | 38.5              | 197                    | 1,458                           | 3,257                      | 3,543                        | 8.1   | 4.2                                       | 9.4             |
| 10 to 19 Years  | 3.0                  | 49.3          | 47.9              | 257                    | 1,467                           | 3,027                      | 3,264                        | 10.8  | 5.8                                       | 7.3             |
| 20 Years or More  | 4.0                  | 43.9          | 42.7              | 222                    | 1,301                           | 2,823                      | 3,107                        | 11.6  | 6.0                                       | 7.3             |
| Don't Know  | 1.4                  | 31.1          | 30.4              | 159                    | 942                             | 2,298                      | 2,560                        | 14.0  | 7.4                                       | 8.5             |
| <b>Secondary Heating Fuel (more than one may apply)</b>                           |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| No  | 6.9                  | 39.0          | 37.9              | 198                    | 1,140                           | 2,905                      | 3,183                        | 11.4  | 6.0                                       | 5.7             |
| Yes   | 5.5                  | 49.6          | 48.2              | 255                    | 1,702                           | 3,005                      | 3,270                        | 9.4   | 5.0                                       | 4.9             |
| Wood  | 3.5                  | 55.4          | 53.9              | 284                    | 1,931                           | 3,111                      | 3,371                        | 9.0   | 4.7                                       | 5.8             |
| Electricity   | 2.6                  | 42.6          | 41.4              | 224                    | 1,525                           | 2,837                      | 3,108                        | 9.6   | 5.2                                       | 6.4             |
| Kerosene  | Q                    | Q             | Q                 | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |
| Other   | .3                   | 54.4          | 52.7              | 267                    | 1,986                           | 3,229                      | 3,410                        | 8.2   | 4.2                                       | 17.4            |
| <b>Average Natural Gas Expenditures for Main Space Heat (dollars per 1000 cf)</b> |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Less than 4.50  | 2.0                  | 80.5          | 79.9              | 305                    | 1,439                           | 5,949                      | 6,223                        | 9.3   | 3.6                                       | 9.9             |
| 4.50 to Less than 6   | 6.9                  | 35.2          | 33.8              | 181                    | 1,324                           | 2,574                      | 2,846                        | 9.9   | 5.3                                       | 5.3             |
| 6 or More   | 3.5                  | 39.9          | 38.7              | 260                    | 1,488                           | 2,011                      | 2,281                        | 12.9  | 8.7                                       | 9.3             |
| <b>Winter Temperature Inside Housing Unit</b>                                     |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Prefer  |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Usual Temperature   | 9.4                  | 43.8          | 42.6              | 224                    | 1,368                           | 2,990                      | 3,263                        | 10.4  | 5.5                                       | 4.4             |
| Warmer Temperature  | 2.4                  | 44.1          | 42.9              | 224                    | 1,487                           | 2,918                      | 3,179                        | 9.9   | 5.2                                       | 7.6             |
| Cooler Temperature  | .6                   | 40.3          | 38.6              | 212                    | 1,338                           | 2,448                      | 2,739                        | 11.8  | 6.5                                       | 11.3            |
| <b>Adequacy of Insulation</b>   |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Well Insulated  | 3.9                  | 46.6          | 45.3              | 240                    | 1,501                           | 3,123                      | 3,401                        | 9.7   | 5.1                                       | 5.8             |
| Adequately Insulated  | 5.0                  | 45.0          | 43.8              | 227                    | 1,425                           | 3,000                      | 3,282                        | 10.2  | 5.3                                       | 5.7             |
| Poorly Insulated  | 2.9                  | 39.7          | 38.6              | 207                    | 1,276                           | 2,666                      | 2,928                        | 11.3  | 6.1                                       | 5.1             |
| Don't Know  | .6                   | 32.4          | 31.6              | 164                    | 886                             | 2,776                      | 2,964                        | 12.8  | 6.7                                       | 18.2            |

See footnotes at end of table.

**SPACE-HEATING CONSUMPTION/EXPENDITURES**

**Table 97. Natural Gas Consumption and Expenditures for Main Space Heating, per West Region Household, 1990 (Continued)**

| Characteristics                         | Households (million) | Consumption   |                   | Expenditures (dollars) | Heated Floor-space (square feet) | Annual Heating Degree-Days |                              | Natural Gas Space-Heating Intensity           |   | RSE Row Factors |
|---|----------------------|---------------|-------------------|------------------------|----------------------------------|----------------------------|------------------------------|---|---|-----------------|
|   |                      | (million Btu) | (1000 cubic feet) |                        |                                  | 1990                       | 30-Year Average <sup>1</sup> | Consumption (cubic feet/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
| RSE Column Factors:                     | 1.4                  | NF            | NF                | NF                     | 0.7                              | 0.9                        | 0.9                          | NF  | NF  |                 |
| <b>Mountain Division</b>                | 3.6                  | 64.2          | 62.4              | 296                    | 1,429                            | 4,648                      | 4,955                        | 9.4   | 4.5                                       | 6.3             |
| <b>Climate Zone<sup>1</sup></b>         |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| Under 2,000 CDD and Over 5,500 HDD      | 2.3                  | 78.7          | 76.7              | 327                    | 1,529                            | 5,961                      | 6,302                        | 8.4   | 3.6                                       | 5.9             |
| Under 5,500 HDD                         | .5                   | 45.5          | 43.1              | 261                    | 1,172                            | 2,972                      | 3,220                        | 12.4  | 7.5                                       | 13.5            |
| 2,000 CDD or More and Under 4,000 HDD   | .8                   | 30.8          | 29.9              | 220                    | 1,278                            | 1,602                      | 1,844                        | 14.6  | 10.7                                      | 6.3             |
| <b>Type of Housing Unit</b>             |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| Single-Family                           | 2.6                  | 71.0          | 69.2              | 329                    | 1,660                            | 4,599                      | 4,912                        | 9.1   | 4.3                                       | 6.6             |
| Mobile Home                             | .4                   | 49.3          | 47.8              | 232                    | 911                              | 4,097                      | 4,395                        | 12.8  | 6.2                                       | 15.2            |
| Multifamily (2 or more units)           | .6                   | 44.1          | 42.6              | 195                    | 761                              | 5,176                      | 5,464                        | 10.8  | 5.0                                       | 10.4            |
| <b>Heated Floor-space (square feet)</b> |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| Fewer than 1,000                        | 1.3                  | 45.9          | 44.6              | 215                    | 719                              | 4,477                      | 4,763                        | 13.9  | 6.7                                       | 7.8             |
| 1,000 to 1,999                          | 1.6                  | 65.4          | 63.6              | 310                    | 1,422                            | 4,518                      | 4,825                        | 9.9   | 4.8                                       | 6.1             |
| 2,000 or More                           | .7                   | 96.8          | 94.1              | 418                    | 2,821                            | 5,289                      | 5,699                        | 6.3   | 2.8                                       | 7.1             |
| <b>Ownership of Unit</b>                |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| Owned                                   | 2.5                  | 72.1          | 70.1              | 332                    | 1,676                            | 4,704                      | 5,024                        | 8.9   | 4.2                                       | 6.7             |
| Rented                                  | 1.0                  | 45.2          | 43.9              | 210                    | 835                              | 4,514                      | 4,791                        | 11.7  | 5.6                                       | 8.5             |
| <b>Year of Construction</b>             |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| 1949 or Before                          | .9                   | 79.2          | 77.5              | 338                    | 1,292                            | 5,470                      | 5,827                        | 11.0  | 4.8                                       | 10.3            |
| 1950 to 1979                            | 2.0                  | 61.2          | 59.5              | 290                    | 1,390                            | 4,310                      | 4,607                        | 9.9   | 4.8                                       | 6.4             |
| 1980 or After <sup>2</sup>              | .6                   | 51.7          | 49.7              | 253                    | 1,756                            | 4,518                      | 4,788                        | 6.3   | 3.2                                       | 14.9            |
| <b>1990 Family Income</b>               |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| Less than \$10,000                      | .6                   | 52.4          | 51.1              | 241                    | 982                              | 4,676                      | 5,015                        | 11.1  | 5.2                                       | 12.5            |
| \$10,000 to \$19,999                    | .8                   | 54.9          | 53.1              | 270                    | 1,108                            | 4,217                      | 4,538                        | 11.4  | 5.3                                       | 6.5             |
| \$20,000 to \$34,999                    | 1.0                  | 68.9          | 67.1              | 305                    | 1,322                            | 5,052                      | 5,348                        | 10.0  | 4.6                                       | 9.3             |
| \$35,000 or More                        | 1.2                  | 72.2          | 70.3              | 333                    | 1,966                            | 4,563                      | 4,856                        | 7.8   | 3.7                                       | 6.3             |
| <b>Below Poverty Line</b>               |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| 100 Percent                             | .4                   | 56.5          | 55.2              | 259                    | 1,056                            | 4,723                      | 5,072                        | 11.1  | 5.2                                       | 15.4            |
| 125 Percent                             | .7                   | 58.0          | 56.4              | 270                    | 1,061                            | 4,725                      | 5,061                        | 11.2  | 5.4                                       | 13.1            |
| <b>Age of Householder</b>               |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| Under 35 Years                          | 1.1                  | 57.2          | 55.3              | 271                    | 1,269                            | 4,659                      | 4,959                        | 9.4   | 4.6                                       | 9.2             |
| 35 to 59 Years                          | 1.5                  | 66.2          | 64.7              | 302                    | 1,527                            | 4,659                      | 4,958                        | 9.1   | 4.2                                       | 7.4             |
| 60 Years and Over                       | .9                   | 69.4          | 67.3              | 318                    | 1,462                            | 4,615                      | 4,947                        | 10.0  | 4.7                                       | 8.3             |
| <b>Household Size</b>                   |                      |               |                   |                        |                                  |                            |                              |   |   |                 |
| 1 Person                                | 1.0                  | 55.6          | 54.7              | 252                    | 1,169                            | 4,796                      | 5,108                        | 9.8   | 4.5                                       | 8.3             |
| 2 to 4 Persons                          | 2.1                  | 68.6          | 66.8              | 314                    | 1,497                            | 4,627                      | 4,938                        | 9.6   | 4.5                                       | 6.3             |
| 5 or More Persons                       | .5                   | 62.6          | 59.6              | 304                    | 1,642                            | 4,457                      | 4,741                        | 8.1   | 4.2                                       | 13.2            |

See footnotes at end of table.

WEST

SPACE-HEATING CONSUMPTION/EXPENDITURES

WEST

Table 97. Natural Gas Consumption and Expenditures for Main Space Heating, per West Region Household, 1990 (Continued)

| Characteristics                            | Households (million) | Consumption   |                   | Expenditures (dollars) | Heated Floorspace (square feet) | Annual Heating Degree-Days |                              | Natural Gas Space-Heating Intensity           |   | RSE Row Factors |
|--|----------------------|---------------|-------------------|------------------------|---------------------------------|----------------------------|------------------------------|---|---|-----------------|
|  |                      | (million Btu) | (1000 cubic feet) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (cubic feet/HDD*1000 square feet) | Expenditures (cents/HDD*1000 square feet) |                 |
|  |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| RSE Column Factors:                        |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
|  | 1.4                  | NF            | NF                | NF                     | 0.7                             | 0.9                        | 0.9                          | NF  | NF  |                 |
| Pacific Division                           | 8.8                  | 35.4          | 34.4              | 194                    | 1,373                           | 2,264                      | 2,521                        | 11.1  | 6.2                                       | 4.9             |
| <b>Climate Zone<sup>1</sup></b>            |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Under 2,000 HDD and Over 5,500 HDD         | .3                   | 110.1         | 108.8             | 447                    | 1,893                           | 9,223                      | 9,221                        | 6.2   | 2.6                                       | 19.6            |
| Under 5,500 HDD and Over 2,000 HDD or More | 8.1                  | 32.8          | 31.8              | 185                    | 1,355                           | 2,007                      | 2,286                        | 11.7  | 6.8                                       | 5.7             |
| Under 4,000 HDD                            | Q                    | Q             | Q                 | Q                      | Q                               | Q                          | Q                            | Q   | Q   | NF              |
| <b>Type of Housing Unit</b>                |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Single-Family                              | 5.7                  | 43.2          | 42.0              | 237                    | 1,671                           | 2,344                      | 2,603                        | 10.7  | 6.1                                       | 5.7             |
| Mobile Home                                | .3                   | 46.1          | 44.7              | 246                    | 996                             | 2,392                      | 2,547                        | 18.8  | 10.3                                      | 16.9            |
| Multifamily (2 or more units)              | 2.8                  | 18.5          | 18.0              | 100                    | 813                             | 2,088                      | 2,353                        | 10.6  | 5.9                                       | 6.2             |
| <b>Heated Floorspace (square feet)</b>     |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Fewer than 1,000                           | 3.3                  | 21.0          | 20.4              | 113                    | 674                             | 2,083                      | 2,341                        | 14.6  | 8.1                                       | 5.5             |
| 1,000 to 1,999                             | 4.0                  | 39.6          | 38.4              | 214                    | 1,441                           | 2,365                      | 2,613                        | 11.3  | 6.3                                       | 4.4             |
| 2,000 or More                              | 1.5                  | 56.5          | 54.9              | 322                    | 2,759                           | 2,395                      | 2,674                        | 8.3   | 4.9                                       | 9.4             |
| <b>Ownership of Unit</b>                   |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Owned                                      | 5.1                  | 43.1          | 41.9              | 238                    | 1,751                           | 2,352                      | 2,609                        | 10.2  | 5.8                                       | 5.7             |
| Rented                                     | 3.7                  | 25.0          | 24.3              | 135                    | 859                             | 2,144                      | 2,401                        | 13.2  | 7.3                                       | 5.5             |
| <b>Year of Construction</b>                |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| 1949 or Before                             | 2.3                  | 40.0          | 38.8              | 221                    | 1,321                           | 2,270                      | 2,579                        | 12.9  | 7.4                                       | 5.8             |
| 1950 to 1979                               | 4.9                  | 32.4          | 31.5              | 179                    | 1,266                           | 2,058                      | 2,282                        | 12.1  | 6.9                                       | 7.2             |
| 1980 or After <sup>2</sup>                 | 1.6                  | 37.9          | 37.0              | 200                    | 1,775                           | 2,880                      | 3,163                        | 7.2   | 3.9                                       | 17.5            |
| <b>1990 Family Income</b>                  |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Less than \$10,000                         | .9                   | 23.8          | 23.1              | 128                    | 682                             | 2,083                      | 2,298                        | 16.3  | 9.0                                       | 8.5             |
| \$10,000 to \$19,999                       | 1.9                  | 29.9          | 29.0              | 158                    | 995                             | 2,219                      | 2,493                        | 13.2  | 7.2                                       | 7.8             |
| \$20,000 to \$34,999                       | 2.0                  | 30.2          | 29.3              | 165                    | 1,198                           | 2,063                      | 2,318                        | 11.9  | 6.7                                       | 6.0             |
| \$35,000 or More                           | 4.0                  | 43.1          | 41.9              | 240                    | 1,786                           | 2,425                      | 2,685                        | 9.7   | 5.5                                       | 6.8             |
| <b>Below Poverty Line</b>                  |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| 100 Percent                                | .9                   | 22.3          | 21.7              | 120                    | 796                             | 2,030                      | 2,246                        | 13.4  | 7.5                                       | 11.5            |
| 125 Percent                                | 1.3                  | 24.3          | 23.6              | 131                    | 830                             | 2,038                      | 2,247                        | 14.0  | 7.8                                       | 7.8             |
| <b>Age of Householder</b>                  |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| Under 35 Years                             | 3.3                  | 25.4          | 24.7              | 137                    | 1,064                           | 1,992                      | 2,254                        | 11.6  | 6.5                                       | 7.4             |
| 35 to 59 Years                             | 3.7                  | 42.9          | 41.7              | 235                    | 1,611                           | 2,605                      | 2,855                        | 9.9   | 5.6                                       | 5.3             |
| 60 Years and Over                          | 1.8                  | 38.2          | 37.1              | 212                    | 1,443                           | 2,061                      | 2,324                        | 12.5  | 7.1                                       | 7.1             |
| <b>Household Size</b>                      |                      |               |                   |                        |                                 |                            |                              |   |   |                 |
| 1 Person                                   | 1.9                  | 33.5          | 32.5              | 181                    | 1,062                           | 2,563                      | 2,846                        | 11.9  | 6.7                                       | 5.1             |
| 2 to 4 Persons                             | 5.7                  | 37.6          | 36.5              | 205                    | 1,471                           | 2,298                      | 2,549                        | 10.8  | 6.1                                       | 5.9             |
| 5 or More Persons                          | 1.2                  | 28.2          | 27.3              | 160                    | 1,406                           | 1,607                      | 1,853                        | 12.1  | 7.1                                       | 9.9             |

<sup>1</sup> The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: \* To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. \* Because of rounding, data may not sum to totals. \* See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**AIR-CONDITIONING CONSUMPTION/EXPENDITURES**

**Table 98. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, West Region Households, 1990**

| RSE Column Factors:                         | Characteristics | Electricity Used for All Air Conditioning |              | Electricity Used for Central Air Conditioning <sup>1</sup> |              |                                  |       |                              |   |  |                                     |      |      | F-SE<br>F-DW<br>F-BC-<br>K-DS |
|---|-----------------|---|--------------|--|--------------|----------------------------------|-------|------------------------------|---|--|-------------------------------------|------|------|-------------------------------|
|   |                 | Total Consumption                         | Expenditures | per Household  |              |                                  |       |                              | Annual Cooling Degree-Days                |  | Electric Air-Conditioning Intensity |      |      |                               |
|   |                 |   |              | Consumption  | Expenditures | Cooled Floor-space (square feet) | 1990  | 30-Year Average <sup>2</sup> | Con- sumption (kWh/ CDD*1000 square feet) | Ex- pend- itures (cents/ CDD*1000 square feet) |                                     |      |      |                               |
| <b>Total Region</b> .....                   |                 | 7.2                                       | 40.5         | 1.10   | 4.8          | 7.3                              | 2,153 | 205                          | 1,745                                     | 1,865  | 1,548                               | 0.66 | 6.3  | 4.9                           |
| <b>Climate Zone<sup>2</sup></b>             |                 |   |              |  |              |                                  |       |                              |   |  |                                     |      |      |                               |
| Under 2,000 CDD and Over 5,500 HDD .....    | 1.2             | 5.3                                       | .09          | .4   | 7.0          | 2,044                            | 126   | 1,987                        | 800                                       | 636  | 1.29                                | 7.9  | 16.5 |                               |
| Under 5,500 HDD and 2,000 CDD or More ..... | 4.8             | 23.0                                      | .67          | 3.3  | 6.2          | 1,819                            | 183   | 1,834                        | 1,416                                     | 1,145  | .70                                 | 7.0  | 10.0 |                               |
| Under 4,000 HDD .....                       | 1.2             | 12.2                                      | .34          | 1.1  | 10.9         | 3,203                            | 301   | 1,379                        | 3,643                                     | 3,127  | .64                                 | 6.0  | 6.0  |                               |
| <b>Type of Housing Unit</b>                 |                 |   |              |  |              |                                  |       |                              |   |  |                                     |      |      |                               |
| Single-Family .....                         | 4.7             | 30.2                                      | .82          | 3.2  | 8.2          | 2,415                            | 231   | 2,127                        | 1,874                                     | 1,526  | .61                                 | 5.8  | 6.1  |                               |
| Mobile Home .....                           | 4               | 1.8                                       | .04          | .2   | 6.4          | 1,864                            | 130   | 1,197                        | 1,219                                     | 1,117  | 1.28                                | 8.9  | 27.5 |                               |
| Multifamily (2 or more units) .....         | 2.0             | 8.5                                       | .24          | 1.3  | 5.3          | 1,552                            | 151   | 889                          | 1,937                                     | 1,664  | .90                                 | 8.8  | 14.2 |                               |
| <b>Heated Floorspace (square feet)</b>      |                 |   |              |  |              |                                  |       |                              |   |  |                                     |      |      |                               |
| Fewer than 1,000 .....                      | 2.3             | 8.6                                       | .23          | 1.2  | 5.3          | 1,556                            | 149   | 733                          | 2,138                                     | 1,852  | .99                                 | 9.5  | 13.6 |                               |
| 1,000 to 1,999 .....                        | 3.5             | 20.8                                      | .56          | 2.4  | 7.6          | 2,222                            | 208   | 1,649                        | 1,918                                     | 1,561  | .70                                 | 6.6  | 7.6  |                               |
| 2,000 or More .....                         | 1.4             | 11.1                                      | .31          | 1.2  | 8.9          | 2,611                            | 254   | 2,965                        | 1,481                                     | 1,212  | .59                                 | 5.8  | 10.3 |                               |
| <b>Ownership of Unit</b>                    |                 |   |              |  |              |                                  |       |                              |   |  |                                     |      |      |                               |
| Owned .....                                 | 4.8             | 29.2                                      | .79          | 3.3  | 7.8          | 2,277                            | 218   | 2,056                        | 1,734                                     | 1,426  | .64                                 | 6.1  | 6.5  |                               |
| Rented .....                                | 2.4             | 11.3                                      | .31          | 1.5  | 6.4          | 1,873                            | 176   | 1,047                        | 2,159                                     | 1,822  | .83                                 | 7.8  | 8.8  |                               |
| <b>Year of Construction</b>                 |                 |   |              |  |              |                                  |       |                              |   |  |                                     |      |      |                               |
| 1949 or Before .....                        | 1.0             | 3.4                                       | .07          | .3   | 7.5          | 2,187                            | 172   | 2,306                        | 1,548                                     | 1,247  | .61                                 | 4.8  | 23.0 |                               |
| 1950 to 1979 .....                          | 4.1             | 20.7                                      | .57          | 2.6  | 6.6          | 1,932                            | 187   | 1,607                        | 1,786                                     | 1,544  | .67                                 | 6.5  | 7.4  |                               |
| 1980 or After <sup>3</sup> .....            | 2.1             | 16.4                                      | .46          | 1.9  | 8.4          | 2,451                            | 235   | 1,848                        | 2,023                                     | 1,599  | .66                                 | 6.3  | 10.5 |                               |
| <b>1990 Family Income</b>                   |                 |   |              |  |              |                                  |       |                              |   |  |                                     |      |      |                               |
| Less than \$10,000 .....                    | .8              | 2.9                                       | .07          | .3   | 6.3          | 1,848                            | 165   | 920                          | 2,561                                     | 2,158  | .78                                 | 7.0  | 22.4 |                               |
| \$10,000 to \$19,999 .....                  | 1.3             | 5.8                                       | .16          | .8   | 6.1          | 1,800                            | 171   | 1,181                        | 2,161                                     | 1,856  | .71                                 | 6.7  | 12.6 |                               |
| \$20,000 to \$34,999 .....                  | 1.6             | 6.6                                       | .16          | .8   | 5.4          | 1,589                            | 135   | 1,417                        | 1,615                                     | 1,360  | .69                                 | 5.9  | 12.9 |                               |
| \$35,000 or More .....                      | 3.6             | 25.3                                      | .72          | 2.8  | 8.4          | 2,452                            | 239   | 2,093                        | 1,776                                     | 1,447  | .66                                 | 6.4  | 8.5  |                               |
| <b>Below Poverty Line</b>                   |                 |   |              |  |              |                                  |       |                              |   |  |                                     |      |      |                               |
| 100 Percent .....                           | .7              | 2.9                                       | .08          | .3   | 6.6          | 1,933                            | 185   | 1,380                        | 2,361                                     | 1,876  | .59                                 | 5.7  | 27.4 |                               |
| 125 Percent .....                           | 1.0             | 4.3                                       | .11          | .5   | 6.9          | 2,025                            | 185   | 1,370                        | 2,418                                     | 2,006  | .61                                 | 5.6  | 18.2 |                               |
| <b>Age of Householder</b>                   |                 |   |              |  |              |                                  |       |                              |   |  |                                     |      |      |                               |
| Under 35 Years .....                        | 2.5             | 13.0                                      | .36          | 1.6  | 6.8          | 1,984                            | 183   | 1,373                        | 1,924                                     | 1,539  | .75                                 | 7.3  | 11.0 |                               |
| 35 to 59 Years .....                        | 2.8             | 18.7                                      | .50          | 2.0  | 8.3          | 2,427                            | 230   | 2,000                        | 1,915                                     | 1,609  | .63                                 | 6.0  | 8.7  |                               |
| 60 Years and Over .....                     | 1.8             | 8.8                                       | .23          | 1.2  | 6.6          | 1,927                            | 178   | 1,822                        | 1,704                                     | 1,458  | .62                                 | 5.7  | 12.4 |                               |

See footnotes at end of table.

**WEST**

Table 98. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, West Region Households, 1990 (Continued)

| Characteristics  | Electricity Used for All Air Conditioning |                                  | Electricity Used for Central Air Conditioning <sup>1</sup> |                      |               |       |                        |                                  |                            |                              |                                     |                                  | RSE Flow Factors |
|--|---|----------------------------------|--|----------------------|---------------|-------|------------------------|----------------------------------|----------------------------|------------------------------|-------------------------------------|----------------------------------|------------------|
|  | Households (million)                      | Total Consumption (trillion Btu) | Expenditures (billion dollars)                             | Households (million) | Consumption   |       | Expenditures (dollars) | Cooled Floor-space (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity |                                  |                  |
|  |   |                                  |  |                      | (million Btu) | (kWh) |                        |                                  | 1990                       | 30-Year Average <sup>2</sup> | Consumption (kWh/square foot)       | Expenditures (cents/square foot) |                  |
|  |   |                                  |  |                      |               |       |                        |                                  |                            |                              |                                     |                                  |                  |
| 1.5  | NF  | NF                               | 1.6  | NF                   | NF            | NF    | 0.7                    | 0.8                              | 0.8                        | NF                           | NF                                  |                                  |                  |
| <b>West Region</b>   |   |                                  |  |                      |               |       |                        |                                  |                            |                              |                                     |                                  |                  |
| <b>Household Size</b>  |   |                                  |  |                      |               |       |                        |                                  |                            |                              |                                     |                                  |                  |
| 1 Person .....   | 1.6                                       | 6.4                              | 0.17   | 1.0                  | 5.5           | 1,600 | 148                    | 1,250                            | 1,658                      | 1,472                        | 0.77                                | 7.1                              | 13.9             |
| 2 to 4 Persons .....   | 4.7                                       | 28.4                             | .77  | 3.2                  | 7.7           | 2,256 | 214                    | 1,926                            | 1,920                      | 1,580                        | .64                                 | 6.1                              | 5.0              |
| 5 or More Persons .....  | .8  | 5.8                              | .16  | .6                   | 8.6           | 2,518 | 252                    | 2,137                            | 1,908                      | 1,494                        | .62                                 | 6.2                              | 12.7             |
| <b>Cooling Degree-Days (CDD)-1990</b>                            |   |                                  |  |                      |               |       |                        |                                  |                            |                              |                                     |                                  |                  |
| 2,000 or More .....  | 1.9                                       | 17.7                             | .51  | 1.7                  | 10.3          | 3,028 | 301                    | 1,700                            | 3,174                      | 2,644                        | .56                                 | 5.6                              | 11.8             |
| 1,000 to 1,999 .....   | 2.7                                       | 13.0                             | .35  | 1.6                  | 6.4           | 1,889 | 177                    | 1,671                            | 1,612                      | 1,333                        | .70                                 | 6.6                              | 13.3             |
| 500 to 999 .....   | 1.8                                       | 7.5                              | .19  | 1.0                  | 6.0           | 1,785 | 157                    | 1,919                            | 879                        | 708                          | 1.05                                | 9.3                              | 10.5             |
| Fewer than 500 .....   | .9  | 2.3                              | .05  | .5                   | 3.2           | 929   | 76                     | 1,780                            | 363                        | 323                          | 1.44                                | 11.7                             | 20.0             |
| <b>Average Humidity for June, July and August 1990 (percent)</b> |   |                                  |  |                      |               |       |                        |                                  |                            |                              |                                     |                                  |                  |
| Less than 65 .....   | 3.3                                       | 21.9                             | .53  | 2.2                  | 8.5           | 2,504 | 213                    | 1,564                            | 2,408                      | 2,042                        | .66                                 | 5.7                              | 5.9              |
| 65 to Less than 70 .....   | 1.5                                       | 9.1                              | .28  | 1.0                  | 7.6           | 2,233 | 240                    | 2,108                            | 1,730                      | 1,374                        | .61                                 | 6.6                              | 13.5             |
| 70 or Higher .....   | 2.4                                       | 9.4                              | .29  | 1.5                  | 5.4           | 1,589 | 168                    | 1,758                            | 1,170                      | 950                          | .77                                 | 8.2                              | 8.4              |
| <b>Average Electricity Expenditures (cents per kWh)</b>          |   |                                  |  |                      |               |       |                        |                                  |                            |                              |                                     |                                  |                  |
| Less than 6 .....  | .8  | 3.7                              | .05  | .3                   | 7.6           | 2,216 | 104                    | 2,326                            | 836                        | 607                          | 1.14                                | 5.4                              | 24.5             |
| 6 to Less than 9 .....   | 2.1                                       | 12.7                             | .30  | 1.4                  | 8.1           | 2,360 | 192                    | 1,521                            | 2,214                      | 1,814                        | .70                                 | 5.7                              | 11.2             |
| 9 or More .....  | 4.3                                       | 24.1                             | .75  | 3.1                  | 7.0           | 2,055 | 220                    | 1,787                            | 1,811                      | 1,521                        | .63                                 | 6.8                              | 6.6              |
| <b>Number of Rooms Usually Air Conditioned</b>                   |   |                                  |  |                      |               |       |                        |                                  |                            |                              |                                     |                                  |                  |
| 1 to 3 .....   | 2.3                                       | 5.8                              | .16  | .5                   | 4.9           | 1,449 | 148                    | 732                              | 1,878                      | 1,746                        | 1.05                                | 10.8                             | 11.8             |
| 4 to 6 .....   | 3.6                                       | 24.0                             | .65  | 3.1                  | 7.2           | 2,122 | 199                    | 1,462                            | 2,019                      | 1,664                        | .72                                 | 6.7                              | 5.8              |
| 7 or More .....  | 1.3                                       | 10.7                             | .30  | 1.2                  | 8.6           | 2,517 | 242                    | 2,873                            | 1,469                      | 1,173                        | .60                                 | 5.7                              | 11.0             |
| <b>Frequency of Use of Air Conditioning<sup>4</sup></b>          |   |                                  |  |                      |               |       |                        |                                  |                            |                              |                                     |                                  |                  |
| Only a Few Times .....   | 3.3                                       | 9.2                              | .26  | 1.8                  | 4.2           | 1,232 | 120                    | 1,679                            | 1,474                      | 1,222                        | .50                                 | 4.9                              | 9.1              |
| Quite a Bit .....  | 2.1                                       | 14.6                             | .40  | 1.5                  | 8.4           | 2,463 | 237                    | 1,885                            | 1,816                      | 1,512                        | .72                                 | 6.9                              | 8.9              |
| All Summer .....   | 1.7                                       | 16.1                             | .43  | 1.4                  | 10.4          | 3,048 | 283                    | 1,697                            | 2,445                      | 2,019                        | .73                                 | 6.8                              | 6.7              |
| Other .....  | Q   | Q                                | Q  | Q                    | Q             | Q     | Q                      | Q                                | Q                          | Q                            | Q                                   | Q                                | NF               |
| <b>Age of Air Conditioning Equipment<sup>4</sup></b>             |   |                                  |  |                      |               |       |                        |                                  |                            |                              |                                     |                                  |                  |
| Less than 5 Years .....  | 1.6                                       | 9.7                              | .27  | 1.2                  | 7.5           | 2,197 | 211                    | 1,860                            | 1,896                      | 1,585                        | .62                                 | 6.0                              | 12.5             |
| 5 to 9 Years .....   | 2.2                                       | 13.2                             | .37  | 1.5                  | 7.8           | 2,273 | 222                    | 1,823                            | 1,830                      | 1,444                        | .68                                 | 6.6                              | 10.9             |
| 10 or More Years .....   | 2.5                                       | 13.5                             | .35  | 1.6                  | 7.1           | 2,094 | 192                    | 1,724                            | 1,791                      | 1,512                        | .68                                 | 6.2                              | 8.7              |
| Don't Know .....   | .8  | 3.5                              | .10  | .4                   | 6.3           | 1,859 | 176                    | 1,383                            | 2,077                      | 1,834                        | .65                                 | 6.1                              | 11.9             |

See footnotes at end of table.

AIR-CONDITIONING CONSUMPTION/EXPENDITURES

Table 98. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, West Region Households, 1990 (Continued)

| Characteristics                        | Electricity Used for All Air Conditioning |      | Electricity Used for Central Air Conditioning <sup>1</sup> |    |                            |       |                                     |       |              |       |     |      | RSE Row Factors |     |      |
|--|---|------|--|----|----------------------------|-------|-------------------------------------|-------|--------------|-------|-----|------|-----------------|-----|------|
|  | 1.5                                       | NF   | per Household  |    |                            |       |                                     |       |              |       |     |      |                 |     |      |
|  |   |      | Consumption  |    | Annual Cooling Degree-Days |       | Electric Air-Conditioning Intensity |       | Expenditures |       |     |      |                 |     |      |
| RSE Column Factors:                    | 1.5                                       | NF   | 1.6  | NF | NF                         | NF    | 0.7                                 | 0.8   | 0.8          | NF    | NF  | NF   | NF              |     |      |
| <b>Climate Zone<sup>2</sup></b>        |   |      |  |    |                            |       |                                     |       |              |       |     |      |                 |     |      |
| Under 2,000 CDD and Over 5,500 HDD     | .9  | Q    | .4   | Q  | 7.3                        | 2,148 | 138                                 | Q     | 2,002        | 863   | 696 | 1.24 | Q               | 8.0 | 18.3 |
| Under 5,500 HDD and 2,000 CDD or More  | .9  | Q    | .4   | Q  | 7.3                        | 2,148 | 138                                 | Q     | 2,002        | 863   | 696 | 1.24 | Q               | 8.0 | NF   |
| Under 4,000 HDD                        | .9  | 9.7  | .26  | .8 | 11.6                       | 3,395 | 311                                 | 1,289 | 4,026        | 3,374 | .65 | 6.0  | 4.4             |     |      |
| <b>Type of Housing Unit</b>            |   |      |  |    |                            |       |                                     |       |              |       |     |      |                 |     |      |
| Single-Family                          | 1.3                                       | 11.0 | .26  | .8 | 11.6                       | 3,407 | 279                                 | 1,914 | 3,001        | 2,494 | .59 | 4.9  | 7.7             |     |      |
| Mobile Home                            | .5  | 3.3  | .09  | .4 | 7.2                        | 2,114 | 202                                 | 785   | 3,015        | 2,573 | .89 | 8.5  | 21.5            |     |      |
| Multifamily (2 or more units)          |   |      |  |    |                            |       |                                     |       |              |       |     |      |                 |     |      |
| <b>Heated Floorspace (square feet)</b> |   |      |  |    |                            |       |                                     |       |              |       |     |      |                 |     |      |
| Fewer than 1,000                       | .7  | 3.8  | .10  | .4 | 7.2                        | 2,120 | 207                                 | 704   | 3,304        | 2,853 | .91 | 8.9  | 16.9            |     |      |
| 1,000 to 1,999                         | 1.0                                       | 8.4  | .19  | .7 | 11.3                       | 3,304 | 265                                 | 1,543 | 2,980        | 2,416 | .72 | 5.8  | 10.9            |     |      |
| 2,000 or More                          | .3  | 3.1  | .07  | .2 | 12.4                       | 3,629 | 282                                 | 3,129 | 1,969        | 1,718 | .59 | 4.6  | 29.4            |     |      |
| <b>Overship of Unit</b>                |   |      |  |    |                            |       |                                     |       |              |       |     |      |                 |     |      |
| Owned                                  | 1.2                                       | 9.6  | .22  | .7 | 11.0                       | 3,210 | 255                                 | 1,937 | 2,667        | 2,223 | .62 | 4.9  | 10.5            |     |      |
| Rented                                 | .7  | 5.6  | .15  | .6 | 9.1                        | 2,655 | 241                                 | 1,007 | 3,240        | 2,727 | .81 | 7.4  | 15.0            |     |      |
| <b>Year of Construction</b>            |   |      |  |    |                            |       |                                     |       |              |       |     |      |                 |     |      |
| 1949 or Before                         | .2  | 1.2  | .03  | .7 | 9.3                        | 2,721 | 234                                 | 1,406 | 2,999        | 2,583 | .64 | 5.5  | 9.1             |     |      |
| 1950 to 1979                           | 1.1                                       | 7.6  | .18  | .5 | 11.4                       | 3,355 | 279                                 | 1,628 | 2,902        | 2,347 | .71 | 5.9  | 9.8             |     |      |
| 1980 or After <sup>3</sup>             | .6  | 6.4  | .16  | .5 | 11.4                       | 3,355 | 279                                 | 1,628 | 2,902        | 2,347 | .71 | 5.9  | 9.8             |     |      |
| <b>1990 Family Income</b>              |   |      |  |    |                            |       |                                     |       |              |       |     |      |                 |     |      |
| Less than \$10,000                     | .3  | 1.9  | .05  | .3 | 7.9                        | 2,308 | 204                                 | 1,000 | 3,111        | 2,543 | .74 | 6.6  | 22.5            |     |      |
| \$10,000 to \$19,999                   | .4  | 3.0  | .08  | .3 | 8.9                        | 2,614 | 252                                 | 1,035 | 3,549        | 3,086 | .71 | 6.8  | 12.2            |     |      |
| \$20,000 to \$34,999                   | .5  | 2.8  | .06  | .3 | 7.9                        | 2,323 | 174                                 | 1,402 | 2,388        | 2,030 | .69 | 5.2  | 21.9            |     |      |
| \$35,000 or More                       | .7  | 7.6  | .18  | .5 | 12.6                       | 3,699 | 300                                 | 2,022 | 2,792        | 2,289 | .66 | 5.3  | 10.1            |     |      |
| <b>Below Poverty Line</b>              |   |      |  |    |                            |       |                                     |       |              |       |     |      |                 |     |      |
| 100 Percent                            | .2  | Q    | .06  | .2 | 8.8                        | 2,576 | 225                                 | 1,091 | 3,299        | 2,702 | .68 | 6.1  | 34.2            |     |      |
| 125 Percent                            | .3  | Q    | .24  | .2 | 8.8                        | 2,576 | 225                                 | 1,091 | 3,299        | 2,702 | .72 | 6.2  | 15.4            |     |      |
| <b>Age of Householder</b>              |   |      |  |    |                            |       |                                     |       |              |       |     |      |                 |     |      |
| Under 35 Years                         | .7  | 4.8  | .12  | .5 | 8.8                        | 2,594 | 218                                 | 1,193 | 2,880        | 2,321 | .75 | 6.3  | 16.6            |     |      |
| 35 to 59 Years                         | .8  | 6.8  | .16  | .4 | 12.1                       | 3,556 | 295                                 | 1,757 | 3,129        | 2,673 | .65 | 5.4  | 8.4             |     |      |
| 60 Years and Over                      | .5  | 3.6  | .09  | .4 | 9.3                        | 2,715 | 232                                 | 1,663 | 2,735        | 2,349 | .80 | 5.1  | 9.3             |     |      |
| <b>Household Size</b>                  |   |      |  |    |                            |       |                                     |       |              |       |     |      |                 |     |      |
| 1 Person                               | .5  | 2.5  | .07  | .3 | 7.3                        | 2,130 | 199                                 | 1,092 | 2,733        | 2,452 | .71 | 6.7  | 20.5            |     |      |
| 2 to 4 Persons                         | 1.3                                       | 11.1 | .26  | .9 | 10.7                       | 3,150 | 260                                 | 1,593 | 2,992        | 2,459 | .66 | 5.4  | 6.2             |     |      |
| 5 or More Persons                      | .2  | 1.6  | .03  | .3 | 7.3                        | 2,130 | 199                                 | 1,092 | 2,733        | 2,452 | .61 | 4.9  | 20.5            |     |      |

See footnotes at end of table.

WEST

Table 98. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, West Region Households, 1990 (Continued)

| Characteristics                             | Electricity Used for All Air Conditioning |                                  | Electricity Used for Central Air Conditioning <sup>1</sup> |       |                      |                                |                        |                                  |                            |                                     |   |  | RSE Flow Factors |
|---|---|----------------------------------|--|-------|----------------------|--------------------------------|------------------------|----------------------------------|----------------------------|-------------------------------------|---|--|------------------|
|   | Households (million)                      | Total Consumption (trillion Btu) | Consumption  |       | Households (million) | Expenditures (billion dollars) | per Household          |                                  |                            | Electric Air-Conditioning Intensity |   |  |                  |
|   |   |                                  | (million Btu)  | (kWh) |                      |                                | Expenditures (dollars) | Cooled Floor-space (square feet) | Annual Cooling Degree-Days |                                     | Con- sumption (kWh/1000 CDD*1000 square feet) | Ex- pend- itures (cents/1000 CDD*1000 square feet) |                  |
|   |   |                                  |  |       |                      |                                |                        |                                  | 1990                       | 30-Year Average <sup>2</sup>        |   |  |                  |
| RSE Column Factors:                         | 1.5                                       | NF                               | NF   | NF    | 1.6                  | NF                             | NF                     | 0.7                              | 0.8                        | 0.8                                 | NF  | NF   |                  |
| <b>Pacific Division</b> .....               | 5.2                                       | 25.3                             | 0.73   | 6.3   | 1,853                | 188                            | 1,830                  | 1,471                            | 1,212                      | 0.69                                | 7.0   | 6.6  |                  |
| <b>Climate Zone<sup>2</sup></b>             |   |                                  |  |       |                      |                                |                        |                                  |                            |                                     |   |  |                  |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q   | Q                                | Q  | Q     | Q                    | Q                              | Q                      | Q                                | Q                          | Q                                   | Q   | NF   |                  |
| Under 5,500 HDD .....                       | 4.7                                       | 21.9                             | .65  | 3.1   | 1,793                | 184                            | 1,845                  | 1,396                            | 1,124                      | .70                                 | 7.1   | 10.4   |                  |
| 2,000 CDD or More and Under 4,000 HDD ..... | Q   | Q                                | Q  | Q     | Q                    | Q                              | Q                      | Q                                | Q                          | Q                                   | Q   | NF   |                  |
| <b>Type of Housing Unit</b>                 |   |                                  |  |       |                      |                                |                        |                                  |                            |                                     |   |  |                  |
| Single-Family .....                         | 3.5                                       | 19.1                             | .57  | 2.4   | 2,092                | 215                            | 2,197                  | 1,506                            | 1,210                      | .63                                 | 6.5   | 7.2  |                  |
| Mobile Home .....                           | 2   | .9                               | .02  | .9    | 1,272                | 125                            | 941                    | 1,399                            | 1,211                      | 1.01                                | 8.7   | 23.2   |                  |
| Multifamily (2 or more units) ..            | 1.5                                       | 5.2                              | .15  | 4.3   | 1,272                | 125                            | 941                    | 1,399                            | 1,211                      | .97                                 | 9.5   | 15.5   |                  |
| <b>Heated Floorspace</b> (square feet)      |   |                                  |  |       |                      |                                |                        |                                  |                            |                                     |   |  |                  |
| Fewer than 1,000 .....                      | 1.6                                       | 4.8                              | .13  | 7     | 1,227                | 115                            | 751                    | 1,458                            | 1,269                      | 1.12                                | 10.5  | 14.2   |                  |
| 1,000 to 1,999 .....                        | 2.5                                       | 12.4                             | .36  | 1.8   | 1,825                | 187                            | 1,687                  | 1,528                            | 1,248                      | .71                                 | 7.2   | 8.8  |                  |
| 2,000 or More .....                         | 1.1                                       | 8.0                              | .24  | 1.0   | 2,391                | 248                            | 2,929                  | 1,375                            | 1,102                      | .59                                 | 6.2   | 10.9   |                  |
| <b>Ownership of Unit</b>                    |   |                                  |  |       |                      |                                |                        |                                  |                            |                                     |   |  |                  |
| Owned .....                                 | 3.6                                       | 19.6                             | .58  | 2.6   | 2,022                | 207                            | 2,088                  | 1,479                            | 1,208                      | .65                                 | 6.7   | 7.4  |                  |
| Rented .....                                | 1.7                                       | 5.7                              | .16  | .9    | 1,358                | 133                            | 1,073                  | 1,448                            | 1,225                      | .87                                 | 8.5   | 12.8   |                  |
| <b>Year of Construction</b>                 |   |                                  |  |       |                      |                                |                        |                                  |                            |                                     |   |  |                  |
| 1949 or Before .....                        | 7   | 2.2                              | .05  | .2    | 2,055                | 166                            | 2,636                  | 1,033                            | 808                        | .75                                 | 6.1   | 29.7   |                  |
| 1950 to 1979 .....                          | 3.0                                       | 13.1                             | .38  | 1.9   | 1,660                | 170                            | 1,676                  | 1,367                            | 1,185                      | .72                                 | 7.4   | 9.4  |                  |
| 1980 or After <sup>3</sup> .....            | 1.5                                       | 10.0                             | .30  | 1.4   | 2,099                | 217                            | 1,934                  | 1,681                            | 1,307                      | .65                                 | 6.7   | 13.5   |                  |
| <b>1990 Family Income</b>                   |   |                                  |  |       |                      |                                |                        |                                  |                            |                                     |   |  |                  |
| Less than \$10,000 .....                    | 5   | 1.0                              | .02  | Q     | Q                    | Q                              | Q                      | Q                                | Q                          | .84                                 | Q   | 32.0   |                  |
| \$10,000 to \$19,999 .....                  | .9  | 2.7                              | .07  | .5    | 1,347                | 127                            | 1,262                  | 1,388                            | 1,172                      | .77                                 | 7.2   | 20.4   |                  |
| \$20,000 to \$34,999 .....                  | 1.0                                       | 3.8                              | .10  | .6    | 1,247                | 116                            | 1,424                  | 1,255                            | 1,047                      | .70                                 | 6.5   | 16.6   |                  |
| \$35,000 or More .....                      | 2.8                                       | 17.7                             | .54  | 2.3   | 2,157                | 225                            | 2,110                  | 1,536                            | 1,248                      | .67                                 | 6.9   | 7.0  |                  |
| <b>Below Poverty Line</b>                   |   |                                  |  |       |                      |                                |                        |                                  |                            |                                     |   |  |                  |
| 100 Percent .....                           | 4   | 1.4                              | .04  | Q     | Q                    | Q                              | Q                      | Q                                | Q                          | .60                                 | 6.2   | 25.2   |                  |
| 125 Percent .....                           | .7  | 1.9                              | .05  | .2    | 1,501                | 148                            | 1,636                  | 1,579                            | 1,343                      | .58                                 | 5.7   | 24.1   |                  |
| <b>Age of Householder</b>                   |   |                                  |  |       |                      |                                |                        |                                  |                            |                                     |   |  |                  |
| Under 35 Years .....                        | 1.8                                       | 8.1                              | .24  | 1.1   | 1,716                | 183                            | 1,452                  | 1,504                            | 1,195                      | .79                                 | 8.4   | 15.8   |                  |
| 35 to 59 Years .....                        | 2.0                                       | 11.9                             | .35  | 1.5   | 2,097                | 211                            | 2,071                  | 1,560                            | 1,298                      | .65                                 | 6.5   | 8.8  |                  |
| 60 Years and Over .....                     | 1.4                                       | 5.2                              | .15  | .8    | 1,592                | 155                            | 1,890                  | 1,266                            | 1,079                      | .67                                 | 6.5   | 17.5   |                  |

See footnotes at end of table.

**Table 98. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, West Region Households, 1990 (Continued)**

| Characteristics     | Electricity Used for All Air Conditioning |                                  |                                | Electricity Used for Central Air Conditioning <sup>1</sup> |               |       |                        |                                  |                            |  |      |                              | RSE Row Factors |   |  |
|---------------------|---|----------------------------------|--------------------------------|--|---------------|-------|------------------------|----------------------------------|----------------------------|--|------|------------------------------|-----------------|---|--|
|                     | Households (million)                      | Total Consumption (trillion Btu) | Expenditures (billion dollars) | Households (million)                                       | per Household |       |                        |                                  |                            |  | 1990 | 30-Year Average <sup>2</sup> |                 | Electric Air-Conditioning Intensity       |  |
|                     |   |                                  |                                |  | Consumption   |       | Expenditures (dollars) | Cooled Floor-space (square feet) | Annual Cooling Degree-Days | Consumption (kWh/CDD*1000 square feet) |      |                              |                 | Expenditures (cents/CDD*1000 square feet) |  |
|                     |   |                                  |                                |  | (million Btu) | (kWh) |                        |                                  |                            |  |      |                              |                 |   |  |
| RSE Column Factors: | 1.5                                       | NF                               | NF                             | 1.6  | NF            | NF    | NF                     | 0.7                              | 0.8                        | 0.8                                    | NF   | NF                           |                 |   |  |

**Household Size**

|                         |     |      |      |     |     |       |     |       |       |       |      |     |      |
|-------------------------|-----|------|------|-----|-----|-------|-----|-------|-------|-------|------|-----|------|
| 1 Person .....          | 1.2 | 3.8  | 0.10 | 0.7 | 4.7 | 1,385 | 127 | 1,314 | 1,222 | 1,075 | 0.86 | 7.9 | 17.8 |
| 2 to 4 Persons .....    | 3.4 | 17.2 | .51  | 2.3 | 6.5 | 1,896 | 195 | 1,919 | 1,489 | 1,226 | .66  | 6.8 | 6.4  |
| 5 or More Persons ..... | .6  | 4.2  | .13  | .5  | 7.9 | 2,319 | 245 | 2,144 | 1,743 | 1,342 | .62  | 6.6 | 14.5 |

<sup>1</sup> An estimated 2.0 million households have a central air conditioner and one or more room air conditioners. These households are included only under central air conditioners and not included under room air conditioners.

<sup>2</sup> The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>3</sup> Does not include all new construction for 1990.

<sup>4</sup> If a household has both a central and room air conditioner then the usage and age of the equipment is presented only for the central unit.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • This table reflects only those households that used their air conditioning equipment. See Appendix B, "Quality of the Data," in *Household Energy Consumption and Expenditures 1990* for a discussion of households that had air-conditioning equipment but did not use it. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).



**AIR-CONDITIONING CONSUMPTION/EXPENDITURES**

**WEST**

**Table 99. Electricity Consumption and Expenditures for Room Air Conditioning, per West Region Household, 1990**

| Characteristics   | House holds (mil- lion) | Consumption   |       | Expenditures (dollars) | Cooled Floorspace (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity     |  | RSE Flow Factors |    |
|---|-------------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|---|--|------------------|----|
|   |                         | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/ CDD*1000 square feet) | Expenditures (cents/ CDD*1000 square feet) |                  |    |
|   |                         |               |       |                        |                                 |                            |                              |   |  |                  | NF |
| <b>RSE Column Factors:</b>                                      |                         |               |       |                        |                                 |                            |                              |   |  |                  |    |
|   | 1.6                     | NF            | NF    | NF                     | 0.8                             | 0.8                        | 0.7                          | 0.8                                     | NF   | NF               |    |
| <b>West Region</b>  |                         |               |       |                        |                                 |                            |                              |   |  |                  |    |
| <b>Total Region</b> .....                                       | 2.4                     | 2.2           | 644   | 50                     | 662                             | 1,251                      | 1,065                        | 0.78                                    | 6.0  | 11.1             |    |
| <b>Climate Zone<sup>1</sup></b>                                 |                         |               |       |                        |                                 |                            |                              |   |  |                  |    |
| Under 2,000 HDD and Over 5,500 HDD .....                        | .7                      | 3.0           | 868   | 47                     | 908                             | 806                        | 630                          | 1.19                                    | 6.4  | 20.7             |    |
| Under 5,500 HDD and 2,000 CDD or More and Under 4,000 HDD ..... | 1.5                     | 1.7           | 508   | 48                     | 565                             | 1,284                      | 1,105                        | .70                                     | 6.7  | 13.4             |    |
| Under 4,000 HDD .....   | .1                      | 3.4           | 988   | 84                     | 359                             | 3,601                      | 3,261                        | .76                                     | 6.5  | 21.5             |    |
| <b>Type of Housing Unit</b>                                     |                         |               |       |                        |                                 |                            |                              |   |  |                  |    |
| Single-Family .....   | 1.5                     | 2.2           | 642   | 46                     | 747                             | 1,252                      | 1,086                        | .69                                     | 4.9  | 12.1             |    |
| Mobile Home .....   | .2                      | 2.7           | 800   | 50                     | 679                             | 1,279                      | 1,052                        | .92                                     | 5.7  | 22.3             |    |
| Multifamily (2 or more units) ..                                | .7                      | 2.1           | 605   | 56                     | 487                             | 1,241                      | 1,128                        | 1.00                                    | 9.3  | 18.9             |    |
| <b>Heated Floorspace (square feet)</b>                          |                         |               |       |                        |                                 |                            |                              |   |  |                  |    |
| Fewer than 1,000 .....  | 1.1                     | 2.1           | 613   | 52                     | 468                             | 1,426                      | 1,241                        | .92                                     | 7.9  | 14.1             |    |
| 1,000 to 1,999 .....  | 1.0                     | 2.2           | 638   | 45                     | 777                             | 1,101                      | 912                          | .75                                     | 5.3  | 14.9             |    |
| 2,000 or More .....   | .3                      | 2.7           | 795   | 54                     | 1,029                           | 1,089                      | 916                          | .71                                     | 4.9  | 18.2             |    |
| <b>Ownership of Unit</b>  |                         |               |       |                        |                                 |                            |                              |   |  |                  |    |
| Owned .....   | 1.5                     | 2.3           | 674   | 48                     | 777                             | 1,201                      | 987                          | .72                                     | 5.1  | 10.1             |    |
| Rented .....  | .9                      | 2.0           | 599   | 53                     | 482                             | 1,329                      | 1,189                        | .93                                     | 8.3  | 18.0             |    |
| <b>Year of Construction</b>                                     |                         |               |       |                        |                                 |                            |                              |   |  |                  |    |
| 1949 or Before .....  | .7                      | 1.8           | 533   | 36                     | 907                             | 1,057                      | 857                          | .56                                     | 3.7  | 15.6             |    |
| 1950 to 1979 .....  | 1.5                     | 2.4           | 712   | 57                     | 554                             | 1,339                      | 1,152                        | .96                                     | 7.7  | 12.6             |    |
| 1980 or After <sup>2</sup> .....                                | Q                       | Q             | Q     | Q                      | Q                               | 1,250                      | 1,116                        | .66                                     | 5.5  | 38.1             |    |
| <b>1990 Family Income</b>                                       |                         |               |       |                        |                                 |                            |                              |   |  |                  |    |
| Less than \$10,000 .....  | .5                      | 1.8           | 540   | 41                     | 525                             | 1,251                      | 1,093                        | .82                                     | 6.3  | 21.1             |    |
| \$10,000 to \$19,999 .....                                      | .5                      | 1.8           | 537   | 42                     | 643                             | 1,137                      | 930                          | .73                                     | 5.7  | 14.8             |    |
| \$20,000 to \$34,999 .....                                      | .7                      | 2.6           | 758   | 54                     | 721                             | 1,366                      | 1,192                        | .77                                     | 5.5  | 19.2             |    |
| \$35,000 or More .....  | .7                      | 2.3           | 673   | 56                     | 703                             | 1,218                      | 1,018                        | .79                                     | 6.5  | 15.9             |    |
| <b>Below Poverty Line</b>                                       |                         |               |       |                        |                                 |                            |                              |   |  |                  |    |
| 100 Percent .....   | .3                      | 2.3           | 680   | 53                     | 373                             | 1,418                      | 1,241                        | 1.28                                    | 10.1                                       | 21.2             |    |
| 125 Percent .....   | .5                      | 1.9           | 546   | 42                     | 487                             | 1,234                      | 1,081                        | .91                                     | 7.0  | 19.3             |    |
| <b>Age of Householder</b>                                       |                         |               |       |                        |                                 |                            |                              |   |  |                  |    |
| Under 35 Years .....  | .9                      | 2.4           | 694   | 58                     | 459                             | 1,415                      | 1,248                        | 1.07                                    | 8.9  | 19.1             |    |
| 35 to 59 Years .....  | .8                      | 2.6           | 755   | 54                     | 771                             | 1,253                      | 1,045                        | .78                                     | 5.6  | 12.1             |    |
| 60 Years and Over .....   | .6                      | 1.5           | 493   | 32                     | 804                             | 1,020                      | 836                          | .53                                     | 3.9  | 12.6             |    |
| <b>Household Size</b>   |                         |               |       |                        |                                 |                            |                              |   |  |                  |    |
| 1 Person .....  | .6                      | 1.2           | 359   | 28                     | 570                             | 1,254                      | 1,065                        | .50                                     | 4.0  | 12.5             |    |
| 2 to 4 Persons .....  | 1.5                     | 2.4           | 716   | 55                     | 710                             | 1,213                      | 1,030                        | .83                                     | 6.4  | 13.3             |    |
| 5 or More Persons .....   | .3                      | 3.2           | 936   | 72                     | 619                             | 1,453                      | 1,263                        | 1.04                                    | 8.0  | 21.2             |    |
| <b>Cooling Degree-Days (CDD)-1990</b>                           |                         |               |       |                        |                                 |                            |                              |   |  |                  |    |
| 2,000 or More .....   | .2                      | 2.7           | 782   | 69                     | 445                             | 3,059                      | 2,802                        | .57                                     | 5.0  | 19.5             |    |
| 1,000 to 1,999 .....  | 1.1                     | 2.5           | 719   | 62                     | 596                             | 1,564                      | 1,322                        | .77                                     | 6.6  | 15.0             |    |
| 500 to 999 .....  | .8                      | 1.9           | 570   | 38                     | 722                             | 773                        | 648                          | 1.02                                    | 6.9  | 13.6             |    |
| Fewer than 500 .....  | Q                       | 1.7           | 512   | 27                     | 845                             | 414                        | 298                          | 1.46                                    | Q  | 26.5             |    |

See footnotes at end of table.

**Table 99. Electricity Consumption and Expenditures for Room Air Conditioning, per West Region Household, 1990 (Continued)**

| Characteristics     | House holds (million) | Consumption   |       | Expenditures (dollars) | Cooled Floorspace (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity    |   | RSE Row Factors |
|---------------------|-----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|--|---|-----------------|
|                     |                       | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) |                 |
| RSE Column Factors: | 1.6                   | NF            | NF    | NF                     | 0.8                             | 0.7                        | 0.8                          | NF                                     | NF  |                 |

West Region

**Average Humidity for June, July and August 1990 (percent)**

|                          |     |     |     |    |     |       |       |      |     |      |
|--------------------------|-----|-----|-----|----|-----|-------|-------|------|-----|------|
| Less than 65 .....       | 1.1 | 2.7 | 805 | 49 | 802 | 1,213 | 1,021 | 0.83 | 5.1 | 13.2 |
| 65 to Less than 70 ..... | .5  | 2.3 | 685 | 67 | 565 | 1,198 | 1,113 | 1.01 | 9.9 | 22.5 |
| 70 or Higher .....       | .8  | 1.4 | 416 | 41 | 536 | 1,330 | 1,095 | .58  | 5.7 | 18.2 |

**Average Electricity Expenditures (cents per kWh)**

|                        |     |     |     |    |     |       |       |      |     |      |
|------------------------|-----|-----|-----|----|-----|-------|-------|------|-----|------|
| Less than 6 .....      | Q   | 2.7 | 797 | 31 | 961 | 715   | 495   | 1.16 | 4.5 | 31.0 |
| 6 to Less than 9 ..... | .7  | 2.3 | 675 | 52 | 661 | 1,332 | 1,177 | .77  | 5.9 | 17.2 |
| 9 or More .....        | 1.2 | 1.9 | 561 | 57 | 532 | 1,439 | 1,250 | .73  | 7.4 | 11.5 |

**Number of Rooms Usually Air Conditioned**

|                 |    |     |     |    |       |       |       |      |      |      |
|-----------------|----|-----|-----|----|-------|-------|-------|------|------|------|
| 1 Room .....    | .7 | 1.9 | 561 | 53 | 251   | 1,531 | 1,354 | 1.46 | 13.7 | 19.3 |
| 2 Rooms .....   | .7 | 1.6 | 473 | 38 | 548   | 1,321 | 1,116 | .65  | 5.2  | 11.4 |
| 3 or More ..... | .9 | 2.9 | 851 | 57 | 1,079 | 973   | 797   | .81  | 5.4  | 12.9 |

**Frequency of Use of Air Conditioning**

|                        |     |     |       |     |     |       |       |      |      |      |
|------------------------|-----|-----|-------|-----|-----|-------|-------|------|------|------|
| Only a Few Times ..... | 1.4 | 1.0 | 305   | 25  | 613 | 1,241 | 1,048 | .40  | 3.3  | 8.1  |
| Quite a Bit .....      | .5  | 3.2 | 928   | 74  | 725 | 1,357 | 1,157 | .94  | 7.5  | 13.5 |
| All Summer .....       | .4  | 5.2 | 1,522 | 107 | 797 | 1,133 | 985   | 1.68 | 11.8 | 14.9 |
| Other .....            | Q   | Q   | Q     | Q   | Q   | Q     | Q     | Q    | Q    | NF   |

**Age of Air Conditioning Equipment**

|                         |    |     |     |    |     |       |       |     |     |      |
|-------------------------|----|-----|-----|----|-----|-------|-------|-----|-----|------|
| Less than 5 Years ..... | .4 | 2.2 | 648 | 51 | 722 | 1,332 | 1,100 | .67 | 5.3 | 19.1 |
| 5 to 9 Years .....      | .6 | 2.2 | 634 | 47 | 552 | 1,175 | 984   | .98 | 7.2 | 17.0 |
| 10 or More Years .....  | .9 | 2.2 | 647 | 45 | 797 | 1,175 | 985   | .69 | 4.8 | 15.1 |
| Don't Know .....        | .4 | 2.2 | 652 | 63 | 483 | 1,443 | 1,325 | .94 | 9.0 | 21.1 |

**Size of Most-Used Room Air Conditioner**

|                  |     |     |     |    |       |       |       |      |     |      |
|------------------|-----|-----|-----|----|-------|-------|-------|------|-----|------|
| Small .....      | .7  | 2.5 | 742 | 61 | 469   | 1,565 | 1,364 | 1.01 | 8.3 | 15.8 |
| Medium .....     | 1.2 | 1.9 | 556 | 41 | 664   | 1,117 | 951   | .75  | 5.5 | 14.7 |
| Large .....      | .3  | 2.8 | 823 | 59 | 1,083 | 1,102 | 864   | .69  | 4.9 | 13.3 |
| Don't Know ..... | Q   | Q   | Q   | Q  | Q     | Q     | Q     | Q    | Q   | NF   |

**Number of Room Air Conditioners**

|                 |     |     |     |    |     |       |       |      |     |      |
|-----------------|-----|-----|-----|----|-----|-------|-------|------|-----|------|
| 1 .....         | 2.0 | 2.1 | 604 | 47 | 609 | 1,281 | 1,094 | .77  | 6.0 | 11.3 |
| 2 .....         | .3  | 3.2 | 930 | 66 | 902 | 1,034 | 875   | 1.00 | 7.1 | 22.7 |
| 3 or More ..... | Q   | Q   | Q   | Q  | Q   | Q     | Q     | Q    | Q   | NF   |

See footnotes at end of table.

Table 99. Electricity Consumption and Expenditures for Room Air Conditioning, per West Region Household, 1990 (Continued)

| Characteristics   | House holds (million) | Consumption   |       | Expenditures (dollars) | Cooled Floorspace (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity    |   | RSE Row Factors |
|---|-----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|--|---|-----------------|
|   |                       | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) |                 |
|   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| RSE Column Factors:   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Mountain Division .....   | 0.6                   | 3.3           | 954   | 66                     | 782                             | 1,453                      | 1,252                        | 0.84                                   | 5.8                                       | 17.4            |
| <b>Climate Zone<sup>1</sup></b>                                 |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 2,000 HDD and Over 5,500 HDD .....                        | .5                    | 3.1           | 899   | 59                     | 851                             | 936                        | 767                          | 1.13                                   | 7.3                                       | 18.6            |
| Under 5,500 HDD and 2,000 HDD or More and Under 4,000 HDD ..... | .1                    | 3.4           | 988   | 84                     | 359                             | 3,601                      | 3,261                        | .76                                    | 6.5                                       | 21.5            |
| <b>Type of Housing Unit</b>                                     |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Single-Family .....   | .5                    | 3.5           | 1,036 | 71                     | 841                             | 1,587                      | 1,371                        | .78                                    | 5.3                                       | 18.3            |
| Mobile Home .....   | Q                     | 2.9           | 846   | 55                     | 807                             | Q                          | Q                            | .76                                    | 4.9                                       | 24.2            |
| Multifamily (2 or more units) ..                                | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| <b>Heated Floorspace (square feet)</b>                          |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Fewer than 1,000 .....  | .2                    | 2.9           | 860   | 66                     | 471                             | 1,601                      | 1,398                        | 1.14                                   | 8.7                                       | 22.0            |
| 1,000 to 1,999 .....  | .3                    | 3.1           | 920   | 61                     | 854                             | 1,368                      | Q                            | .79                                    | 5.2                                       | 28.1            |
| 2,000 or More .....   | .1                    | 4.1           | 1,207 | Q                      | 1,178                           | 1,384                      | 1,169                        | .74                                    | 4.7                                       | 29.6            |
| <b>Ownership of Unit</b>  |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Owned .....   | .5                    | 3.5           | 1,019 | 69                     | 863                             | 1,588                      | 1,361                        | .74                                    | 5.1                                       | 16.8            |
| Rented .....  | Q                     | 2.4           | 706   | 53                     | 472                             | 938                        | 836                          | 1.59                                   | 11.9                                      | 35.0            |
| <b>Year of Construction</b>                                     |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1949 or Before .....  | .1                    | 3.0           | 891   | 57                     | 807                             | Q                          | Q                            | .88                                    | Q   | 31.7            |
| 1950 to 1979 .....  | .4                    | 3.4           | 986   | 69                     | 675                             | 1,623                      | 1,408                        | .90                                    | 6.3                                       | 18.3            |
| 1980 or After <sup>2</sup> .....                                | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| <b>1990 Family Income</b>                                       |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Less than \$10,000 .....  | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| \$10,000 to \$19,999 .....                                      | .1                    | 3.5           | 1,024 | 75                     | 714                             | 1,159                      | 976                          | 1.24                                   | 9.1                                       | 29.2            |
| \$20,000 to \$34,999 .....                                      | .2                    | 2.4           | 713   | 45                     | 817                             | 1,557                      | 1,350                        | .56                                    | 3.6                                       | 28.4            |
| \$35,000 or More .....  | .2                    | 4.4           | 1,290 | 89                     | 906                             | 1,491                      | 1,279                        | .96                                    | 6.6                                       | 25.0            |
| <b>Below Poverty Line</b>                                       |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 100 Percent .....   | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| 125 Percent .....   | .1                    | 2.9           | 835   | 57                     | 491                             | 1,271                      | 1,088                        | 1.34                                   | 9.2                                       | 26.6            |
| <b>Age of Householder</b>                                       |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 35 Years .....  | .2                    | 2.7           | 779   | 61                     | 430                             | 1,399                      | 1,233                        | 1.30                                   | 10.2                                      | 25.5            |
| 35 to 59 Years .....  | .3                    | 3.8           | 1,119 | 72                     | 950                             | 1,512                      | 1,294                        | .78                                    | 5.0                                       | 19.9            |
| 60 Years and Over .....   | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| <b>Household Size</b>   |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1 Person .....  | .2                    | 1.9           | 563   | 47                     | 449                             | 1,843                      | 1,645                        | .68                                    | 5.7                                       | 24.6            |
| 2 to 4 Persons .....  | .3                    | 3.7           | 1,091 | 71                     | 937                             | 1,263                      | 1,074                        | .92                                    | 6.0                                       | 20.6            |
| 5 or More Persons .....   | Q                     | 4.1           | 1,200 | 81                     | 888                             | 1,351                      | 1,112                        | Q                                      | Q   | 39.0            |

See footnotes at end of table.

**AIR-CONDITIONING CONSUMPTION/EXPENDITURES**

**Table 99. Electricity Consumption and Expenditures for Room Air Conditioning, per West Region Household, 1990 (Continued)**

| Characteristics                        | House holds (million) | Consumption   |       | Expenditures (dollars) | Cooled Floorspace (square feet) | Annual Cooling Degree-Days |                              | Electric Air-Conditioning Intensity    |   | RSE Row Factors |
|--|-----------------------|---------------|-------|------------------------|---------------------------------|----------------------------|------------------------------|--|---|-----------------|
|  |                       | (million Btu) | (kWh) |                        |                                 | 1990                       | 30-Year Average <sup>1</sup> | Consumption (kWh/CDD*1000 square feet) | Expenditures (cents/CDD*1000 square feet) |                 |
| RSE Column Factors:                    | 1.6                   | NF            | NF    | NF                     | 0.8                             | 0.7                        | 0.8                          | NF                                     | NF  |                 |
| <b>Pacific Division</b>                | 1.7                   | 1.8           | 531   | 44                     | 618                             | 1,177                      | 997                          | 0.73                                   | 6.0                                       | 15.2            |
| <b>Climate Zone<sup>1</sup></b>        |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 2,000 CDD and                    | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| Over 5,500 HDD                         | 1.5                   | 1.7           | 489   | 47                     | 554                             | 1,279                      | 1,100                        | .69                                    | 6.7                                       | 13.5            |
| Under 5,500 HDD                        | NC                    | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                     | NC  | NC              |
| 2,000 CDD or More and                  |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 4,000 HDD                        | NC                    | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                     | NC  | NC              |
| Under 4,000 HDD                        | NC                    | NC            | NC    | NC                     | NC                              | NC                         | NC                           | NC                                     | NC  | NC              |
| <b>Type of Housing Unit</b>            |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Single-Family                          | 1.0                   | 1.6           | 459   | 35                     | 703                             | 1,097                      | 881                          | .60                                    | 4.5                                       | 17.6            |
| Mobile Home                            | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| Multifamily (2 or more units)          | .7                    | 2.1           | 606   | 58                     | 500                             | 1,302                      | 1,179                        | .93                                    | 8.8                                       | 19.6            |
| <b>Heated Floorspace (square feet)</b> |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Fewer than 1,000                       | .9                    | 1.9           | 551   | 49                     | 467                             | 1,382                      | 1,201                        | .85                                    | 7.6                                       | 16.1            |
| 1,000 to 1,999                         | .7                    | 1.8           | 523   | 39                     | 746                             | 992                        | 804                          | .71                                    | 5.2                                       | 19.1            |
| 2,000 or More                          | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| <b>Ownership of Unit</b>               |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Owned                                  | 1.0                   | 1.7           | 490   | 36                     | 731                             | 995                        | 787                          | .67                                    | 4.9                                       | 14.5            |
| Rented                                 | .8                    | 2.0           | 581   | 53                     | 483                             | 1,394                      | 1,247                        | .86                                    | 7.9                                       | 19.5            |
| <b>Year of Construction</b>            |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1949 or Before                         | .5                    | 1.5           | 447   | 31                     | 931                             | 1,008                      | 809                          | .48                                    | 3.3                                       | 17.2            |
| 1950 to 1979                           | 1.1                   | 2.1           | 601   | 52                     | 505                             | 1,225                      | 1,049                        | .97                                    | 8.4                                       | 17.3            |
| 1980 or After <sup>2</sup>             | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |
| <b>1990 Family Income</b>              |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Less than \$10,000                     | .4                    | 1.6           | 469   | 36                     | 519                             | 1,174                      | 1,025                        | .77                                    | 6.0                                       | 27.9            |
| \$10,000 to \$19,999                   | .4                    | 1.2           | 345   | 29                     | 615                             | 1,128                      | 912                          | .50                                    | 4.2                                       | 14.5            |
| \$20,000 to \$34,999                   | .5                    | 2.7           | 781   | 58                     | 671                             | 1,269                      | 1,111                        | .92                                    | 6.9                                       | 26.7            |
| \$35,000 or More                       | .6                    | 1.7           | 484   | 46                     | 641                             | 1,134                      | 938                          | .67                                    | 6.3                                       | 19.6            |
| <b>Below Poverty Line</b>              |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 100 Percent                            | .3                    | 2.0           | 580   | 49                     | 322                             | 1,431                      | 1,255                        | 1.26                                   | 10.5                                      | 26.8            |
| 125 Percent                            | .4                    | 1.6           | 471   | 38                     | 486                             | 1,225                      | 1,079                        | .79                                    | 6.4                                       | 24.4            |
| <b>Age of Householder</b>              |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| Under 35 Years                         | .7                    | 2.3           | 671   | 57                     | 467                             | 1,419                      | 1,252                        | 1.01                                   | 8.6                                       | 23.5            |
| 35 to 59 Years                         | .5                    | 1.7           | 510   | 42                     | 650                             | 1,079                      | 877                          | .73                                    | 6.0                                       | 17.1            |
| 60 Years and Over                      | .5                    | 1.2           | 366   | 28                     | 789                             | 947                        | 769                          | .49                                    | 3.7                                       | 9.8             |
| <b>Household Size</b>                  |                       |               |       |                        |                                 |                            |                              |  |   |                 |
| 1 Person                               | .5                    | .9            | 272   | 20                     | 621                             | 1,004                      | 819                          | .44                                    | 3.3                                       | 12.8            |
| 2 to 4 Persons                         | 1.1                   | 2.1           | 609   | 50                     | 645                             | 1,199                      | 1,018                        | .79                                    | 6.5                                       | 17.3            |
| 5 or More Persons                      | Q                     | Q             | Q     | Q                      | Q                               | Q                          | Q                            | Q                                      | Q   | NF              |

<sup>1</sup> The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: \* To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. \* Because of rounding, data may not sum to totals. \* This table reflects only those households that used their air conditioning equipment. See Appendix B, "Quality of the Data," in *Household Energy Consumption and Expenditures 1990* for a discussion of households that had air-conditioning equipment but did not use it. \* See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 100. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in West Region Households, 1990

| Characteristics                             | Electricity          |                |               |                                      | Natural Gas          |                |                      |                                      | RSE Row Factors |  |
|---|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|-----------------|--|
|   | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                 |  |
|   |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |                 |  |
|   |                      | NF             | NF            |                                      |                      | NF             | NF                   |                                      |                 |  |
| RSE Column Factors:                         | 1.2                  | NF             | NF            | 0.7                                  | NF                   | NF             | NF                   | NF                                   |                 |  |
| West Region                                 |                      |                |               |                                      |                      |                |                      |                                      |                 |  |
| <b>Total Region</b> .....                   | 5.8                  | 59.9           | 17.6          | 1.09                                 | 13.1                 | 285.7          | 277                  | 1.52                                 | 6.6             |  |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                      |                      |                |                      |                                      |                 |  |
| Under 2,000 CDD and Over 5,500 HDD .....    | 2.1                  | 26.6           | 7.8           | .39                                  | 2.5                  | 70.3           | 68                   | .29                                  | 23.8            |  |
| Under 5,500 HDD .....                       | 2.9                  | 26.9           | 7.9           | .52                                  | 9.4                  | 190.4          | 184                  | 1.07                                 | 12.9            |  |
| 2,000 CDD or More and Under 4,000 HDD ..... | .9                   | 6.5            | 1.9           | .19                                  | 1.3                  | 25.1           | 24                   | .16                                  | 24.7            |  |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |  |
| Single-Family .....                         | 3.9                  | 44.0           | 12.9          | .79                                  | 8.6                  | 194.4          | 188                  | 1.03                                 | 8.4             |  |
| Mobile Home .....                           | .4                   | 3.7            | 1.1           | .06                                  | .7                   | 13.9           | 13                   | .07                                  | 29.9            |  |
| Multifamily (2 or more units) ..            | 1.5                  | 12.3           | 3.6           | .24                                  | 3.9                  | 77.4           | 75                   | .42                                  | 21.5            |  |
| <b>Heated Floorspace (square feet)</b>      |                      |                |               |                                      |                      |                |                      |                                      |                 |  |
| Fewer than 1,000 .....                      | 2.5                  | 21.1           | 6.2           | .42                                  | 5.1                  | 99.3           | 96                   | .54                                  | 11.2            |  |
| 1,000 to 1,999 .....                        | 2.6                  | 29.7           | 8.7           | .53                                  | 5.9                  | 132.2          | 128                  | .70                                  | 10.2            |  |
| 2,000 or More .....                         | .7                   | 9.1            | 2.7           | .15                                  | 2.1                  | 54.2           | 52                   | .28                                  | 21.7            |  |
| <b>Ownership of Unit</b>                    |                      |                |               |                                      |                      |                |                      |                                      |                 |  |
| Owned .....                                 | 3.2                  | 34.5           | 10.1          | .61                                  | 7.8                  | 166.7          | 161                  | .88                                  | 9.1             |  |
| Rented .....                                | 2.6                  | 25.4           | 7.4           | .48                                  | 5.3                  | 119.0          | 115                  | .64                                  | 11.1            |  |
| <b>Year of Construction</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |  |
| 1949 or Before .....                        | 1.3                  | 13.8           | 4.0           | .23                                  | 3.2                  | 69.2           | 67                   | .36                                  | 13.7            |  |
| 1950 to 1979 .....                          | 3.2                  | 32.0           | 9.4           | .56                                  | 7.4                  | 157.6          | 153                  | .85                                  | 9.2             |  |
| 1980 or After <sup>2</sup> .....            | 1.3                  | 14.1           | 4.1           | .29                                  | 2.5                  | 58.9           | 57                   | .31                                  | 17.4            |  |
| <b>1990 Family Income</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |  |
| Less than \$10,000 .....                    | 1.1                  | 9.2            | 2.7           | .16                                  | 1.6                  | 28.5           | 28                   | .15                                  | 15.6            |  |
| \$10,000 to \$19,999 .....                  | 1.4                  | 13.1           | 3.8           | .24                                  | 2.7                  | 55.8           | 54                   | .30                                  | 11.9            |  |
| \$20,000 to \$34,999 .....                  | 1.6                  | 17.3           | 5.1           | .30                                  | 3.3                  | 72.4           | 70                   | .37                                  | 14.6            |  |
| \$35,000 or More .....                      | 1.7                  | 20.4           | 6.0           | .39                                  | 5.5                  | 128.9          | 125                  | .69                                  | 9.1             |  |
| <b>Below Poverty Line</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |  |
| 100 Percent .....                           | 1.1                  | 11.5           | 3.4           | .21                                  | 1.5                  | 33.4           | 32                   | .18                                  | 13.9            |  |
| 125 Percent .....                           | 1.4                  | 14.5           | 4.2           | .26                                  | 2.1                  | 48.6           | 47                   | .27                                  | 11.7            |  |
| <b>Age of Householder</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |  |
| Under 35 Years .....                        | 1.6                  | 17.1           | 5.0           | .33                                  | 4.6                  | 106.6          | 103                  | .57                                  | 12.7            |  |
| 35 to 59 Years .....                        | 2.5                  | 30.4           | 8.9           | .54                                  | 5.5                  | 131.9          | 128                  | .71                                  | 9.4             |  |
| 60 Years and Over .....                     | 1.7                  | 12.4           | 3.6           | .22                                  | 3.0                  | 47.2           | 46                   | .25                                  | 12.3            |  |
| <b>Household Size</b>                       |                      |                |               |                                      |                      |                |                      |                                      |                 |  |
| 1 Person .....                              | 1.6                  | 10.2           | 3.0           | .18                                  | 3.1                  | 41.1           | 40                   | .22                                  | 10.1            |  |
| 2 to 4 Persons .....                        | 3.4                  | 37.8           | 11.1          | .68                                  | 8.2                  | 190.3          | 185                  | 1.01                                 | 6.7             |  |
| 5 or More Persons .....                     | .8                   | 11.9           | 3.5           | .23                                  | 1.8                  | 54.3           | 52                   | .30                                  | 13.5            |  |

See footnotes at end of table.

**WATER-HEATING CONSUMPTION/EXPENDITURES**

**Table 100. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in West Region Households, 1990 (Continued)**

| Characteristics                        | Electricity          |                |               |                                      | Natural Gas          |                |                      |                                      | RSE Row Factors: |
|--|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|------------------|
|  | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                  |
|  |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |                  |
| RSE Column Factors:                    | 1.2                  | NF             | NF            | NF                                   | 0.7                  | NF             | NF                   | NF                                   |                  |
| <b>Mountain Division</b>               | 1.3                  | 13.7           | 4.0           | 0.28                                 | 3.5                  | 85.6           | 83                   | 0.42                                 | 18.0             |
| <b>Climate Zone<sup>1</sup></b>        |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Under 2,000 CDD and Over 5,500 HDD     | .6                   | Q              | Q             | .14                                  | 2.2                  | 60.8           | 59                   | .25                                  | 27.4             |
| Under 5,500 HDD and 2,000 CDD or More  | Q                    | Q              | Q             | Q                                    | .5                   | Q              | Q                    | .06                                  | 65.5             |
| Under 4,000 HDD                        | .6                   | 5.1            | 1.5           | .13                                  | .8                   | 14.2           | 14                   | .10                                  | 10.6             |
| <b>Type of Housing Unit</b>            |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Single-Family                          | .9                   | 10.1           | 3.0           | .20                                  | 2.6                  | 65.2           | 63                   | .32                                  | 19.6             |
| Mobile Home                            | .1                   | 1.3            | .4            | .02                                  | .3                   | 7.3            | 7                    | .03                                  | 38.4             |
| Multifamily (2 or more units)          | Q                    | Q              | Q             | Q                                    | .6                   | 13.2           | 13                   | .06                                  | 28.4             |
| <b>Heated Floorspace (square feet)</b> |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Fewer than 1,000                       | Q                    | 3.2            | .9            | Q                                    | 1.3                  | 27.5           | 27                   | .14                                  | 18.9             |
| 1,000 to 1,999                         | .7                   | 7.6            | 2.2           | .15                                  | 1.6                  | 38.4           | 37                   | .19                                  | 20.7             |
| 2,000 or More                          | .2                   | 2.9            | .8            | .05                                  | .7                   | 19.8           | 19                   | .09                                  | 28.3             |
| <b>Ownership of Unit</b>               |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Owned                                  | .8                   | 9.5            | 2.8           | .18                                  | 2.4                  | 60.2           | 58                   | .29                                  | 20.3             |
| Rented                                 | .5                   | 4.1            | 1.2           | .09                                  | 1.0                  | 25.4           | 25                   | .12                                  | 18.7             |
| <b>Year of Construction</b>            |                      |                |               |                                      |                      |                |                      |                                      |                  |
| 1949 or Before                         | .2                   | 2.5            | .7            | .04                                  | .9                   | 24.2           | 24                   | .11                                  | 34.2             |
| 1950 to 1979                           | .6                   | 5.9            | 1.7           | .11                                  | 2.0                  | 46.4           | 45                   | .23                                  | 18.2             |
| 1980 or After <sup>2</sup>             | .5                   | 5.3            | 1.5           | .12                                  | .6                   | 15.0           | 14                   | .08                                  | 24.7             |
| <b>1990 Family Income</b>              |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Less than \$10,000                     | .3                   | 1.9            | .6            | .04                                  | .6                   | 11.4           | 11                   | .06                                  | 33.3             |
| \$10,000 to \$19,999                   | .3                   | 2.5            | .7            | .05                                  | .8                   | 17.1           | 16                   | .09                                  | 24.0             |
| \$20,000 to \$34,999                   | .3                   | Q              | Q             | .05                                  | 1.0                  | 28.1           | 27                   | .13                                  | 28.5             |
| \$35,000 or More                       | .5                   | 6.2            | 1.8           | .13                                  | 1.1                  | 29.1           | 28                   | .14                                  | 16.5             |
| <b>Below Poverty Line</b>              |                      |                |               |                                      |                      |                |                      |                                      |                  |
| 100 Percent                            | .3                   | 2.6            | .8            | .06                                  | .4                   | 10.1           | 10                   | .05                                  | 36.1             |
| 125 Percent                            | .4                   | 3.3            | 1.0           | .07                                  | .6                   | 16.6           | 16                   | .08                                  | 30.9             |
| <b>Age of Householder</b>              |                      |                |               |                                      |                      |                |                      |                                      |                  |
| Under 35 Years                         | .4                   | 4.8            | 1.4           | .10                                  | 1.1                  | 29.1           | 28                   | .14                                  | 17.9             |
| 35 to 59 Years                         | .6                   | 7.3            | 2.1           | .14                                  | 1.5                  | 39.2           | 38                   | .19                                  | 24.2             |
| 60 Years and Over                      | .2                   | 1.6            | .5            | Q                                    | .9                   | 17.3           | 17                   | .08                                  | 27.7             |
| <b>Household Size</b>                  |                      |                |               |                                      |                      |                |                      |                                      |                  |
| 1 Person                               | .2                   | 1.3            | .4            | Q                                    | .9                   | 13.5           | 13                   | .06                                  | 27.3             |
| 2 to 4 Persons                         | .9                   | 10.0           | 2.9           | .20                                  | 2.0                  | 54.7           | 53                   | .27                                  | 17.7             |
| 5 or More Persons                      | .2                   | 2.4            | .7            | .05                                  | .5                   | 17.4           | 17                   | .09                                  | 30.4             |

See footnotes at end of table.

**WEST**

**Table 100. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in West Region Households, 1990 (Continued)**

| Characteristics                             | Electricity          |                |               |                                      | Natural Gas          |                |                      |                                      | RSE Row Factors |
|---|----------------------|----------------|---------------|--------------------------------------|----------------------|----------------|----------------------|--------------------------------------|-----------------|
|   | Households (million) | Total Consumed |               | Total Expenditures (billion dollars) | Households (million) | Total Consumed |                      | Total Expenditures (billion dollars) |                 |
|   |                      | (trillion Btu) | (billion kWh) |                                      |                      | (trillion Btu) | (billion cubic feet) |                                      |                 |
| RSE Column Factors:                         | 1.2                  | NF             | NF            | NF                                   | 0.7                  | NF             | NF                   | NF                                   |                 |
| <b>Pacific Division</b> .....               | 4.5                  | 46.2           | 13.6          | 0.82                                 | 9.6                  | 200.1          | 194                  | 1.11                                 | 6.8             |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 1.4                  | 18.3           | 5.4           | .25                                  | .3                   | 9.4            | 9                    | .04                                  | 36.4            |
| Under 5,500 HDD .....                       | 2.8                  | 26.5           | 7.8           | .51                                  | 8.9                  | 179.7          | 174                  | 1.01                                 | 12.2            |
| 2,000 CDD or More and Under 4,000 HDD ..... | .3                   | 1.4            | .4            | .06                                  | Q                    | Q              | Q                    | Q                                    | 34.4            |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Single-Family .....                         | 3.0                  | 33.8           | 9.9           | .59                                  | 6.0                  | 129.2          | 125                  | .71                                  | 9.7             |
| Mobile Home .....                           | Q                    | Q              | Q             | Q                                    | .3                   | 6.6            | 6                    | .04                                  | 39.9            |
| Multifamily (2 or more units) ..            | 1.2                  | 10.0           | 2.9           | .19                                  | 3.3                  | 64.2           | 62                   | .36                                  | 24.0            |
| <b>Heated Floorspace (square feet)</b>      |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Fewer than 1,000 .....                      | 2.1                  | 17.9           | 5.3           | .34                                  | 3.8                  | 71.9           | 70                   | .40                                  | 13.0            |
| 1,000 to 1,999 .....                        | 1.9                  | 22.1           | 6.5           | .38                                  | 4.3                  | 93.9           | 91                   | .51                                  | 11.9            |
| 2,000 or More .....                         | .5                   | Q              | Q             | .09                                  | 1.5                  | 34.4           | 33                   | .20                                  | 26.3            |
| <b>Ownership of Unit</b>                    |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Owned .....                                 | 2.4                  | 25.0           | 7.3           | .43                                  | 5.4                  | 106.5          | 103                  | .59                                  | 9.7             |
| Rented .....                                | 2.1                  | 21.3           | 6.2           | .39                                  | 4.2                  | 93.5           | 91                   | .52                                  | 13.1            |
| <b>Year of Construction</b>                 |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1949 or Before .....                        | 1.1                  | 11.3           | 3.3           | .19                                  | 2.3                  | 44.9           | 44                   | .25                                  | 14.3            |
| 1950 to 1979 .....                          | 2.6                  | 26.1           | 7.7           | .45                                  | 5.4                  | 111.2          | 108                  | .62                                  | 10.1            |
| 1980 or After <sup>2</sup> .....            | .8                   | 8.8            | 2.6           | .17                                  | 1.9                  | 43.9           | 43                   | .24                                  | 23.5            |
| <b>1990 Family Income</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Less than \$10,000 .....                    | .8                   | 7.2            | 2.1           | .12                                  | 1.0                  | 17.2           | 17                   | .10                                  | 16.4            |
| \$10,000 to \$19,999 .....                  | 1.2                  | 10.6           | 3.1           | .18                                  | 2.0                  | 38.8           | 38                   | .21                                  | 14.4            |
| \$20,000 to \$34,999 .....                  | 1.3                  | 14.2           | 4.2           | .25                                  | 2.3                  | 44.3           | 43                   | .25                                  | 15.7            |
| \$35,000 or More .....                      | 1.2                  | 14.2           | 4.2           | .27                                  | 4.4                  | 99.9           | 97                   | .55                                  | 11.1            |
| <b>Below Poverty Line</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 100 Percent .....                           | .8                   | 8.9            | 2.6           | .15                                  | 1.1                  | 23.3           | 23                   | .13                                  | 13.4            |
| 125 Percent .....                           | 1.1                  | 11.2           | 3.3           | .19                                  | 1.5                  | 32.0           | 31                   | .18                                  | 11.4            |
| <b>Age of Householder</b>                   |                      |                |               |                                      |                      |                |                      |                                      |                 |
| Under 35 Years .....                        | 1.1                  | 12.2           | 3.6           | .23                                  | 3.6                  | 77.5           | 75                   | .43                                  | 16.3            |
| 35 to 59 Years .....                        | 1.9                  | 23.2           | 6.8           | .40                                  | 4.0                  | 92.7           | 90                   | .52                                  | 9.7             |
| 60 Years and Over .....                     | 1.5                  | 10.8           | 3.2           | .19                                  | 2.1                  | 29.9           | 29                   | .16                                  | 14.6            |
| <b>Household Size</b>                       |                      |                |               |                                      |                      |                |                      |                                      |                 |
| 1 Person .....                              | 1.4                  | 9.0            | 2.6           | .15                                  | 2.2                  | 27.6           | 27                   | .15                                  | 10.9            |
| 2 to 4 Persons .....                        | 2.5                  | 27.8           | 8.1           | .47                                  | 6.2                  | 135.6          | 132                  | .74                                  | 6.9             |
| 5 or More Persons .....                     | .6                   | 9.5            | 2.8           | .19                                  | 1.3                  | 36.9           | 36                   | .21                                  | 15.4            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, E, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

**Table 101. Total LPG Consumption and Expenditures for Water Heating in West Region Households, 1990**

| Characteristics                             | Households (million) | Total Consumed |                   | Total Expenditures (billion dollars) | RSE Row Factors |
|---|----------------------|----------------|-------------------|--------------------------------------|-----------------|
|   |                      | (trillion Btu) | (billion gallons) |                                      |                 |
|   |                      | NF             | NF                |                                      |                 |
| RSE Column Factors:                         | 1.0                  | NF             | NF                | NF                                   |                 |
| West Region                                 |                      |                |                   |                                      |                 |
| <b>Total Region</b> .....                   | 0.5                  | 7.7            | 0.08              | 0.10                                 | 27.6            |
| Mountain Division .....                     | Q                    | Q              | Q                 | Q                                    | NF              |
| Pacific Division .....                      | .4                   | 4.9            | .05               | .07                                  | 27.9            |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |                   |                                      |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | Q                    | Q              | Q                 | Q                                    | NF              |
| Under 5,500 HDD .....                       | .3                   | 2.9            | .03               | .03                                  | 29.1            |
| 2,000 CDD or More and Under 4,000 HDD ..... | .1                   | 1.7            | .02               | .03                                  | 35.2            |
| <b>Type of Housing Unit</b>                 |                      |                |                   |                                      |                 |
| Single-Family .....                         | .3                   | 5.5            | .06               | .07                                  | 31.0            |
| Mobile Home .....                           | Q                    | Q              | Q                 | Q                                    | NF              |
| Multifamily (2 or more units) .....         | Q                    | Q              | Q                 | Q                                    | NF              |
| <b>Heated Floorspace (square feet)</b>      |                      |                |                   |                                      |                 |
| Fewer than 1,000 .....                      | .3                   | 4.1            | .04               | .06                                  | 30.0            |
| 1,000 to 1,999 .....                        | Q                    | Q              | Q                 | Q                                    | NF              |
| 2,000 or More .....                         | Q                    | Q              | Q                 | Q                                    | NF              |
| <b>Ownership of Unit</b>                    |                      |                |                   |                                      |                 |
| Owned .....                                 | .3                   | 5.3            | .06               | .06                                  | 37.6            |
| Rented .....                                | .2                   | 2.4            | .03               | .03                                  | 32.0            |
| <b>Year of Construction</b>                 |                      |                |                   |                                      |                 |
| 1949 or Before .....                        | Q                    | Q              | Q                 | Q                                    | NF              |
| 1950 to 1979 .....                          | .3                   | 3.7            | .04               | .05                                  | 35.1            |
| 1980 or After <sup>2</sup> .....            | .2                   | 3.1            | .03               | .04                                  | 47.0            |
| <b>1990 Family Income</b>                   |                      |                |                   |                                      |                 |
| Less than \$10,000 .....                    | Q                    | Q              | Q                 | Q                                    | NF              |
| \$10,000 to \$19,999 .....                  | Q                    | Q              | Q                 | Q                                    | NF              |
| \$20,000 to \$34,999 .....                  | .2                   | 2.9            | .03               | .04                                  | 39.7            |
| \$35,000 or More .....                      | Q                    | Q              | Q                 | Q                                    | NF              |
| <b>Below Poverty Line</b>                   |                      |                |                   |                                      |                 |
| 100 Percent .....                           | Q                    | Q              | Q                 | Q                                    | NF              |
| 125 Percent .....                           | .2                   | 2.8            | .03               | .03                                  | 43.4            |
| <b>Age of Householder</b>                   |                      |                |                   |                                      |                 |
| Under 35 Years .....                        | .1                   | Q              | Q                 | .03                                  | 45.5            |
| 35 to 59 Years .....                        | .2                   | 2.8            | .03               | .04                                  | 35.9            |
| 60 Years and Over .....                     | .2                   | 2.6            | .03               | .03                                  | 39.1            |
| <b>Household Size</b>                       |                      |                |                   |                                      |                 |
| 1 Person .....                              | Q                    | Q              | Q                 | Q                                    | NF              |
| 2 to 4 Persons .....                        | .3                   | 4.6            | .05               | .06                                  | 35.7            |
| 5 or More Persons .....                     | Q                    | Q              | Q                 | Q                                    | NF              |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the Mountain and Pacific Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).



WATER-HEATING CONSUMPTION/EXPENDITURES

WEST

Table 102. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per West Region Household, 1990

| Characteristics                             | Electricity          |               |       |                        | Natural Gas  |                      |               |                   | RSE Row Factors |  |           |
|---|----------------------|---------------|-------|------------------------|--|----------------------|---------------|-------------------|-----------------|--|-----------|
|   | Households (million) | Consumption   |       | Expenditures (dollars) | Electricity Water-Heating Intensity (kWh per household member) | Households (million) | Consumption   |                   |                 | Natural Gas Water-Heating Intensity (1000 cubic feet per household member) |           |
|   |                      | (million Btu) | (kWh) |                        |  |                      | (million Btu) | (1000 cubic feet) |                 |  | (dollars) |
| RSE Column Factors:                         | 2.3                  | NF            | NF    | NF                     | NF   | 1.3                  | NF            | NF                | NF              |  |           |
| West Region                                 |                      |               |       |                        |  |                      |               |                   |                 |  |           |
| <b>Total Region</b> .....                   | 5.6                  | 10.6          | 3,100 | 191                    | 1,199  | 12.9                 | 21.9          | 21.3              | 117             | 7.8  | 3.8       |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |       |                        |  |                      |               |                   |                 |  |           |
| Under 2,000 HDD and Over 5,500 HDD .....    | 2.1                  | 12.8          | 3,749 | 188                    | 1,350  | 2.5                  | 28.2          | 27.4              | 118             | 10.5   | 7.3       |
| Under 5,500 HDD and 2,000 HDD or More ..... | 2.7                  | 9.8           | 2,867 | 186                    | 1,278  | 9.2                  | 20.4          | 19.8              | 115             | 7.2  | 6.6       |
| Under 4,000 HDD .....                       | .8                   | 7.6           | 2,234 | 217                    | 694  | 1.2                  | 20.6          | 20.0              | 133             | 6.7  | 10.1      |
| <b>Type of Housing Unit</b>                 |                      |               |       |                        |  |                      |               |                   |                 |  |           |
| Single-Family .....                         | 3.7                  | 11.6          | 3,413 | 207                    | 1,194  | 8.4                  | 22.9          | 22.2              | 122             | 7.5  | 4.5       |
| Mobile Home .....                           | .4                   | 10.4          | 3,036 | 169                    | 1,129  | .7                   | 20.4          | 19.8              | 103             | 9.0  | 15.8      |
| Multifamily (2 or more units) ..            | 1.5                  | 8.0           | 2,351 | 159                    | 1,240  | 3.8                  | 20.1          | 19.5              | 109             | 8.5  | 9.6       |
| <b>Heated Floorspace (square feet)</b>      |                      |               |       |                        |  |                      |               |                   |                 |  |           |
| Fewer than 1,000 .....                      | 2.4                  | 8.6           | 2,506 | 167                    | 1,134  | 5.0                  | 19.7          | 19.1              | 107             | 7.9  | 5.4       |
| 1,000 to 1,999 .....                        | 2.5                  | 11.7          | 3,433 | 208                    | 1,225  | 5.8                  | 22.5          | 21.8              | 120             | 7.5  | 6.1       |
| 2,000 or More .....                         | .6                   | 13.9          | 4,063 | 219                    | 1,281  | 2.1                  | 25.8          | 24.9              | 135             | 8.3  | 7.8       |
| <b>Ownership of Unit</b>                    |                      |               |       |                        |  |                      |               |                   |                 |  |           |
| Owned .....                                 | 3.0                  | 11.2          | 3,271 | 195                    | 1,190  | 7.7                  | 21.5          | 20.8              | 113             | 7.7  | 4.6       |
| Rented .....                                | 2.6                  | 9.9           | 2,898 | 187                    | 1,211  | 5.2                  | 22.6          | 21.9              | 122             | 7.9  | 6.2       |
| <b>Year of Construction</b>                 |                      |               |       |                        |  |                      |               |                   |                 |  |           |
| 1949 or Before .....                        | 1.3                  | 10.6          | 3,121 | 179                    | 1,215  | 3.2                  | 21.4          | 20.8              | 111             | 8.1  | 8.6       |
| 1950 to 1979 .....                          | 3.0                  | 10.4          | 3,047 | 182                    | 1,225  | 7.2                  | 21.6          | 20.9              | 117             | 7.9  | 4.6       |
| 1980 or After <sup>2</sup> .....            | 1.3                  | 10.9          | 3,207 | 226                    | 1,129  | 2.5                  | 23.6          | 22.8              | 126             | 7.3  | 8.8       |
| <b>1990 Family Income</b>                   |                      |               |       |                        |  |                      |               |                   |                 |  |           |
| Less than \$10,000 .....                    | 1.1                  | 8.4           | 2,470 | 145                    | 1,139  | 1.6                  | 18.1          | 17.5              | 97              | 7.7  | 10.0      |
| \$10,000 to \$19,999 .....                  | 1.4                  | 9.3           | 2,722 | 170                    | 1,170  | 2.7                  | 20.5          | 19.9              | 111             | 7.2  | 6.6       |
| \$20,000 to \$34,999 .....                  | 1.6                  | 11.1          | 3,250 | 193                    | 1,161  | 3.2                  | 22.2          | 21.5              | 115             | 7.9  | 7.8       |
| \$35,000 or More .....                      | 1.6                  | 12.7          | 3,729 | 241                    | 1,287  | 5.4                  | 23.6          | 22.9              | 127             | 8.0  | 5.6       |
| <b>Below Poverty Line</b>                   |                      |               |       |                        |  |                      |               |                   |                 |  |           |
| 100 Percent .....                           | 1.1                  | 10.7          | 3,134 | 191                    | 1,024  | 1.5                  | 22.6          | 22.0              | 125             | 6.0  | 9.0       |
| 125 Percent .....                           | 1.4                  | 10.3          | 3,006 | 184                    | 1,050  | 2.1                  | 22.6          | 21.9              | 125             | 6.3  | 7.7       |
| <b>Age of Householder</b>                   |                      |               |       |                        |  |                      |               |                   |                 |  |           |
| Under 35 Years .....                        | 1.6                  | 10.7          | 3,147 | 206                    | 1,019  | 4.6                  | 23.0          | 22.3              | 123             | 7.1  | 7.3       |
| 35 to 59 Years .....                        | 2.3                  | 12.8          | 3,754 | 225                    | 1,315  | 5.3                  | 24.4          | 23.7              | 131             | 8.3  | 5.0       |
| 60 Years and Over .....                     | 1.7                  | 7.3           | 2,150 | 131                    | 1,237  | 3.0                  | 15.8          | 15.3              | 83              | 8.4  | 6.2       |
| <b>Household Size</b>                       |                      |               |       |                        |  |                      |               |                   |                 |  |           |
| 1 Person .....                              | 1.6                  | 6.4           | 1,867 | 115                    | 1,867  | 3.1                  | 13.2          | 12.8              | 69              | 12.8   | 4.4       |
| 2 to 4 Persons .....                        | 3.2                  | 11.5          | 3,366 | 204                    | 1,281  | 8.1                  | 23.4          | 22.7              | 124             | 8.3  | 4.2       |
| 5 or More Persons .....                     | .7                   | 15.7          | 4,595 | 302                    | 792  | 1.8                  | 30.5          | 29.4              | 169             | 5.1  | 8.1       |

See footnotes at end of table.

WATER-HEATING CONSUMPTION/EXPENDITURES

Table 102. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per West Region Household, 1990 (Continued)

| Characteristics   | Electricity          |               |       |                        |  |                      | Natural Gas   |                   |                        |  |      |      | RSE Factor |
|---|----------------------|---------------|-------|------------------------|--|----------------------|---------------|-------------------|------------------------|--|------|------|------------|
|   | Households (million) | Consumption   |       | Expenditures (dollars) | Electricity Water-Heating Intensity (kWh per household member) | Households (million) | Consumption   |                   | Expenditures (dollars) | Natural Gas Water-Heating Intensity (1000 cubic feet per household member) |      |      |            |
|   |                      | (million Btu) | (kWh) |                        |  |                      | (million Btu) | (1000 cubic feet) |                        |  |      |      |            |
| RSE Column Factors:   | 2.3                  | NF            | NF    | NF                     | NF   | 1.3                  | NF            | NF                | NF                     | NF   | NF   |      |            |
| West Region   |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |            |
| <b>Average Electricity Expenditures (cents per kWh)</b>       |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |            |
| Less than 6 .....   | 2.9                  | 12.0          | 3,522 | 161                    | 1,448  | ..                   | ..            | ..                | ..                     | ..   | ..   | ..   | 4.1        |
| 6 to Less than 9 .....  | 1.5                  | 11.0          | 3,210 | 235                    | 1,093  | ..                   | ..            | ..                | ..                     | ..   | ..   | ..   | 10.6       |
| 9 or More .....   | 1.2                  | 6.7           | 1,950 | 210                    | 774  | ..                   | ..            | ..                | ..                     | ..   | ..   | ..   | 12.0       |
| <b>Average Natural Gas Expenditures (dollars per 1000 cf)</b> |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |            |
| Less than 4.50 .....  | ..                   | ..            | ..    | ..                     | ..   | 2.2                  | 25.4          | 25.1              | 97                     | 11.6   | 6.3  | 6.3  |            |
| 4.50 to Less than 6 .....                                     | ..                   | ..            | ..    | ..                     | ..   | 7.0                  | 20.3          | 19.6              | 105                    | 7.1  | 6.1  | 6.1  |            |
| 6 or More .....   | ..                   | ..            | ..    | ..                     | ..   | 3.8                  | 23.0          | 22.2              | 151                    | 7.4  | 7.6  | 7.6  |            |
| <b>Water Heater Used</b>                                      |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |            |
| For One Housing Unit .....                                    | 5.3                  | 10.8          | 3,159 | 192                    | 1,202  | 10.8                 | 22.3          | 21.6              | 118                    | 7.6  | 4.3  | 4.3  |            |
| For Two or More Units .....                                   | .3                   | 7.3           | 2,137 | 174                    | 1,133  | 2.1                  | 20.3          | 19.7              | 110                    | 9.4  | 14.0 | 14.0 |            |
| <b>Age of Water Heater</b>                                    |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |            |
| Less than 5 Years .....                                       | 1.2                  | 10.7          | 3,146 | 200                    | 1,087  | 3.5                  | 23.3          | 22.6              | 126                    | 7.6  | 3.2  | 3.2  |            |
| 5 to 9 Years .....  | 1.4                  | 10.2          | 2,995 | 196                    | 1,169  | 3.3                  | 22.0          | 21.2              | 114                    | 7.3  | 6.5  | 6.5  |            |
| 10 to 19 Years .....  | 1.3                  | 11.1          | 3,266 | 180                    | 1,286  | 2.2                  | 22.1          | 21.4              | 116                    | 7.7  | 5.7  | 5.7  |            |
| 20 Years or More .....  | .3                   | 8.2           | 2,414 | 122                    | 1,397  | 5                    | 18.5          | 18.1              | 98                     | 7.0  | 11.3 | 11.3 |            |
| Don't Know .....  | 1.0                  | 12.0          | 3,525 | 218                    | 1,257  | 1.2                  | 22.0          | 21.4              | 122                    | 8.1  | 10.7 | 10.7 |            |
| <b>Size of Water Heater</b>                                   |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |            |
| 30 gallons or less .....                                      | .7                   | 6.6           | 1,946 | 129                    | 898  | 1.9                  | 18.3          | 17.7              | 98                     | 7.3  | 3.8  | 3.8  |            |
| 31 to 49 gallons .....  | 1.9                  | 10.4          | 3,055 | 193                    | 1,247  | 6.3                  | 23.0          | 22.3              | 120                    | 7.4  | 6.1  | 6.1  |            |
| 50 gallons or more .....                                      | 2.2                  | 12.6          | 3,686 | 213                    | 1,278  | 2.1                  | 24.1          | 23.3              | 133                    | 8.2  | 6.0  | 6.0  |            |
| Don't Know .....  | .4                   | 10.0          | 2,936 | 188                    | 1,020  | .5                   | 20.4          | 19.3              | 112                    | 8.6  | 13.3 | 13.3 |            |
| <b>Location of Water Heater</b>                               |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |            |
| Heated Area .....   | 2.7                  | 11.3          | 3,323 | 184                    | 1,319  | 5.0                  | 23.2          | 22.6              | 118                    | 8.4  | 4.9  | 4.9  |            |
| Unheated Area .....   | 2.4                  | 10.1          | 2,971 | 202                    | 1,090  | 5.7                  | 21.3          | 20.6              | 118                    | 6.8  | 6.2  | 6.2  |            |
| <b>Clothes Washer Present in Household</b>                    |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |            |
| Yes .....   | 4.0                  | 11.5          | 3,378 | 204                    | 1,202  | 9.4                  | 22.6          | 21.9              | 120                    | 7.6  | 4.3  | 4.3  |            |
| No .....  | 1.6                  | 8.2           | 2,404 | 158                    | 1,188  | 3.5                  | 20.2          | 19.8              | 110                    | 8.5  | 9.0  | 9.0  |            |
| <b>Dishwasher Present in Household</b>                        |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |            |
| Yes .....   | 3.0                  | 10.9          | 3,202 | 199                    | 1,301  | 6.7                  | 22.6          | 21.9              | 120                    | 7.9  | 4.3  | 4.3  |            |
| No .....  | 2.6                  | 10.2          | 2,985 | 182                    | 1,095  | 6.2                  | 21.2          | 20.6              | 114                    | 7.7  | 6.1  | 6.1  |            |
| <b>Children Present in Household</b>                          |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |            |
| No .....  | 3.5                  | 8.3           | 2,437 | 150                    | 1,514  | 7.6                  | 18.3          | 17.7              | 94                     | 10.2   | 4.4  | 4.4  |            |
| Yes .....   | 2.1                  | 14.2          | 4,173 | 259                    | 1,002  | 5.3                  | 27.2          | 26.3              | 149                    | 6.3  | 5.6  | 5.6  |            |
| (more than one may apply)                                     |                      |               |       |                        |  |                      |               |                   |                        |  |      |      |            |
| Under 13 Years .....  | 1.5                  | 12.7          | 3,732 | 240                    | 846  | 4.5                  | 27.4          | 26.5              | 149                    | 6.2  | 6.6  | 6.6  |            |
| 13 to 18 Years .....  | 1.0                  | 17.4          | 5,095 | 305                    | 1,168  | 1.8                  | 29.4          | 28.4              | 170                    | 6.0  | 7.1  | 7.1  |            |

See footnotes at end of table.

WEST

WATER-HEATING CONSUMPTION/EXPENDITURES

WEST

Table 102. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per West Region Household, 1990 (Continued)

| Characteristics                             | Electricity          |               |       |                        |  |                      | Natural Gas   |                   |                        |  |      |    | RSE Row Factors |    |
|---|----------------------|---------------|-------|------------------------|--|----------------------|---------------|-------------------|------------------------|--|------|----|-----------------|----|
|   | Households (million) | Consumption   |       | Expenditures (dollars) | Electricity Water-Heating Intensity (kWh per household member) | Households (million) | Consumption   |                   | Expenditures (dollars) | Natural Gas Water-Heating Intensity (1000 cubic feet per household member) |      |    |                 |    |
|   |                      | (million Btu) | (kWh) |                        |  |                      | (million Btu) | (1000 cubic feet) |                        |  |      |    |                 |    |
|   |                      |               |       |                        |  |                      |               |                   |                        |  | NF   | NF |                 | NF |
| 2.3   | NF                   | NF            | NF    | NF                     | 1.3  | NF                   | NF            | NF                | NF                     |  |      |    |                 |    |
| <b>RSE Column Factors:</b>                  |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |    |
| <b>Mountain Division</b> .....              | 1.3                  | 10.7          | 3,150 | 217                    | 1,085  | 3.4                  | 25.0          | 24.2              | 121                    | 9.0  | 7.7  |    |                 |    |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |    |
| Under 2,000 CDD and Over 5,500 HDD .....    | .6                   | 13.0          | 3,815 | 220                    | 1,322  | 2.2                  | 27.9          | 27.1              | 117                    | 10.2   | 9.7  |    |                 |    |
| Under 5,500 HDD .....                       | Q                    | Q             | Q     | Q                      | Q  | .5                   | 22.4          | 21.2              | 127                    | 7.4  | 14.5 |    |                 |    |
| 2,000 CDD or More and Under 4,000 HDD ..... | .6                   | 8.4           | 2,453 | 213                    | 860  | .8                   | 18.2          | 17.7              | 130                    | 6.5  | 7.0  |    |                 |    |
| <b>Type of Housing Unit</b>                 |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |    |
| Single-Family .....                         | .8                   | 11.9          | 3,487 | 232                    | 1,127  | 2.5                  | 25.9          | 25.1              | 128                    | 8.7  | 7.6  |    |                 |    |
| Mobile Home .....                           | .1                   | 11.0          | 3,220 | 194                    | 937  | .3                   | 21.5          | 20.7              | 103                    | 8.4  | 15.9 |    |                 |    |
| Multifamily (2 or more units) ..            | Q                    | 7.4           | 2,177 | 183                    | Q  | .6                   | 23.0          | 22.2              | 104                    | 11.5   | 20.4 |    |                 |    |
| <b>Heated Floorspace (square feet)</b>      |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |    |
| Fewer than 1,000 .....                      | Q                    | 8.1           | 2,373 | 186                    | 982  | 1.3                  | 21.9          | 21.2              | 109                    | 9.2  | 11.4 |    |                 |    |
| 1,000 to 1,999 .....                        | .7                   | 11.0          | 3,228 | 216                    | 1,125  | 1.5                  | 24.8          | 24.0              | 125                    | 8.3  | 9.2  |    |                 |    |
| 2,000 or More .....                         | .2                   | 15.3          | 4,484 | 284                    | 1,107  | .6                   | 31.7          | 30.7              | 138                    | 10.4   | 10.5 |    |                 |    |
| <b>Ownership of Unit</b>                    |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |    |
| Owned .....                                 | .8                   | 11.9          | 3,477 | 226                    | 1,098  | 2.4                  | 25.1          | 24.3              | 122                    | 9.0  | 8.1  |    |                 |    |
| Rented .....                                | .5                   | 8.8           | 2,588 | 202                    | 1,055  | 1.0                  | 24.6          | 23.9              | 120                    | 8.9  | 13.6 |    |                 |    |
| <b>Year of Construction</b>                 |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |    |
| 1949 or Before .....                        | .2                   | 10.7          | 3,147 | 186                    | 1,197  | .9                   | 27.0          | 26.4              | 120                    | 9.7  | 13.9 |    |                 |    |
| 1950 to 1979 .....                          | .5                   | 10.8          | 3,160 | 205                    | 1,102  | 1.9                  | 24.0          | 23.2              | 120                    | 8.9  | 8.7  |    |                 |    |
| 1980 or After <sup>2</sup> .....            | .5                   | 10.7          | 3,140 | 245                    | 1,023  | .6                   | 25.1          | 24.0              | 128                    | 8.1  | 11.8 |    |                 |    |
| <b>1990 Family Income</b>                   |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |    |
| Less than \$10,000 .....                    | .3                   | 7.3           | 2,141 | 156                    | 1,085  | .6                   | 20.5          | 19.8              | 104                    | 8.5  | 18.0 |    |                 |    |
| \$10,000 to \$19,999 .....                  | .3                   | 9.6           | 2,814 | 212                    | 960  | .8                   | 22.7          | 21.9              | 117                    | 8.1  | 11.2 |    |                 |    |
| \$20,000 to \$34,999 .....                  | .3                   | 11.6          | 3,409 | 202                    | 1,145  | 1.0                  | 27.2          | 26.4              | 124                    | 10.2   | 13.3 |    |                 |    |
| \$35,000 or More .....                      | .5                   | 12.8          | 3,738 | 261                    | 1,119  | 1.1                  | 26.8          | 25.9              | 131                    | 8.7  | 7.9  |    |                 |    |
| <b>Below Poverty Line</b>                   |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |    |
| 100 Percent .....                           | .3                   | 9.4           | 2,748 | 197                    | 955  | .4                   | 27.0          | 26.2              | 133                    | 7.2  | 17.2 |    |                 |    |
| 125 Percent .....                           | .4                   | 9.2           | 2,695 | 188                    | 910  | .6                   | 26.1          | 25.2              | 133                    | 7.4  | 14.9 |    |                 |    |
| <b>Age of Householder</b>                   |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |    |
| Under 35 Years .....                        | .4                   | 10.9          | 3,203 | 231                    | 926  | 1.1                  | 27.5          | 26.4              | 133                    | 7.9  | 8.8  |    |                 |    |
| 35 to 59 Years .....                        | .6                   | 12.2          | 3,561 | 234                    | 1,214  | 1.5                  | 26.8          | 26.1              | 130                    | 9.6  | 9.8  |    |                 |    |
| 60 Years and Over .....                     | .2                   | 6.8           | 1,990 | 146                    | 1,127  | .9                   | 19.1          | 18.5              | 93                     | 9.8  | 13.8 |    |                 |    |
| <b>Household Size</b>                       |                      |               |       |                        |  |                      |               |                   |                        |  |      |    |                 |    |
| 1 Person .....                              | .2                   | 5.7           | 1,676 | 132                    | 1,676  | .9                   | 14.7          | 14.4              | 70                     | 14.4   | 11.1 |    |                 |    |
| 2 to 4 Persons .....                        | .9                   | 11.2          | 3,297 | 227                    | 1,161  | 2.0                  | 27.4          | 26.6              | 132                    | 9.8  | 7.1  |    |                 |    |
| 5 or More Persons .....                     | .2                   | 14.8          | 4,339 | 278                    | 745  | .5                   | 34.1          | 32.5              | 169                    | 5.7  | 10.0 |    |                 |    |

See footnotes at end of table.

WATER-HEATING CONSUMPTION/EXPENDITURES

Table 102. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per West Region Household, 1990 (Continued)

| Characteristics                  | Electricity          |               |       |                        |  | Natural Gas          |               |                   |                        |  | RSE Row Factors |
|----------------------------------|----------------------|---------------|-------|------------------------|--|----------------------|---------------|-------------------|------------------------|--|-----------------|
|                                  | Households (million) | Consumption   |       | Expenditures (dollars) | Electricity Heating Intensity (kWh per household member) | Households (million) | Consumption   |                   | Expenditures (dollars) | Natural Gas Water-Heating Intensity (1000 cubic feet per household member) |                 |
|                                  |                      | (million Btu) | (kWh) |                        |  |                      | (million Btu) | (1000 cubic feet) |                        |  |                 |
| RSE Column Factors:              | 2.3                  | NF            | NF    | NF                     | NF   | 1.3                  | NF            | NF                | NF                     | NF   |                 |
| Pacific Division .....           | 4.3                  | 10.5          | 3,086 | 184                    | 1,237  | 9.5                  | 20.9          | 20.2              | 116                    | 7.4  | 4.              |
| Climate Zone <sup>1</sup>        |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Under 2,000 CDD and              | 1.4                  | 12.7          | 3,720 | 174                    | 1,363  | .3                   | 30.3          | 29.9              | 124                    | 12.3   | 9.9             |
| Over 5,500 HDD .....             | 2.7                  | 9.8           | 2,863 | 185                    | 1,290  | 8.8                  | 20.3          | 19.7              | 114                    | 7.2  | 6.7             |
| Under 5,500 HDD                  |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| 2,000 CDD or More and            | 2                    | 5.6           | 1,646 | 228                    | 391  | Q                    | 24.5          | 23.8              | 138                    | 6.9  | 14.6            |
| Under 4,000 HDD .....            |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Type of Housing Unit             |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Single-Family .....              | 2.9                  | 11.6          | 3,391 | 199                    | 1,216  | 5.9                  | 21.6          | 21.0              | 119                    | 7.0  | 5.2             |
| Mobile Home .....                | Q                    | Q             | Q     | Q                      | Q  | .3                   | 19.4          | 18.8              | 104                    | 9.7  | 21.7            |
| Multifamily (2 or more units) .. | 1.2                  | 8.2           | 2,395 | 153                    | 1,309  | 3.2                  | 19.6          | 19.0              | 110                    | 8.1  | 11.1            |
| Heated Floorspace (square feet)  |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Fewer than 1,000 .....           | 2.1                  | 8.6           | 2,531 | 164                    | 1,165  | 3.8                  | 19.0          | 18.4              | 106                    | 7.5  | 6.0             |
| 1,000 to 1,999 .....             | 1.8                  | 12.0          | 3,512 | 204                    | 1,264  | 4.3                  | 21.7          | 21.0              | 118                    | 7.2  | 7.4             |
| 2,000 or More .....              | Q                    | 13.3          | 3,890 | 192                    | 1,383  | 1.5                  | 23.3          | 22.5              | 134                    | 7.4  | 9.4             |
| Ownership of Unit                |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Owned .....                      | 2.2                  | 10.9          | 3,197 | 184                    | 1,229  | 5.3                  | 19.9          | 19.2              | 110                    | 7.2  | 5.2             |
| Rented .....                     | 2.1                  | 10.1          | 2,967 | 183                    | 1,247  | 4.2                  | 22.1          | 21.4              | 123                    | 7.6  | 6.8             |
| Year of Construction             |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| 1949 or Before .....             | 1.0                  | 10.6          | 3,115 | 178                    | 1,219  | 2.3                  | 19.2          | 18.6              | 107                    | 7.4  | 9.8             |
| 1950 to 1979 .....               | 2.5                  | 10.3          | 3,022 | 177                    | 1,257  | 5.3                  | 20.8          | 20.1              | 116                    | 7.5  | 5.2             |
| 1980 or After <sup>2</sup> ..... | .8                   | 11.1          | 3,249 | 213                    | 1,205  | 1.9                  | 23.1          | 22.4              | 125                    | 7.0  | 12.6            |
| 1990 Family Income               |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Less than \$10,000 .....         | .8                   | 8.8           | 2,575 | 141                    | 1,155  | 1.0                  | 16.8          | 16.3              | 94                     | 7.3  | 11.6            |
| \$10,000 to \$19,999 .....       | 1.1                  | 9.2           | 2,701 | 160                    | 1,238  | 2.0                  | 19.7          | 19.1              | 108                    | 6.8  | 8.2             |
| \$20,000 to \$34,999 .....       | 1.3                  | 11.0          | 3,218 | 191                    | 1,164  | 2.2                  | 19.9          | 19.2              | 111                    | 6.9  | 9.0             |
| \$35,000 or More .....           | 1.1                  | 12.7          | 3,726 | 232                    | 1,380  | 4.3                  | 22.9          | 22.2              | 126                    | 7.9  | 6.8             |
| Below Poverty Line               |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| 100 Percent .....                | .8                   | 11.2          | 3,271 | 189                    | 1,047  | 1.1                  | 21.1          | 20.5              | 122                    | 5.6  | 10.1            |
| 125 Percent .....                | 1.1                  | 10.6          | 3,110 | 183                    | 1,099  | 1.5                  | 21.2          | 20.5              | 122                    | 5.9  | 8.5             |
| Age of Householder               |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| Under 35 Years .....             | 1.1                  | 10.7          | 3,125 | 196                    | 1,060  | 3.6                  | 21.7          | 21.0              | 120                    | 6.8  | 9.5             |
| 35 to 59 Years .....             | 1.7                  | 13.0          | 3,820 | 222                    | 1,351  | 3.9                  | 23.5          | 22.8              | 131                    | 7.8  | 5.8             |
| 60 Years and Over .....          | 1.4                  | 7.4           | 2,175 | 128                    | 1,254  | 2.1                  | 14.4          | 13.9              | 78                     | 7.7  | 7.2             |
| Household Size                   |                      |               |       |                        |  |                      |               |                   |                        |  |                 |
| 1 Person .....                   | 1.4                  | 6.5           | 1,897 | 112                    | 1,897  | 2.2                  | 12.5          | 12.2              | 69                     | 12.2   | 5.0             |
| 2 to 4 Persons .....             | 2.4                  | 11.6          | 3,391 | 195                    | 1,330  | 6.1                  | 22.1          | 21.4              | 121                    | 7.8  | 4.7             |
| 5 or More Persons .....          | .6                   | 15.9          | 4,667 | 309                    | 805  | 1.3                  | 29.1          | 28.1              | 168                    | 4.9  | 10.1            |

1 Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

2 Does not include all new construction for 1990.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = Not applicable.

-- = Not applicable.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, E, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 103. LPG Consumption and Expenditures for Main Water Heating, per West Region Household, 1990

| Characteristics                                      | Households (million) | Consumption   |           | Expenditures (dollars) | LPG Water-Heating Intensity (gallons per household member) | RSE Row Factors |
|--|----------------------|---------------|-----------|------------------------|--|-----------------|
|  |                      | (million Btu) | (gallons) |                        |  |                 |
|  |                      | NF            | NF        |                        |  |                 |
| West Region  |                      |               |           |                        |  |                 |
| RSE Column Factors: 1.5                              |                      |               |           |                        |  |                 |
| <b>Total Region</b> .....                            | 0.5                  | 14.9          | 163       | 189                    | 68   | 18.1            |
| Mountain Division .....                              | Q                    | 23.6          | 258       | 240                    | 100  | 34.8            |
| Pacific Division .....                               | .4                   | 12.4          | 135       | 174                    | 57   | 19.2            |
| <b>Climate Zone<sup>1</sup></b>                      |                      |               |           |                        |  |                 |
| Under 2,000 HDD and Over 5,500 HDD .....             | Q                    | 23.4          | 256       | 252                    | 86   | 47.1            |
| Under 5,500 HDD and 2,000 HDD or More .....          | .3                   | 11.4          | 125       | 130                    | 63   | 26.5            |
| Under 4,000 HDD .....                                | .1                   | 13.0          | 142       | 239                    | 53   | 18.7            |
| <b>Type of Housing Unit</b>                          |                      |               |           |                        |  |                 |
| Single-Family .....                                  | .3                   | 16.5          | 180       | 217                    | 66   | 25.3            |
| Mobile Home .....                                    | Q                    | Q             | Q         | Q                      | Q  | NF              |
| Multifamily (2 or more units) .....                  | Q                    | Q             | Q         | Q                      | Q  | NF              |
| <b>Heated Floorspace (square feet)</b>               |                      |               |           |                        |  |                 |
| Fewer than 1,000 .....                               | .3                   | 12.4          | 136       | 175                    | 57   | 21.9            |
| 1,000 to 1,999 .....                                 | Q                    | Q             | Q         | Q                      | Q  | NF              |
| 2,000 or More .....                                  | Q                    | Q             | Q         | Q                      | Q  | NF              |
| <b>Ownership of Unit</b>                             |                      |               |           |                        |  |                 |
| Owned .....  | .3                   | 17.4          | 190       | 209                    | 73   | 21.7            |
| Rented .....   | .2                   | 11.4          | 125       | 161                    | 59   | 28.3            |
| <b>Year of Construction</b>                          |                      |               |           |                        |  |                 |
| 1949 or Before .....                                 | Q                    | Q             | Q         | Q                      | Q  | NF              |
| 1950 to 1979 .....                                   | .3                   | 13.4          | 147       | 178                    | 69   | 36.3            |
| 1980 or After <sup>2</sup> .....                     | .2                   | 16.8          | 184       | 194                    | Q  | 24.2            |
| <b>1990 Family Income</b>                            |                      |               |           |                        |  |                 |
| Less than \$10,000 .....                             | Q                    | Q             | Q         | Q                      | Q  | NF              |
| \$10,000 to \$19,999 .....                           | Q                    | Q             | Q         | Q                      | Q  | NF              |
| \$20,000 to \$34,999 .....                           | .2                   | 19.4          | 212       | 272                    | 65   | 15.5            |
| \$35,000 or More .....                               | Q                    | Q             | Q         | Q                      | Q  | NF              |
| <b>Below Poverty Line</b>                            |                      |               |           |                        |  |                 |
| 100 Percent .....                                    | Q                    | Q             | Q         | Q                      | Q  | NF              |
| 125 Percent .....                                    | .2                   | 12.0          | 132       | 137                    | 64   | 37.6            |
| <b>Age of Householder</b>                            |                      |               |           |                        |  |                 |
| Under 35 Years .....                                 | .1                   | 17.1          | 188       | 212                    | 64   | 26.0            |
| 35 to 59 Years .....                                 | .2                   | 13.6          | 149       | 190                    | 55   | 35.8            |
| 60 Years and Over .....                              | .2                   | 14.8          | 162       | 170                    | 96   | 30.1            |
| <b>Household Size</b>                                |                      |               |           |                        |  |                 |
| 1 Person .....                                       | Q                    | 8.9           | 97        | 104                    | 97   | 38.4            |
| 2 to 4 Persons .....                                 | .3                   | 17.8          | 195       | 216                    | 68   | 20.2            |
| 5 or More Persons .....                              | Q                    | Q             | Q         | Q                      | Q  | NF              |
| <b>Average LPG Expenditures (dollars per gallon)</b> |                      |               |           |                        |  |                 |
| Less than 75 .....                                   | NC                   | NC            | NC        | NC                     | NC   | NC              |
| 75 to Less than 1.00 .....                           | .1                   | 19.6          | 214       | 190                    | 86   | 34.6            |
| 1.00 or More .....                                   | .4                   | 13.2          | 145       | 189                    | 61   | 19.6            |

See footnotes at end of table.

**Table 103. LPG Consumption and Expenditures for Main Water Heating, per West Region Household, 1990 (Continued)**

| Characteristics  | Households (million) | Consumption   |           | Expenditures (dollars) | LPG Water-Heating Intensity (gallons per household member) | RSE Row Factors |
|--|----------------------|---------------|-----------|------------------------|--|-----------------|
|  |                      | (million Btu) | (gallons) |                        |  |                 |
| RSE Column Factors:  | 1.5                  | NF            | NF        | NF                     | NF   |                 |
| West Region  |                      |               |           |                        |  |                 |
| <b>Water Heater Used</b>                                       |                      |               |           |                        |  |                 |
| For One Housing Unit .....                                     | 0.5                  | 14.9          | 163       | 189                    | 68   | 18.1            |
| For Two or More Units .....                                    | NC                   | NC            | NC        | NC                     | NC   | NC              |
| <b>Age of Water Heater</b>                                     |                      |               |           |                        |  |                 |
| Less than 5 Years .....  | .2                   | 13.0          | 142       | 179                    | 56   | 30.2            |
| 5 to 9 Years .....   | Q                    | Q             | Q         | Q                      | Q  | NF              |
| 10 to 19 Years .....   | Q                    | 17.6          | 193       | 198                    | 89   | 44.2            |
| 20 Years or More .....   | Q                    | Q             | Q         | Q                      | Q  | NF              |
| Don't Know .....   | Q                    | Q             | Q         | Q                      | Q  | NF              |
| <b>Size of Water Heater</b>                                    |                      |               |           |                        |  |                 |
| 30 gallons or less .....                                       | .2                   | 11.2          | 123       | 143                    | 72   | 32.4            |
| 31 to 49 gallons .....   | .2                   | 18.5          | 203       | 248                    | 57   | 13.6            |
| 50 gallons or more .....                                       | Q                    | Q             | Q         | Q                      | Q  | NF              |
| Don't Know .....   | NC                   | NC            | NC        | NC                     | NC   | NC              |
| <b>Location of Water Heater</b>                                |                      |               |           |                        |  |                 |
| Heated Area .....  | .2                   | 20.6          | 225       | 226                    | 84   | 29.4            |
| Unheated Area .....  | .3                   | 12.0          | 131       | 170                    | 58   | 18.6            |
| <b>Clothes Washer Present in Household</b>                     |                      |               |           |                        |  |                 |
| Yes .....  | .4                   | 16.3          | 178       | 210                    | 70   | 24.7            |
| No .....   | .2                   | 11.8          | 129       | 142                    | 61   | 23.9            |
| <b>Dishwasher Present in Household</b>                         |                      |               |           |                        |  |                 |
| Yes .....  | Q                    | Q             | Q         | Q                      | Q  | NF              |
| No .....   | .4                   | 13.3          | 145       | 182                    | 61   | 19.8            |
| <b>Children Present in Household (more than one may apply)</b> |                      |               |           |                        |  |                 |
| No .....   | .4                   | 11.9          | 130       | 140                    | 87   | 23.6            |
| Yes .....  | .2                   | 21.7          | 238       | 299                    | 53   | 24.1            |
| Under 13 Years .....   | .1                   | 22.6          | 247       | 322                    | 54   | 22.2            |
| 13 to 18 Years .....   | Q                    | Q             | Q         | Q                      | Q  | NF              |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

Notes: • Data in the Mountain and Pacific Divisions are not presented separately due to a scarcity of data. • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and G of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

Table 104. Total Consumption and Expenditures for Appliances in West Region Households, 1990

| Characteristics                             | Electricity          |                |               |                                | Natural Gas          |                |                      |                                | Liquefied Petroleum Gas |                |                   |                                | RSE Row Factors |
|---|----------------------|----------------|---------------|--------------------------------|----------------------|----------------|----------------------|--------------------------------|-------------------------|----------------|-------------------|--------------------------------|-----------------|
|   | Households (million) | Consumed       |               | Expenditures (billion dollars) | Households (million) | Consumed       |                      | Expenditures (billion dollars) | Households (million)    | Consumed       |                   | Expenditures (billion dollars) |                 |
|   |                      | (trillion Btu) | (billion kWh) |                                |                      | (trillion Btu) | (billion cubic feet) |                                |                         | (trillion Btu) | (billion gallons) |                                |                 |
|   |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 0.5   | NF                   | NF             | NF            | 0.6                            | NF                   | NF             | NF                   | 2.3                            | NF                      | NF             | NF                |                                |                 |
| <b>West Region</b>                          |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| <b>Total Region</b> .....                   | 19.4                 | 268.8          | 78.8          | 6.59                           | 9.1                  | 77.6           | 75                   | 0.44                           | 1.0                     | 5.2            | 0.06              | 0.08                           | 8.6             |
| <b>Climate Zone<sup>1</sup></b>             |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 4.7                  | 80.4           | 23.6          | 1.46                           | 1.0                  | 6.6            | 6                    | .03                            | .2                      | Q              | Q                 | Q                              | 27.2            |
| Under 5,500 HDD .....                       | 12.3                 | 156.8          | 45.9          | 4.21                           | 7.1                  | 64.0           | 62                   | .36                            | .5                      | 2.7            | .03               | .04                            | 15.4            |
| 2,000 CDD or More and Under 4,000 HDD ..... | 2.3                  | 31.7           | 9.3           | .92                            | 1.0                  | 7.0            | 7                    | .05                            | .2                      | 1.5            | .02               | .03                            | 23.4            |
| <b>Type of Housing Unit</b>                 |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Single-Family .....                         | 12.7                 | 214.3          | 62.8          | 5.25                           | 6.2                  | 60.5           | 58                   | .34                            | .7                      | 3.7            | .04               | .06                            | 11.5            |
| Mobile Home .....                           | 1.2                  | 13.8           | 4.1           | .29                            | .7                   | 4.6            | 4                    | .02                            | Q                       | Q              | Q                 | Q                              | 36.2            |
| Multifamily (2 or more units) .....         | 5.4                  | 40.7           | 11.9          | 1.05                           | 2.2                  | 12.5           | 12                   | .07                            | Q                       | Q              | Q                 | Q                              | 19.5            |
| <b>Heated Floorspace (square feet)</b>      |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Fewer than 1,000 .....                      | 8.0                  | 67.7           | 19.8          | 1.70                           | 3.6                  | 22.4           | 22                   | .12                            | .6                      | 3.4            | .04               | .06                            | 10.6            |
| 1,000 to 1,999 .....                        | 8.5                  | 138.7          | 40.7          | 3.37                           | 4.1                  | 38.0           | 37                   | .21                            | .3                      | 1.5            | .02               | .02                            | 14.8            |
| 2,000 or More .....                         | 2.8                  | 62.4           | 18.3          | 1.52                           | 1.4                  | 17.2           | 17                   | .10                            | Q                       | Q              | Q                 | Q                              | 24.5            |
| <b>Ownership of Unit</b>                    |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Owned .....                                 | 11.3                 | 191.8          | 56.2          | 4.69                           | 5.5                  | 51.1           | 49                   | .29                            | .6                      | 2.7            | .03               | .04                            | 11.6            |
| Rented .....                                | 8.1                  | 77.1           | 22.6          | 1.90                           | 3.6                  | 26.5           | 26                   | .15                            | .4                      | 2.4            | .03               | .04                            | 12.4            |
| <b>Year of Construction</b>                 |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 1949 or Before .....                        | 4.6                  | 58.6           | 17.2          | 1.32                           | 2.6                  | 17.6           | 17                   | .10                            | .2                      | Q              | Q                 | Q                              | 13.0            |
| 1950 to 1979 .....                          | 10.8                 | 147.2          | 43.2          | 3.63                           | 5.0                  | 46.4           | 45                   | .27                            | .6                      | 2.7            | .03               | .04                            | 11.3            |
| 1980 or After <sup>2</sup> .....            | 4.0                  | 63.0           | 18.5          | 1.64                           | 1.5                  | 13.6           | 13                   | .08                            | .2                      | 1.0            | .01               | .01                            | 25.5            |
| <b>1990 Family Income</b>                   |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Less than \$10,000 .....                    | 2.9                  | 23.2           | 6.8           | .51                            | 1.2                  | 7.1            | 7                    | .04                            | .4                      | 1.5            | .02               | .02                            | 20.9            |
| \$10,000 to \$19,999 .....                  | 4.3                  | 47.5           | 13.9          | 1.10                           | 2.0                  | 14.2           | 14                   | .08                            | .1                      | .7             | .01               | .01                            | 15.1            |
| \$20,000 to \$34,999 .....                  | 5.0                  | 66.4           | 19.4          | 1.55                           | 2.1                  | 17.8           | 17                   | .10                            | .2                      | 2.1            | .02               | .03                            | 16.4            |
| \$35,000 or More .....                      | 7.2                  | 131.8          | 38.6          | 3.43                           | 3.7                  | 38.5           | 37                   | .22                            | .2                      | .8             | .01               | .01                            | 12.9            |
| <b>Below Poverty Line</b>                   |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 100 Percent .....                           | 2.7                  | 27.5           | 8.1           | .63                            | 1.2                  | 8.4            | 8                    | .05                            | .4                      | 1.6            | .02               | .02                            | 18.3            |
| 125 Percent .....                           | 3.8                  | 40.3           | 11.8          | .94                            | 1.7                  | 12.1           | 12                   | .07                            | .5                      | 1.9            | .02               | .03                            | 15.2            |
| <b>Age of Householder</b>                   |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| Under 35 Years .....                        | 6.4                  | 74.5           | 21.8          | 1.88                           | 3.1                  | 27.6           | 27                   | .16                            | .1                      | 1.1            | .01               | Q                              | 15.8            |
| 35 to 59 Years .....                        | 8.0                  | 133.1          | 39.0          | 3.25                           | 3.9                  | 35.8           | 35                   | .20                            | .5                      | 3.0            | .03               | .05                            | 12.0            |
| 60 Years and Over .....                     | 4.9                  | 61.2           | 17.9          | 1.45                           | 2.1                  | 14.2           | 14                   | .08                            | .3                      | 1.1            | .01               | .02                            | 17.9            |
| <b>Household Size</b>                       |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |
| 1 Person .....                              | 4.9                  | 40.9           | 12.0          | .95                            | 2.0                  | 9.6            | 9                    | .05                            | .4                      | 1.8            | .02               | .03                            | 13.4            |
| 2 to 4 Persons .....                        | 11.8                 | 176.1          | 51.6          | 4.29                           | 5.6                  | 50.2           | 49                   | .28                            | .5                      | 2.3            | .03               | .03                            | 9.6             |
| 5 or More Persons .....                     | 2.6                  | 51.8           | 15.2          | 1.35                           | 1.4                  | 17.7           | 17                   | .10                            | .1                      | Q              | Q                 | Q                              | 18.3            |

See footnotes at end of table.

**Table 104. Total Consumption and Expenditures for Appliances in West Region Households, 1990 (Continued)**

| Characteristics                        | Electricity          |                |               | Natural Gas          |                   |                | Liquefied Petroleum Gas |                      |                   | RSE Row Factors |                                |      |
|--|----------------------|----------------|---------------|----------------------|-------------------|----------------|-------------------------|----------------------|-------------------|-----------------|--------------------------------|------|
|  | Households (million) | Consumed       |               | Households (million) | Consumed          |                | Households (million)    | Consumed             |                   |                 | Expenditures (billion dollars) |      |
|  |                      | (trillion Btu) | (billion kWh) |                      | (billion dollars) | (trillion Btu) |                         | (billion cubic feet) | (billion gallons) |                 |                                |      |
| RSE Column Factors:                    | 0.5                  | NI             | NI            | NI                   | NI                | NI             | 2.3                     | NI                   | NI                | NI              |                                |      |
| <b>Mountain Division</b> .....         | 4.8                  | 74.2           | 21.7          | 1.62                 | 1.9               | 13.0           | 13                      | 0.07                 | Q                 | Q               | Q                              | 14.3 |
| <b>Climate Zone</b> <sup>1</sup>       |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |      |
| Under 2,000 HDD .....                  | 2.9                  | 46.7           | 13.7          | .93                  | .9                | 6.2            | 6                       | .03                  | Q                 | Q               | Q                              | 27.9 |
| Over 5,500 HDD .....                   | .5                   | Q              | Q             | .16                  | .4                | 2.7            | 3                       | .02                  | Q                 | Q               | Q                              | 80.8 |
| Under 5,500 HDD .....                  |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |      |
| 2,000 HDD or More and                  |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |      |
| Under 4,000 HDD .....                  | 1.4                  | 20.6           | 6.0           | .53                  | .6                | 4.1            | 4                       | .03                  | Q                 | Q               | Q                              | 21.8 |
| <b>Type of Housing Unit</b>            |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |      |
| Single-Family .....                    | 3.5                  | 60.6           | 17.8          | 1.31                 | 1.4               | 9.8            | 9                       | .05                  | Q                 | Q               | Q                              | 15.4 |
| Mobile Home .....                      | .5                   | 6.3            | 1.8           | .13                  | .3                | 2.2            | 2                       | .01                  | Q                 | Q               | Q                              | 47.8 |
| Multifamily (2 or more units) ..       | .9                   | 7.3            | 2.1           | .18                  | .2                | 1.1            | 1                       | .01                  | NC                | NC              | NC                             | 44.9 |
| <b>Heated Floorspace (square feet)</b> |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |      |
| Fewer than 1,000 .....                 | 1.7                  | 16.0           | 4.7           | .38                  | .8                | 5.0            | 5                       | .03                  | Q                 | Q               | Q                              | 24.9 |
| 1,000 to 1,999 .....                   | 2.3                  | 38.4           | 11.3          | .84                  | .9                | 6.4            | 6                       | .03                  | Q                 | Q               | Q                              | 16.2 |
| 2,000 or More .....                    | .9                   | 19.8           | 5.8           | .40                  | .2                | 1.6            | 2                       | .01                  | Q                 | Q               | Q                              | 32.3 |
| <b>Ownership of Unit</b>               |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |      |
| Owned .....                            | 3.3                  | 58.4           | 17.1          | 1.24                 | 1.3               | 9.2            | 9                       | .05                  | Q                 | Q               | Q                              | 18.3 |
| Rented .....                           | 1.5                  | 15.7           | 4.6           | .38                  | .6                | 3.8            | 4                       | .02                  | Q                 | Q               | Q                              | 23.3 |
| <b>Year of Construction</b>            |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |      |
| 1949 or Before .....                   | 1.2                  | 16.8           | 4.9           | .35                  | .6                | 4.2            | 4                       | .02                  | Q                 | Q               | Q                              | 31.3 |
| 1950 to 1979 .....                     | 2.5                  | 38.5           | 11.3          | .84                  | 1.0               | 7.4            | 7                       | .04                  | Q                 | Q               | Q                              | 19.2 |
| 1980 or After <sup>2</sup> .....       | 1.1                  | 18.9           | 5.5           | .43                  | .2                | 1.4            | 1                       | .01                  | Q                 | Q               | Q                              | 42.7 |
| <b>1990 Family Income</b>              |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |      |
| Less than \$10,000 .....               | .9                   | 8.2            | 2.4           | .19                  | .4                | 2.6            | 3                       | .01                  | Q                 | Q               | Q                              | 36.3 |
| \$10,000 to \$19,999 .....             | 1.0                  | 12.2           | 3.6           | .29                  | .4                | 3.0            | 3                       | .02                  | Q                 | Q               | Q                              | 22.4 |
| \$20,000 to \$34,999 .....             | 1.4                  | 21.7           | 6.4           | .45                  | .5                | 3.7            | 4                       | .02                  | Q                 | Q               | Q                              | 24.4 |
| \$35,000 or More .....                 | 1.6                  | 32.0           | 9.4           | .68                  | .5                | 3.7            | 4                       | .02                  | Q                 | Q               | Q                              | 21.1 |
| <b>Below Poverty Line</b>              |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |      |
| 100 Percent .....                      | .7                   | 8.0            | 2.3           | .18                  | .3                | 2.7            | 3                       | .01                  | Q                 | Q               | Q                              | 42.2 |
| 125 Percent .....                      | 1.0                  | 12.2           | 3.6           | .28                  | .5                | 3.6            | 4                       | .02                  | Q                 | Q               | Q                              | 30.3 |
| <b>Age of Householder</b>              |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |      |
| Under 35 Years .....                   | 1.5                  | 22.2           | 6.5           | .50                  | .5                | 3.6            | 3                       | .02                  | Q                 | Q               | Q                              | 21.6 |
| 35 to 59 Years .....                   | 2.1                  | 36.4           | 10.7          | .76                  | .8                | 6.3            | 6                       | .03                  | Q                 | Q               | Q                              | 20.1 |
| 60 Years and Over .....                | 1.2                  | 15.5           | 4.6           | .35                  | .6                | 3.1            | 3                       | .02                  | Q                 | Q               | Q                              | 24.2 |
| <b>Household Size</b>                  |                      |                |               |                      |                   |                |                         |                      |                   |                 |                                |      |
| 1 Person .....                         | 1.2                  | 9.7            | 2.8           | .23                  | .5                | 2.1            | 2                       | .01                  | Q                 | Q               | Q                              | 24.9 |
| 2 to 4 Persons .....                   | 3.0                  | 49.4           | 14.5          | 1.06                 | 1.1               | 7.6            | 7                       | .04                  | Q                 | Q               | Q                              | 14.3 |
| 5 or More Persons .....                | .7                   | 15.1           | 4.4           | .33                  | .3                | 3.4            | 3                       | .02                  | Q                 | Q               | Q                              | 31.8 |

See footnotes at end of table.

WEST



APPLIANCE CONSUMPTION/EXPENDITURES

WEST

Table 104. Total Consumption and Expenditures for Appliances in West Region Households, 1990 (Continued)

| Characteristics   | Electricity          |                |               |                                | Natural Gas          |                |                      |                                | Liquefied Petroleum Gas |                |                   |                                | RSE Row Factors |      |
|---|----------------------|----------------|---------------|--------------------------------|----------------------|----------------|----------------------|--------------------------------|-------------------------|----------------|-------------------|--------------------------------|-----------------|------|
|   | Households (million) | Consumed       |               | Expenditures (billion dollars) | Households (million) | Consumed       |                      | Expenditures (billion dollars) | Households (million)    | Consumed       |                   | Expenditures (billion dollars) |                 |      |
|   |                      | (trillion Btu) | (billion kWh) |                                |                      | (trillion Btu) | (billion cubic feet) |                                |                         | (trillion Btu) | (billion gallons) |                                |                 |      |
| RSE Column Factors:                                       | 0.5                  | NF             | NF            | NF                             | 0.6                  | NF             | NF                   | NF                             | 2.3                     | NF             | NF                | NF                             |                 |      |
| Pacific Division  | 14.5                 | 194.6          | 57.0          | 4.97                           | 7.2                  | 64.6           | 62                   | 0.37                           | 0.8                     | 4.4            | 0.05              | 0.07                           | 9.7             |      |
| <b>Climate Zone<sup>1</sup></b>                           |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |      |
| Under 2,000 CDD and Over 5,500 HDD                        | 1.8                  | 33.6           | 9.9           | .53                            | Q                    | Q              | Q                    | Q                              | Q                       | Q              | Q                 | Q                              | Q               | 74.4 |
| Under 5,500 HDD and 2,000 CDD or More and Under 4,000 HDD | .9                   | Q              | Q             | .39                            | Q                    | Q              | Q                    | Q                              | .2                      | 1.4            | .02               | .03                            | .03             | 15.7 |
| <b>Type of Housing Unit</b>                               |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |      |
| Single-Family   | 9.3                  | 153.7          | 45.0          | 3.94                           | 4.8                  | 50.7           | 49                   | .29                            | .6                      | 3.1            | .03               | .05                            | .05             | 14.4 |
| Mobile Home   | .7                   | 7.6            | 2.2           | .16                            | .3                   | 2.4            | 2                    | .01                            | Q                       | Q              | Q                 | Q                              | Q               | 53.9 |
| Multifamily (2 or more units)                             | 4.6                  | 33.4           | 9.8           | .87                            | 2.0                  | 11.4           | 11                   | .07                            | Q                       | Q              | Q                 | Q                              | Q               | 20.8 |
| <b>Heated Floorspace (square feet)</b>                    |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |      |
| Fewer than 1,000  | 6.3                  | 51.7           | 15.2          | 1.31                           | 2.8                  | 17.3           | 17                   | .10                            | .6                      | 3.3            | .04               | .06                            | .06             | 11.9 |
| 1,000 to 1,999  | 6.3                  | 100.3          | 29.4          | 2.54                           | 3.3                  | 31.7           | 31                   | .18                            | Q                       | Q              | Q                 | Q                              | Q               | 17.3 |
| 2,000 or More   | 2.0                  | 42.6           | 12.5          | 1.12                           | 1.1                  | 15.6           | 15                   | .09                            | Q                       | Q              | Q                 | Q                              | Q               | 30.2 |
| <b>Ownership of Unit</b>                                  |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |      |
| Owned   | 8.0                  | 133.3          | 39.1          | 3.45                           | 4.2                  | 41.9           | 40                   | .24                            | .5                      | 2.1            | .02               | .04                            | .04             | 14.2 |
| Rented  | 6.6                  | 61.3           | 18.0          | 1.51                           | 3.0                  | 22.6           | 22                   | .13                            | .3                      | 2.3            | .02               | .02                            | .02             | 14.0 |
| <b>Year of Construction</b>                               |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |      |
| 1949 or Before  | 3.5                  | 41.8           | 12.2          | .97                            | 2.0                  | 13.4           | 13                   | .07                            | .1                      | Q              | Q                 | Q                              | Q               | 14.8 |
| 1950 to 1979  | 8.2                  | 108.7          | 31.9          | 2.79                           | 3.9                  | 38.9           | 38                   | .22                            | .6                      | 2.5            | .03               | .04                            | .04             | 12.9 |
| 1980 or After <sup>2</sup>                                | 2.8                  | 44.1           | 12.9          | 1.21                           | 1.2                  | 12.2           | 12                   | .07                            | Q                       | Q              | Q                 | Q                              | Q               | 35.2 |
| <b>1990 Family Income</b>                                 |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |      |
| Less than \$10,000  | 2.0                  | 15.0           | 4.4           | .32                            | .8                   | 4.5            | 4                    | .02                            | .3                      | 1.3            | .01               | .02                            | .02             | 24.8 |
| \$10,000 to \$19,999                                      | 3.3                  | 35.2           | 10.3          | .81                            | 1.5                  | 11.1           | 11                   | .06                            | Q                       | Q              | Q                 | Q                              | Q               | 19.0 |
| \$20,000 to \$34,999                                      | 3.6                  | 44.7           | 13.1          | 1.10                           | 1.6                  | 14.1           | 14                   | .08                            | .1                      | 1.8            | .02               | .03                            | .03             | 20.0 |
| \$35,000 or More  | 5.6                  | 99.8           | 29.2          | 2.75                           | 3.2                  | 34.9           | 34                   | .20                            | .2                      | .7             | .01               | .01                            | .01             | 14.9 |
| <b>Below Poverty Line</b>                                 |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |      |
| 100 Percent   | 2.0                  | 19.6           | 5.7           | .45                            | .8                   | 5.8            | 6                    | .03                            | .3                      | 1.3            | .01               | .02                            | .02             | 20.1 |
| 125 Percent   | 2.8                  | 28.1           | 8.2           | .66                            | 1.2                  | 8.4            | 8                    | .05                            | .4                      | 1.6            | .02               | .03                            | .03             | 17.7 |
| <b>Age of Householder</b>                                 |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |      |
| Under 35 Years  | 4.8                  | 52.3           | 15.3          | 1.38                           | 2.5                  | 24.0           | 23                   | .14                            | Q                       | Q              | Q                 | Q                              | Q               | 17.8 |
| 35 to 59 Years  | 5.9                  | 96.7           | 28.3          | 2.49                           | 3.1                  | 29.5           | 28                   | .17                            | .4                      | 2.6            | .03               | .04                            | .04             | 14.5 |
| 60 Years and Over   | 3.7                  | 45.6           | 13.4          | 1.10                           | 1.5                  | 11.1           | 11                   | .06                            | .3                      | Q              | Q                 | Q                              | Q               | 21.8 |
| <b>Household Size</b>                                     |                      |                |               |                                |                      |                |                      |                                |                         |                |                   |                                |                 |      |
| 1 Person  | 3.8                  | 31.2           | 9.1           | .72                            | 1.6                  | 7.6            | 7                    | .04                            | .3                      | 1.7            | .02               | .03                            | .03             | 15.2 |
| 2 to 4 Persons  | 8.8                  | 126.8          | 37.2          | 3.24                           | 4.5                  | 42.6           | 41                   | .24                            | .4                      | Q              | Q                 | Q                              | Q               | 10.4 |
| 5 or More Persons   | 1.9                  | 36.7           | 10.8          | 1.02                           | 1.1                  | 14.3           | 14                   | .08                            | .1                      | Q              | Q                 | Q                              | Q               | 22.0 |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.  
<sup>2</sup> Does not include all new construction for 1990.  
 NC = No cases in sample.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 NF = No applicable RSE row/column factor.  
 Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • Appliances do not include refrigerators. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

APPLIANCE CONSUMPTION/EXPENDITURES

Table 105. Electricity Consumption and Expenditures for Appliances and Refrigerators, per West Region Household, 1990

| Characteristics   | Electricity Used for Appliances |               |       |                        | Electricity Used for Refrigerators |                                 |               |       | RSE Row Factors |                        |
|---|---------------------------------|---------------|-------|------------------------|------------------------------------|---------------------------------|---------------|-------|-----------------|------------------------|
|   | Households (million)            | Consumed      |       | Expenditures (dollars) | Households (million)               | Average Number of Refrigerators | Consumed      |       |                 | Expenditures (dollars) |
|   |                                 | (million Btu) | (kWh) |                        |                                    |                                 | (million Btu) | (kWh) |                 |                        |
| RSE Column Factors:                                     | 1.6                             | NE            | NE    | NE                     | 1.6                                | 0.4                             | NE            | NE    | NE              |                        |
| West Region   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| <b>Total Region</b> .....                               | 19.4                            | 13.9          | 4,067 | 340                    | 19.3                               | 1.1                             | 4.7           | 1,384 | 122             | 3.0                    |
| <b>Climate Zone<sup>1</sup></b>                         |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Under 2,000 CDD and                                     |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Over 5,500 HDD .....                                    | 4.7                             | 17.1          | 5,002 | 309                    | 4.7                                | 1.1                             | 4.3           | 1,271 | 79              | 6.4                    |
| Under 5,500 HDD .....                                   | 12.3                            | 12.7          | 3,720 | 341                    | 12.3                               | 1.1                             | 4.5           | 1,311 | 123             | 4.8                    |
| 2,000 CDD or More and                                   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Under 4,000 HDD .....                                   | 2.3                             | 13.7          | 4,017 | 399                    | 2.3                                | 1.1                             | 6.8           | 2,003 | 204             | 6.0                    |
| <b>Type of Housing Unit</b>                             |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Single-Family .....                                     | 12.7                            | 16.8          | 4,931 | 412                    | 12.7                               | 1.2                             | 5.4           | 1,580 | 140             | 3.0                    |
| Mobile Home .....                                       | 1.2                             | 11.6          | 3,395 | 240                    | 1.2                                | 1.1                             | 4.3           | 1,248 | 95              | 9.7                    |
| Multifamily (2 or more units) ..                        | 5.4                             | 7.5           | 2,192 | 193                    | 5.4                                | 1.0                             | 3.3           | 956   | 85              | 4.9                    |
| <b>Heated Floorspace (square feet)</b>                  |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Fewer than 1,000 .....                                  | 8.0                             | 8.5           | 2,488 | 213                    | 8.0                                | 1.1                             | 3.7           | 1,094 | 99              | 3.8                    |
| 1,000 to 1,999 .....                                    | 8.5                             | 16.2          | 4,757 | 395                    | 8.5                                | 1.1                             | 5.1           | 1,508 | 130             | 3.2                    |
| 2,000 or More .....                                     | 2.8                             | 21.9          | 6,423 | 533                    | 2.8                                | 1.3                             | 6.2           | 1,825 | 161             | 5.9                    |
| <b>Ownership of Unit</b>                                |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Owned .....   | 11.3                            | 17.0          | 4,984 | 416                    | 11.3                               | 1.2                             | 5.5           | 1,617 | 142             | 3.0                    |
| Rented .....  | 8.1                             | 9.5           | 2,790 | 234                    | 8.1                                | 1.0                             | 3.6           | 1,059 | 94              | 4.3                    |
| <b>Year of Construction</b>                             |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1949 or Before .....                                    | 4.6                             | 12.6          | 3,706 | 284                    | 4.6                                | 1.1                             | 4.2           | 1,231 | 100             | 5.9                    |
| 1950 to 1979 .....                                      | 10.8                            | 13.7          | 4,014 | 338                    | 10.7                               | 1.1                             | 4.7           | 1,382 | 122             | 2.7                    |
| 1980 or After <sup>2</sup> .....                        | 4.0                             | 15.8          | 4,632 | 411                    | 4.0                                | 1.1                             | 5.4           | 1,570 | 145             | 5.5                    |
| <b>1990 Family Income</b>                               |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Less than \$10,000 .....                                | 2.9                             | 8.1           | 2,362 | 177                    | 2.9                                | 1.0                             | 3.5           | 1,025 | 80              | 7.0                    |
| \$10,000 to \$19,999 .....                              | 4.3                             | 11.1          | 3,258 | 257                    | 4.3                                | 1.1                             | 4.4           | 1,291 | 111             | 5.6                    |
| \$20,000 to \$34,999 .....                              | 5.0                             | 13.2          | 3,868 | 308                    | 5.0                                | 1.1                             | 4.4           | 1,288 | 110             | 4.6                    |
| \$35,000 or More .....                                  | 7.2                             | 18.3          | 5,369 | 477                    | 7.2                                | 1.2                             | 5.6           | 1,650 | 153             | 3.4                    |
| <b>Below Poverty Line</b>                               |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 100 Percent .....                                       | 2.7                             | 10.1          | 2,972 | 233                    | 2.7                                | 1.1                             | 3.8           | 1,115 | 93              | 7.6                    |
| 125 Percent .....                                       | 3.8                             | 10.6          | 3,104 | 246                    | 3.8                                | 1.1                             | 4.0           | 1,166 | 97              | 6.7                    |
| <b>Age of Householder</b>                               |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Under 35 Years .....                                    | 6.4                             | 11.7          | 3,421 | 295                    | 6.4                                | 1.1                             | 3.9           | 1,147 | 105             | 4.6                    |
| 35 to 59 Years .....                                    | 8.0                             | 16.6          | 4,852 | 405                    | 8.0                                | 1.2                             | 5.2           | 1,529 | 133             | 3.0                    |
| 60 Years and Over .....                                 | 4.9                             | 12.4          | 3,625 | 294                    | 4.9                                | 1.2                             | 5.0           | 1,455 | 125             | 4.6                    |
| <b>Household Size</b>                                   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1 Person .....  | 4.9                             | 8.3           | 2,424 | 191                    | 4.9                                | 1.1                             | 4.0           | 1,182 | 98              | 3.9                    |
| 2 to 4 Persons .....                                    | 11.8                            | 14.9          | 4,373 | 364                    | 11.8                               | 1.1                             | 4.8           | 1,421 | 125             | 2.2                    |
| 5 or More Persons .....                                 | 2.6                             | 19.7          | 5,783 | 513                    | 2.6                                | 1.3                             | 5.5           | 1,600 | 152             | 6.1                    |
| <b>Average Electricity Expenditures (cents per kWh)</b> |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Less than 6 .....                                       | 3.8                             | 17.5          | 5,118 | 237                    | --                                 | --                              | --            | --    | --              | 6.7                    |
| 6 to Less than 9 .....                                  | 5.4                             | 14.1          | 4,145 | 316                    | --                                 | --                              | --            | --    | --              | 5.6                    |
| 9 or More .....   | 10.2                            | 12.4          | 3,631 | 391                    | --                                 | --                              | --            | --    | --              | 3.9                    |

See footnotes at end of table.

WEST

APPLIANCE CONSUMPTION/EXPENDITURES

WEST

Table 105. Electricity Consumption and Expenditures for Appliances and Refrigerators, per West Region Household, 1990 (Continued)

| Characteristics   | Electricity Used for Appliances |               |       |                        | Electricity Used for Refrigerators |                                 |               |       | RSE Row Factors |                        |
|---|---------------------------------|---------------|-------|------------------------|------------------------------------|---------------------------------|---------------|-------|-----------------|------------------------|
|   | Households (million)            | Consumed      |       | Expenditures (dollars) | Households (million)               | Average Number of Refrigerators | Consumed      |       |                 | Expenditures (dollars) |
|   |                                 | (million Btu) | (kWh) |                        |                                    |                                 | (million Btu) | (kWh) |                 |                        |
| RSE Column Factors:   | 1.6                             | NF            | NF    | NF                     | 1.6                                | 0.4                             | NF            | NF    | NF              |                        |
| West Region   |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| <b>Average Electric Refrigerator Expenditures (cents per kWh)</b> |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Less than 6 .....   | --                              | --            | --    | --                     | 3.8                                | 1.1                             | 4.4           | 1,301 | 60              | 6.7                    |
| 6 to Less than 9 .....  | --                              | --            | --    | --                     | 5.4                                | 1.1                             | 4.6           | 1,359 | 105             | 5.6                    |
| 9 or More .....   | --                              | --            | --    | --                     | 10.1                               | 1.1                             | 4.9           | 1,429 | 154             | 3.9                    |
| <b>Appliances Present in Household (more than one may apply)</b>  |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Separate Freezer .....  | 5.9                             | 20.3          | 5,937 | 457                    | 5.9                                | 1.2                             | 5.1           | 1,509 | 123             | 3.7                    |
| Dishwasher .....  | 10.0                            | 17.1          | 5,026 | 423                    | 10.0                               | 1.2                             | 5.2           | 1,536 | 135             | 3.2                    |
| Clothes Washer .....  | 14.0                            | 16.6          | 4,857 | 405                    | 14.0                               | 1.2                             | 5.2           | 1,538 | 135             | 3.2                    |
| Clothes Dryer .....   | 8.8                             | 18.5          | 5,413 | 405                    | 8.8                                | 1.2                             | 5.2           | 1,518 | 119             | 4.0                    |
| Waterbed Heater .....   | 3.0                             | 21.0          | 6,148 | 512                    | 3.0                                | 1.1                             | 5.2           | 1,523 | 133             | 4.9                    |
| Swimming-Pool Pump .....  | 1.1                             | 25.6          | 7,498 | 800                    | 1.1                                | 1.3                             | 6.9           | 2,031 | 219             | 8.2                    |
| Hot-Tub or Spa Pump .....   | 1.4                             | 23.2          | 6,811 | 646                    | 1.4                                | 1.2                             | 6.1           | 1,796 | 176             | 7.5                    |
| Hot-Tub or Spa Heater .....                                       | 5                               | 21.6          | 6,343 | 529                    | 5                                  | 1.2                             | 5.3           | 1,540 | 132             | 12.1                   |
| Well Pump .....   | 1.2                             | 18.4          | 5,381 | 353                    | 1.2                                | 1.3                             | 4.8           | 1,396 | 94              | 9.7                    |
| <b>Appliance Combinations</b>                                     |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Dishwasher, Clothes Washer, and Clothes Dryer                     |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| With .....  | 5.9                             | 20.0          | 5,850 | 452                    | 5.9                                | 1.2                             | 5.4           | 1,592 | 129             | 4.7                    |
| Without .....   | 3.8                             | 6.4           | 1,866 | 162                    | 3.8                                | 1.0                             | 3.2           | 951   | 86              | 5.4                    |
| Well Pump and Separate Freezer                                    |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| With .....  | 8                               | 20.7          | 6,061 | 397                    | 8                                  | 1.4                             | 5.0           | 1,458 | 97              | 10.6                   |
| Without .....   | 13.0                            | 11.0          | 3,220 | 288                    | 13.0                               | 1.1                             | 4.5           | 1,331 | 122             | 2.8                    |
| <b>Main Heating Fuel</b>  |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Natural Gas .....   | 12.4                            | 13.2          | 3,870 | 358                    | 12.4                               | 1.1                             | 4.7           | 1,385 | 131             | 3.5                    |
| Electricity .....   | 4.6                             | 13.7          | 4,007 | 264                    | 4.6                                | 1.1                             | 4.5           | 1,324 | 95              | 6.4                    |
| Fuel Oil or Kerosene .....  | Q                               | 23.3          | 6,834 | 336                    | Q                                  | 1.2                             | 5.5           | 1,621 | 80              | 29.2                   |
| Wood .....  | 1.1                             | 21.7          | 6,354 | 428                    | 1.1                                | 1.3                             | 5.2           | 1,531 | 104             | 10.1                   |
| LPG .....   | 4                               | 11.3          | 3,299 | 281                    | 4                                  | 1.0                             | 3.9           | 1,135 | 98              | 20.0                   |
| Other .....   | Q                               | Q             | Q     | Q                      | Q                                  | Q                               | Q             | Q     | Q               | NF                     |
| <b>Number of Refrigerators</b>                                    |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1 .....   | 16.7                            | 13.1          | 3,842 | 320                    | 16.7                               | 1.0                             | 4.2           | 1,221 | 106             | 1.9                    |
| 2 or More .....   | 2.6                             | 18.9          | 5,537 | 473                    | 2.6                                | 2.0                             | 8.3           | 2,432 | 222             | 5.3                    |

See footnotes at end of table.

**APPLIANCE CONSUMPTION/EXPENDITURES**

**Table 105. Electricity Consumption and Expenditures for Appliances and Refrigerators, per West Region Household, 1990 (Continued)**

| Characteristics                        | Electricity Used for Appliances |               |       |                        | Electricity Used for Refrigerators |                                 |               |       | RSE Row Factors |                        |
|--|---------------------------------|---------------|-------|------------------------|------------------------------------|---------------------------------|---------------|-------|-----------------|------------------------|
|  | Households (million)            | Consumed      |       | Expenditures (dollars) | Households (million)               | Average Number of Refrigerators | Consumed      |       |                 | Expenditures (dollars) |
|  |                                 | (million Btu) | (kWh) |                        |                                    |                                 | (million Btu) | (kWh) |                 |                        |
| RSE Column Factors:                    | 1.6                             | NF            | NF    | NF                     | 1.6                                | 0.4                             | NF            | NF    | NF              |                        |
| Mountain Division                      | 4.8                             | 15.3          | 4,487 | 334                    | 4.8                                | 1.1                             | 5.4           | 1,584 | 126             | 4.4                    |
| <b>Climate Zone<sup>1</sup></b>        |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Under 2,000 CDD and                    |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Over 5,500 HDD                         | 2.9                             | 16.0          | 4,695 | 318                    | 2.9                                | 1.1                             | 4.3           | 1,268 | 88              | 7.3                    |
| Under 5,500 HDD                        | .5                              | 13.3          | 3,897 | 301                    | .5                                 | 1.2                             | 6.2           | 1,803 | 147             | 18.8                   |
| 2,000 CDD or More and                  |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Under 4,000 HDD                        | 1.4                             | 14.6          | 4,272 | 379                    | 1.4                                | 1.1                             | 7.3           | 2,153 | 197             | 5.5                    |
| <b>Type of Housing Unit</b>            |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Single-Family                          | 3.5                             | 17.5          | 5,121 | 378                    | 3.5                                | 1.1                             | 5.8           | 1,709 | 133             | 5.5                    |
| Mobile Home                            | .5                              | 12.8          | 3,765 | 258                    | .5                                 | 1.1                             | 4.6           | 1,338 | 103             | 12.7                   |
| Multifamily (2 or more units)          | .9                              | 8.2           | 2,403 | 203                    | .9                                 | 1.0                             | 4.2           | 1,226 | 109             | 10.4                   |
| <b>Heated Floorspace (square feet)</b> |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Fewer than 1,000                       | 1.7                             | 9.5           | 2,774 | 228                    | 1.7                                | 1.1                             | 4.7           | 1,379 | 121             | 6.3                    |
| 1,000 to 1,999                         | 2.3                             | 16.8          | 4,921 | 365                    | 2.3                                | 1.1                             | 5.6           | 1,638 | 127             | 4.9                    |
| 2,000 or More                          | .9                              | 22.7          | 6,665 | 458                    | .9                                 | 1.2                             | 6.3           | 1,837 | 132             | 9.4                    |
| <b>Ownership of Unit</b>               |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Owned                                  | 3.3                             | 17.6          | 5,170 | 373                    | 3.3                                | 1.2                             | 5.7           | 1,684 | 129             | 5.8                    |
| Rented                                 | 1.5                             | 10.3          | 3,009 | 250                    | 1.5                                | 1.0                             | 4.7           | 1,367 | 118             | 4.6                    |
| <b>Year of Construction</b>            |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1949 or Before                         | 1.2                             | 14.4          | 4,232 | 301                    | 1.2                                | 1.1                             | 4.5           | 1,330 | 101             | 10.7                   |
| 1950 to 1979                           | 2.5                             | 15.1          | 4,438 | 329                    | 2.5                                | 1.1                             | 5.6           | 1,655 | 132             | 4.9                    |
| 1980 or After <sup>2</sup>             | 1.1                             | 16.6          | 4,857 | 379                    | 1.1                                | 1.1                             | 5.7           | 1,684 | 136             | 8.1                    |
| <b>1990 Family Income</b>              |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Less than \$10,000                     | .9                              | 9.5           | 2,792 | 224                    | .9                                 | 1.0                             | 4.5           | 1,314 | 110             | 8.6                    |
| \$10,000 to \$19,999                   | 1.0                             | 12.1          | 3,551 | 288                    | 1.0                                | 1.1                             | 5.3           | 1,566 | 136             | 7.8                    |
| \$20,000 to \$34,999                   | 1.4                             | 15.7          | 4,593 | 327                    | 1.4                                | 1.1                             | 4.9           | 1,445 | 110             | 6.7                    |
| \$35,000 or More                       | 1.6                             | 20.2          | 5,908 | 429                    | 1.6                                | 1.2                             | 6.3           | 1,861 | 142             | 6.3                    |
| <b>Below Poverty Line</b>              |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 100 Percent                            | .7                              | 11.4          | 3,340 | 264                    | .7                                 | 1.0                             | 4.7           | 1,373 | 115             | 10.7                   |
| 125 Percent                            | 1.0                             | 11.8          | 3,467 | 272                    | 1.0                                | 1.0                             | 4.7           | 1,376 | 114             | 9.3                    |
| <b>Age of Householder</b>              |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| Under 35 Years                         | 1.5                             | 14.4          | 4,229 | 327                    | 1.5                                | 1.0                             | 4.6           | 1,350 | 110             | 4.8                    |
| 35 to 59 Years                         | 2.1                             | 17.3          | 5,060 | 363                    | 2.1                                | 1.1                             | 5.7           | 1,682 | 129             | 5.2                    |
| 60 Years and Over                      | 1.2                             | 13.0          | 3,807 | 292                    | 1.2                                | 1.2                             | 5.8           | 1,709 | 140             | 10.0                   |
| <b>Household Size</b>                  |                                 |               |       |                        |                                    |                                 |               |       |                 |                        |
| 1 Person                               | 1.2                             | 8.3           | 2,423 | 196                    | 1.2                                | 1.1                             | 4.7           | 1,390 | 119             | 5.8                    |
| 2 to 4 Persons                         | 3.0                             | 16.5          | 4,835 | 354                    | 3.0                                | 1.1                             | 5.7           | 1,664 | 129             | 4.4                    |
| 5 or More Persons                      | .7                              | 22.2          | 6,494 | 484                    | .7                                 | 1.1                             | 5.3           | 1,562 | 121             | 9.8                    |

See footnotes at end of table.

**WEST**

Table 105. Electricity Consumption and Expenditures for Appliances and Refrigerators, per West Region Household, 1990 (Continued)

| Characteristics                        | Electricity Used for Appliances |                |       |                        | Electricity Used for Refrigerators |                                 |                |       | RSE Row Factors |                        |
|--|---------------------------------|----------------|-------|------------------------|------------------------------------|---------------------------------|----------------|-------|-----------------|------------------------|
|  | Households (million)            | Consumed       |       | Expenditures (dollars) | Households (million)               | Average Number of Refrigerators | Consumed       |       |                 | Expenditures (dollars) |
|  |                                 | (mil-lion Btu) | (kWh) |                        |                                    |                                 | (mil-lion Btu) | (kWh) |                 |                        |
|  |                                 |                |       |                        |                                    |                                 |                |       |                 |                        |
| 1.6                                    | NF                              | NF             | NF    | 1.6                    | 0.4                                | NF                              | NF             | NF    | NF              |                        |
| RSE Column Factors:                    | 14.5                            | 13.4           | 3,928 | 342                    | 14.5                               | 1.1                             | 4.5            | 1,318 | 120             | 2.7                    |
| <b>Pacific Division</b>                | 14.5                            | 13.4           | 3,928 | 342                    | 14.5                               | 1.1                             | 4.5            | 1,318 | 120             | 2.7                    |
| <b>Climate Zone<sup>1</sup></b>        |                                 |                |       |                        |                                    |                                 |                |       |                 |                        |
| Under 2,000 CDD and Over 5,500 HDD     | 1.8                             | 18.8           | 5,502 | 295                    | 1.8                                | 1.1                             | 4.4            | 1,276 | 65              | 10.5                   |
| Under 5,500 HDD                        | 11.8                            | 12.7           | 3,713 | 342                    | 11.8                               | 1.1                             | 4.4            | 1,290 | 122             | 5.0                    |
| 2,000 CDD or More and Under 4,000 HDD  | 9                               | 12.3           | 3,616 | 432                    | 9                                  | 1.1                             | 6.0            | 1,769 | 215             | 11.3                   |
| <b>Type of Housing Unit</b>            |                                 |                |       |                        |                                    |                                 |                |       |                 |                        |
| Single-Family                          | 9.3                             | 16.6           | 4,860 | 425                    | 9.3                                | 1.2                             | 5.2            | 1,532 | 142             | 3.7                    |
| Mobile Home                            | 7                               | 10.7           | 3,138 | 227                    | 7                                  | 1.0                             | 4.1            | 1,187 | 90              | 14.3                   |
| Multifamily (2 or more units)          | 4.6                             | 7.3            | 2,151 | 191                    | 4.6                                | 1.0                             | 3.1            | 904   | 80              | 5.4                    |
| <b>Heated Floorspace (square feet)</b> |                                 |                |       |                        |                                    |                                 |                |       |                 |                        |
| Fewer than 1,000                       | 6.3                             | 8.2            | 2,411 | 209                    | 6.3                                | 1.1                             | 3.5            | 1,017 | 93              | 4.2                    |
| 1,000 to 1,999                         | 6.3                             | 16.0           | 4,697 | 405                    | 6.3                                | 1.2                             | 5.0            | 1,461 | 131             | 3.9                    |
| 2,000 or More                          | 2.0                             | 21.6           | 6,316 | 565                    | 2.0                                | 1.4                             | 6.2            | 1,819 | 173             | 7.3                    |
| <b>Ownership of Unit</b>               |                                 |                |       |                        |                                    |                                 |                |       |                 |                        |
| Owned                                  | 8.0                             | 16.7           | 4,906 | 434                    | 8.0                                | 1.2                             | 5.4            | 1,589 | 147             | 3.5                    |
| Rented                                 | 6.6                             | 9.3            | 2,739 | 231                    | 6.5                                | 1.0                             | 3.4            | 987   | 88              | 5.2                    |
| <b>Year of Construction</b>            |                                 |                |       |                        |                                    |                                 |                |       |                 |                        |
| 1949 or Before                         | 3.5                             | 12.0           | 3,529 | 279                    | 3.5                                | 1.1                             | 4.1            | 1,198 | 100             | 7.1                    |
| 1950 to 1979                           | 8.2                             | 13.2           | 3,883 | 340                    | 8.2                                | 1.1                             | 4.4            | 1,297 | 119             | 3.2                    |
| 1980 or After <sup>2</sup>             | 2.8                             | 15.5           | 4,542 | 424                    | 2.8                                | 1.2                             | 5.2            | 1,525 | 149             | 7.0                    |
| <b>1990 Family Income</b>              |                                 |                |       |                        |                                    |                                 |                |       |                 |                        |
| Less than \$10,000                     | 2.0                             | 7.4            | 2,178 | 156                    | 2.0                                | 1.0                             | 3.1            | 900   | 67              | 8.2                    |
| \$10,000 to \$19,999                   | 3.3                             | 10.8           | 3,167 | 247                    | 3.3                                | 1.1                             | 4.1            | 1,206 | 103             | 7.0                    |
| \$20,000 to \$34,999                   | 3.6                             | 12.3           | 3,592 | 301                    | 3.6                                | 1.1                             | 4.2            | 1,228 | 110             | 5.9                    |
| \$35,000 or More                       | 5.6                             | 17.8           | 5,217 | 491                    | 5.6                                | 1.2                             | 5.4            | 1,590 | 156             | 4.0                    |
| <b>Below Poverty Line</b>              |                                 |                |       |                        |                                    |                                 |                |       |                 |                        |
| 100 Percent                            | 2.0                             | 9.7            | 2,844 | 222                    | 2.0                                | 1.1                             | 3.5            | 1,027 | 86              | 9.3                    |
| 125 Percent                            | 2.8                             | 10.1           | 2,969 | 236                    | 2.8                                | 1.1                             | 3.7            | 1,088 | 91              | 8.5                    |
| <b>Age of Householder</b>              |                                 |                |       |                        |                                    |                                 |                |       |                 |                        |
| Under 35 Years                         | 4.8                             | 10.8           | 3,165 | 284                    | 4.8                                | 1.1                             | 3.7            | 1,083 | 103             | 6.0                    |
| 35 to 59 Years                         | 5.9                             | 16.3           | 4,778 | 419                    | 5.9                                | 1.2                             | 5.0            | 1,474 | 135             | 3.8                    |
| 60 Years and Over                      | 3.7                             | 12.2           | 3,567 | 294                    | 3.7                                | 1.2                             | 4.7            | 1,375 | 120             | 5.5                    |
| <b>Household Size</b>                  |                                 |                |       |                        |                                    |                                 |                |       |                 |                        |
| 1 Person                               | 3.8                             | 8.3            | 2,425 | 190                    | 3.8                                | 1.1                             | 3.8            | 1,117 | 91              | 4.8                    |
| 2 to 4 Persons                         | 8.8                             | 14.4           | 4,216 | 367                    | 8.8                                | 1.1                             | 4.6            | 1,338 | 123             | 2.9                    |
| 5 or More Persons                      | 1.9                             | 18.9           | 5,534 | 523                    | 1.9                                | 1.3                             | 5.5            | 1,613 | 163             | 7.4                    |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

— = Not applicable.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).

APPLIANCE CONSUMPTION/EXPENDITURES

Table 106. Natural Gas and LPG Consumption and Expenditures for Appliances, per West Region Household, 1990

| Characteristics                             | Natural Gas          |               |                   |                        | Liquefied Petroleum Gas |               |           |                        | RSE Row Factors |
|---|----------------------|---------------|-------------------|------------------------|-------------------------|---------------|-----------|------------------------|-----------------|
|   | Households (million) | Consumed      |                   | Expenditures (dollars) | Households (million)    | Consumed      |           | Expenditures (dollars) |                 |
|   |                      | (million Btu) | (1000 cubic feet) |                        |                         | (million Btu) | (gallons) |                        |                 |
| RSE Column Factors:                         | 0.7                  | NF            | NF                | NF                     | 2.4                     | NF            | NF        | NF                     |                 |
| West Region                                 |                      |               |                   |                        |                         |               |           |                        |                 |
| <b>Total Region</b> .....                   | 9.1                  | 8.6           | 8.3               | 48                     | 1.0                     | 5.4           | 59        | 86                     | 9.0             |
| <b>Climate Zone<sup>1</sup></b>             |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 2,000 CDD and Over 5,500 HDD .....    | 1.0                  | 6.8           | 6.6               | 30                     | .2                      | 3.9           | 43        | 54                     | 18.5            |
| Under 5,500 HDD .....                       | 7.1                  | 9.1           | 8.7               | 51                     | .5                      | 5.5           | 61        | 81                     | 13.1            |
| 2,000 CDD or More and Under 4,000 HDD ..... | 1.0                  | 6.9           | 6.7               | 45                     | .2                      | 6.5           | 72        | 126                    | 14.1            |
| <b>Type of Housing Unit</b>                 |                      |               |                   |                        |                         |               |           |                        |                 |
| Single-Family .....                         | 6.2                  | 9.8           | 9.4               | 55                     | .7                      | 5.3           | 58        | 87                     | 11.7            |
| Mobile Home .....                           | 7                    | 6.8           | 6.6               | 35                     | Q                       | 4.1           | 45        | 47                     | 22.5            |
| Multifamily (2 or more units) ..            | 2.2                  | 5.7           | 5.5               | 33                     | Q                       | Q             | Q         | Q                      | 11.1            |
| <b>Heated Floorspace (square feet)</b>      |                      |               |                   |                        |                         |               |           |                        |                 |
| Fewer than 1,000 .....                      | 3.6                  | 6.3           | 6.1               | 35                     | .6                      | 5.4           | 59        | 90                     | 8.9             |
| 1,000 to 1,999 .....                        | 4.1                  | 9.2           | 8.9               | 51                     | .3                      | 5.7           | 63        | 81                     | 15.1            |
| 2,000 or More .....                         | 1.4                  | 12.6          | 12.1              | 74                     | Q                       | Q             | Q         | Q                      | 23.1            |
| <b>Ownership of Unit</b>                    |                      |               |                   |                        |                         |               |           |                        |                 |
| Owned .....                                 | 5.5                  | 9.3           | 9.0               | 52                     | .6                      | 4.6           | 50        | 73                     | 10.5            |
| Rented .....                                | 3.6                  | 7.4           | 7.2               | 42                     | .4                      | 6.7           | 73        | 107                    | 15.1            |
| <b>Year of Construction</b>                 |                      |               |                   |                        |                         |               |           |                        |                 |
| 1949 or Before .....                        | 2.6                  | 6.7           | 6.5               | 36                     | .2                      | 8.6           | 94        | 139                    | 14.8            |
| 1950 to 1979 .....                          | 5.0                  | 9.4           | 9.0               | 54                     | .6                      | 4.4           | 48        | 70                     | 9.9             |
| 1980 or After <sup>2</sup> .....            | 1.5                  | 9.2           | 8.9               | 51                     | .2                      | 5.9           | 65        | 88                     | 17.5            |
| <b>1990 Family Income</b>                   |                      |               |                   |                        |                         |               |           |                        |                 |
| Less than \$10,000 .....                    | 1.2                  | 5.7           | 5.6               | 32                     | .4                      | 3.8           | 42        | 57                     | 17.1            |
| \$10,000 to \$19,999 .....                  | 2.0                  | 7.1           | 6.9               | 40                     | .1                      | 4.8           | 53        | 71                     | 10.4            |
| \$20,000 to \$34,999 .....                  | 2.1                  | 8.5           | 8.2               | 47                     | .2                      | 11.2          | 122       | 178                    | 15.7            |
| \$35,000 or More .....                      | 3.7                  | 10.4          | 10.0              | 59                     | .2                      | 3.7           | 40        | 68                     | 12.7            |
| <b>Below Poverty Line</b>                   |                      |               |                   |                        |                         |               |           |                        |                 |
| 100 Percent .....                           | 1.2                  | 7.2           | 7.0               | 40                     | .4                      | 4.2           | 46        | 64                     | 18.4            |
| 125 Percent .....                           | 1.7                  | 7.2           | 7.0               | 41                     | .5                      | 4.1           | 45        | 61                     | 13.5            |
| <b>Age of Householder</b>                   |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 35 Years .....                        | 3.1                  | 9.0           | 8.7               | 51                     | .1                      | 8.2           | 90        | 122                    | 13.3            |
| 35 to 59 Years .....                        | 3.9                  | 9.2           | 8.8               | 52                     | .5                      | 5.8           | 63        | 95                     | 12.7            |
| 60 Years and Over .....                     | 2.1                  | 6.8           | 6.6               | 37                     | .3                      | 3.6           | 39        | 55                     | 13.3            |
| <b>Household Size</b>                       |                      |               |                   |                        |                         |               |           |                        |                 |
| 1 Person .....                              | 2.0                  | 4.7           | 4.6               | 26                     | .4                      | 5.1           | 56        | 80                     | 15.1            |
| 2 to 4 Persons .....                        | 5.6                  | 9.0           | 8.7               | 50                     | .5                      | 5.0           | 55        | 75                     | 10.5            |
| 5 or More Persons .....                     | 1.4                  | 12.5          | 12.1              | 72                     | .1                      | 7.5           | 83        | 138                    | 21.4            |

See footnotes at end of table.

WEST

**Table 106. Natural Gas and LPG Consumption and Expenditures for Appliances, per West Region Household, 1990 (Continued)**

| Characteristics                        | Natural Gas          |               |                   |                        | Liquefied Petroleum Gas |               |           |                        | RSE Row Factors |
|--|----------------------|---------------|-------------------|------------------------|-------------------------|---------------|-----------|------------------------|-----------------|
|  | Households (million) | Consumed      |                   | Expenditures (dollars) | Households (million)    | Consumed      |           | Expenditures (dollars) |                 |
|  |                      | (million Btu) | (1000 cubic feet) |                        |                         | (million Btu) | (gallons) |                        |                 |
| RSE Column Factors:                    | 0.7                  | NF            | NF                | NF                     | 2.4                     | NF            | NF        | NF                     |                 |
| <b>Mountain Division</b> .....         | 1.9                  | 6.9           | 6.7               | 38                     | Q                       | 4.9           | 53        | 52                     | 15.0            |
| <b>Climate Zone<sup>1</sup></b>        |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 2,000 HDD and                    |                      |               |                   |                        |                         |               |           |                        |                 |
| Over 5,500 HDD .....                   | .9                   | 7.1           | 6.9               | 31                     | Q                       | Q             | Q         | Q                      | 19.5            |
| Under 5,500 HDD .....                  | .4                   | 7.3           | 6.9               | 42                     | Q                       | Q             | Q         | Q                      | 22.4            |
| 2,000 HDD or More and                  |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 4,000 HDD .....                  | .6                   | 6.5           | 6.4               | 47                     | Q                       | Q             | Q         | Q                      | 16.6            |
| <b>Type of Housing Unit</b>            |                      |               |                   |                        |                         |               |           |                        |                 |
| Single-Family .....                    | 1.4                  | 7.3           | 7.0               | 40                     | Q                       | 5.3           | 58        | 57                     | 17.1            |
| Mobile Home .....                      | .3                   | 6.5           | 6.3               | 33                     | Q                       | Q             | Q         | Q                      | 27.9            |
| Multifamily (2 or more units) ..       | .2                   | 5.4           | 5.2               | 34                     | NC                      | NC            | NC        | NC                     | 31.2            |
| <b>Heated Floorspace (square feet)</b> |                      |               |                   |                        |                         |               |           |                        |                 |
| Fewer than 1,000 .....                 | .8                   | 6.3           | 6.1               | 36                     | Q                       | Q             | Q         | Q                      | 14.9            |
| 1,000 to 1,999 .....                   | .9                   | 7.4           | 7.1               | 40                     | Q                       | Q             | Q         | Q                      | 14.7            |
| 2,000 or More .....                    | .2                   | 7.5           | 7.1               | 41                     | Q                       | Q             | Q         | Q                      | 31.4            |
| <b>Ownership of Unit</b>               |                      |               |                   |                        |                         |               |           |                        |                 |
| Owned .....                            | 1.3                  | 6.9           | 6.7               | 38                     | Q                       | 5.0           | 55        | 56                     | 18.5            |
| Rented .....                           | .6                   | 6.9           | 6.8               | 38                     | Q                       | Q             | Q         | Q                      | 21.3            |
| <b>Year of Construction</b>            |                      |               |                   |                        |                         |               |           |                        |                 |
| 1949 or Before .....                   | .6                   | 6.9           | 6.8               | 34                     | Q                       | Q             | Q         | Q                      | 26.0            |
| 1950 to 1979 .....                     | 1.0                  | 7.1           | 6.9               | 42                     | Q                       | Q             | Q         | Q                      | 13.1            |
| 1980 or After <sup>2</sup> .....       | .2                   | 6.0           | 5.8               | 35                     | Q                       | Q             | Q         | Q                      | 38.5            |
| <b>1990 Family Income</b>              |                      |               |                   |                        |                         |               |           |                        |                 |
| Less than \$10,000 .....               | .4                   | 6.2           | 6.0               | 33                     | Q                       | Q             | Q         | Q                      | 32.8            |
| \$10,000 to \$19,999 .....             | .4                   | 6.8           | 6.6               | 40                     | Q                       | Q             | Q         | Q                      | 19.3            |
| \$20,000 to \$34,999 .....             | .5                   | 7.6           | 7.4               | 39                     | Q                       | Q             | Q         | Q                      | 18.1            |
| \$35,000 or More .....                 | .5                   | 7.0           | 6.8               | 41                     | Q                       | Q             | Q         | Q                      | 16.6            |
| <b>Below Poverty Line</b>              |                      |               |                   |                        |                         |               |           |                        |                 |
| 100 Percent .....                      | .3                   | 8.0           | 7.8               | 41                     | Q                       | Q             | Q         | Q                      | 29.5            |
| 125 Percent .....                      | .5                   | 7.6           | 7.4               | 40                     | Q                       | Q             | Q         | Q                      | 21.4            |
| <b>Age of Householder</b>              |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 35 Years .....                   | .5                   | 6.9           | 6.7               | 38                     | Q                       | Q             | Q         | Q                      | 16.2            |
| 35 to 59 Years .....                   | .8                   | 8.1           | 7.8               | 44                     | Q                       | Q             | Q         | Q                      | 19.1            |
| 60 Years and Over .....                | .6                   | 5.4           | 5.2               | 31                     | Q                       | Q             | Q         | Q                      | 19.0            |
| <b>Household Size</b>                  |                      |               |                   |                        |                         |               |           |                        |                 |
| 1 Person .....                         | .5                   | 4.4           | 4.3               | 24                     | Q                       | Q             | Q         | Q                      | 27.2            |
| 2 to 4 Persons .....                   | 1.1                  | 7.1           | 6.8               | 40                     | Q                       | Q             | Q         | Q                      | 10.6            |
| 5 or More Persons .....                | .3                   | 10.1          | 9.7               | 52                     | Q                       | Q             | Q         | Q                      | 17.4            |

See footnotes at end of table.

APPLIANCE CONSUMPTION/EXPENDITURES

WEST

APPLIANCE CONSUMPTION/EXPENDITURES

Table 106. Natural Gas and LPG Consumption and Expenditures for Appliances, per West Region Household, 1990 (Continued)

| Characteristics   | Natural Gas          |               |                   |                        | Liquefied Petroleum Gas |               |           |                        | RSE Row Factors |
|---|----------------------|---------------|-------------------|------------------------|-------------------------|---------------|-----------|------------------------|-----------------|
|   | Households (million) | Consumed      |                   | Expenditures (dollars) | Households (million)    | Consumed      |           | Expenditures (dollars) |                 |
|   |                      | (million Btu) | (1000 cubic feet) |                        |                         | (million Btu) | (gallons) |                        |                 |
| RSE Column Factors:                                       | 0.7                  | NF            | NF                | NF                     | 2.4                     | NF            | NF        | NF                     |                 |
| Pacific Division  | 7.2                  | 9.0           | 8.7               | 5.1                    | 0.8                     | 5.5           | 6.0       | 9.2                    | 10.4            |
| <b>Climate Zone<sup>1</sup></b>                           |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 2,000 CDD and Over 5,500 HDD                        | Q                    | Q             | Q                 | Q                      | Q                       | Q             | Q         | Q                      | NF              |
| Under 5,500 HDD and 2,000 CDD or More and Under 4,000 HDD | 6.7                  | 9.2           | 8.8               | 5.2                    | .5                      | 5.6           | 6.1       | 8.3                    | 13.4            |
|   | Q                    | 7.4           | 7.1               | 4.2                    | .2                      | 7.3           | 8.0       | 14.2                   | 18.4            |
| <b>Type of Housing Unit</b>                               |                      |               |                   |                        |                         |               |           |                        |                 |
| Single-Family   | 4.8                  | 10.5          | 10.1              | 5.9                    | .6                      | 5.3           | 5.8       | 9.3                    | 13.7            |
| Mobile Home   | .3                   | 7.1           | 6.9               | 3.7                    | Q                       | Q             | Q         | Q                      | 36.3            |
| Multifamily (2 or more units)                             | 2.0                  | 5.8           | 5.6               | 3.3                    | Q                       | Q             | Q         | Q                      | 11.7            |
| <b>Heated Floorspace (square feet)</b>                    |                      |               |                   |                        |                         |               |           |                        |                 |
| Fewer than 1,000  | 2.8                  | 6.3           | 6.1               | 3.5                    | .6                      | 5.6           | 6.1       | 9.5                    | 10.1            |
| 1,000 to 1,999  | 3.3                  | 9.7           | 9.3               | 5.4                    | Q                       | Q             | Q         | Q                      | 13.2            |
| 2,000 or More   | 1.1                  | 13.6          | 13.1              | 8.1                    | Q                       | Q             | Q         | Q                      | 25.6            |
| <b>Ownership of Unit</b>                                  |                      |               |                   |                        |                         |               |           |                        |                 |
| Owned   | 4.2                  | 10.1          | 9.7               | 5.7                    | .5                      | 4.5           | 4.9       | 7.7                    | 12.7            |
| Rented  | 3.0                  | 7.5           | 7.3               | 4.3                    | .3                      | 7.0           | 7.6       | 1.15                   | 16.8            |
| <b>Year of Construction</b>                               |                      |               |                   |                        |                         |               |           |                        |                 |
| 1949 or Before  | 2.0                  | 6.6           | 6.4               | 3.7                    | .1                      | 9.9           | 10.8      | 1.69                   | 15.2            |
| 1950 to 1979  | 3.9                  | 10.0          | 9.6               | 5.7                    | .6                      | 4.4           | 4.8       | 7.4                    | 10.9            |
| 1980 or After <sup>2</sup>                                | 1.2                  | 9.8           | 9.5               | 5.5                    | Q                       | Q             | Q         | Q                      | 39.8            |
| <b>1990 Family Income</b>                                 |                      |               |                   |                        |                         |               |           |                        |                 |
| Less than \$10,000  | .8                   | 5.5           | 5.4               | 3.1                    | .3                      | 3.7           | 4.1       | 6.0                    | 24.0            |
| \$10,000 to \$19,999                                      | 1.5                  | 7.2           | 6.9               | 4.0                    | Q                       | Q             | Q         | Q                      | 14.8            |
| \$20,000 to \$34,999                                      | 1.6                  | 8.7           | 8.4               | 5.0                    | .1                      | 12.3          | 13.4      | 2.09                   | 18.0            |
| \$35,000 or More  | 3.2                  | 10.9          | 10.5              | 6.2                    | .2                      | 3.8           | 4.1       | 7.1                    | 13.9            |
| <b>Below Poverty Line</b>                                 |                      |               |                   |                        |                         |               |           |                        |                 |
| 100 Percent   | .8                   | 6.9           | 6.6               | 4.0                    | .3                      | 4.2           | 4.6       | 6.4                    | 21.3            |
| 125 Percent   | 1.2                  | 7.0           | 6.8               | 4.1                    | .4                      | 4.1           | 4.5       | 6.4                    | 17.8            |
| <b>Age of Householder</b>                                 |                      |               |                   |                        |                         |               |           |                        |                 |
| Under 35 Years  | 2.5                  | 9.4           | 9.1               | 5.3                    | Q                       | Q             | Q         | Q                      | 14.2            |
| 35 to 59 Years  | 3.1                  | 9.4           | 9.1               | 5.4                    | .4                      | 6.0           | 6.6       | 1.03                   | 14.6            |
| 60 Years and Over   | 1.5                  | 7.4           | 7.1               | 4.0                    | .3                      | 3.6           | 4.0       | 5.8                    | 16.9            |
| <b>Household Size</b>                                     |                      |               |                   |                        |                         |               |           |                        |                 |
| 1 Person  | 1.6                  | 4.8           | 4.7               | 2.7                    | .3                      | 5.3           | 5.8       | 8.4                    | 16.7            |
| 2 to 4 Persons  | 4.5                  | 9.4           | 9.1               | 5.3                    | .4                      | 4.9           | 5.4       | 8.1                    | 12.6            |
| 5 or More Persons   | 1.1                  | 13.3          | 12.8              | 7.8                    | .1                      | 8.1           | 8.9       | 1.55                   | 24.7            |

<sup>1</sup> Climate zones are based on annual degree-days that are averaged over 30 years from 1951 to 1980.

<sup>2</sup> Does not include all new construction for 1990.

NC = No cases in sample.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

NF = No applicable RSE row/column factor.

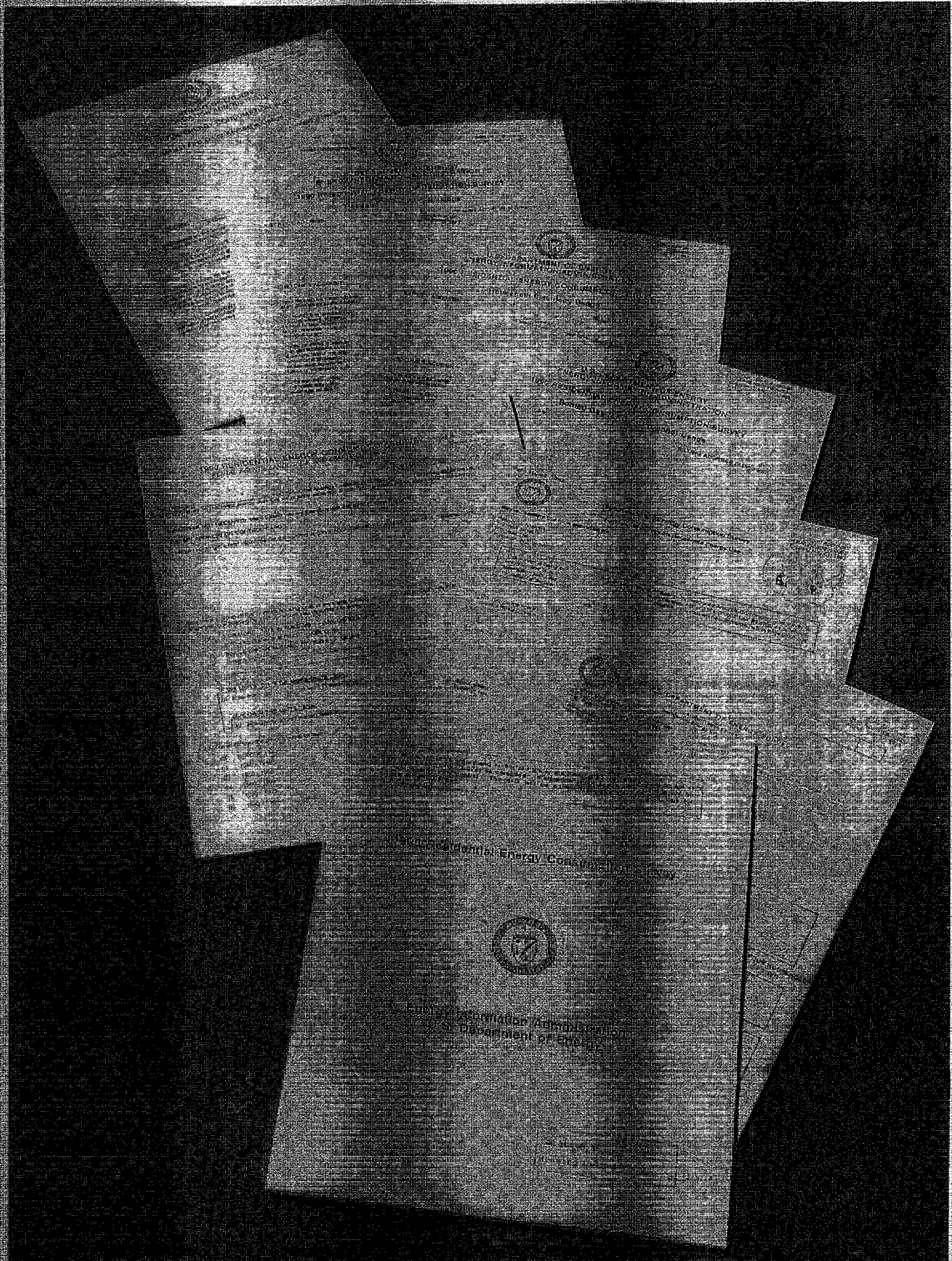
Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" in *Household Energy Consumption and Expenditures 1990* for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and F of the 1990 Residential Energy Consumption Survey (for specific titles of forms, see Appendix A).



# Appendix A

## Survey Forms Titles



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## Appendix A

# Survey Forms Titles

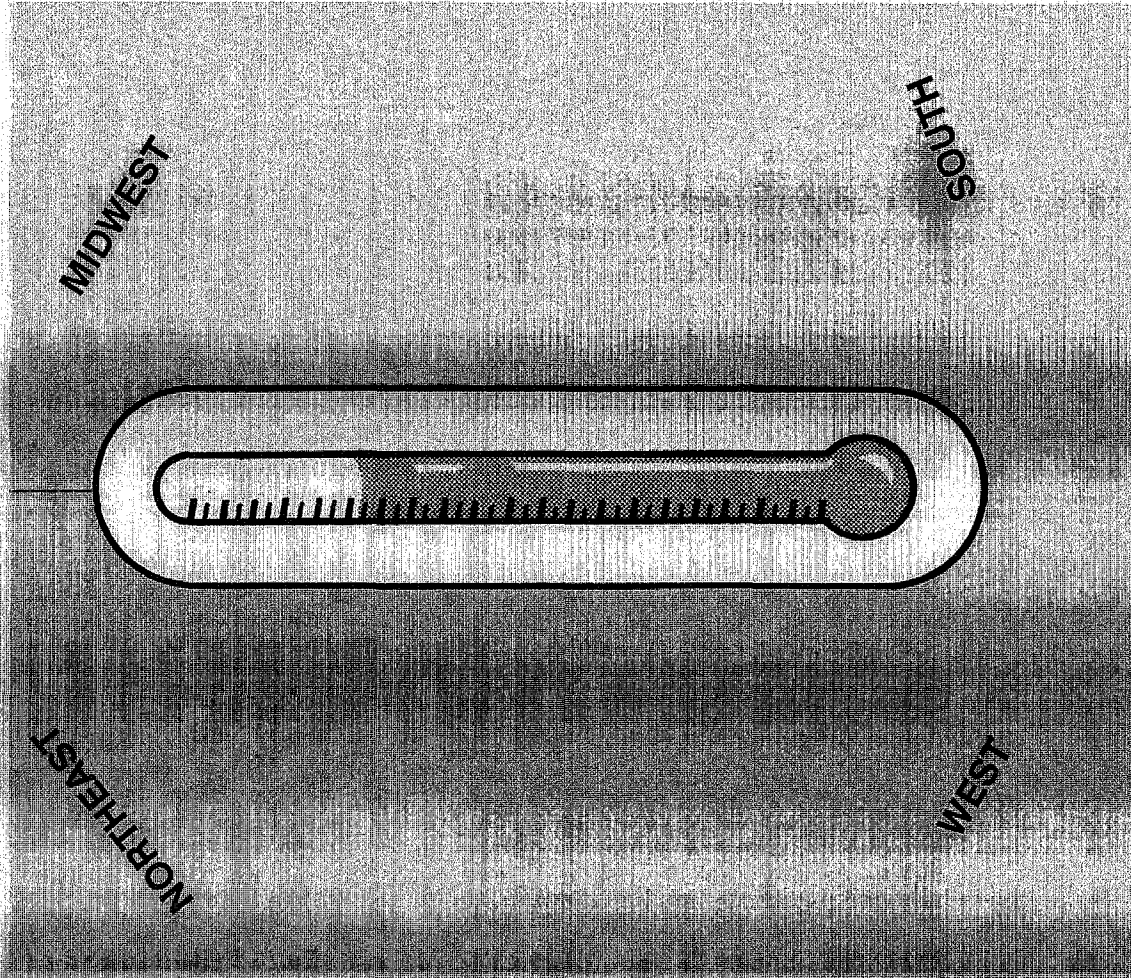
Forms EIA-457A through G were used to produce this report. This appendix contains only the titles of these data collection forms used in the 1990 Residential Energy Consumption Survey (RECS). Copies of these actual forms are in Appendix E of the companion report, *Household Energy Consumption and Expenditures 1990*. (The original color of each form is also indicated below.)

- EIA-457A 1990 Residential Energy Consumption Survey Household Questionnaire - white  
(includes the yellow Authorization Form and a blue vehicle data form).
- EIA-457B Nationwide Survey on Household Energy Use (Mail) - white.
- EIA-457C Rental Agents, Landlords, and Apartment Managers form - white.
- EIA-457D Household Bottled Gas (LPG or Propane) Usage - blue.
- EIA-457E Household Electricity Usage - yellow.
- EIA-457F Household Natural Gas Usage - pink.
- EIA-457G Household Fuel Oil or Kerosene Usage - green.



## Appendix B

### U.S. Climate Zone and Census Regions and Divisions Maps



1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that this is crucial for ensuring transparency and accountability in the organization's operations.

2. The second part of the document outlines the various methods and tools used to collect and analyze data. It highlights the need for a systematic approach to data collection and the importance of using reliable sources of information.

3. The third part of the document focuses on the analysis of the collected data. It discusses the various techniques used to identify trends, patterns, and anomalies in the data, and how these insights can be used to inform decision-making.

4. The fourth part of the document discusses the importance of communication and reporting. It emphasizes that the results of the data analysis must be clearly and effectively communicated to the relevant stakeholders in order to ensure that they can take appropriate action.

5. The fifth part of the document discusses the importance of ongoing monitoring and evaluation. It emphasizes that the data analysis process is not a one-time activity, but rather a continuous process that must be repeated regularly to ensure that the organization remains up-to-date on its performance.

6. The sixth part of the document discusses the importance of data security and privacy. It emphasizes that the organization must take appropriate measures to protect the confidentiality and integrity of the data it collects and analyzes, and that it must comply with all applicable laws and regulations.

7. The seventh part of the document discusses the importance of data quality. It emphasizes that the accuracy and reliability of the data are critical to the success of the data analysis process, and that the organization must take steps to ensure that the data it collects is of high quality.

8. The eighth part of the document discusses the importance of data integration. It emphasizes that the organization must ensure that the data it collects from different sources is integrated and analyzed in a consistent and coherent manner, in order to provide a comprehensive view of its performance.

9. The ninth part of the document discusses the importance of data visualization. It emphasizes that the use of charts, graphs, and other visual tools can help to make the data more accessible and understandable, and that this is essential for effective communication and reporting.

10. The tenth part of the document discusses the importance of data-driven decision-making. It emphasizes that the organization must use the insights gained from the data analysis process to inform its strategic and operational decisions, and that this is essential for achieving long-term success.

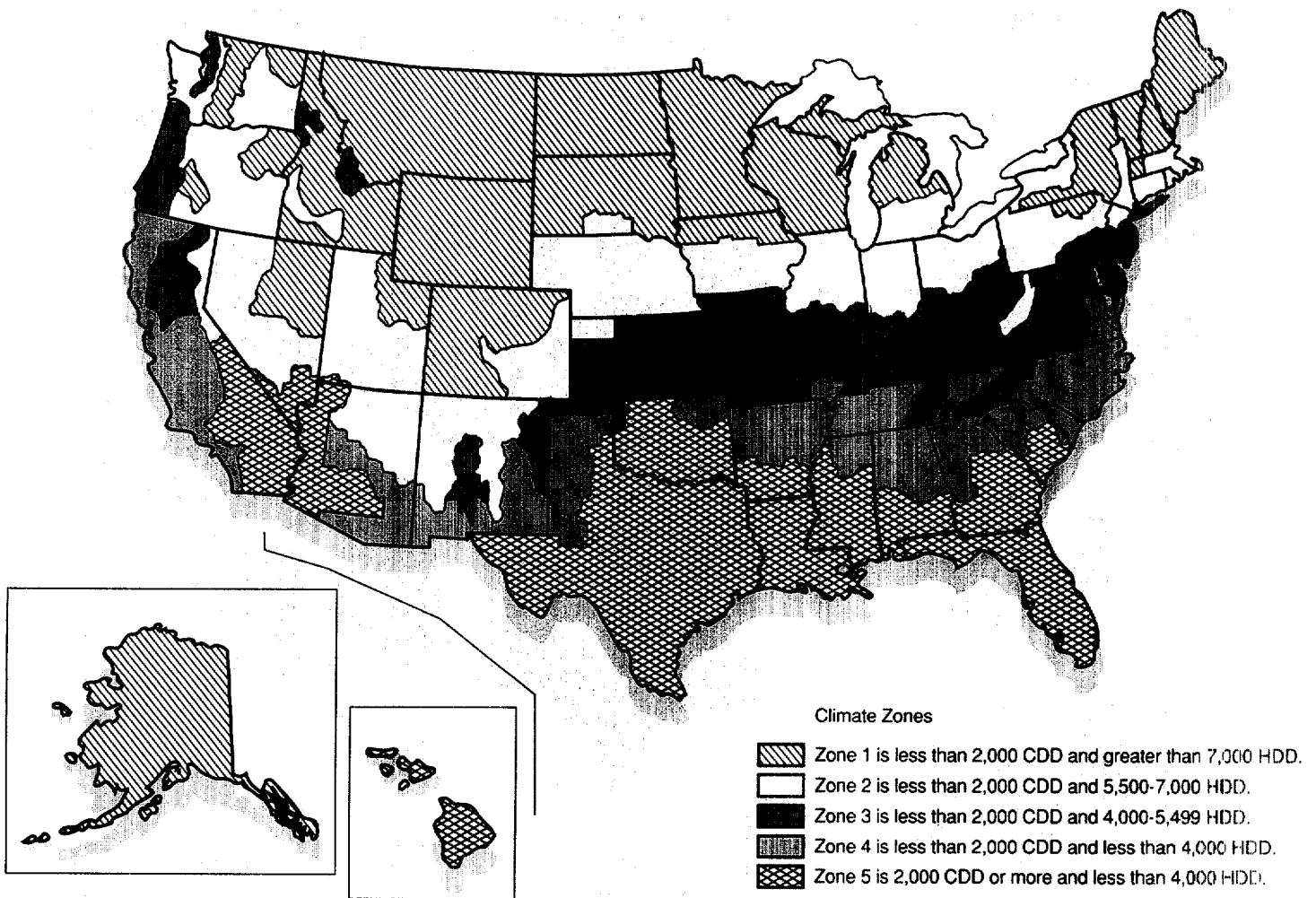
## Appendix B

# U.S. Climate Zone and Census Regions and Divisions Maps

As indicated below, the 50 States and the District of Columbia are grouped into four regions and nine divisions.

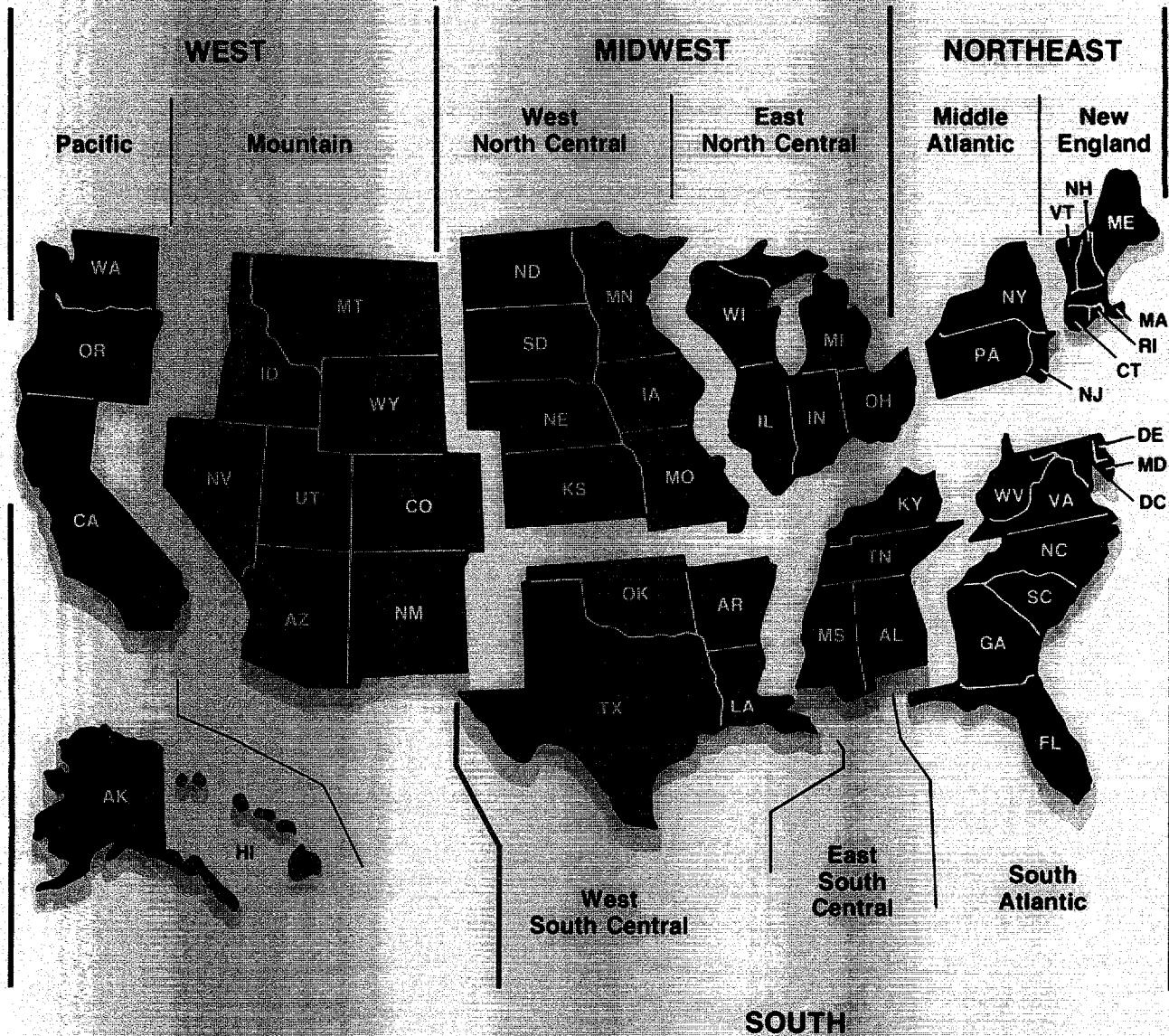
| <b>Region</b>    | <b>Division</b>    | <b>States</b>  |
|------------------|--------------------|--|
| <b>Northeast</b> | New England        | Connecticut, Maine, Massachusetts,<br>New Hampshire, Vermont, and Rhode Island   |
|                  | Middle Atlantic    | New Jersey, New York, and Pennsylvania   |
|                  | East North Central | Illinois, Indiana, Michigan,<br>Ohio, and Wisconsin  |
| <b>Midwest</b>   | West North Central | Iowa, Kansas, Minnesota, Missouri,<br>Nebraska, North Dakota, and South Dakota   |
|                  | South Atlantic     | Delaware, the District of Columbia,<br>Florida, Georgia, Maryland, North<br>Carolina, South Carolina, Virginia,<br>and West Virginia |
| <b>South</b>     | East South Central | Alabama, Kentucky, Mississippi,<br>and Tennessee   |
|                  | West South Central | Arkansas, Louisiana, Oklahoma,<br>and Texas  |
| <b>West</b>      | Mountain           | Arizona, Colorado, Idaho, Montana,<br>Nevada, New Mexico, Utah, and Wyoming  |
|                  | Pacific            | Alaska, California, Hawaii, Oregon,<br>and Washington  |

# U.S. Climate Zone Map



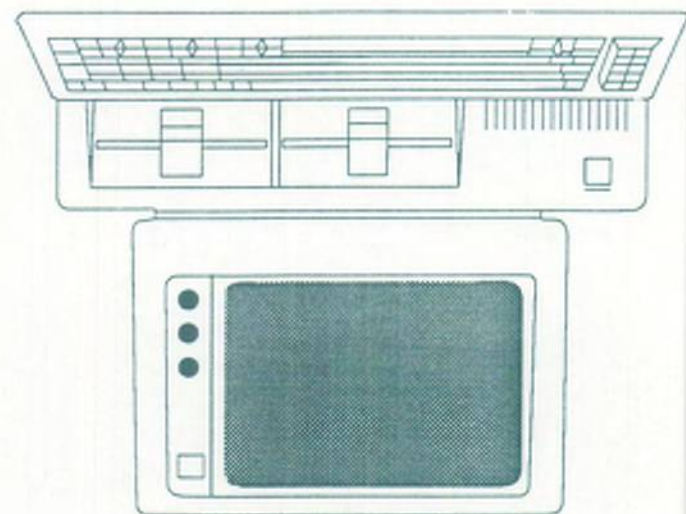


# U.S. Census Regions and Divisions



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●Flat ASCII format

●Contains a READ.ME DOS text file

The Residential Energy Consumption Survey (RECS) diskette contains the data published in Tables 1 through 106 of the *Household Energy Consumption and Expenditures 1990 Supplement: Regional report*. The diskette contains data at the regional level and has one file for each table. In addition, the public use data from the 1990 RECS will be available on diskette. For ordering information contact:

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