



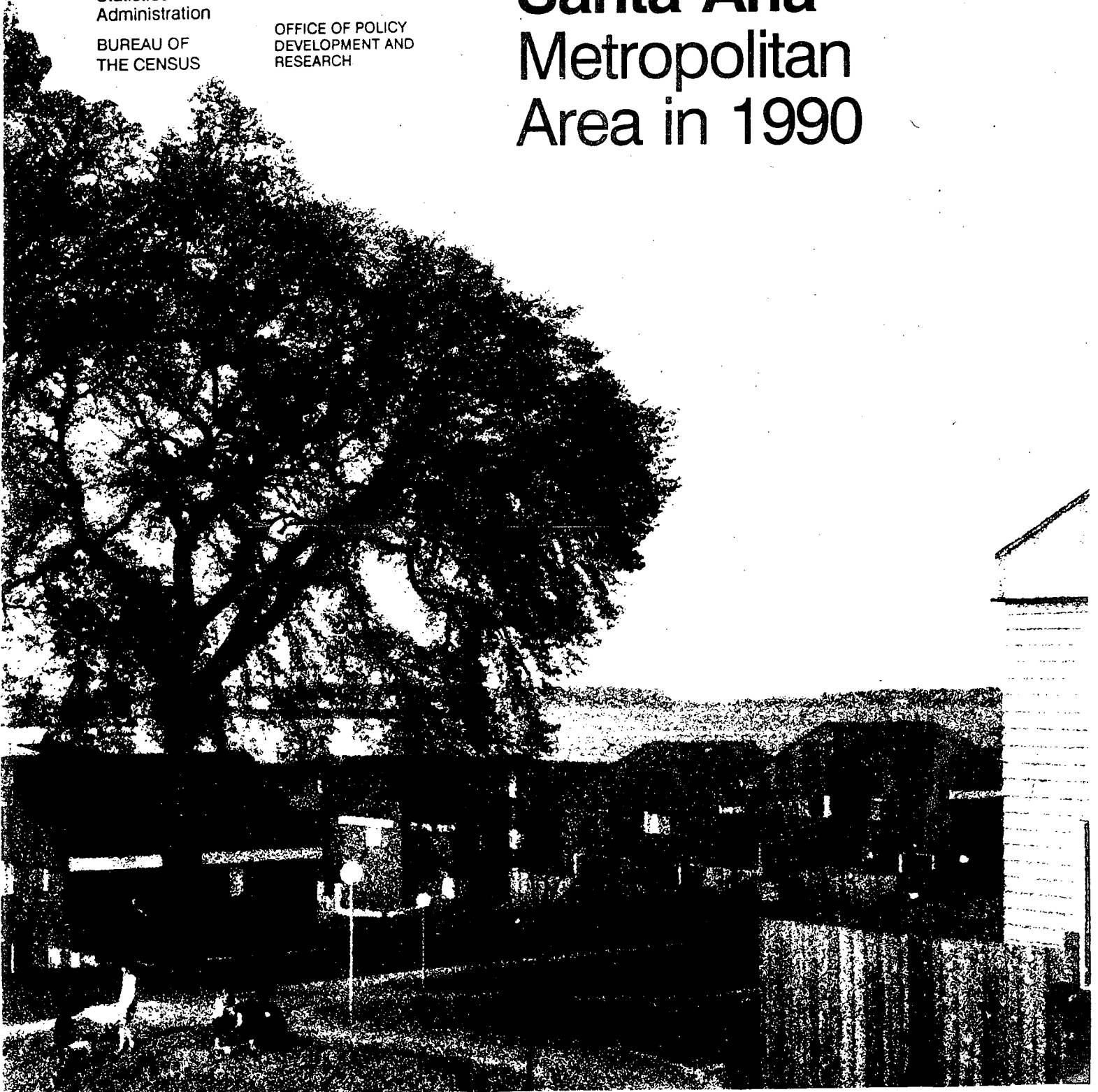
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DEVELOPMENT AND  
RESEARCH

# American Housing Survey for the Anaheim- Santa Ana Metropolitan Area in 1990



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**Duane T. McGough**, assisted by **Paul Burke**, **Connie Casey**, and **Iredia Irby**, was responsible for overseeing the American Housing Survey resultant report on behalf of the Department of Housing and Urban Development.

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# American Housing Survey for the Anaheim-Santa Ana Metropolitan Area in 1990

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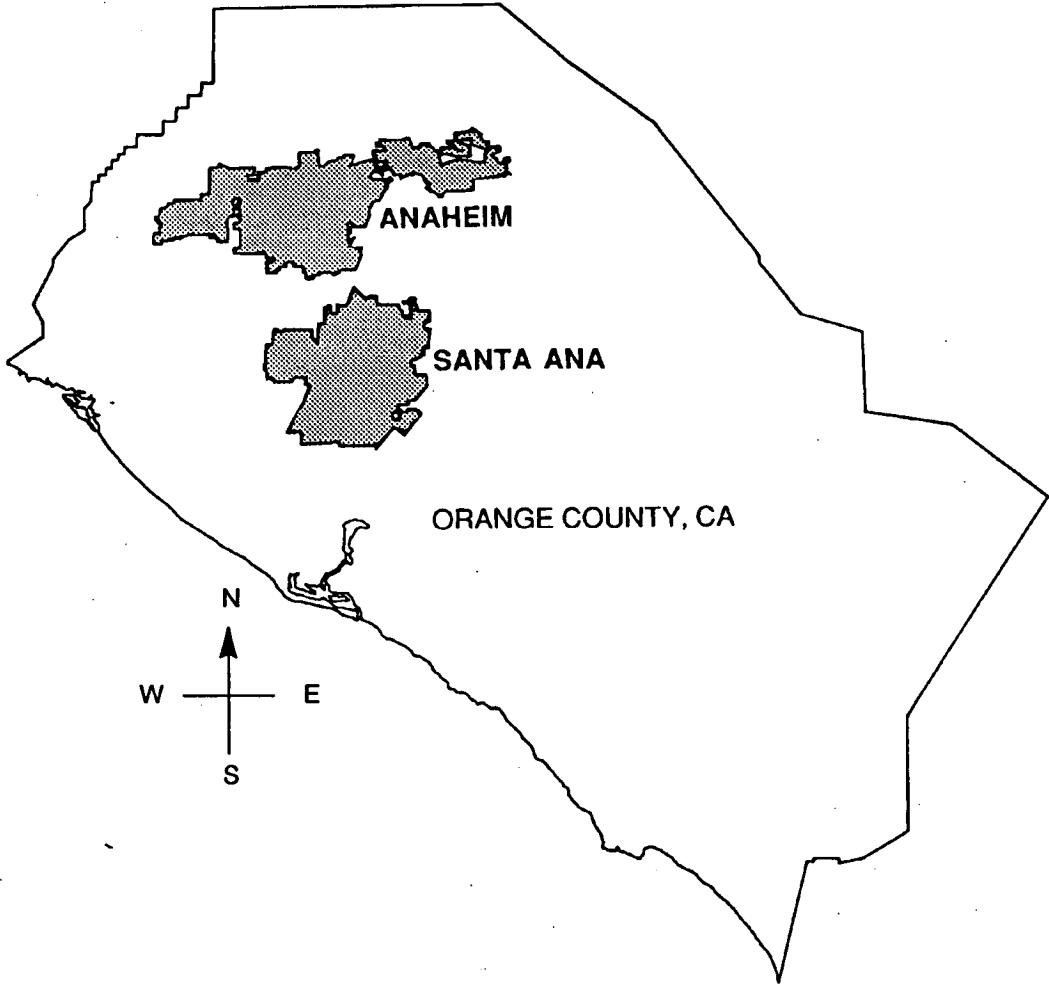
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**Inside back  
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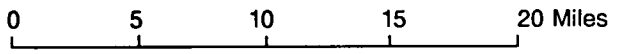
# Primary Metropolitan Statistical Area

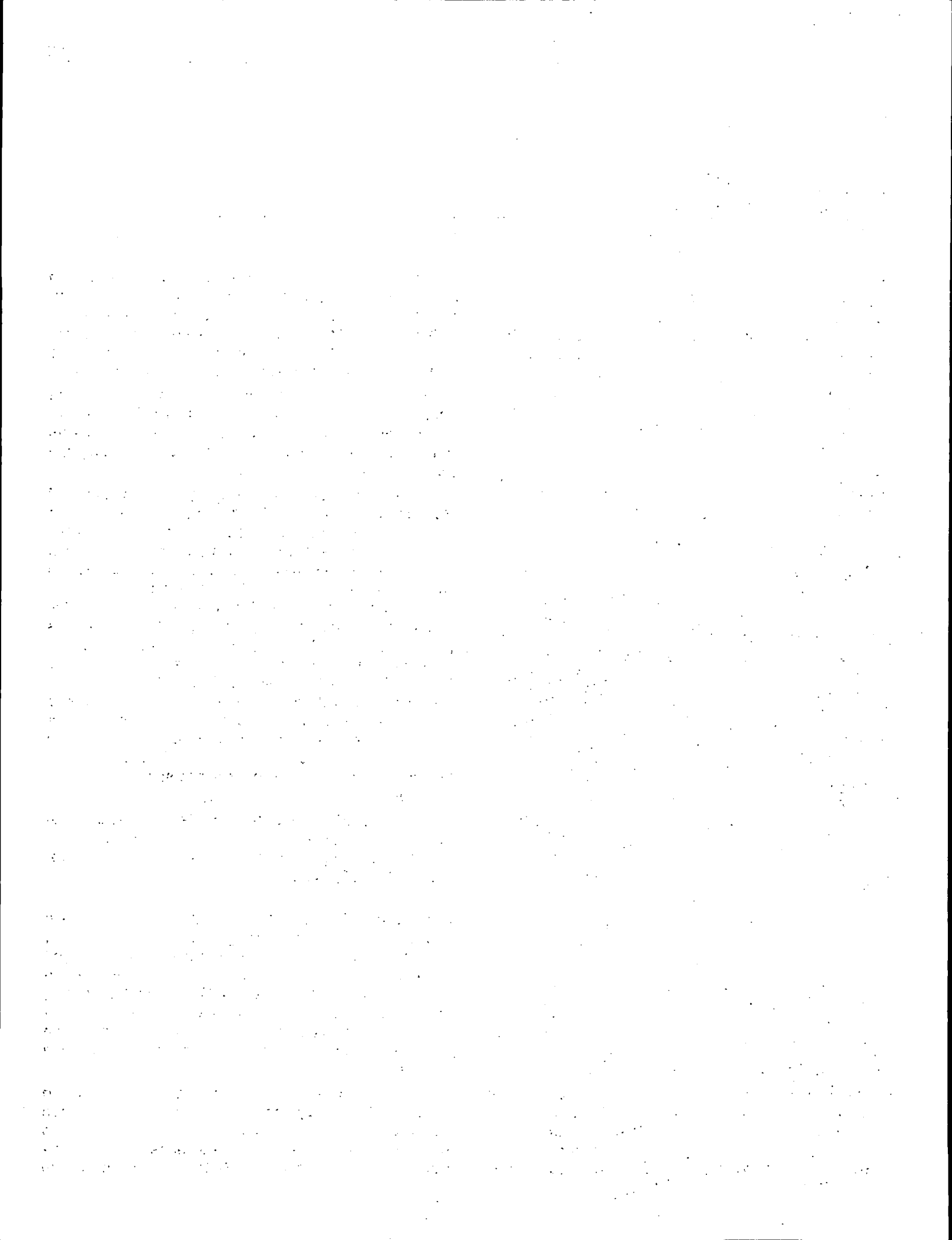


## Anaheim-Santa Ana, CA



 Central Cities of this PMSA  
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## GENERAL

This report presents statistics on housing and household characteristics from the 1990 American Housing Survey Metropolitan Sample (AHS-MS), conducted in 11 selected metropolitan areas. For a list of these areas, see page XIV. Prior to the 1984 redesign, the AHS was called the Annual Housing Survey. The name was changed to the American Housing Survey since the National Sample (AHS-N) is no longer conducted annually but every other year in odd-numbered years. The AHS was designed to provide a current series of information on the size and composition of the housing inventory, the characteristics of its occupants, indicators of housing and neighborhood quality, and the characteristics of recent movers. The survey, performed for the Department of Housing and

Urban Development, is authorized under sections 501 and 502 (d), 502 (e), and 502 (f) of the Housing and Urban Development Act of 1970, Title 12, United States Code 1701z-1 and 1701z-2. The Bureau of the Census is authorized under Title 31, United States Code, Section 686, to perform special work or services for Federal agencies.

The statistics presented in this report are based on information from a sample of housing units. The information for the 1990 AHS-MS was collected by interviewers from June 1990 through November 1990. (See paragraph "Sample size.")

These reports are issued jointly by the Department of Housing and Urban Development and the Bureau of the Census for each of the 11 metropolitan areas in the 1990 survey. The content and procedures of the American Housing Survey were determined after consultation with a variety of users of housing data and through field pretesting. The data for many of the subjects covered in this report are the same as those collected in the 1980 Census of Housing, the 1973 through 1983 Annual Housing Surveys, and the 1984 through 1989 American Housing Surveys. The data for a few items may not be comparable because of definitional changes in 1984 and beyond (redesigned AHS). See the section titled "Qualifications of the Data." A number of new items were introduced in the redesigned AHS on subjects such as household income, type of primary mortgage, lot size, and square footage of the housing unit.

More detailed information on the technical and procedural matters covered in the text of the report can be obtained by writing to the Director, Bureau of the Census, Washington, DC 20233.

**Sample size.** The statistics presented in this report are based on a sample of housing units and are, therefore, subject to sampling variability. One sample size was employed in the 1990 survey. All 11 metropolitan areas were represented by a sample of about 4,000 designated housing units. The sample size is divided between the central city or cities and the balance of the respective area based on the proportionate distribution of all housing units in the entire area.

The sample was selected from units enumerated in the 1970 census and updated to include units constructed since 1970. In addition, sample cases were selected from the 1980 census to represent areas added to the metropolitan boundaries since 1973. Detailed information on the

sample design, size of sample, estimation procedure, and sampling variability associated with these data is given in appendix B.

**Organization of the text.** The text consists of this introduction and appendixes A and B, which appear after the data tables. Appendix A describes the geographic area classifications, provides definitions and explanations of the subjects covered in this report, and contains a facsimile of the questionnaire and control card. Appendix B presents information on sample design, estimation, and accuracy of the data.

**Contents of the tables.** The tables in this report are organized into six chapters. Chapter 1 presents statistics on the total housing inventory, including vacant units. Beginning in 1990, the total housing unit data in chapter 1 are not shown when components of that total are suppressed. Chapter 2 presents statistics on total occupied housing units; chapter 3, statistics on owner-occupied housing units; chapter 4, statistics on renter-occupied housing units; chapter 5, statistics on occupied housing units with a Black householder; and chapter 6, statistics on occupied housing units with a householder of Hispanic origin. In chapters 2 through 6, separate data are shown for three selected subareas of each metropolitan area as indicated in the boxhead for each table. For a list of the selected subareas in each metropolitan area, see the inside back cover of this report.

In chapter 1, table 1 presents general housing characteristics; tables 2 and 6, condition and quality of the unit and the neighborhood; table 3, size of the unit and lot; tables 4 and 5, equipment and fuels; and table 7, financial characteristics. In chapters 2 through 6, table 1 presents general housing characteristics; tables 2, 7, and 8, condition and quality of the unit and the neighborhood; tables 3, 17, and 18, size of the unit and lot; tables 4 through 6, equipment and fuels; table 9, household composition; tables 10 and 11, recent movers; and tables 12 through 16 and 19 through 22, financial characteristics. All tables are not shown in all six chapters when the universes are restricted. For example, tables 14 through 16 are not shown in the renter-occupied chapter (chapter 4) as these tables are restricted to owner-occupied units.

Tables 20 through 22 are cross-tabulations of financial characteristics by a variety of other characteristics.

Table 20 cross tabulates income of families and primary individuals by selected housing and household characteristics. Table 21 cross tabulates monthly housing costs by most of the same characteristics as shown in table 20. Table 22 cross tabulates value by similar characteristics.

All of the financial characteristics shown in this report, except those in table 19, are shown for all renters and/or all owners. Prior to the redesigned AHS, the Annual Housing Survey reported characteristics such as value and rent for specified owners and specified renters only. Specified owners are single-family, owner-occupied units on

less than 10 acres with no business or medical office. Specified renters exclude single-family units on 10 acres or more. Table 19 in this report presents financial characteristics for specified owners and specified renters. This table can be used when making comparisons with 1983 and earlier years.

**Derived figures (medians, rates, etc.).** Shown in this report are percents, medians, ratios, and rates. The median, which is a type of average, is the middle value in a distribution; i.e., the median divides the distribution into two equal parts—one-half of the cases fall below the median and one-half of the cases exceed the median. Derived figures are not presented, but indicated by three dots (...) if there are less than 25 sample cases in the distribution or the base.

The medians shown in this report are based on unrounded data and may differ from medians calculated from the published rounded data. All medians are rounded. The method of rounding depends on the characteristic being measured. For the method of rounding with each specific median, see the definitions in appendix A for the specific characteristic being measured.

The rental vacancy rates shown in chapter 1 are computed by dividing the total vacant-for-rent units with a given characteristic by the total rental inventory with the same characteristic. The total rental inventory consists of the renter-occupied units, vacant units rented but not yet occupied at the time of interview, and the vacant units for rent.

Poverty level as used in the American Housing Survey is based on household income rather than the income of families, unrelated subfamilies, and unrelated individuals separately as is the case in officially published poverty statistics. See the "Qualifications of the Data" section of this introduction.

Shown in chapters 2 through 6 are data for units with severe or moderate problems. Units with severe problems include those units with severe problems in one or more of the following: plumbing facilities, heating equipment, electricity, upkeep, and hallways. Units with moderate problems include those units with moderate problems in one or more of the following: plumbing facilities, heating equipment, upkeep, hallways, and kitchens. A unit with one or more severe problems is counted as such whether or not it has a moderate problem and is not counted with units having moderate problems even if one exists. For a detailed description of how moderate and severe problems are derived, see appendix A, page A-14.

**Symbols.** A dash (-) signifies zero or a number that rounds to zero. Three dots (...) in a data column mean not applicable or that the base for a derived figure is too small for it to be shown. The symbol "NA" means not available.

**Boundaries.** The data shown in this report series relate to metropolitan areas as defined by the Office of Management and Budget (OMB) in 1983. The counties included in

each AHS area definition are identical to those included in the official OMB definition. In many AHS areas, however, the data presented for central cities do not always include the identical central cities as the official OMB definition. For comparison purposes in this series, selected data are shown using 1970 boundaries, that may differ from 1983 boundaries. In this report, data for "1970 central cities" refer to Anaheim, Santa Ana, and Garden Grove cities and for "1983 central cities" refer to Anaheim and Santa Ana cities. Data for "1970 boundaries of SMSA" refer to the same county as in 1983. (See map on page V for 1983 definitions.)

**Reports from the American Housing Survey.** The AHS-MS survey is conducted in 44 selected metropolitan areas divided into 4 groups of approximately 11 each, with a group to be interviewed once every 4 years on a rotating basis. The 1990 survey is the second recent visit to the group of 11 metropolitan areas initially visited in 1986. A listing of these areas by the year of interview can be found on page XIV. Reports from the AHS-MS are published under series H170. Any supplemental metropolitan reports are published under Series H171.

Reports from the AHS-N are published under series H150. Any supplemental national reports are published under series H151. Data for the national reports are collected every other year in odd-numbered years from a sample of housing units that is independent of the metropolitan reports. AHS-N reports present data for the United States, inside and outside MSA's, urban and rural, and the four census regions. The first AHS national was conducted from August to December 1973. The national report is similar in format to the metropolitan reports.

**SMSA reports from the Annual Housing Survey.** From 1974 through 1983, the AHS SMSA surveys were conducted in 60 selected SMSA's originally divided into groups of 20 each, with a group to be interviewed once every 3 years on a rotating basis. A listing of the SMSA's by the original three groups can be found on page XIV. The years for which reports are available for individual SMSA's are provided on this listing.

## ADDITIONAL DATA

**Public-use microdata files.** For the data user whose needs are not met by the available tabulations, the Census Bureau also has made available computerized microdata (individual respondent records) from both the metropolitan and national samples. Except for names and addresses, the AHS microdata provide essentially all the information obtained from each household or vacant unit. The Census Bureau's confidentiality guidelines prescribe that individuals and specific addresses remain anonymous.

Confidentiality guidelines further prescribe that individual records cannot be associated with areas having fewer than 100,000 people based on 1980 census results. The

redesigned metropolitan file identifies nearly all central cities, counties, and zones (selected groups of census tracts) that have a 1980 population of 100,000 or more persons. The 1989 national file identifies the four census geographic regions, urban/rural residence, and metropolitan/nonmetropolitan residence as well as all central cities and urbanized areas in the sample that satisfy the 100,000 population confidentiality requirement. Prior to redesign, AHS public-use microdata files only identified geographic areas that had a 1970 census population of 250,000 persons.

Microdata computer tapes from the AHS are available on a cost-per-reel basis from Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, DC 20233.

**Microfiche of published reports.** Microfiche copies for national and MSA published reports are available from Data User Services Division, Customer Services (Microfiche), Bureau of the Census, Washington, DC 20233.

## DATA COLLECTION PROCEDURES

The redesigned American Housing Survey was conducted by interviewers who obtained the information from the occupants or, if the unit was vacant, from informed persons such as landlords, rental agents, or knowledgeable neighbors. The information reported by the interviewer reflected the situation at the time of the survey, which was conducted in June 1990 through November 1990.

Data were collected for sample housing units located in the counties and independent cities that make up the 11 MSA's surveyed for the 1990 AHS. A sample of housing units was selected in these areas from the 1970 census. This sample was updated by a sample of addresses from building permits to include housing units added since 1970 and a sample of addresses from the 1980 census to represent counties added to the metropolitan area definitions as of 1983. Estimates of the counts and characteristics of the inventory were obtained for these sample units. A more detailed description of the survey design and sampling procedures can be found in appendix B.

## PROCESSING PROCEDURES

The questionnaire and control card used for the AHS-MS redesign were the conventional type on which the interviewer recorded the information by marking precoded check boxes or by writing in the entries. Census clerks edited and coded the documents. The information was then data keyed directly to magnetic tape, which was processed on the Census Bureau's computers through a number of editing and tabulating steps. A facsimile of both the control card and the questionnaire appears at the end of appendix A.

## QUALIFICATIONS OF THE DATA

Since the estimates in this report are based on a sample, they may differ somewhat from the figures that would have been obtained from a complete census using the same questionnaire, instructions, and interviewers. Particular care should be exercised, therefore, in the interpretation of figures based on relatively small numbers of cases as well as small differences between figures. As in any survey work, the results are subject to errors of response and nonreporting and to sampling variability. For a further discussion of the accuracy of the data, see appendix B.

Because of the differences in the method for weighting the sample, the weighted totals for a few items will be different. These are: "Stories in structure"; "External building conditions"; "Description of area within 300 feet"; "Age of other residential buildings within 300 feet"; "Mobile homes in group"; "Other buildings vandalized or with interior exposed"; "Bars on windows of buildings"; "Condition of streets"; and "Trash, litter, or junk on streets or any properties." These items use only weighted metropolitan cases. Other items use a combined metropolitan/national weighted sample. See appendix B for a complete description of combined weighting. In certain metropolitan areas the item "Statistical Areas" also showed small differences because of the weighting used.

In all metropolitan areas, significant numbers of households who reported incomes below poverty also reported housing costs that were 70 percent or more of their income. A review of individual records indicates that many of these households actually reported housing costs higher than their income. Such a situation can indeed happen temporarily as people use their savings or build up debt. It can also happen when people whose actual income is above poverty underreport their income because they either consider the question too personal or have some other reason. We do know that AHS income is underreported. Also, the Consumer Expenditures Survey shows that nationwide less than 10 percent of the poor devote over 70 percent of their total expenditures to housing. Therefore, the AHS data for poverty households with housing costs 70 percent or more of their income should be analyzed with caution.

Research indicates that the AHS slightly underreports income when compared with the Current Population Survey (CPS). This may cause some overreporting of poverty by the AHS in some metropolitan areas. The official poverty estimates are obtained from the CPS. In addition, there is some evidence that the underreporting of income may be more significant in elderly households (householder 65 years of age and over). We wish to remind analysts that poverty data are published in the AHS not as an official count of households in poverty but to show the housing characteristics of low-income households. For

further discussions of income and poverty, see the introduction of the *American Housing Survey of the United States in 1989*, Series H150 report.

**Comparison with the 1986 American Housing Survey Metropolitan Sample.** The concepts, definitions, data collection, and processing procedures are essentially the same for both the 1986 and 1990 American Housing Survey Metropolitan Samples.

The estimate of housing units for this metropolitan area in 1990 is consistent with the 1990 census count. The count of the housing units for this metropolitan area from the 1990 census suggests that the count of housing units (822,100) shown in the 1986 Anaheim-Santa Ana, CA, report is too high; a 1986 count that is consistent with the 1990 census would be 815,600 housing units.

The States of California, Connecticut, New Jersey, New York, and Massachusetts, as well as the District of Columbia, are the only States that have metropolitan areas with rent control. As a result, only 3 of the 11 metropolitan areas in 1989 show an estimate of rent control units. These include Anaheim-Santa Ana, CA; Riverside-San Bernardino-Ontario, CA; and Rochester, NY. If a respondent answered "yes" to rent control in the remaining eight metropolitan areas, the answer was edited to "no."

For the items "Amount of savings and investments" and "Food stamps," data are restricted to families and primary individuals with incomes of \$25,000 or less per year. In 1986, data were restricted to families and primary individuals with incomes of \$20,000 or less per year.

Two new items were introduced in the 1990 AHS. The first item is "Time sharing." This item is restricted to vacant housing units, including units with usual residence elsewhere (URE's). For a detailed definition of "Time sharing," see appendix A, page A-7. The second item is "Median monthly housing costs for owners." Two medians are shown separately. The first median in the new item includes maintenance costs in addition to those items included in the item "Monthly housing costs." The second median excludes second and subsequent housing mortgages, installment loans or contracts, and maintenance costs but includes all remaining items listed in "Monthly housing costs." For detailed definitions of "Monthly housing costs" and "Median monthly housing costs for owners," see appendix A, page A-20.

Beginning in 1990, the monthly housing costs questionnaire items for renters were revised to improve the reporting of actual rental costs. Before 1990, the questionnaire reflected the total amount reportedly paid for monthly rental costs. These amounts may have included the partially subsidized amount provided by the public housing authority, the Federal government, or State and local governments. The current questionnaire identifies those rental units that are subsidized and allows households to report only the costs they actually paid. The new procedures in 1990 produce lower and more accurate estimates.

Beginning in 1989, two new procedures were introduced that attempt to correct the overreporting of electricity and gas costs in the AHS. Previously, respondents were only asked to provide an estimate of average monthly costs. The new procedures produce lower and more accurate estimates. For a detailed definition of "Monthly costs of electricity and gas," see appendix A, page A-19.

*Changes in two items relating to income.* Two items in 1990 have replaced similar items that were published in 1986. They are "Monthly housing costs as percent of current income" and "Ratio of value to current income." For income, these new items use "Current income"; in 1986, the items "Value-income ratio" and "Monthly housing costs as percent of income" used the "Income of families and primary individuals in the last 12 months." See appendix A for a complete definition of "Current income," and "Ratio of value to current income." We recommend caution when comparing prior years' data with 1990 because of differences in the definitions. For further discussion of "Monthly housing costs as a percent of current income" see the introduction of the *American Housing Survey of the United States in 1989*, series H150/89 report.

*Severe and moderate problems.* The data concerning units with severe and moderate problems in 1990 are not entirely comparable with similar data published in 1986. See the paragraphs on "Plumbing facilities" under the section "Comparison with the 1974 through 1983 Annual Housing Surveys" in this introduction.

*Heating equipment.* Beginning in 1990, the heating equipment questions were revised to improve the reporting of electric heat pumps as a heating source. Previously, the questionnaire item dealing with the type of heating equipment underreported electric heat pumps. The respondents often answered yes to the first option of "a central warm-air furnace with air vents or ducts to the individual rooms" and did not proceed to the option of "electric heat pump." The questionnaire item was revised to determine if the central air system is actually a heat pump or another type of warm-air furnace.

**Comparison with the 1974 through 1983 Annual Housing Survey.** Most of the subjects in the 1990 and 1986 American Housing Survey Metropolitan Samples (AHSMS) are the same as those in pre-redesign (1974 through 1983) Annual Housing Survey metropolitan samples. Beginning with 1984, the AHS-MS was redesigned including the introduction of a new questionnaire. Most of the changes made in redesign were made to improve the quality of the data. As a result of these changes, however, several items in the redesigned AHS-MS are not comparable to similar data in 1974 through 1983. All comparisons made between 1990 (or 1986) and 1974 through 1983 should be made with caution. Listed below are major differences noted as a result of redesign. The list may not be all inclusive. Differences noted as of the time of this publication include:

*Inventory changes as a result of AHS redesign.* In the redesigned AHS-MS, vacant mobile homes are included in the inventory. Prior to redesign, such units were not counted. These units should not be considered when estimating inventory change between redesigned AHS-MS surveys and 1974 through 1983 AHS-MS surveys.

*Units in structure.* In the 1974 through 1983 AHS-MS, data on units in structure were based on the respondent's answer to one question, "How many living quarters, both occupied and vacant, are there in this house (building)?" In the redesigned AHS-MS, data on units in structure were based on the respondent's answers to a series of questions (see items 20 through 23 on page 3 of the questionnaire in appendix A). The method of collecting units-in-structure data in the redesigned AHS-MS was revised as previous AHS experience has shown the concept to be difficult for the respondents. Respondents particularly had difficulty distinguishing between single-family attached and multiunit structures. As a result of this change, the estimated number of one-unit attached structures declined in some MSA's between 1990 (or 1986) and interview dates prior to 1984. It is estimated that the pre-redesign (1974 through 1983) AHS-MS, on average, overestimated the numbers of oneunit attached structures by approximately 25 percent. The level of overestimation may vary significantly between metropolitan areas. Units incorrectly classified as one-unit attached in previous survey years are, in redesign, correctly classified as being in multiunit structures.

*Rooms in units.* In the 1974 through 1983 AHS-MS, respondents answered a single question asking for a total count of rooms in a unit. The potential to miss specific rooms is high in a question of this type. In the redesigned AHS, respondents were asked for a count of each specific type of room. The answers to these questions are then added together in the tabulations to provide a total count of rooms. Far fewer rooms should be missed in this series of questions. Based on research done for the 1985 American Housing Survey National Sample (AHS-N), it is assumed that the 1974 through 1983 AHS-MS estimates of one- and two-room units are too high, resulting in low estimates for median number of rooms in many metropolitan areas.

*Plumbing facilities.* The data on plumbing facilities, which were suppressed in 1986, are shown in this report. The changes in the redesigned questionnaire that resulted in serious deficiencies in these data have been modified in 1990. In the 1974 through 1983 AHS-MS, respondents were asked a question on complete plumbing facilities that specified to the respondents the components necessary for complete plumbing (i.e., hot and cold piped water, a flush toilet, and a bathtub or shower). The question further ensured that these facilities were only for the use of

occupants of the unit in which they were located (exclusive use). In those units with complete plumbing, an additional question was asked as to how many bathrooms there were.

In the 1986 AHS, respondents were first asked how many bathrooms they had. If they answer one or more bathrooms, questions on plumbing facilities were not asked; the unit was assumed to have complete plumbing facilities for exclusive use. Although the redesigned definition of a bathroom required hot and cold piped water, a sink, a flush toilet, and a bathtub or shower, this definition was not read to the respondent as it was before redesign. Also, nothing in the question requires the bathroom to be only for the use of the occupants of the sample unit (exclusive use). We believe that the 1986 AHS was counting a significant number of units as having complete plumbing for exclusive use because respondents for these units reported having a bathroom when, in fact, either the bathroom did not contain all plumbing facilities or the facilities were shared by persons living in another unit. Based on AHS data from previous years, we believe that "completeness" was more of a problem than "exclusive use."

In the 1990 AHS, the questionnaire items on bathrooms and plumbing were modified to provide more accurate estimates. Respondents were asked, "How many full bathrooms with a sink, with hot and cold piped water, a flush toilet, and a bathtub or shower does this house/apartment have?" Also, an additional question was asked, "Are the bathrooms for this household's use only?" If the respondent reported no bathrooms, detail questions on each required plumbing facility were asked separately. Units lacking complete plumbing facilities are included in the count of units with severe physical problems. The number of units with severe physical problems may also have been underestimated in 1986. It also appears the units with moderate problems may also have been overestimated.

*Kitchens.* In 1974 through 1983 AHS-MS, vacant units lacking kitchen facilities were counted as having them if it was intended for future occupants to have kitchen facilities. It was felt that this instruction caused underestimates of units lacking kitchen facilities in some areas of the country where kitchen facilities are made available to prospective tenants. The instruction was dropped in the redesigned AHS. In the redesigned AHS, vacant units are counted as lacking complete kitchen facilities if one or more of the facilities are absent regardless of what will be present when new occupants move in. It is now felt that the new procedures produced overestimates of units lacking facilities in areas of the country where the facilities are normally provided by the incoming tenants. It may well be that a simple, ideal way of measuring kitchen facilities for vacant units does not exist.

Also, in the redesigned AHS, existence of each component of a kitchen is asked separately. In the 1974 through 1983 AHS-MS, the existence of complete kitchen facilities

was obtained through the answer to one question. It is felt that the 1974 through 1983 AHS underestimated the number of units lacking complete kitchen facilities as some of the respondents who reported having complete kitchen facilities lacked one or more of them. This is less likely to happen when the existence of each facility is asked separately as in the redesigned AHS.

In addition to the inclusion of vacant mobile homes as housing units, there are two additional minor changes to the housing unit definition.

One minor difference in the definition is the 1974 through 1983 requirement that a housing unit must have either direct access from the outside or through a common hallway or complete kitchen facilities for the exclusive use of the occupants. In the redesigned American Housing Survey, the complete kitchen facilities alternative was dropped with direct access required of all units. A second minor difference is in the definition of group quarters. In the 1974 through 1983 Annual Housing Survey, a household containing five or more persons unrelated to the householder was considered to be group quarters. In the redesigned AHS, the cutoff was changed to nine or more persons unrelated to the householder.

There are also some minor differences in the definition or presentation of several subjects. The 1974 through 1983 AHS reports presented data on gross rent for renter-occupied units, contract rent for vacant-for-rent units, and selected monthly housing costs for owner-occupied housing units. The same basic data are presented for all three groups in the redesigned AHS except that the subject is titled "monthly housing costs" for all three universes on all tables to ease presentation of the data on tables where more than one of the universes occur. For a detailed definition of "monthly housing costs," see page A-20 of appendix A.

The characteristics of new construction units are based on units constructed during the last 4 years in the AHS redesign. Prior to the AHS-MS redesign, characteristics of new construction were based on units built since the last survey, which varied from being a 3- to 4-year period.

In the AHS redesign, some of the data for recent movers are based on the householder's characteristics and some are based on characteristics of the respondent who may or may not be the householder. Before AHS redesign, all recent-mover data were based on the householder's characteristics.

A number of new items were introduced in the AHS-redesign including lot size, square footage, units with severe or moderate problems, elderly householder, and detailed information on mortgages, etc. For detailed definitions and qualifications of these and other items, please see appendix A.

**Comparison with the 1990 Census of Population and Housing.** Care should be exercised in making comparisons between the redesigned AHS-MS reports and the

1990 Census of Population and Housing results. Differences in the data may reflect such factors as the use of direct interview in the AHS contrasted with extensive use of self-enumeration in the census, the time periods during which the data were collected (possible seasonal effects), sample designs, estimation procedures used, sampling variability of the estimates, and processing procedures.

See the section "Comparability with the 1990 Census of Population and Housing Data" in appendix A for further discussion.

More detailed information on the technical and procedural matters covered in the text of this report can be obtained by writing to the Director, Bureau of the Census, Washington, DC 20233.

### **DATA FOR MINORITY HOUSEHOLDS**

In the redesigned AHS metropolitan reports, separate chapters are shown for housing units with a Black householder and housing units with a Hispanic householder (chapters 5 and 6, respectively). In any metropolitan area

where a minority group is represented by less than 75 sample cases, chapters 5 and 6 are suppressed. In metropolitan areas with suppressed chapters, summary characteristics for minority households are still shown under the appropriate columns (Black or Hispanic) in chapters 2, 3, and 4.

For this metropolitan area, chapter 5 for Black households is suppressed as there are only 65 sample cases of Black householders in this area; and chapter 6 for Hispanic households is shown.

### **CURRENT INTEREST RATE CORRECTION**

In 1990, a programming error was discovered and corrected involving the computation of the median for the item "Current interest rate." Caution should be used when making comparisons with the 1986 survey data. The medians presented in the 1986 reports are calculated incorrectly. However, the data distributions are correct and can be used to compute corrected medians.

**List of American Housing Survey Metropolitan Areas  
by Year of Interview**

Name	Years for which reports are published 19—	Name	Years for which reports are published 19—	Name	Years for which reports are published 19—	Name	Years for which reports are published 19—
Birmingham, AL, MSA	84,88	Boston, MA-NH, CMSA	85,89	Anaheim-Santa Ana, CA, PMSA <sup>1</sup>	86,90	Atlanta, GA, MSA	87
Buffalo, NY, CMSA <sup>1</sup>	84,88	Dallas, TX, PMSA <sup>1</sup>	85,89	Cincinnati, OH-KY-IN, PMSA <sup>1</sup>	86,90	Baltimore, MD, MSA	87
Cleveland, OH, PMSA <sup>1</sup>	84,88	Detroit, MI, PMSA	85,89	Denver, CO, CMSA	86,90	Chicago, IL, area PMSA's	87
Indianapolis, IN, MSA <sup>1</sup>	84,88	Fort Worth-Arlington, TX, PMSA	85,89	Kansas City, MO-KS, CMSA	86,90	Columbus, OH, MSA	87
Memphis, TN-AR-MS, MSA	84,88	Los Angeles-Long Beach, CA, PMSA <sup>1</sup>	85,89	Miami-Ft. Lauderdale, FL, CMSA	86,90	Hartford, CT, CMSA	87
Milwaukee, WI, PMSA <sup>1</sup>	84,88	Minneapolis-St. Paul, MN-WI, MSA	85,89	New Orleans, LA, MSA	86,90	Houston, TX, area PMSA's	87
Norfolk-Virginia Beach-Newport News, VA, MSA	84,88	Philadelphia, PA-NJ, PMSA <sup>1</sup>	85,89	Pittsburgh, PA, CMSA	86,90	New York-Nassau-Suffolk, NY, PMSA's	87
Oklahoma City, OK, MSA	84,88	Phoenix, AZ, MSA <sup>1</sup>	85,89	Portland, OR-WA, CMSA	86,90	Northern NJ area PMSA's	87
Providence-Pawtucket-Warwick, RI-MA, area PMSA's	84,88	San Francisco-Oakland, CA area PMSA's <sup>1</sup>	85,89	Riverside-San Bernardino-Ontario, CA, PMSA <sup>1</sup>	86,90	St. Louis, MO-IL, CMSA	87
Salt Lake City, UT, MSA	84,88	Tampa-St. Petersburg, FL, MSA	85,89	Rochester, NY, MSA	86,90	San Diego, CA, MSA <sup>1</sup>	87
San Jose, CA, PMSA	84,88	Washington, DC-MD-VA, MSA	85,89	San Antonio, TX, MSA	86,90	Seattle-Tacoma, WA, CMSA	87

<sup>1</sup>Counties (or county equivalents) comprising the metropolitan area are the same as the 1974-83 AHS.

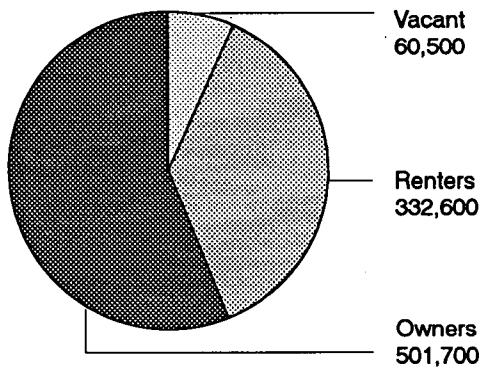
**List of Annual Housing Survey SMSA's by Original Publication Groups**

Group A	Years for which reports are published 19—	Group B	Years for which reports are published 19—	Group C	Years for which reports are published 19—
Albany-Schenectady-Troy, NY.....	74, 77, 80	Atlanta, GA.....	75, 78, 82	Allentown-Bethlehem-Easton, PA-NJ.....	76, 80
Anaheim-Santa Ana-Garden Grove, CA.....	74, 77, 81	Chicago, IL.....	75, 79, 83	Baltimore, MD.....	76, 79, 83
Boston, MA.....	74, 77, 81	Cincinnati, OH-KY-IN.....	75, 78, 82	Birmingham, AL.....	76, 80
Dallas, TX.....	74, 77, 81	Colorado Springs, CO.....	75, 78	Buffalo, NY.....	76, 79
Detroit, MI.....	74, 77, 81	Columbus, OH.....	75, 78, 82	Cleveland, OH.....	76, 79
Fort Worth, TX.....	74, 77, 81	Hartford, CT.....	75, 79, 83	Denver, CO.....	76, 79, 83
Los Angeles-Long Beach, CA.....	74, 77, 80	Kansas City, MO-KS.....	75, 78, 82	Grand Rapids, MI.....	76, 80
Madison, WI*	75, 77, 81	Miami, FL.....	75, 79, 83	Honolulu, HI.....	76, 79, 83
Memphis, TN-AR.....	74, 77, 80	Milwaukee, WI.....	75, 79	Houston, TX.....	76, 79, 83
Minneapolis-St. Paul, MN.....	74, 77, 81	New Orleans, LA.....	75, 78, 82	Indianapolis, IN.....	76, 80
Newark, NJ.....	74, 77, 81	Newport News-Hampton, VA.....	75, 78	Las Vegas, NV.....	76, 79
Orlando, FL.....	74, 77, 81	Paterson-Clifton-Passaic, NJ.....	75, 78, 82	Louisville, KY-IN.....	76, 80, 83
Phoenix, AZ.....	74, 77, 81	Philadelphia, PA-NJ.....	75, 78, 82	New York, NY.....	76, 80, 83
Pittsburgh, PA.....	74, 77, 81	Portland, OR-WA.....	75, 79, 83	Oklahoma City, OK.....	76, 80
Saginaw, MI.....	74, 77, 80	Rochester, NY.....	75, 78, 82	Omaha, NE-IA.....	76, 79
Salt Lake City, UT.....	74, 77, 80	San Antonio, TX.....	75, 78, 82	Providence-Pawtucket-Warwick, RI-MA.....	76, 80
Spokane, WA.....	74, 77, 81	San Bernardino-Riverside-Ontario, CA.....	75, 78, 82	Raleigh, NC.....	76, 79
Tacoma, WA.....	74, 77, 81	San Diego, CA.....	75, 78, 82	Sacramento, CA.....	76, 80, 83
Washington, DC-MD-VA.....	74, 77, 81	San Francisco-Oakland, CA.....	75, 78, 82	St. Louis, MO-IL.....	76, 80, 83
Wichita, KS.....	74, 77, 81	Springfield-Chicopee-Holyoke, MA-CT.....	75, 78	Seattle-Everett, WA.....	76, 79, 83

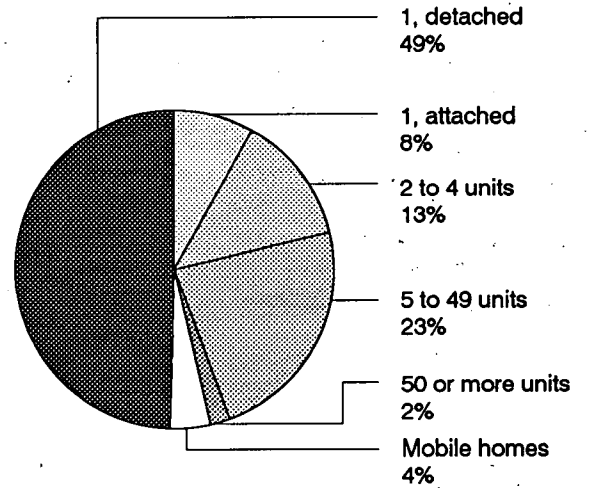
\*Included with Group B for the first interview.



**Figure 1.  
Housing Inventory: 1990**

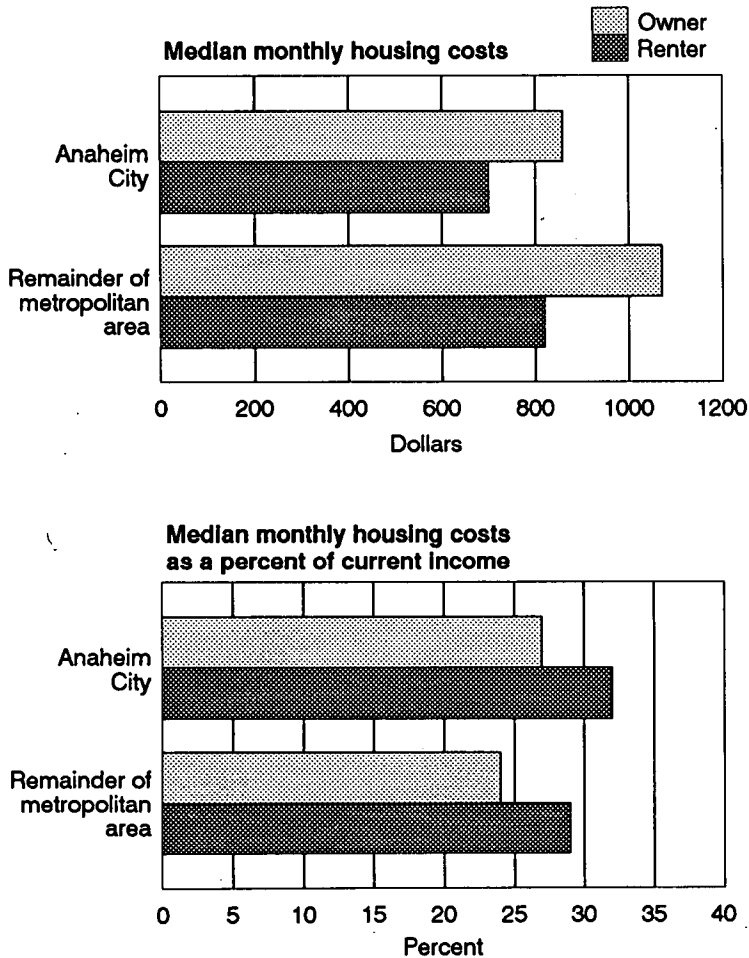


**Figure 2.  
Units in Structure for All  
Housing Units: 1990**

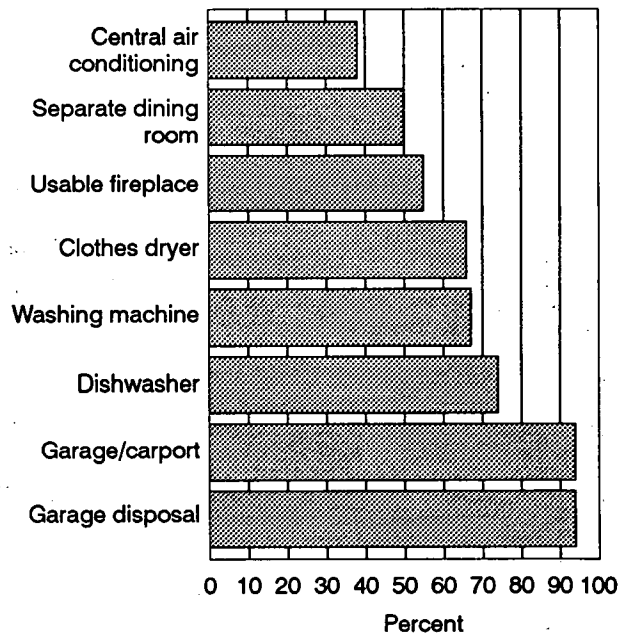


Percents may not add to 100 because of rounding.

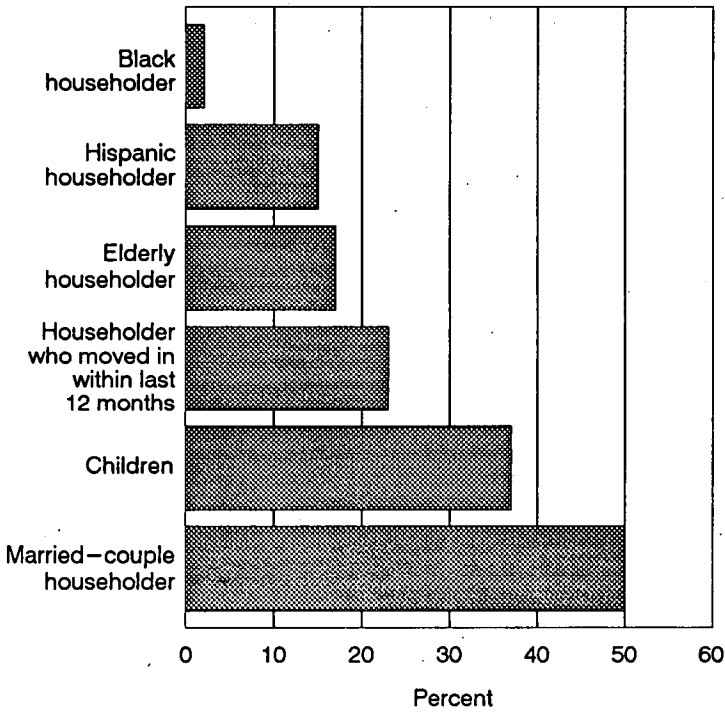
**Figure 3.  
Housing Costs: 1990**



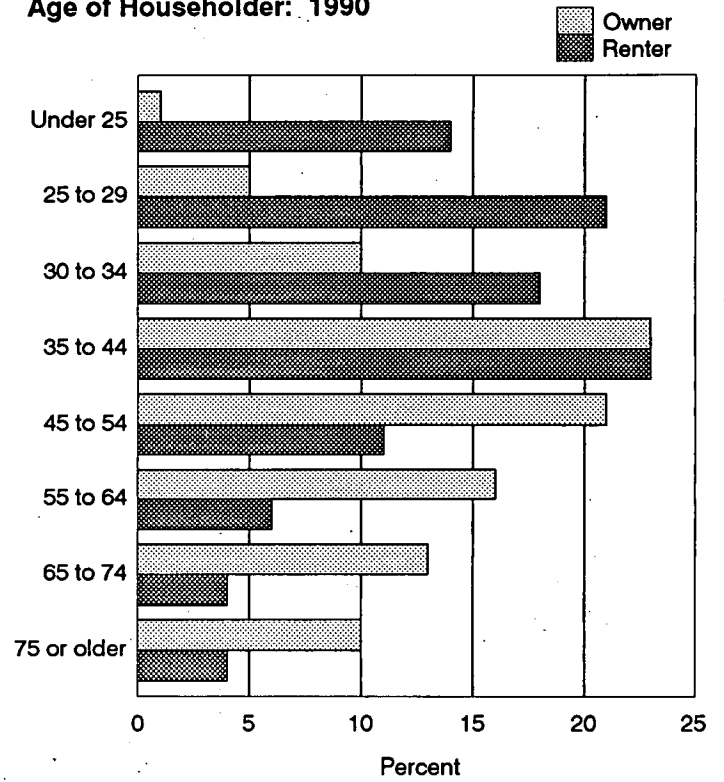
**Figure 4.  
Occupied Homes with  
Selected Features: 1990**



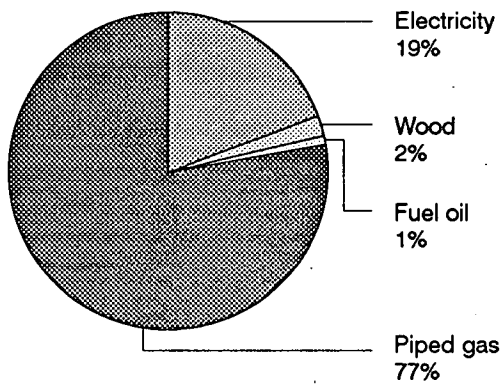
**Figure 5.**  
Selected Household  
Characteristics: 1990



**Figure 6.**  
Owners and Renters, by  
Age of Householder: 1990

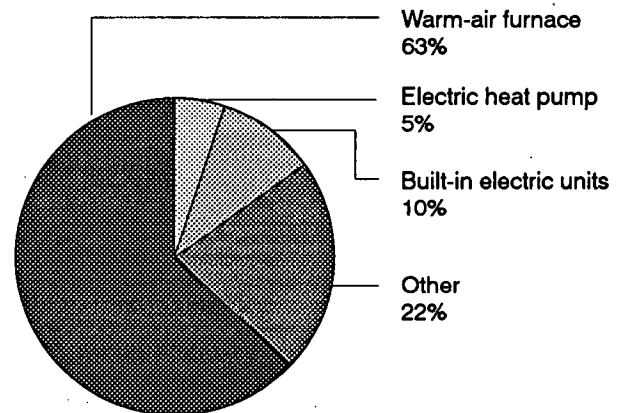


**Figure 7.**  
Main House Heating Fuel for  
All Occupied Units: 1990



Limited to housing units with heat equipment; percents may not add to 100 because of rounding.

**Figure 8.**  
Main Heating Equipment for  
All Occupied Units: 1990



Limited to housing units with heating equipment; percents may not add to 100 because of rounding.

Table 1-1. Introductory Characteristics - All Housing Units

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total housing units	Seasonal	Year-round										New construction 4 yrs	Mobile homes		
			Occupied			Vacant										
			Total	Owner	Renter	Total	For rent	Rental vacancy rate	For sale only	Rented or sold	Occasional use/ URE	Other vacant				
<b>Total</b> .....	895.0	1.3	893.6	834.4	501.7	332.6	59.2	31.3	8.6	11.0	6.4	8.1	2.4	89.0	32.0	
<b>Units in Structure</b>																
1, detached.....	443.0	.2	442.9	427.1	362.2	64.9	15.8	4.0	5.7	3.8	3.7	3.3	.9	31.2	...	
1, attached.....	71.3	.3	71.0	64.7	48.6	16.1	6.3	1.5	8.6	2.1	.8	1.0	.9	11.9	...	
2 to 4.....	119.7	.2	119.6	110.4	26.3	84.1	9.2	6.6	7.3	1.3	.2	1.1	...	6.8	...	
5 to 9.....	87.6	.4	87.3	79.5	22.2	57.3	7.8	5.3	8.4	1.3	.3	.7	.2	13.5	...	
10 to 19.....	76.2	..	76.2	67.3	10.9	56.4	8.9	7.3	11.5	.6	.3	.5	.2	14.7	...	
20 to 49.....	45.1	.2	44.9	37.8	2.5	35.3	7.2	5.1	12.5	.7	.6	.8	..	4.2	...	
50 or more.....	19.9	..	19.9	17.7	1.1	16.7	2.2	1.5	8.2	.2	.4	.2	..	5.0	...	
Mobile home or trailer.....	32.0	.1	31.9	29.9	28.1	1.8	2.0	..	..	..	..	.6	.2	1.8	32.0	
<b>Cooperatives and Condominiums</b>																
Cooperatives.....	18.7	.2	18.5	16.2	15.2	1.0	2.3	..	..	1.4	.2	.2	.6	.2	..	
Condominiums.....	106.9	.5	106.4	99.0	74.9	24.0	7.4	1.5	5.7	3.4	1.0	1.3	.3	19.5	..	
<b>Year Structure Built<sup>1</sup></b>																
1990 to 1994.....	17.8	..	17.8	12.0	5.2	6.8	5.7	.2	2.7	3.1	2.5	..	..	17.8	.4	
1985 to 1989.....	106.0	..	106.0	99.7	56.6	43.1	6.3	4.8	10.0	.6	..	.6	.4	71.3	1.7	
1980 to 1984.....	61.7	.3	61.4	58.3	41.7	16.5	3.1	1.2	6.5	.6	.2	1.2	..	..	1.3	
1975 to 1979.....	118.1	..	118.1	110.8	66.1	44.8	7.3	4.3	8.6	1.3	.4	1.0	..	..	6.9	
1970 to 1974.....	156.6	.2	156.5	144.6	71.8	72.7	11.9	7.5	9.3	2.0	.6	1.6	.2	..	12.8	
1960 to 1969.....	292.1	.6	291.5	274.3	177.1	97.3	17.2	9.6	8.9	2.8	2.4	1.5	.9	..	8.5	
1950 to 1959.....	98.2	.2	98.0	93.4	61.1	32.3	4.6	2.2	6.4	.4	.4	1.3	.4	..	.5	
1940 to 1949.....	24.7	.2	24.5	22.6	12.7	9.9	1.9	1.1	10.2	.4	..	.2	.2	..	..	
1930 to 1939.....	11.6	..	11.6	11.0	5.4	5.6	.6	.5	7.6	..	..	.2	..	..	..	
1920 to 1929.....	4.7	..	4.7	4.3	2.5	1.8	.4	..	..	..	..	.4	..	..	..	
1919 or earlier.....	3.5	..	3.5	3.4	1.6	1.8	.2	..	..	..	..	.2	..	..	..	
Median.....	1970	...	1970	1970	1969	1971	1972	1971	...	1975	1974	1971	...	...	1973	
<b>Statistical Areas</b>																
Current units, in 1970 boundaries of SMSA.....	895.0	1.3	893.6	834.4	501.7	332.6	59.2	31.3	8.6	11.0	6.4	8.1	2.4	89.0	32.0	
1970 central city(s).....	230.9	..	230.9	218.0	115.8	102.2	12.9	8.5	7.6	2.0	1.5	.4	.5	10.2	7.2	
1970 balance of SMSA.....	664.0	1.3	662.7	616.3	386.0	230.4	46.3	22.9	9.0	9.0	5.0	7.7	1.8	78.8	24.8	
Current units, in 1983 boundaries of MSA.....	895.0	1.3	893.6	834.4	501.7	332.6	59.2	31.3	8.6	11.0	6.4	8.1	2.4	89.0	32.0	
1983 central city(s).....	173.3	..	173.3	163.0	77.6	85.5	10.3	6.9	7.4	1.6	1.5	.2	.2	8.7	5.8	
1983 balance of MSA.....	721.7	1.3	720.3	671.3	424.2	247.2	49.0	24.4	9.0	9.5	5.0	7.9	2.2	80.4	26.2	
<b>Suitability for Year-Round Use<sup>2</sup></b>																
Built and heated for year-round use.....	...	1.3	...	834.4	501.7	332.6	...	...	...	...	...	...	...	89.0	32.0	
Not suitable.....	...	..	...	..	..	..	...	...	...	...	...	...	...	..	..	
Not reported.....	...	..	...	..	..	..	...	...	...	...	...	...	...	..	..	
<b>Time Sharing</b>																
Vacant, including URE.....	...	1.3	...	...	...	...	59.2	31.3	...	11.0	6.4	8.1	2.4	10.7	2.2	
Ownership time-shared.....	...	..	...	...	...	...	..	..	...	..	..	..	..	..	..	
Not time-shared.....	...	1.3	...	...	...	...	59.2	31.3	...	11.0	6.4	8.1	2.4	10.7	2.2	
<b>Duration of Vacancy</b>																
Vacant units.....	...	.7	...	...	...	...	55.3	31.3	...	11.0	6.4	4.1	2.4	10.5	1.8	
Less than 1 month vacant.....	...	.2	...	...	...	...	21.4	16.8	...	2.9	1.1	.2	.3	2.5	.1	
1 month up to 2 months.....	...	..	...	...	...	...	5.5	4.5	...	.5	.4	..	..	.6	..	
2 months up to 6 months.....	...	.2	...	...	...	...	12.4	6.9	...	2.6	1.7	.6	.6	1.3	.9	
6 months up to 1 year.....	...	..	...	...	...	...	4.4	.6	...	1.5	1.0	1.1	.2	.4	.6	
1 year up to 2 years.....	...	..	...	...	...	...	1.8	.7	...	.4	.2	.4	.2	..	..	
2 years or more.....	...	..	...	...	...	...	2.3	.3	...	.2	..	.9	.9	.4	.2	
Never occupied.....	...	..	...	...	...	...	4.4	.2	...	2.5	1.7	..	..	4.4	..	
Don't know.....	...	.3	...	...	...	...	3.1	1.4	...	.4	.2	1.0	.2	1.0	..	
<b>Last Used as a Permanent Residence</b>																
Vacant seasonal and URE units.....	...	1.3	...	...	...	...	...	...	...	...	...	4.0	...	.2	.4	
Less than 1 month since occupied as permanent home.....	...	..	...	...	...	...	...	...	...	...	...	.4	...	..	..	
1 month up to 2 months.....	...	..	...	...	...	...	...	...	...	...	...	..	...	..	..	
2 months up to 6 months.....	...	..	...	...	...	...	...	...	...	...	...	.5	...	..	..	
6 months up to 1 year.....	...	..	...	...	...	...	...	...	...	...	...	.4	...	..	..	
1 year up to 2 years.....	...	.2	...	...	...	...	...	...	...	...	...	.2	...	..	..	
2 years or more.....	...	.2	...	...	...	...	...	...	...	...	...	.4	...	..	..	
Never occupied as permanent home.....	...	.4	...	...	...	...	...	...	...	...	...	.9	...	.2	..	
Don't know.....	...	.5	...	...	...	...	...	...	...	...	...	.8	...	..	..	
Not reported.....	...	.1	...	...	...	...	...	...	...	...	...	.4	...	..	.1	

<sup>1</sup>For mobile home, oldest category is 1939 or earlier.

<sup>2</sup>If occupied year-round, assumed to be suitable for year-round use.

Table 1-2. Height and Condition of Building - All Housing Units

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total housing units	Seasonal	Year-round										New construction 4 yrs	Mobile homes		
			Occupied					Vacant								
			Total	Total	Owner	Renter	Total	For rent	Rental vacancy rate	For sale only	Rent-ed or sold	Occa-sional use/ URE			Other vacant	
<b>Total</b> .....	895.0	1.3	893.6	834.4	501.7	332.6	59.2	31.3	8.6	11.0	6.4	8.1	2.4	89.0	32.0	
<b>Stories in Structure</b>																
1 .....	405.8	.7	405.2	389.2	299.1	90.1	16.0	6.1	6.3	4.6	1.9	2.0	1.3	10.6	32.0	
2 .....	436.0	.5	435.5	401.1	187.6	213.5	34.4	20.2	8.6	5.8	3.2	4.2	1.0	66.5	-	
3 .....	40.1	.2	39.9	32.6	13.6	19.0	7.3	4.3	18.5	.4	.9	1.6	-	10.1	-	
4 to 6 .....	11.1	-	11.1	9.5	1.4	8.1	1.6	.7	7.9	-	.4	.2	-	1.7	-	
7 or more.....	2.0	-	2.0	2.0	-	2.0	-	-	-	-	-	-	-	-	-	
<b>Stories Between Main and Apartment Entrances</b>																
Multiunits, 2 or more floors .....	293.9	.4	293.6	263.1	45.5	217.6	30.4	23.2	9.6	2.6	1.4	3.0	.2	42.7	-	
None (on same floor) .....	143.9	-	143.9	132.3	29.3	103.0	11.6	8.3	7.4	1.6	.2	1.4	.2	22.1	-	
1 (up or down) .....	89.0	.4	88.7	78.1	11.5	66.6	10.5	8.7	11.5	.8	.4	.8	-	12.5	-	
2 or more (up or down) .....	57.8	-	57.8	50.1	4.2	45.9	7.7	5.8	11.1	.2	.8	.9	-	7.4	-	
Not reported .....	3.2	-	3.2	2.6	.5	2.1	.7	.5	18.4	-	.2	-	-	.6	-	
<b>Common Stairways</b>																
Multiunits, 2 or more floors .....	293.9	.4	293.6	263.1	45.5	217.6	30.4	23.2	9.6	2.6	1.4	3.0	.2	42.7	-	
No common stairways .....	87.8	-	87.8	80.5	27.4	53.1	7.2	4.7	8.2	1.3	-	1.0	.2	13.4	-	
With common stairways .....	204.9	.4	204.5	181.8	18.1	163.7	22.7	18.0	9.8	1.3	1.4	2.0	-	29.0	-	
No loose steps .....	181.9	.4	181.5	169.9	17.5	152.3	21.7	16.9	9.9	1.3	1.4	2.0	-	28.1	-	
Railings not loose .....	168.9	.4	168.5	149.3	15.6	133.7	19.3	15.5	10.4	1.1	.8	1.8	-	25.5	-	
Railings loose .....	4.4	-	4.4	3.8	.2	3.6	.7	.4	10.2	-	.2	-	-	.4	-	
No railings .....	10.9	-	10.9	10.2	1.5	8.7	1.7	.5	5.4	-	.2	-	-	1.5	-	
Status of railings not reported .....	7.7	-	7.7	6.6	.2	6.4	1.1	.5	6.7	.2	.2	.2	-	.6	-	
Loose steps .....	12.5	-	12.5	11.7	.6	11.1	.8	.8	6.6	-	-	-	-	.7	-	
Railings not loose .....	11.5	-	11.5	10.8	.6	10.3	.6	.6	5.8	-	-	-	-	.7	-	
Railings loose .....	.7	-	.7	.5	-	.5	.2	.2	24.1	-	-	-	-	-	-	
No railings .....	.2	-	.2	-	-	.2	-	-	-	-	-	-	-	-	-	
Status of railings not reported .....	.2	-	.2	-	-	.2	-	-	-	-	-	-	-	-	-	
Status of steps not reported .....	.5	-	.5	.2	-	.2	.2	.2	50.5	-	-	-	-	.2	-	
Status of stairways not reported .....	1.3	-	1.3	.8	-	.8	.5	.5	39.6	-	-	-	-	.4	-	
<b>Light Fixtures in Public Halls</b>																
2 or more units in structure .....	348.6	.7	347.9	312.7	62.9	249.8	35.2	25.9	9.3	4.0	1.7	3.2	.3	44.2	-	
No public halls .....	236.7	.4	236.3	215.2	52.6	162.6	21.1	16.1	9.0	3.0	.2	1.5	.3	25.5	-	
No light fixtures in public halls .....	.5	-	.5	.5	-	.5	-	-	-	-	-	-	-	-	-	
All in working order .....	46.7	.2	46.5	40.6	4.9	35.7	5.9	4.7	11.6	.2	.2	.8	-	9.1	-	
Some in working order .....	2.1	-	2.1	2.1	-	2.1	-	-	-	-	-	-	-	-	-	
None in working order .....	.4	-	.4	.4	-	.4	-	-	-	-	-	-	-	-	-	
Unable to determine if working .....	59.3	.2	59.1	51.8	5.1	46.5	7.5	4.4	8.5	.8	1.3	.9	-	9.2	-	
Not reported .....	3.0	-	3.0	2.3	.4	1.9	.7	.7	26.2	-	-	-	-	.4	-	
<b>Elevator on Floor</b>																
Multiunits, 2 or more floors .....	293.9	.4	293.6	263.1	45.5	217.6	30.4	23.2	9.6	2.6	1.4	3.0	.2	42.7	-	
With 1 or more elevators working .....	25.3	.2	25.1	20.2	1.7	18.5	4.9	3.3	15.0	.4	.4	.8	-	4.9	-	
With elevator, none in working condition .....	1.6	-	1.6	1.2	-	1.2	.4	-	-	.2	.2	-	-	.8	-	
No elevator .....	265.3	.2	265.2	241.0	43.4	197.6	24.2	18.9	8.7	2.0	.8	2.3	.2	36.4	-	
Units 3 or more floors from main entrance .....	2.8	-	2.8	1.6	.2	1.4	1.2	1.0	41.3	-	-	.2	-	.9	-	
<b>Foundation</b>																
1 unit bldg. excl. mobile homes .....	514.3	.5	513.8	491.8	410.8	81.0	22.0	5.5	6.3	5.9	4.5	4.3	1.8	43.1	-	
With basement under all of building .....	.8	-	.8	.8	.4	.4	-	-	-	-	-	-	-	-	-	
With basement under part of building .....	4.6	-	4.6	4.4	3.3	1.2	.2	.2	12.2	-	-	-	-	-	-	
With crawl space .....	103.6	.2	103.5	100.4	81.7	18.8	3.1	.8	4.3	.6	.6	.9	.2	3.0	-	
On concrete slab .....	400.0	.2	399.9	381.4	321.7	59.7	18.4	4.3	6.7	5.3	3.9	3.2	1.7	39.9	-	
Other .....	5.2	.2	5.1	4.7	3.7	1.0	.4	.2	13.2	-	-	.2	-	.2	-	
<b>External Building Conditions<sup>1</sup></b>																
Sagging roof .....	.2	-	.2	.2	-	.2	-	-	-	-	-	-	-	-	-	
Missing roofing material .....	2.2	-	2.2	2.2	1.1	1.1	-	-	-	-	-	-	-	-	-	
Hole in roof .....	1.4	-	1.4	1.4	.5	1.0	-	-	-	-	-	-	-	-	-	
Could not see roof .....	15.6	-	15.6	13.4	1.8	11.6	2.2	1.6	11.9	-	.2	.4	-	1.1	.4	
Missing bricks, siding, other outside wall material .....	2.6	-	2.6	2.4	1.3	1.1	.2	-	-	-	-	-	.2	-	-	
Sloping outside walls .....	1.1	-	1.1	.9	-	.9	.2	-	-	-	-	.2	-	-	-	
Boarded up windows .....	.7	-	.7	.5	-	.5	.2	-	-	-	-	.2	-	-	-	
Broken windows .....	3.8	-	3.8	3.6	1.3	2.3	.2	-	-	-	-	.2	-	-	-	
Bars on windows .....	2.8	-	2.8	2.8	1.4	1.4	-	-	-	-	-	.2	-	-	-	
Foundation crumbling or has open crack or hole .....	4.3	-	4.3	4.1	2.1	2.0	.2	-	-	-	-	.2	-	-	-	
Could not see foundation .....	7.6	-	7.6	7.6	3.7	3.9	-	-	-	-	-	-	-	1.1	.1	
None of the above .....	851.4	1.2	850.2	795.3	487.3	308.0	54.9	28.7	8.5	10.8	5.8	7.7	1.9	86.0	30.9	
Could not observe or not reported .....	9.4	.2	9.3	7.6	3.5	4.1	1.6	1.1	19.6	.2	.4	-	-	.8	.6	
<b>Site Placement</b>																
Mobile homes .....	32.0	.1	31.9	29.9	28.1	1.8	2.0	-	-	1.1	.2	.6	.2	1.8	32.0	
First site .....	24.0	-	24.0	22.5	20.9	1.6	1.6	-	-	.6	.2	.6	.2	1.8	24.0	
Moved from another site .....	1.4	-	1.4	1.2	1.2	-	.2	-	-	.2	-	-	-	-	1.4	
Don't know .....	5.7	-	5.7	5.5	5.3	.2	.2	-	-	-	-	-	-	-	5.7	
Not reported .....	.9	.1	.7	.7	.7	-	-	-	-	-	-	-	-	.9	-	

<sup>1</sup>Figures may not add to total because more than one category may apply to a unit.

Table 1-3. Size of Unit and Lot - All Housing Units

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total housing units	Seasonal	Year-round										New construction 4 yrs	Mobile homes		
			Occupied			Vacant										
			Total	Owner	Renter	Total	For rent	Rental vacancy rate	For sale only	Rent-ed or sold	Occa-sional use/ URE	Other vacant				
<b>Total</b> .....	895.0	1.3	893.6	834.4	501.7	332.6	59.2	31.3	8.6	11.0	6.4	8.1	2.4	69.0	32.0	
<b>Rooms</b>																
1 room .....	2.9	-	2.9	1.5	-	1.5	1.4	1.2	45.0	-	-	.2	-	.3	-	
2 rooms .....	10.0	-	10.0	7.9	6	7.3	2.1	1.8	19.9	-	-	.3	-	.5	-	
3 rooms .....	91.1	.2	90.9	82.6	11.7	70.9	8.4	6.5	8.3	.7	.5	.5	.2	9.0	2.8	
4 rooms .....	177.1	.2	176.9	161.1	44.0	117.1	15.8	10.9	8.4	1.7	1.1	1.3	.9	21.2	5.8	
5 rooms .....	180.2	.7	179.5	167.0	92.8	74.2	12.4	6.2	7.7	2.5	1.4	1.9	.4	19.7	10.5	
6 rooms .....	160.7	.2	160.5	153.6	116.2	37.4	6.8	2.6	6.5	1.7	1.2	1.2	.2	10.9	8.4	
7 rooms .....	124.3	-	124.3	117.2	104.4	12.9	7.0	1.4	9.9	2.2	1.4	1.2	.7	7.0	3.2	
8 rooms .....	94.9	.2	94.8	91.8	83.6	8.2	3.0	.8	8.5	1.3	.4	.8	-	11.1	1.1	
9 rooms .....	35.6	-	35.6	34.3	32.0	2.3	1.3	-	-	.6	.4	.4	-	7.0	-	
10 rooms or more .....	18.3	-	18.3	17.5	16.5	.9	.8	-	-	.4	-	.4	-	2.4	.3	
Median .....	5.4	-	5.4	5.5	6.4	4.2	4.7	4.1	-	5.8	5.8	5.4	-	5.2	5.2	
<b>Bedrooms</b>																
None .....	10.2	-	10.2	7.5	6	6.9	2.7	2.5	27.0	-	-	.2	-	.5	-	
1 .....	124.8	.2	124.6	112.9	19.2	93.7	11.7	8.7	8.4	.8	.9	1.1	.2	15.0	3.8	
2 .....	290.3	.7	289.6	266.3	114.0	152.2	23.4	14.1	8.4	4.2	1.0	2.8	1.3	34.4	24.9	
3 .....	276.2	.5	275.7	260.8	198.7	62.1	14.9	4.9	7.3	3.4	3.1	2.9	.6	22.2	2.8	
4 or more .....	193.5	-	193.5	186.8	169.2	17.7	6.7	1.1	5.9	2.6	1.4	1.2	.4	17.0	5.5	
Median .....	2.6	-	2.6	2.6	3.1	1.9	2.2	1.8	-	2.6	2.9	2.5	-	2.3	2.0	
<b>Complete Bathrooms</b>																
None .....	1.3	-	1.3	.9	.5	.4	.5	.2	36.8	-	-	.2	-	.2	-	
1 .....	257.3	.3	257.0	232.6	62.3	170.3	24.4	17.9	9.4	2.0	1.4	1.9	1.2	18.6	8.5	
1 and one-half .....	100.9	.4	100.5	95.4	55.5	39.8	5.1	2.9	6.8	.8	.6	.8	-	1.8	2.5	
2 or more .....	535.4	.7	534.8	505.6	383.4	122.1	29.2	10.3	7.8	8.2	4.4	5.2	1.1	68.5	21.1	
<b>Square Footage of Unit</b>																
Single detached and mobile homes .....	474.1	.3	473.8	456.2	389.5	66.7	17.6	4.0	5.5	4.7	3.9	3.9	1.1	32.9	31.0	
Less than 500 .....	1.9	-	1.9	1.9	1.5	.3	-	-	-	-	.2	-	-	-	.5	
500 to 749 .....	6.1	.1	5.9	5.8	3.3	2.5	.2	-	-	-	.2	-	-	.6	3.2	
750 to 999 .....	18.2	-	18.2	16.8	11.2	5.6	1.3	.3	5.5	.2	.2	.4	.2	4.1	4.1	
1,000 to 1,499 .....	103.6	-	103.6	99.1	76.7	22.4	4.5	1.2	4.9	1.3	1.0	.9	.2	13.3	13.3	
1,500 to 1,999 .....	114.0	.2	113.8	111.7	98.2	13.5	2.1	.5	3.2	.2	.4	.8	.2	5.4	4.1	
2,000 to 2,499 .....	70.2	-	70.2	67.9	62.1	5.8	2.3	.5	8.3	.9	.4	.4	-	6.3	.5	
2,500 to 2,999 .....	39.5	-	39.5	37.7	35.3	2.4	1.8	.2	6.3	.8	.7	.2	-	6.6	-	
3,000 to 3,999 .....	26.4	-	26.4	24.4	22.8	1.6	2.0	-	-	.4	.4	1.0	.2	6.1	-	
4,000 or more .....	6.5	-	6.5	6.3	6.3	-	.2	-	-	-	-	.2	-	.9	-	
Not reported (includes don't know) .....	87.8	-	87.8	84.6	72.1	12.5	3.2	1.3	9.4	.9	.6	-	.4	3.5	5.2	
Median .....	1 778	-	1 779	1 779	1 836	1 416	1 783	-	-	-	-	-	-	2 411	1 191	
<b>Lot Size</b>																
Less than one-eighth acre .....	75.9	-	75.9	70.8	61.8	9.0	5.1	1.4	13.0	1.6	1.3	.8	-	5.9	18.8	
One-eighth up to one-quarter acre .....	153.6	-	153.6	149.3	137.0	12.2	4.4	.4	3.1	2.3	1.7	-	-	13.2	.8	
One-quarter up to one-half acre .....	41.2	-	41.2	40.6	37.9	2.8	.6	-	-	.2	.2	.2	-	3.2	.2	
One-half up to one acre .....	9.2	-	9.2	9.0	8.9	.1	.2	-	-	.2	-	-	-	.7	-	
1 to 4 acres .....	4.8	-	4.8	4.8	4.4	.4	-	-	-	-	-	-	-	.6	-	
5 to 9 acres .....	.4	-	.4	.4	.4	-	-	-	-	-	-	-	-	-	-	
10 acres or more .....	1.0	-	1.0	1.0	.7	.4	-	-	-	-	-	-	-	-	-	
Don't know .....	187.5	-	187.5	181.7	136.3	45.4	5.8	2.5	5.2	1.5	1.2	.6	-	11.3	9.2	
Not reported .....	66.4	.3	66.1	63.2	50.6	12.6	2.9	1.2	8.7	.4	.4	.4	-	9.2	1.5	
Median .....	.18	-	.18	.18	.19	.16	.13	.13	-	.16	-	-	-	.18	.13	



**Table 1-5. Fuels - All Housing Units**

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total housing units	Seasonal	Year-round										New construction 4 yrs	Mobile homes	
			Occupied			Vacant									
			Total	Owner	Renter	Total	For rent	Rental vacancy rate	For sale only	Rented or sold	Occasional use/ URE	Other vacant			
<b>Total</b> .....	<b>895.0</b>	<b>1.3</b>	<b>893.8</b>	<b>834.4</b>	<b>501.7</b>	<b>332.6</b>	<b>59.2</b>	<b>31.3</b>	<b>8.6</b>	<b>11.0</b>	<b>6.4</b>	<b>8.1</b>	<b>2.4</b>	<b>89.0</b>	<b>32.0</b>
<b>Main House Heating Fuel</b>															
Housing units with heating fuel.....	891.6	1.3	890.3	831.8	500.6	331.2	58.5	31.3	8.6	11.0	6.4	7.5	2.2	89.0	32.0
Electricity.....	174.2	.4	173.8	158.7	63.4	95.3	15.0	8.8	8.4	2.4	1.4	1.7	.8	25.5	1.5
Piped gas.....	679.3	.9	678.4	639.5	418.6	221.0	38.8	19.1	7.9	7.9	4.9	5.8	1.3	56.5	29.8
Bottled gas.....	3.6	-	3.6	3.6	2.9	.7	-	-	-	-	-	-	-	.4	.2
Fuel oil.....	13.2	-	13.2	11.5	3.2	8.3	1.7	1.6	15.9	.2	-	-	-	-	-
Kerosene or other liquid fuel.....	.2	-	.2	.2	.2	-	-	-	-	-	-	-	-	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	18.5	-	18.5	16.8	12.3	4.5	1.7	1.1	19.4	.4	-	-	.2	6.1	.5
Solar energy.....	.5	-	.5	.5	-	.5	-	-	-	-	-	-	-	-	-
Other.....	2.1	-	2.1	.9	-	.9	1.2	.8	47.5	.2	.2	-	-	.6	-
<b>Other House Heating Fuels</b>															
With other heating fuels <sup>1</sup> .....	...	...	...	82.7	66.3	16.5	...	...	...	...	...	...	...	7.6	2.1
Electricity.....	...	...	...	23.8	18.2	5.6	...	...	...	...	...	...	...	1.5	1.5
Piped gas.....	...	...	...	1.8	.5	1.3	...	...	...	...	...	...	...	.2	-
Bottled gas.....	...	...	...	-	-	-	...	...	...	...	...	...	...	-	-
Fuel oil.....	...	...	...	-	-	-	...	...	...	...	...	...	...	-	-
Kerosene or other liquid fuel.....	...	...	...	-	-	-	...	...	...	...	...	...	...	-	-
Coal or coke.....	...	...	...	-	-	-	...	...	...	...	...	...	...	-	-
Wood.....	...	...	...	55.9	47.6	8.3	...	...	...	...	...	...	...	5.6	.5
Solar energy.....	...	...	...	2.0	2.0	-	...	...	...	...	...	...	...	-	-
Other.....	...	...	...	3.2	1.8	1.4	...	...	...	...	...	...	...	.5	-
Not reported.....	...	...	...	7.1	4.0	3.0	...	...	...	...	...	...	...	3.8	.3
<b>Cooking Fuel</b>															
With cooking fuel.....	893.2	1.3	891.9	833.8	501.5	332.3	58.1	31.2	8.5	10.7	6.0	8.1	2.2	88.8	32.0
Electricity.....	354.0	.7	353.2	328.2	202.9	125.3	25.0	14.9	10.6	3.7	1.5	3.6	1.3	37.3	1.7
Gas.....	538.3	.6	537.7	504.6	297.8	206.8	33.1	16.3	7.2	7.0	4.5	4.5	.9	51.5	30.4
Kerosene or other liquid fuel.....	.2	-	.2	.2	.2	-	-	-	-	-	-	-	-	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solar energy.....	8.6	-	8.6	8.3	3.8	4.5	.3	.2	3.4	-	-	.2	-	.4	-
Other.....	.8	-	.8	.8	.6	.2	-	-	-	-	-	-	-	-	-
<b>Water Heating Fuel</b>															
With hot piped water.....	895.0	1.3	893.6	834.4	501.7	332.6	59.2	31.3	8.6	11.0	6.4	8.1	2.4	89.0	32.0
Electricity.....	115.4	.4	114.9	105.6	42.8	62.7	9.4	4.5	6.6	1.8	1.0	1.6	.6	9.3	.5
Gas.....	767.0	.9	766.1	717.3	454.5	262.9	48.8	25.9	8.9	9.2	5.4	6.4	1.8	79.1	31.5
Fuel oil.....	.4	-	.4	.4	.2	.2	-	-	-	-	-	-	-	-	-
Kerosene or other liquid fuel.....	.2	-	.2	.2	.2	-	-	-	-	-	-	-	-	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solar energy.....	8.6	-	8.6	8.3	3.8	4.5	.3	.2	3.4	-	-	.2	-	.4	-
Other.....	3.4	-	3.4	2.6	.2	2.4	.8	.8	25.0	-	-	-	-	.2	-
<b>Central Air Conditioning Fuel</b>															
With central air conditioning.....	339.3	-	339.3	319.5	221.3	98.2	19.8	7.7	7.3	5.8	3.4	2.1	.7	72.2	11.7
Electricity.....	293.3	-	293.3	275.1	187.8	87.3	18.2	7.5	7.9	5.4	3.1	1.7	.6	66.9	8.9
Gas.....	46.0	-	46.0	44.4	33.5	10.9	1.6	.2	1.7	.5	.4	.4	.2	5.4	2.8
Other.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Clothes Dryer Fuel</b>															
With clothes dryer.....	557.8	.6	557.1	547.6	446.0	101.6	9.5	2.4	2.3	2.3	.2	4.7	-	56.7	21.2
Electricity.....	177.2	.2	177.0	174.3	134.2	40.1	2.7	.6	1.5	.7	-	1.3	-	17.8	4.2
Gas.....	379.6	.5	379.2	372.3	311.2	61.1	6.8	1.8	2.8	1.6	.2	3.3	-	38.7	16.8
Other.....	1.0	-	1.0	1.0	.6	.4	-	-	-	-	-	-	-	.2	.1
<b>Units Using Each Fuel<sup>1</sup></b>															
Electricity.....	876.3	.7	875.6	834.2	501.7	332.4	41.4	31.3	8.6	3.4	2.7	4.0	-	85.2	30.2
All-electric units.....	84.4	.4	84.0	76.3	30.2	46.1	7.7	3.6	7.2	1.2	1.0	1.4	.6	6.2	2.0
Gas.....	791.0	.5	790.5	754.2	470.0	284.2	36.4	27.5	8.8	3.3	2.3	3.2	-	79.9	30.0
Fuel oil.....	18.2	-	18.2	14.3	5.3	9.0	3.9	3.7	28.8	.2	-	-	-	.4	.2
Kerosene or other liquid fuel.....	.2	-	.2	.2	.2	-	-	-	-	-	-	-	-	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	74.3	-	74.3	72.7	59.9	12.8	1.7	1.1	7.8	.4	-	-	.2	11.7	1.0
Solar energy.....	10.4	-	10.4	10.0	5.6	4.5	.3	.2	3.4	-	-	.2	-	.4	-
Other.....	8.7	-	8.7	7.1	2.6	4.5	1.5	1.1	20.2	.2	.2	-	-	1.3	-

<sup>1</sup>Figures may not add to total because more than one category may apply to a unit.







Table 1-7. **Financial Characteristics - All Housing Units—Con.**

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total housing units	Seasonal	Year-round										New construction 4 yrs	Mobile homes		
			Total	Occupied			Vacant									
				Total	Owner	Renter	Total	For rent	Rental vacancy rate	For sale only	Rented or sold	Occasional use/URE			Other vacant	
<b>OWNER HOUSING UNITS—Con.</b>																
<b>Value<sup>2</sup></b>																
Less than \$10,000 .....	...	...	...	...	1.6	...	...	...	...	...	...	...	...	...	2	.4
\$10,000 to \$19,999 .....	...	...	...	...	2.0	...	...	...	...	...	.5	...	...	...	-	2.3
\$20,000 to \$29,999 .....	...	...	...	...	4.1	...	...	...	...	...	-	...	...	...	.4	1.0
\$30,000 to \$39,999 .....	...	...	...	...	8.9	...	...	...	...	...	-	...	...	...	.5	5.4
\$40,000 to \$49,999 .....	...	...	...	...	6.1	...	...	...	...	...	-	...	2	...	.4	4.2
\$50,000 to \$59,999 .....	...	...	...	...	5.7	...	...	...	...	...	.2	...	-	...	2	2.5
\$60,000 to \$69,999 .....	...	...	...	...	7.6	...	...	...	...	...	-	...	-	...	-	3.6
\$70,000 to \$79,999 .....	...	...	...	...	6.8	...	...	...	...	...	1.7	...	-	...	.7	3.8
\$80,000 to \$99,999 .....	...	...	...	...	11.1	...	...	...	...	...	-	...	-	...	-	4.8
\$100,000 to \$119,999 .....	...	...	...	...	11.3	...	...	...	...	...	.2	...	-	...	1.2	.5
\$120,000 to \$149,999 .....	...	...	...	...	25.2	...	...	...	...	...	.9	...	-	...	2.6	.7
\$150,000 to \$199,999 .....	...	...	...	...	73.7	...	...	...	...	...	1.1	1.0	...	...	6.5	.3
\$200,000 to \$249,999 .....	...	...	...	...	103.0	...	...	...	...	...	3.0	.8	...	...	9.2	.2
\$250,000 to \$299,999 .....	...	...	...	...	75.5	...	...	...	...	...	.5	1.2	...	...	4.4	-
\$300,000 or more .....	...	...	...	...	159.2	...	...	...	...	...	2.9	1.3	...	...	22.5	-
Time shared units .....	...	...	...	...	...	...	...	...	...	...	-	-	...	...	-	-
<b>Median</b> .....	...	...	...	...	<b>242 144</b>	...	...	...	...	...	<b>214 888</b>	...	...	...	<b>277 694</b>	<b>56 180</b>
<b>Other Activities on Property<sup>3</sup></b>																
Commercial establishment .....	...	...	...	...	3.4	...	...	...	...	...	-	-	...	...	-	-
Medical or dental office .....	...	...	...	...	3.1	...	...	...	...	...	-	.2	...	...	-	-
Neither .....	...	...	...	...	495.9	...	...	...	...	...	11.0	4.4	...	...	48.9	29.7

<sup>1</sup>Rent asked for vacant units.  
<sup>2</sup>Sales price for units that are for sale; purchase price for units sold but not yet occupied.  
<sup>3</sup>Figures may not add to total because more than one category may apply to a unit.

**Table 2-1. Introductory Characteristics - Occupied Units**

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total occupied units	Tenure		Housing unit characteristics				Household characteristics					Selected subareas <sup>1</sup>		
		Owner	Renter	New construction 4 yrs	Mobile homes	Physical problems		Black	Hispanic	Elderly (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
						Severe	Moderate								
<b>Total</b> .....	<b>834.4</b>	<b>501.7</b>	<b>332.6</b>	<b>78.3</b>	<b>29.9</b>	<b>10.5</b>	<b>23.4</b>	<b>13.3</b>	<b>121.9</b>	<b>141.1</b>	<b>188.9</b>	<b>53.7</b>	<b>84.1</b>	<b>79.0</b>	<b>55.0</b>
<b>Tenure</b>															
Owner occupied.....	501.7	501.7	...	43.1	28.1	5.8	6.6	5.5	46.3	117.2	48.4	21.4	42.6	35.0	38.2
Percent of all occupied.....	60.1	100.0	...	55.0	94.0	55.5	28.4	41.6	38.0	83.0	25.6	39.8	50.7	44.3	69.5
Renter occupied.....	332.6	...	332.6	35.2	1.8	4.7	16.8	7.8	75.7	23.9	140.5	32.3	41.5	44.0	16.8
<b>Race and Origin</b>															
White.....	731.3	443.6	287.7	64.8	28.7	8.8	19.7	...	107.2	136.2	157.4	43.3	71.3	66.7	43.1
Non-Hispanic.....	624.1	402.4	221.7	58.0	27.9	6.8	12.6	...	...	128.6	124.4	28.3	58.8	32.2	38.9
Hispanic.....	107.2	41.2	66.1	6.8	...	2.0	7.1	...	107.2	7.6	33.0	15.0	14.5	34.5	4.2
Black.....	13.3	5.5	7.8	1.3	...	...	1.7	13.3	2	7	5.6	1.3	1.4	2.1	1.6
Other.....	89.7	52.6	37.1	12.2	...	1.8	2.0	...	14.5	4.1	25.9	9.1	11.5	10.1	10.2
Total Hispanic.....	121.9	46.3	75.7	8.9	1.6	2.3	8.0	2	121.9	7.8	39.3	17.0	17.4	37.0	6.5
<b>Units in Structure</b>															
1, detached.....	427.1	362.2	64.9	28.3	...	5.6	8.5	3.0	51.7	73.1	47.1	21.6	42.6	34.9	31.7
1, attached.....	64.7	46.6	18.1	9.6	...	3	8	1.0	4.8	12.3	14.2	2.7	2.2	3.2	3.9
2 to 4.....	110.4	26.3	84.1	5.8	...	1.0	4.4	2.0	24.8	14.2	37.1	10.6	13.9	13.2	5.2
5 to 9.....	79.5	22.2	57.3	12.1	...	9	2.7	2.8	13.8	8.1	33.8	6.2	9.0	7.3	7.9
10 to 19.....	67.3	10.9	56.4	12.8	...	1.0	3.4	1.6	13.3	8.1	29.0	4.3	6.7	10.5	3.0
20 to 49.....	37.8	2.5	35.3	3.8	...	6	2.3	1.8	8.7	4.1	17.1	5.0	4.3	4.9	1.5
50 or more.....	17.7	1.1	16.7	4.2	...	6	4	9	3.3	4.0	7.2	2.0	2.6	2.2	3
Mobile home or trailer.....	29.9	28.1	1.8	1.6	29.9	5	1.0	2	1.6	17.2	3.4	1.2	2.7	2.7	1.4
<b>Cooperatives and Condominiums</b>															
Cooperatives.....	16.2	15.2	1.0	...	2	...	...	...	2	14.8	1.7	1.8	2	2	4.0
Condominiums.....	99.0	74.9	24.0	16.6	...	2	9	3.3	8.3	17.0	26.4	4.2	3.1	7.9	4.1
<b>Year Structure Built<sup>2</sup></b>															
1990 to 1994.....	12.0	5.2	6.8	12.0	2	...	2	...	6	5	12.0	8	1.2	...	...
1985 to 1989.....	99.7	56.6	43.1	66.3	1.7	1.3	2.5	1.8	12.2	6.5	31.9	3.5	3.1	4.3	2.9
1980 to 1984.....	58.3	41.7	16.5	...	1.2	1.6	6	1.2	4.2	9.4	11.4	2.6	2.7	2.8	2.7
1975 to 1979.....	110.8	66.1	44.8	...	6.1	1.5	1.2	3.5	9.5	14.5	28.6	4.9	6.6	6.5	4.1
1970 to 1974.....	144.6	71.8	72.7	...	12.4	1.4	4.6	3.6	18.1	21.3	39.0	8.4	10.7	14.2	9.1
1960 to 1969.....	274.3	177.1	97.3	...	8.0	2.6	8.1	2.2	42.1	55.5	46.3	19.4	32.7	26.6	25.8
1950 to 1959.....	93.4	61.1	32.3	...	3	1.1	4.6	5	21.8	23.4	13.5	8.9	24.3	14.3	8.5
1940 to 1949.....	22.6	12.7	9.9	...	...	7	5	2	6.5	6.1	2.6	3.8	1.0	5.1	1.3
1930 to 1939.....	11.0	5.4	5.6	...	...	3	5	2	4.1	3.0	1.6	8	7	2.9	4
1920 to 1929.....	4.3	2.5	1.8	...	...	...	4	2	1.5	7	8	3	5	1.0	2
1919 or earlier.....	3.4	1.6	1.8	...	...	...	2	...	1.2	2	1.1	...	5	1.2	...
Median.....	1970	1969	1971	...	1973	1972	1967	1975	1966	1967	1974	1967	1965	1966	1967
<b>Statistical Areas</b>															
Current units, in 1970 boundaries of SMSA.....	834.4	501.7	332.6	78.3	29.9	10.5	23.4	13.3	121.9	141.1	188.9	53.7	84.1	79.0	55.0
1970 central city(s).....	218.0	115.8	102.2	8.9	6.8	4.3	8.8	5.1	60.9	34.5	51.6	20.1	84.1	79.0	55.0
1970 balance of SMSA.....	616.3	386.0	230.4	69.4	23.1	6.3	14.6	8.1	61.0	106.6	137.3	33.6	...	...	...
Current units, in 1983 boundaries of MSA.....	834.4	501.7	332.6	78.3	29.9	10.5	23.4	13.3	121.9	141.1	188.9	53.7	84.1	79.0	55.0
1983 central city(s).....	163.0	77.6	85.5	7.3	5.4	3.0	7.6	3.5	54.4	22.5	44.7	14.9	84.1	79.0	...
1983 balance of MSA.....	671.3	424.2	247.2	71.0	24.5	7.5	15.9	9.8	67.6	118.6	144.2	38.8	...	...	55.0
<b>Selected Geographic Areas</b>															
Orange County, California.....	834.4	501.7	332.6	78.3	29.9	10.5	23.4	13.3	121.9	141.1	188.9	53.7	84.1	79.0	55.0

<sup>1</sup>See back cover for details.

<sup>2</sup>For mobile home, oldest category is 1939 or earlier.







**Table 2-5. Fuels - Occupied Units**

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total occupied units	Tenure		Housing unit characteristics				Household characteristics					Selected subareas <sup>1</sup>		
		Owner	Renter	New construction 4 yrs	Mobile homes	Physical problems		Black	Hispanic	Elderly (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
						Severe	Moderate								
<b>Total</b> .....	<b>834.4</b>	<b>501.7</b>	<b>332.6</b>	<b>78.3</b>	<b>29.9</b>	<b>10.5</b>	<b>23.4</b>	<b>13.3</b>	<b>121.9</b>	<b>141.1</b>	<b>188.9</b>	<b>53.7</b>	<b>84.1</b>	<b>79.0</b>	<b>55.0</b>
<b>Main House Heating Fuel</b>															
Housing units with heating fuel.....	831.8	500.6	331.2	78.3	29.9	10.5	23.3	13.3	121.3	140.9	188.7	53.7	84.1	78.5	54.8
Electricity.....	158.7	63.4	95.3	23.4	1.2	3.0	5.0	3.5	21.2	35.5	54.3	10.3	13.4	12.4	10.2
Piped gas.....	639.5	418.6	221.0	49.2	27.9	7.2	17.0	8.9	96.9	100.3	124.9	41.2	68.6	64.7	41.4
Bottled gas.....	3.6	2.9	.7	.4	.2	.2	.2	.4	.2	.6	1.0	.4	.4	.4	.2
Fuel oil.....	11.5	3.2	8.3	-	-	.2	.2	-	2.0	1.8	3.6	1.0	.6	1.4	2.1
Kerosene or other liquid fuel.....	.2	.2	-	-	-	-	-	-	-	-	-	-	.2	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	16.8	12.3	4.5	5.3	.5	-	.9	.5	1.0	2.4	4.6	.9	.8	-	1.1
Solar energy.....	.5	-	.5	-	-	-	-	-	-	-	.2	-	-	-	-
Other.....	.9	-	.9	-	-	.2	-	-	-	.4	.2	.2	-	-	-
<b>Other House Heating Fuels</b>															
With other heating fuels <sup>2</sup> .....	82.7	66.3	16.5	7.6	2.1	.4	1.4	1.5	8.5	12.3	11.3	3.1	6.7	3.4	5.6
Electricity.....	23.8	18.2	5.6	1.5	1.5	.2	.2	.3	2.3	6.6	3.5	1.7	1.5	.5	1.7
Piped gas.....	1.8	.5	1.3	.2	-	-	-	-	.7	.2	.4	-	-	-	.2
Bottled gas.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fuel oil.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kerosene or other liquid fuel.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	55.9	47.6	8.3	5.6	.5	.2	1.0	1.1	5.7	5.6	6.9	1.3	4.8	2.9	3.9
Solar energy.....	2.0	2.0	-	-	-	-	.2	-	.2	.2	-	-	-	-	-
Other.....	3.2	1.8	1.4	.5	-	-	-	-	.2	.4	.9	.2	.5	-	-
Not reported.....	7.1	4.0	3.0	3.8	.3	-	.7	-	.4	1.5	2.8	.3	.7	-	-
<b>Cooking Fuel</b>															
With cooking fuel.....	833.8	501.5	332.3	78.3	29.9	10.5	22.8	13.1	121.8	141.1	188.5	53.5	84.1	79.0	54.8
Electricity.....	328.2	202.9	125.3	32.9	1.7	5.5	7.1	5.7	25.2	68.1	72.2	17.5	22.3	18.0	25.6
Piped gas.....	501.2	295.3	205.9	45.0	28.0	4.9	15.6	7.0	96.3	72.6	115.4	35.8	61.1	61.0	29.2
Bottled gas.....	3.4	2.4	1.0	.4	.2	-	.2	.4	.2	.5	1.0	-	.4	-	-
Kerosene or other liquid fuel.....	.2	.2	-	-	-	-	-	-	-	-	-	-	.2	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solar energy.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other.....	.8	.6	.2	-	-	.2	-	-	-	-	-	.2	-	-	-
<b>Water Heating Fuel</b>															
With hot piped water.....	834.4	501.7	332.6	78.3	29.9	10.5	23.4	13.3	121.9	141.1	188.9	53.7	84.1	79.0	55.0
Electricity.....	105.6	42.8	62.7	9.1	.5	1.6	3.5	2.6	13.3	30.1	36.2	7.8	6.4	10.2	9.7
Piped gas.....	713.8	451.6	262.2	68.1	29.1	8.8	19.2	9.8	107.9	109.8	148.8	45.6	74.7	68.8	45.3
Bottled gas.....	3.6	2.9	.7	.4	.2	-	.2	.4	.2	.6	1.0	-	.2	-	-
Fuel oil.....	.4	.2	.2	-	-	-	.2	-	-	-	-	-	.2	-	-
Kerosene or other liquid fuel.....	.2	.2	-	-	-	-	-	-	-	-	-	-	.2	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Solar energy.....	8.3	3.8	4.5	.4	-	-	.2	.3	.3	.4	2.4	-	1.9	-	-
Other.....	2.6	.2	2.4	.2	-	.2	-	.2	.2	.2	.6	.3	.5	-	-
<b>Central Air Conditioning Fuel</b>															
With central air conditioning.....	319.5	221.3	98.2	63.2	11.3	5.0	6.9	4.7	29.1	46.1	72.9	14.0	30.3	18.4	17.3
Electricity.....	275.1	187.8	87.3	58.8	8.7	4.5	5.5	4.6	24.5	38.8	64.7	11.5	25.6	14.8	13.4
Piped gas.....	44.4	33.5	10.9	4.4	2.6	.5	1.4	.2	4.6	7.3	8.2	2.5	4.7	3.6	3.9
Other.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Clothes Dryer Fuel</b>															
With clothes dryer.....	547.6	446.0	101.6	55.4	20.3	6.4	10.3	6.9	49.4	90.2	78.0	24.6	46.8	34.0	40.0
Electricity.....	174.3	134.2	40.1	17.8	4.2	2.0	3.3	2.3	10.7	34.5	25.4	9.5	14.5	8.2	16.2
Piped gas.....	369.9	309.0	60.9	37.0	15.9	4.1	6.8	4.6	38.6	55.4	51.9	14.7	31.8	25.9	23.6
Other.....	3.4	2.8	.6	.7	.1	.2	.2	-	.2	.3	.6	.4	.4	-	.2
<b>Units Using Each Fuel<sup>2</sup></b>															
Electricity.....	834.2	501.7	332.4	78.3	29.9	10.4	23.4	13.3	121.9	141.1	188.9	53.5	84.1	79.0	55.0
All-electric units.....	76.3	30.2	46.1	6.2	.2	1.4	2.7	1.7	8.8	26.6	25.6	6.1	5.4	7.0	6.8
Piped gas.....	749.9	466.7	283.3	72.6	29.4	9.2	20.5	11.6	113.0	111.9	161.5	47.8	77.3	72.2	47.7
Bottled gas.....	4.2	3.3	1.0	.4	.2	-	.2	.4	.2	.6	1.0	-	.6	-	-
Fuel oil.....	14.3	5.3	9.0	-	.2	.2	.4	-	2.4	2.1	4.1	1.0	.9	1.4	2.3
Kerosene or other liquid fuel.....	.2	.2	-	-	-	-	-	-	-	-	-	-	.2	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	72.7	59.9	12.8	10.9	1.0	.2	1.9	1.6	6.7	8.0	11.4	2.2	5.6	2.9	5.0
Solar energy.....	10.0	5.6	4.5	.4	-	-	.2	.3	.6	.7	2.4	-	1.9	-	-
Other.....	7.1	2.6	4.5	.7	-	.2	-	.2	.3	.9	1.7	.5	1.1	-	-

<sup>1</sup>See back cover for details.

<sup>2</sup>Figures may not add to total because more than one category may apply to a unit.













Table 2-10. Previous Unit of Recent Movers - Occupied Units

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total occupied units	Tenure		Housing unit characteristics				Household characteristics					Selected subareas <sup>1</sup>		
		Owner	Renter	New construction 4 yrs	Mobile homes	Physical problems		Black	Hispanic	Elderly (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
						Severe	Mod-erate								
<b>UNITS WHERE HOUSEHOLDER MOVED DURING PAST YEAR</b>															
Total .....	188.9	48.4	140.5	36.5	3.4	2.4	7.9	5.6	39.3	7.2	188.9	16.7	22.6	22.1	6.9
<b>Location of Previous Unit</b>															
Inside same (P)MSA .....	137.0	36.9	100.2	25.5	2.5	1.7	5.9	3.2	32.9	4.3	137.0	12.2	16.2	19.0	5.2
In central city(s) .....	30.5	4.8	25.7	2.4	.4	1.1	2.5	1.7	16.0	.4	30.5	4.7	9.8	13.2	.8
Not in central city(s) .....	106.5	32.1	74.4	23.0	2.1	.6	3.4	1.6	16.9	3.9	106.5	7.5	6.4	5.8	4.4
Inside different (P)MSA in same state .....	29.3	7.3	22.0	6.6	.5	.6	1.4	1.1	4.5	1.5	29.3	2.4	4.3	1.6	1.3
In central city(s) .....	9.7	2.3	7.4	2.9	.2	.4	.9	.3	1.7	1.1	9.7	.5	1.2	.2	.7
Not in central city(s) .....	19.6	5.0	14.6	3.8	.3	.2	.5	.8	2.9	.4	19.6	1.9	3.1	1.4	.5
Inside different (P)MSA in different state .....	14.4	2.9	11.4	3.1	.2	-	.5	.8	1.0	.7	14.4	1.2	.6	.7	-
In central city(s) .....	6.5	1.3	5.3	1.8	-	-	.5	.4	.6	.7	6.5	1.0	.2	.6	-
Not in central city(s) .....	7.8	1.7	6.1	1.3	.2	-	-	.4	.4	-	7.8	.2	.4	.2	-
Outside any metropolitan area .....	4.1	.8	3.3	.7	.2	.2	-	.3	-	.7	4.1	.4	1.1	.2	.2
Same state .....	.6	.2	.4	-	.2	-	-	-	-	.4	.6	-	.2	-	.2
Different state .....	3.5	.6	2.9	.7	-	.2	-	.3	-	.2	3.5	.4	1.0	.2	-
Different nation .....	4.1	.5	3.6	.7	-	-	-	.2	.8	-	4.1	.5	.3	.6	.2
<b>Structure Type of Previous Residence</b>															
Moved from within United States .....	184.8	47.9	136.8	35.9	3.4	2.4	7.9	5.5	38.4	7.2	184.8	16.2	22.3	21.5	6.7
House .....	81.0	28.3	52.8	16.0	2.5	1.5	2.7	2.0	14.8	2.6	81.0	6.2	7.9	9.3	3.3
Apartment .....	92.8	16.1	76.7	18.5	.7	.8	4.6	3.1	22.2	3.2	92.8	9.3	13.3	11.7	2.8
Mobile home .....	1.8	.6	1.2	-	.2	-	.2	-	.5	.5	1.8	.2	.2	.2	.5
Other .....	9.2	3.0	6.2	1.3	-	.2	.4	.4	.9	.9	9.2	.5	.9	.3	.2
<b>Tenure of Previous Residence</b>															
House, apt., mobile home in United States .....	175.6	45.0	130.6	34.5	3.4	2.2	7.5	5.1	37.6	6.3	175.6	15.6	21.4	21.1	6.6
Owner occupied .....	47.6	23.7	23.9	9.6	1.4	.7	.9	.7	5.3	2.5	47.6	2.5	4.5	2.6	1.5
Renter occupied .....	128.0	21.3	106.7	24.9	1.9	1.5	6.6	4.4	32.3	3.8	128.0	13.1	16.8	18.6	5.1
<b>Persons - Previous Residence</b>															
House, apt., mobile home in United States .....	175.6	45.0	130.6	34.5	3.4	2.2	7.5	5.1	37.6	6.3	175.6	15.6	21.4	21.1	6.6
1 person .....	18.3	4.2	14.1	3.8	-	.4	1.1	.9	2.1	1.8	18.3	.7	1.8	1.2	1.0
2 persons .....	48.3	12.2	36.2	13.4	1.4	.4	1.2	.7	5.0	2.7	48.3	2.3	3.7	3.8	1.6
3 persons .....	40.7	11.6	29.1	7.9	1.4	.4	1.7	1.3	7.8	.4	40.7	3.2	5.9	3.4	.7
4 persons .....	29.1	8.2	20.9	5.1	-	.3	1.3	1.0	7.8	.4	29.1	3.2	4.4	3.8	1.0
5 persons .....	12.8	3.3	9.4	1.1	.5	.3	.7	.5	3.8	-	12.8	1.1	1.6	2.0	.8
6 persons .....	9.2	1.1	8.1	1.2	-	-	.2	-	4.6	.2	9.2	1.4	2.1	2.9	.4
7 persons or more .....	7.6	1.2	6.5	.4	-	.4	.6	.3	4.0	-	7.6	1.8	1.2	3.1	.7
Not reported .....	9.5	3.2	6.3	1.6	.2	-	.8	.4	2.5	.8	9.5	2.0	.8	.9	.3
Median .....	2.9	2.9	2.9	2.4	...	...	3.1	...	3.8	1.8	2.9	3.7	3.3	3.9	3.2
<b>Previous Home Owned or Rented by Someone Who Moved Here</b>															
House, apt., mobile home in United States .....	175.6	45.0	130.6	34.5	3.4	2.2	7.5	5.1	37.6	6.3	175.6	15.6	21.4	21.1	6.6
Owned or rented by a mover .....	136.9	38.5	98.4	26.5	3.2	1.7	5.5	3.5	27.6	5.3	136.9	10.6	14.8	16.1	4.5
Owned or rented by other .....	31.9	4.4	27.5	6.6	.2	.5	1.2	1.2	8.4	.4	31.9	3.6	6.4	4.2	1.5
By a relative .....	18.3	2.9	15.4	2.8	.2	.5	.6	.5	4.6	.2	18.3	2.2	4.2	1.4	1.0
By a nonrelative .....	10.9	1.0	9.9	3.2	-	-	.6	.7	3.2	.2	10.9	.9	2.2	2.2	.5
Not reported .....	2.7	.5	2.2	.7	-	-	-	-	.6	-	2.7	.4	-	.6	-
Not reported .....	6.9	2.2	4.7	1.3	-	-	.8	.4	1.5	.6	6.9	1.5	.2	.8	.5
<b>Change in Housing Costs</b>															
House, apt., mobile home in United States .....	175.6	45.0	130.6	34.5	3.4	2.2	7.5	5.1	37.6	6.3	175.6	15.6	21.4	21.1	6.6
Increased with move .....	115.4	31.3	84.1	24.0	1.6	2.1	4.5	4.2	23.1	3.5	115.4	11.0	13.5	13.2	4.4
Stayed about the same .....	26.0	6.5	19.4	4.9	.4	-	1.3	.3	7.3	1.4	26.0	1.2	3.7	4.1	1.3
Decreased .....	27.7	4.4	23.2	4.3	1.1	.2	.9	.4	6.1	.8	27.7	1.9	4.0	3.5	.7
Don't know .....	.6	.4	.2	.2	-	-	-	-	-	-	.6	-	-	-	-
Not reported .....	5.9	2.3	3.6	1.1	.3	-	.8	.2	1.2	.6	5.9	1.5	.2	.4	.2

<sup>1</sup>See back cover for details.











Table 2-13. **Selected Housing Costs - Occupied Units—Con.**

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total occupied units	Tenure		Housing unit characteristics				Household characteristics					Selected subareas <sup>1</sup>		
		Owner	Renter	New construction 4 yrs	Mobile homes	Physical problems		Black	Hispanic	Elderly (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
						Severe	Moderate								
<b>OWNER OCCUPIED UNITS—Con.</b>															
<b>Other Housing Costs Per Month</b>															
Homeowner association fee paid .....	69.5	69.5	...	12.8	...	.2	.7	2.3	5.1	12.8	14.3	1.6	2.0	4.4	3.4
<b>Median</b> .....	<b>135</b>	<b>135</b>	...	<b>129</b>	...	...	...	...	...	<b>180</b>	<b>135</b>	...	...	...	...
Mobile home park fee paid .....	3.5	3.5	...	—	3.5	—	.2	.2	.2	1.6	.2	—	.6	—	.5
<b>Median</b> .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Land rent fee paid .....	1.7	1.7	...	—	—	.2	—	—	—	—	—	—	—	—	—
<b>Median</b> .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

<sup>1</sup>See back cover for details.

<sup>2</sup>May reflect a temporary situation, living off savings, or response error.

<sup>3</sup>Beginning with 1989 this item uses current income in its calculation. See appendix A.



Table 2-17. **Rooms in Unit by Household and Unit Size, Income, and Costs - Occupied Units—**  
**Con.**

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Occupied units												
	Total	Rooms					Median	Bedrooms					Median
		1 and 2 rooms	3 and 4 rooms	5 and 6 rooms	7 rooms or more	No rooms		1 room	2 rooms	3 rooms	4 rooms or more		
<b>OWNER OCCUPIED UNITS</b>													
<b>Total</b> .....	501.7	.6	55.7	209.0	236.5	6.4	.6	19.2	114.0	198.7	169.2	3.1	
<b>Value</b>													
Less than \$10,000.....	1.6	-	1.0	.2	.4	...	-	.4	.6	.4	.2	...	
\$10,000 to \$19,999.....	2.0	-	1.4	.5	.1	...	-	.9	.9	.2	-	...	
\$20,000 to \$29,999.....	4.1	-	.8	1.7	1.6	...	-	.7	.8	2.0	.7	...	
\$30,000 to \$39,999.....	8.9	.2	3.0	3.9	1.8	5.2	.2	1.2	4.7	.9	1.8	2.1	
\$40,000 to \$49,999.....	6.1	-	2.5	2.4	1.2	4.9	-	.7	4.5	.3	.6	2.0	
\$50,000 to \$59,999.....	5.7	-	2.4	2.6	.6	4.8	-	.9	3.7	.6	.4	2.0	
\$60,000 to \$69,999.....	7.6	.2	2.2	4.8	.4	5.1	.2	.7	6.1	.4	.2	2.0	
\$70,000 to \$79,999.....	6.8	-	2.6	3.6	.6	5.0	-	.8	5.3	.2	.4	2.0	
\$80,000 to \$89,999.....	11.1	-	3.5	4.8	2.8	5.4	-	1.3	7.8	1.3	.7	2.0	
\$100,000 to \$119,999.....	11.3	.2	5.8	4.6	.7	4.4	.2	2.5	7.0	1.1	.5	1.9	
\$120,000 to \$149,999.....	25.2	-	10.5	12.7	2.0	4.8	-	3.2	15.1	6.2	.7	2.1	
\$150,000 to \$199,999.....	73.7	-	8.6	51.3	13.8	5.6	-	1.6	20.3	42.9	8.9	2.8	
\$200,000 to \$249,999.....	103.0	-	5.9	56.8	40.3	6.1	-	1.1	17.9	56.6	27.5	3.1	
\$250,000 to \$299,999.....	75.5	-	2.1	27.0	46.3	6.5+	-	1.1	6.0	36.4	32.0	3.3	
\$300,000 or more.....	159.2	-	3.4	32.1	123.7	6.5+	-	2.0	13.5	49.2	84.6	3.5+	
<b>Median</b> .....	242 144	...	127 554	210 035	300K+	...	...	114 843	151 388	237 848	300K+	...	

Table 2-18. Square Footage by Household and Unit Size, Income, and Costs - Occupied Units

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Size of occupied detached 1-family homes and 1-family mobile homes								Median
	Total	Less than 500 square feet	500 to 999 square feet	1000 to 1499 square feet	1500 to 1999 square feet	2000 to 2499 square feet	2500 square feet or more	Not reported	
<b>Total</b> .....	<b>456.2</b>	<b>1.9</b>	<b>22.6</b>	<b>99.1</b>	<b>111.7</b>	<b>67.9</b>	<b>68.4</b>	<b>84.6</b>	<b>1 779</b>
<b>Persons</b>									
1 person.....	53.3	.7	6.4	16.9	11.5	4.5	3.4	9.9	1 431
2 persons.....	145.7	.7	7.7	33.7	36.0	22.3	16.9	28.3	1 730
3 persons.....	89.6	-	3.4	14.4	23.2	15.8	15.3	17.5	1 893
4 persons.....	92.9	.4	2.1	15.3	26.9	15.1	19.8	13.3	1 909
5 persons.....	41.4	-	1.2	10.5	7.8	8.0	6.5	7.6	1 840
6 persons.....	16.1	-	.9	2.2	3.1	1.4	3.7	4.6	1 913
7 persons or more.....	17.2	-	.9	6.1	3.2	.8	2.8	3.4	1 491
Median.....	2.8	...	2.1	2.5	2.9	3.0	3.4	2.7	...
<b>Rooms</b>									
1 room.....	-	-	-	-	-	-	-	-	-
2 rooms.....	.2	.2	-	-	-	-	-	-	-
3 rooms.....	4.7	.5	2.8	-	.2	-	-	1.2	-
4 rooms.....	22.9	.4	9.5	6.7	1.4	.1	-	4.8	955
5 rooms.....	70.0	-	6.2	30.5	11.5	3.6	1.1	16.9	1 331
6 rooms.....	110.7	.2	1.9	40.9	34.7	7.2	2.2	23.7	1 509
7 rooms.....	107.5	-	2.1	15.5	42.7	18.8	9.8	18.5	1 815
8 rooms.....	89.6	.4	.2	4.6	19.3	28.8	23.5	12.8	2 241
9 rooms.....	33.3	-	-	.5	1.5	7.1	19.8	4.4	2500+
10 rooms or more.....	17.2	-	-	.3	.5	2.2	12.0	2.3	2500+
Median.....	6.7	...	4.4	5.8	6.7	7.6	8.4	6.3	...
<b>Bedrooms</b>									
None.....	.2	.2	-	-	-	-	-	-	-
1.....	7.7	.9	3.8	.2	.6	.2	.2	1.8	773
2.....	70.3	.2	13.7	27.1	12.1	1.9	1.6	13.7	1 266
3.....	196.8	.2	4.7	59.2	61.3	19.3	12.3	39.9	1 617
4 or more.....	181.2	.4	.4	12.6	37.7	46.5	54.4	29.2	2 268
Median.....	3.3	...	2.0	2.9	3.2	3.5+	3.5+	3.2	...
<b>Complete Bathrooms</b>									
None.....	.5	-	-	.2	-	-	.2	-	-
1.....	49.4	1.2	16.1	18.6	2.9	.5	.2	9.9	1 064
1 and one-half.....	46.5	.2	1.3	12.5	13.7	4.6	1.7	12.7	1 608
2 or more.....	359.8	.4	5.2	67.8	95.1	62.9	66.3	62.1	1 897
<b>Lot Size</b>									
Less than one-eighth acre.....	65.6	.2	5.6	21.2	15.4	6.4	5.4	11.3	1 504
One-eighth up to one-quarter acre.....	147.7	-	4.3	27.1	42.5	24.0	24.2	25.7	1 849
One-quarter up to one-half acre.....	40.3	-	.6	5.2	9.3	8.2	11.5	5.4	2 138
One-half up to one acre.....	9.0	-	.1	.6	2.4	1.6	3.5	.9	2 312
1 to 4 acres.....	4.6	-	.4	.2	.2	.7	1.9	1.1	...
5 to 9 acres.....	.4	-	-	-	.2	-	.2	-	...
10 acres or more.....	.9	-	-	-	.4	.2	.2	-	...
Don't know.....	171.6	1.4	10.4	40.9	36.0	25.2	21.5	36.2	1 708
Not reported.....	16.1	.3	1.2	3.8	5.1	1.7	-	4.0	1 573
Median.....	.19	...	.13	.16	.19	.20	.22	.18	...
<b>Income of Families and Primary Individuals</b>									
Less than \$5,000.....	12.0	-	.8	2.8	1.7	2.0	2.4	2.3	1 875
\$5,000 to \$9,999.....	15.7	.4	2.6	5.1	2.6	1.9	.2	3.0	1 338
\$10,000 to \$14,999.....	18.6	.7	3.3	6.4	3.1	.8	.4	3.9	1 261
\$15,000 to \$19,999.....	14.6	.2	2.5	3.4	2.2	1.6	.4	4.3	1 364
\$20,000 to \$24,999.....	20.9	-	2.2	8.0	3.7	1.2	.9	4.9	1 363
\$25,000 to \$29,999.....	35.8	.2	3.3	9.1	8.8	4.7	4.4	5.4	1 652
\$30,000 to \$34,999.....	24.4	-	2.2	8.4	5.5	2.1	1.2	4.9	1 448
\$35,000 to \$39,999.....	23.8	-	.6	5.6	8.0	2.3	1.2	6.2	1 664
\$40,000 to \$49,999.....	42.9	.2	1.3	11.3	10.3	6.1	5.9	7.9	1 730
\$50,000 to \$59,999.....	46.1	-	1.6	10.8	14.2	5.4	4.3	9.8	1 704
\$60,000 to \$79,999.....	79.8	.2	1.2	16.0	25.3	13.1	12.5	11.4	1 832
\$80,000 to \$99,999.....	42.0	-	.3	4.8	11.6	9.6	8.7	7.0	2 039
\$100,000 to \$119,999.....	27.3	-	-	4.4	6.1	6.5	5.8	4.5	2 071
\$120,000 or more.....	52.2	-	.7	3.1	8.6	10.7	20.0	9.1	2 425
Median.....	54 199	...	24 834	40 809	56 990	69 131	80 557	49 312	...
<b>Monthly Housing Costs</b>									
Less than \$100.....	5.0	.2	1.8	1.8	.3	-	-	.9	...
\$100 to \$199.....	24.7	-	1.1	9.4	6.2	.8	.2	7.0	1 414
\$200 to \$249.....	11.9	-	.7	3.6	2.7	1.3	.9	2.8	1 555
\$250 to \$299.....	13.1	.2	1.1	3.2	3.4	.7	1.1	3.4	1 548
\$300 to \$349.....	14.0	.2	1.1	3.5	3.3	1.6	1.5	2.8	1 622
\$350 to \$399.....	12.1	-	1.6	1.5	3.3	2.1	.9	2.7	1 746
\$400 to \$449.....	13.2	.3	.9	2.7	3.6	1.1	1.1	3.5	1 639
\$450 to \$499.....	12.3	-	.8	3.8	1.5	2.7	2.1	1.5	1 793
\$500 to \$599.....	16.6	.2	1.6	4.1	4.5	1.4	.5	4.4	1 529
\$600 to \$699.....	14.8	.6	.7	3.4	3.5	2.7	1.3	2.6	1 693
\$700 to \$799.....	18.3	-	1.7	4.0	3.0	3.0	1.4	5.3	1 644
\$800 to \$999.....	37.6	-	3.9	13.3	6.1	4.3	2.9	7.0	1 425
\$1,000 to \$1,249.....	45.7	-	2.1	15.7	12.5	4.8	3.4	7.2	1 558
\$1,250 to \$1,499.....	46.0	.2	.6	11.6	15.8	5.6	4.0	8.2	1 707
\$1,500 or more.....	119.1	-	1.8	10.0	28.6	27.5	35.0	16.2	2 201
No cash rent.....	2.9	-	.2	1.3	.2	.4	.2	.6	...
Mortgage payment not reported.....	48.8	-	1.1	6.4	13.2	7.9	11.9	8.3	1 986
Median (excludes no cash rent).....	1 047	...	616	874	1 156	1 399	1500+	825	...
<b>Median Monthly Housing Costs For Owners</b>									
Monthly costs including all mortgages plus maintenance costs.....	1 071	...	409	729	1 145	1 493	1500+	825	...
Monthly costs excluding 2nd and subsequent mortgages and maintenance costs.....	894	...	396	635	956	1 173	1500+	676	...

Table 2-18. **Square Footage by Household and Unit Size, Income, and Costs - Occupied Units**  
 - Con.

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Size of occupied detached 1-family homes and 1-family mobile homes								Median
	Total	Less than 500 square feet	500 to 999 square feet	1000 to 1499 square feet	1500 to 1999 square feet	2000 to 2499 square feet	2500 square feet or more	Not reported	
<b>OWNER OCCUPIED UNITS</b>									
<b>Total</b> .....	<b>389.5</b>	<b>1.5</b>	<b>14.5</b>	<b>76.7</b>	<b>98.2</b>	<b>62.1</b>	<b>64.4</b>	<b>72.1</b>	<b>1 836</b>
<b>Value</b>									
Less than \$10,000.....	1.1	.2	.3	-	.2	-	.4	-	...
\$10,000 to \$19,999.....	1.8	.2	1.2	.2	.1	-	-	-	...
\$20,000 to \$29,999.....	3.2	-	1.0	.4	1.6	-	-	.2	...
\$30,000 to \$39,999.....	7.4	.4	1.6	1.6	.9	1.1	.2	1.6	1 291
\$40,000 to \$49,999.....	4.3	-	1.0	2.2	-	.3	-	.9	...
\$50,000 to \$59,999.....	3.0	-	.6	1.6	.4	.1	-	.2	...
\$60,000 to \$69,999.....	4.1	-	.4	2.1	.9	.3	-	.5	...
\$70,000 to \$79,999.....	3.3	-	.2	2.0	.1	-	.4	.4	...
\$80,000 to \$89,999.....	6.6	-	.5	2.4	2.4	.1	.2	.9	1 486
\$100,000 to \$119,999.....	3.1	-	-	.8	.7	-	.5	1.2	...
\$120,000 to \$149,999.....	4.8	-	.5	2.1	.9	.2	-	1.0	...
\$150,000 to \$199,999.....	46.2	.2	3.1	21.7	8.7	1.7	1.4	11.5	1 348
\$200,000 to \$249,999.....	87.6	-	1.7	28.8	28.1	8.2	3.1	17.7	1 580
\$250,000 to \$299,999.....	67.2	.2	.6	5.7	30.2	13.5	4.1	12.9	1 841
\$300,000 or more.....	143.9	.4	1.9	5.1	22.7	36.6	54.1	23.1	2 414
<b>Median</b> .....	<b>262 124</b>	<b>-</b>	<b>149 212</b>	<b>202 208</b>	<b>256 415</b>	<b>300K +</b>	<b>300K +</b>	<b>249 637</b>	<b>...</b>







**Table 2-19. Income, Costs, and Mortgage - Occupied Units—Con.**

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Owner occupied								Renter occupied			
	With mortgage				With no mortgage				All renters		Unsubsidized renters <sup>1</sup>	
	Total	Specified <sup>2</sup>	Not specified		Total	Specified <sup>2</sup>	Not specified		Specified <sup>3</sup>	Other	Specified <sup>3</sup>	Other
			Condo or Coop	Other			Condo or Coop	Other				
<b>OWNERS WITH ONE OR MORE MORTGAGES—Con.</b>												
<b>Lenders of Primary and Secondary Mortgages</b>												
Only borrowed from firm(s) -----	356.8	274.8	63.9	18.1	...	...	...	...	...	...	...	...
Only borrowed from seller -----	3.7	2.1	1.0	.6	...	...	...	...	...	...	...	...
Only borrowed from other individual(s) -----	1.8	1.1	.4	.2	...	...	...	...	...	...	...	...
Borrowed from a firm and seller -----	2.3	2.3	-	-	...	...	...	...	...	...	...	...
Borrowed from a firm and other individual -----	1.4	1.4	-	-	...	...	...	...	...	...	...	...
Borrowed from seller and other individual -----	-	-	-	-	...	...	...	...	...	...	...	...
One or both sources not reported -----	37.0	29.7	5.1	2.2	...	...	...	...	...	...	...	...

<sup>1</sup>Excludes units in public housing projects, and housing units with government rent subsidies.  
<sup>2</sup>Limited to one-unit structures on less than 10 acres and no business on property.  
<sup>3</sup>Excludes one-unit structures on 10 acres or more.  
<sup>4</sup>May reflect a temporary situation, living off savings, or response error.  
<sup>5</sup>Beginning with 1989 this item uses current income in its calculation. See appendix A.







Table 2-20. **Income of Families and Primary Individuals by Selected Characteristics - Occupied Units—Con.**

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total	Zero to negative	\$1 to \$4,999	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$19,999	\$20,000 to \$29,999	\$30,000 to \$39,999	\$40,000 to \$59,999	\$60,000 to \$79,999	\$80,000 to \$99,999	\$100,000 to \$119,999	\$120,000 or more	Median
<b>OWNER OCCUPIED UNITS—Con.</b>														
<b>Purchase Price</b>														
Home purchased or built .....	484.5	7.8	5.2	16.5	17.5	16.3	56.7	53.1	97.0	80.9	46.0	29.3	58.2	54 251
Less than \$10,000 .....	9.0	.4	-	1.7	1.2	.8	1.6	1.4	.7	.7	-	-	.4	22 354
\$10,000 to \$19,999 .....	36.4	.2	.8	5.2	4.2	3.2	8.3	4.7	5.2	1.6	1.2	.5	1.4	25 529
\$20,000 to \$29,999 .....	35.0	.7	.5	1.4	2.0	2.0	6.2	5.7	6.0	4.7	1.8	1.8	2.3	38 364
\$30,000 to \$39,999 .....	31.4	.2	.3	1.3	1.4	1.8	4.5	4.9	5.3	4.4	3.7	1.0	2.5	44 604
\$40,000 to \$49,999 .....	20.8	.5	.2	-	1.2	1.7	5.3	1.2	3.4	2.1	1.8	1.6	1.8	41 703
\$50,000 to \$59,999 .....	15.0	-	-	.2	1.1	.5	2.9	2.4	3.1	2.0	1.3	.5	1.0	42 751
\$60,000 to \$69,999 .....	16.2	.4	-	-	.8	.9	1.3	4.1	3.3	2.2	1.4	.7	1.1	43 650
\$70,000 to \$79,999 .....	21.7	-	.5	.2	.5	1.4	3.0	2.6	5.5	2.6	1.6	1.4	2.3	49 385
\$80,000 to \$99,999 .....	33.9	.2	.5	.2	1.0	.7	3.1	6.1	9.2	5.8	3.2	1.6	2.3	51 252
\$100,000 to \$119,999 .....	28.0	-	.2	.5	-	1.0	2.2	3.3	9.1	7.4	1.7	1.1	1.7	55 112
\$120,000 to \$149,999 .....	50.9	1.0	.2	1.2	1.1	.6	5.2	5.4	14.9	10.4	5.0	2.0	3.8	54 298
\$150,000 to \$199,999 .....	65.3	1.1	.7	.7	.5	.2	2.7	5.9	13.5	17.3	9.7	5.2	7.8	68 459
\$200,000 to \$249,999 .....	35.7	.9	.2	.5	.2	.2	1.6	1.1	6.2	7.5	5.3	4.8	7.6	79 490
\$250,000 to \$299,999 .....	29.3	.7	.2	.2	-	-	1.0	1.1	3.0	5.3	2.0	2.8	6.5	79 593
\$300,000 or more .....	29.3	.5	.2	.2	-	-	1.7	.8	3.4	4.1	3.7	2.4	11.8	97 525
Not reported .....	33.2	1.1	.9	2.7	2.5	1.1	6.3	2.2	5.2	2.8	2.6	2.0	4.0	39 745
Median .....	104 488	142 132	-	20 362	30 693	38 478	48 835	73 850	109 169	135 913	143 775	164 482	192 115	...
Received as inheritance or gift .....	5.6	-	-	.2	.2	.2	1.4	.4	1.9	.9	-	-	.4	43 852
Not reported .....	11.7	.5	-	1.8	1.6	.2	1.8	1.5	1.5	1.6	.4	.4	.4	30 023
<b>RENTER OCCUPIED UNITS</b>														
<b>Total</b> .....	<b>332.6</b>	<b>6.6</b>	<b>9.9</b>	<b>23.5</b>	<b>28.4</b>	<b>29.4</b>	<b>77.1</b>	<b>52.7</b>	<b>64.1</b>	<b>22.9</b>	<b>11.0</b>	<b>3.6</b>	<b>3.6</b>	<b>28 896</b>
<b>Rent Reductions</b>														
No subsidy or income reporting .....	312.2	6.1	8.8	18.0	25.6	28.2	72.9	51.2	62.6	21.6	10.6	3.6	3.1	29 531
Rent control .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
No rent control .....	312.1	6.1	8.8	18.0	25.6	28.2	72.9	51.2	62.4	21.6	10.6	3.6	3.1	29 519
Reduced by owner .....	9.8	.7	.7	1.1	.2	-	1.8	1.7	2.1	.7	.4	-	-	32 235
Not reduced by owner .....	300.0	5.1	8.1	16.4	25.4	27.8	70.5	49.5	59.8	20.9	10.2	3.2	3.1	29 534
Owner reduction not reported .....	2.2	.3	-	.5	-	.4	.6	-	.5	-	-	-	-	...
Rent control not reported .....	.2	-	-	-	-	-	-	-	.2	-	-	-	-	...
Owned by public housing authority .....	2.6	-	.2	.5	-	.5	.7	.4	.2	-	-	-	-	...
Other, Federal subsidy .....	7.7	-	.4	3.2	1.7	.3	1.4	.3	.3	.2	-	-	-	10 897
Other, State or local subsidy .....	3.1	.4	.2	1.2	.5	.2	.4	-	.3	-	-	-	-	...
Other, income verification .....	.8	-	-	-	-	-	.4	.2	-	.2	-	-	-	...
Subsidy or income verification not reported .....	6.2	.2	.4	.5	.6	.2	1.3	.6	.8	.9	.4	-	.5	30 462

<sup>1</sup>For mobile home, oldest category is 1939 or earlier.

<sup>2</sup>May reflect a temporary situation, living off savings, or response error.

<sup>3</sup>Beginning with 1989 this item uses current income in its calculation. See appendix A.









**Table 2-21. Housing Costs by Selected Characteristics - Occupied Units—Con.**

(Numbers in thousands. For meaning of symbols, see text.)

Characteristics	Total	Less than \$100	\$100 to \$199	\$200 to \$299	\$300 to \$399	\$400 to \$499	\$500 to \$599	\$600 to \$699	\$700 to \$799	\$800 to \$999	\$1,000 to \$1,499	\$1,500 or more	No cash rent	Mortgage payment not reported	Median excluding no cash rent
<b>RENTER OCCUPIED UNITS</b>															
<b>Total</b> .....	<b>332.6</b>	<b>.8</b>	<b>4.1</b>	<b>4.7</b>	<b>3.9</b>	<b>9.1</b>	<b>25.4</b>	<b>54.1</b>	<b>61.0</b>	<b>90.2</b>	<b>61.1</b>	<b>11.2</b>	<b>7.1</b>	...	<b>800</b>
<b>Rent Reductions</b>															
No subsidy or income reporting .....	312.2	.6	.8	1.0	2.9	8.0	24.5	52.8	59.7	87.4	58.8	10.8	5.1	...	808
Rent control .....	-	-	-	-	-	-	-	-	-	-	-	-	-	...	...
No rent control .....	312.1	.6	.8	1.0	2.9	8.0	24.5	52.8	59.7	87.4	58.8	10.6	5.1	...	807
Reduced by owner .....	9.8	.2	.2	-	.3	.2	1.4	.9	1.2	1.4	1.2	.2	2.5	...	732
Not reduced by owner .....	300.0	.4	.6	1.0	2.6	7.7	23.0	51.9	58.4	84.5	57.3	10.1	2.6	...	807
Owner reduction not reported .....	2.2	-	-	-	-	.2	-	-	-	1.4	.3	.3	-	...	...
Rent control not reported .....	.2	-	-	-	-	-	-	-	-	-	-	.2	-	...	...
Owned by public housing authority .....	2.6	-	.5	.6	.2	.3	.4	-	-	.4	.2	-	-	...	...
Other, Federal subsidy .....	7.7	-	2.1	2.3	.4	.6	.4	.6	.2	-	-	-	1.3	...	249
Other, State or local subsidy .....	3.1	.2	.6	.9	.4	.2	-	-	.2	-	-	-	.6	...	...
Other, income verification .....	.8	-	-	-	-	-	-	.2	-	-	-	-	-	...	...
Subsidy or income verification not reported .....	6.2	-	-	-	-	-	-	.7	1.0	2.1	1.9	.4	.2	...	933

<sup>1</sup>For mobile home, oldest category is 1939 or earlier.  
<sup>2</sup>Beginning with 1989 this item uses current income in its calculation. See appendix A.

Table 3-1. Introductory Characteristics - Owner Occupied Units

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total occupied units	Housing unit characteristics				Household characteristics					Selected subareas <sup>1</sup>		
		New construction 4 yrs	Mobile homes	Physical problems		Black	Hispanic	Elderly (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
				Severe	Moderate								
<b>Total</b> .....	501.7	43.1	28.1	5.8	6.6	5.5	46.3	117.2	48.4	21.4	42.6	35.0	38.2
<b>Tenure</b>													
Owner occupied.....	501.7	43.1	28.1	5.8	6.6	5.5	46.3	117.2	48.4	21.4	42.6	35.0	38.2
Percent of all occupied.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Renter occupied.....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Race and Origin</b>													
White.....	443.6	34.6	26.9	5.5	6.0	-	41.2	113.4	39.5	18.7	36.8	30.2	31.7
Non-Hispanic.....	402.4	30.6	26.3	5.0	5.3	-	-	108.0	33.6	16.3	31.1	18.5	30.2
Hispanic.....	41.2	4.0	.6	.4	.7	-	41.2	5.5	5.9	2.4	5.7	11.7	1.5
Black.....	5.5	.7	.2	-	.2	5.5	-	.7	.4	.2	.2	.3	1.1
Other.....	52.6	7.8	.9	.4	.4	-	5.1	3.0	8.5	2.4	5.5	4.5	5.4
Total Hispanic.....	46.3	4.9	1.4	.6	.7	-	46.3	5.6	7.1	2.6	6.5	12.5	2.5
<b>Units in Structure</b>													
1, detached.....	362.2	24.6	...	4.7	5.1	2.8	37.4	69.1	23.8	16.2	35.8	26.3	28.2
1, attached.....	48.6	8.0	...	.2	.4	.7	2.5	11.2	9.1	1.4	1.8	1.8	3.8
2 to 4.....	26.3	2.6	...	.2	.2	-	2.1	9.4	4.0	.7	.8	2.2	.5
5 to 9.....	22.2	4.2	...	-	-	1.4	1.7	4.8	5.4	.9	.9	1.6	3.1
10 to 19.....	10.9	1.1	...	.2	-	-	.8	4.5	2.1	.9	.2	.5	.9
20 to 49.....	2.5	.4	...	-	-	.4	-	1.4	.7	.2	.2	-	.4
50 or more.....	1.1	.7	...	.2	-	-	.4	.4	.4	-	.2	-	-
Mobile home or trailer.....	28.1	1.6	28.1	.3	1.0	.2	1.4	16.3	3.0	1.1	2.7	2.7	1.4
<b>Cooperatives and Condominiums</b>													
Cooperatives.....	15.2	-	.2	-	-	-	-	14.6	1.4	1.6	.2	-	4.0
Condominiums.....	74.9	13.1	-	.2	.7	2.3	6.2	13.7	16.2	1.8	2.2	5.3	3.4
<b>Year Structure Built<sup>2</sup></b>													
1990 to 1994.....	5.2	5.2	.2	-	-	-	.4	.2	5.2	.2	.4	-	-
1985 to 1989.....	56.6	37.9	1.7	.4	1.1	1.1	5.4	3.8	10.9	1.3	.7	.2	1.7
1980 to 1984.....	41.7	...	1.2	1.2	.4	.6	2.3	6.8	5.6	.6	1.1	1.7	2.0
1975 to 1979.....	66.1	...	5.7	1.0	.6	1.4	3.2	11.2	6.4	1.7	3.4	2.8	1.2
1970 to 1974.....	71.8	...	11.2	.6	1.2	.9	3.7	17.4	6.6	3.2	3.4	2.6	6.6
1960 to 1969.....	177.1	...	8.0	1.3	1.6	1.2	16.2	47.9	11.0	9.0	14.9	14.9	19.0
1950 to 1959.....	61.1	...	.2	.7	1.7	.3	10.5	20.6	1.9	3.2	17.0	8.9	6.2
1940 to 1949.....	12.7	...	-	.5	-	-	2.2	5.7	.4	1.5	.5	2.3	1.0
1930 to 1939.....	5.4	...	-	.2	-	-	1.5	2.7	.2	.6	.5	1.1	.3
1920 to 1929.....	2.5	...	-	-	-	-	.6	.5	.3	-	.5	.3	.2
1919 or earlier.....	1.6	...	-	-	-	-	.2	.2	-	-	.2	.2	-
<b>Median</b> .....	1969	...	1973	1972	1970	1976	1965	1966	1978	1966	1962	1963	1966
<b>Statistical Areas</b>													
Current units, in 1970 boundaries of SMSA.....	501.7	43.1	28.1	5.8	6.6	5.5	46.3	117.2	48.4	21.4	42.6	35.0	38.2
1970 central city(s).....	115.8	2.2	6.8	1.6	1.2	1.7	21.4	29.6	9.9	5.5	42.6	35.0	38.2
1970 balance of SMSA.....	386.0	41.0	21.3	4.2	5.4	3.9	24.9	87.6	38.5	15.9	-	-	-
Current units, in 1983 boundaries of MSA.....	501.7	43.1	28.1	5.8	6.6	5.5	46.3	117.2	48.4	21.4	42.6	35.0	38.2
1983 central city(s).....	77.6	1.3	5.4	.9	1.0	.5	18.9	18.1	7.7	3.1	42.6	35.0	-
1983 balance of MSA.....	424.2	41.8	22.7	5.0	5.7	5.0	27.3	99.1	40.7	18.3	-	-	38.2

<sup>1</sup>See back cover for details.

<sup>2</sup>For mobile home, oldest category is 1939 or earlier.

Table 3-2. Height and Condition of Building - Owner Occupied Units

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total occupied units	Housing unit characteristics				Household characteristics					Selected subareas <sup>1</sup>		
		New construction 4 yrs	Mobile homes	Physical problems		Black	Hispanic	Elderly (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
				Severe	Moderate								
<b>Total</b> .....	<b>501.7</b>	<b>43.1</b>	<b>28.1</b>	<b>5.8</b>	<b>6.6</b>	<b>5.5</b>	<b>46.3</b>	<b>117.2</b>	<b>48.4</b>	<b>21.4</b>	<b>42.6</b>	<b>35.0</b>	<b>38.2</b>
<b>Stories in Structure</b>													
1.....	299.1	8.5	28.1	3.5	3.6	1.7	32.1	91.5	20.2	14.3	33.0	28.7	26.8
2.....	187.6	31.0	-	1.9	2.8	3.1	13.1	23.3	25.8	6.6	9.1	5.9	10.6
3.....	13.6	3.7	-	.5	.2	.6	1.0	2.3	2.4	.5	.4	.2	.9
4 to 6.....	1.4	-	-	-	-	-	-	-	-	-	-	.2	-
7 or more.....	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Stories Between Main and Apartment Entrances</b>													
Multiunits, 2 or more floors.....	45.5	7.9	-	.5	.2	1.8	4.2	9.4	10.2	1.3	2.1	2.8	4.1
None (on same floor).....	29.3	4.9	-	.2	-	1.4	2.8	5.2	5.8	1.1	.9	2.0	3.5
1 (up or down).....	11.5	2.2	-	.2	.2	.4	1.0	2.4	2.7	.2	.9	.7	.4
2 or more (up or down).....	4.2	.7	-	-	-	-	.4	1.8	1.4	-	.2	.2	-
Not reported.....	.5	.2	-	-	-	-	-	-	.2	-	-	-	.2
<b>Common Stairways</b>													
Multiunits, 2 or more floors.....	45.5	7.9	-	.5	.2	1.8	4.2	9.4	10.2	1.3	2.1	2.8	4.1
No common stairways.....	27.4	4.9	-	-	.2	1.2	3.0	2.6	5.2	.8	.4	2.2	2.6
With common stairways.....	18.1	3.0	-	.5	-	.6	1.2	6.7	4.9	.5	1.6	.7	1.5
No loose steps.....	17.5	3.0	-	.5	-	.6	1.2	6.5	4.8	.5	1.6	.5	1.5
Railings not loose.....	15.6	2.6	-	.5	-	.4	1.2	5.8	4.5	.5	1.4	.5	1.5
Railings loose.....	.2	-	-	-	-	-	-	.2	-	-	-	-	-
No railings.....	1.5	.4	-	-	-	.2	-	.5	.2	-	.2	-	-
Status of railings not reported.....	.2	-	-	-	-	-	-	-	-	-	-	-	-
Loose steps.....	.6	-	-	-	-	-	-	.2	.2	-	-	.2	-
Railings not loose.....	.6	-	-	-	-	-	-	.2	.2	-	-	.2	-
Railings loose.....	-	-	-	-	-	-	-	-	-	-	-	-	-
No railings.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Status of railings not reported.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Status of steps not reported.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Status of stairways not reported.....	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Light Fixtures in Public Halls</b>													
2 or more units in structure.....	62.9	8.9	-	.7	.2	1.8	5.0	20.5	12.5	2.6	2.3	4.3	4.8
No public halls.....	52.6	7.0	-	.2	.2	1.6	3.9	15.3	9.4	2.0	1.5	4.1	4.8
No light fixtures in public halls.....	-	-	-	-	-	-	-	-	-	-	-	-	-
All in working order.....	4.9	.7	-	-	-	-	.7	2.4	.9	.5	-	.2	-
Some in working order.....	-	-	-	-	-	-	-	-	-	-	-	-	-
None in working order.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Unable to determine if working.....	5.1	1.3	-	.2	-	.2	.4	2.8	2.2	.2	.6	-	-
Not reported.....	.4	-	-	.2	-	-	-	-	-	-	.2	-	-
<b>Elevator on Floor</b>													
Multiunits, 2 or more floors.....	45.5	7.9	-	.5	.2	1.8	4.2	9.4	10.2	1.3	2.1	2.8	4.1
With 1 or more elevators working.....	1.7	.2	-	-	-	-	.2	1.7	.5	.2	-	-	-
With elevator, none in working condition.....	-	-	-	-	-	-	-	-	-	-	-	-	-
No elevator.....	43.4	7.2	-	.5	.2	1.8	4.0	7.5	9.7	1.0	2.1	2.8	4.1
Units 3 or more floors from main entrance.....	.2	-	-	-	-	-	-	-	.2	-	-	-	-
<b>Foundation</b>													
1 unit bldg. excl. mobile homes.....	410.8	32.6	-	4.9	5.5	3.5	39.9	80.3	32.9	17.6	37.6	28.1	32.0
With basement under all of building.....	.4	-	-	-	-	-	-	-	-	-	-	.4	-
With basement under part of building.....	3.3	-	-	-	.3	-	.2	1.2	-	.5	-	.8	-
With crawl space.....	81.7	2.4	-	1.1	.4	.7	11.9	22.3	2.6	4.9	16.2	8.4	7.0
On concrete slab.....	321.7	30.0	-	3.7	4.8	2.8	27.0	55.4	30.3	11.8	21.0	18.5	24.5
Other.....	3.7	.2	-	-	-	-	.7	1.4	-	.4	.4	-	.5
<b>External Building Conditions<sup>2</sup></b>													
Sagging roof.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Missing roofing material.....	1.1	-	-	.2	.3	-	.2	.4	-	.2	-	-	.3
Hole in roof.....	.5	-	-	-	-	-	-	-	-	-	-	-	-
Could not see roof.....	1.8	-	.4	-	.2	-	.2	.4	-	-	-	-	-
Missing bricks, siding, other outside wall material.....	1.3	-	-	-	.4	-	-	-	.2	-	-	-	.9
Sloping outside walls.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Boarded up windows.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Broken windows.....	1.3	-	-	-	.2	.2	.4	.4	-	.2	.2	.2	.2
Bars on windows.....	1.4	-	-	-	-	-	.7	.4	.5	-	.5	.5	.2
Foundation crumbling or has open crack or hole.....	2.1	-	-	-	-	-	.6	.5	.2	.2	.2	.2	.4
Could not see foundation.....	3.7	-	.1	-	.4	.5	4.4	2.2	.2	.2	.5	-	-
None of the above.....	487.3	42.7	28.9	5.7	5.8	4.8	43.7	113.0	47.3	20.6	41.6	34.1	36.6
Could not observe or not reported.....	3.5	.2	.6	-	.2	-	.2	1.5	.2	-	.2	-	.2
<b>Site Placement</b>													
Mobile homes.....	28.1	1.6	28.1	.3	1.0	.2	1.4	16.3	3.0	1.1	2.7	2.7	1.4
First site.....	20.9	1.6	20.9	-	1.0	-	1.2	12.1	2.2	.8	2.2	1.1	1.2
Moved from another site.....	1.2	-	1.2	-	-	-	-	1.0	-	-	.3	.3	-
Don't know.....	5.3	-	5.3	.3	-	.2	.2	2.9	.6	.2	.3	1.3	-
Not reported.....	.7	-	.7	-	-	-	-	.3	.2	-	-	-	.2
<b>Previous Occupancy</b>													
Unit built 1980 or later.....	103.5	43.1	3.0	1.6	1.5	1.7	8.1	10.9	21.7	2.2	2.3	1.9	3.8
Not previously occupied.....	65.5	36.9	2.5	1.1	.7	.6	4.8	7.6	12.0	1.3	1.4	.2	1.7
Not reported.....	7.7	1.6	.3	.2	.4	-	1.4	1.7	1.2	-	.2	1.0	.9

<sup>1</sup>See back cover for details.

<sup>2</sup>Figures may not add to total because more than one category may apply to a unit.





Table 3-5. Fuels - Owner Occupied Units

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total occupied units	Housing unit characteristics				Household characteristics					Selected subareas <sup>1</sup>		
		New construction 4 yrs	Mobile homes	Physical problems		Black	Hispanic	Elderly (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
				Severe	Moderate								
<b>Total</b> .....	<b>501.7</b>	<b>43.1</b>	<b>28.1</b>	<b>5.8</b>	<b>6.6</b>	<b>5.5</b>	<b>48.3</b>	<b>117.2</b>	<b>48.4</b>	<b>21.4</b>	<b>42.6</b>	<b>35.0</b>	<b>38.2</b>
<b>Main House Heating Fuel</b>													
Housing units with heating fuel.....	500.6	43.1	28.1	5.8	6.6	5.5	48.3	117.2	48.4	21.4	42.6	35.0	38.2
Electricity.....	63.4	6.4	1.1	.7	.2	.9	4.0	25.6	9.1	3.4	3.0	2.2	7.4
Piped gas.....	418.6	33.7	26.3	5.2	6.0	4.2	40.8	87.8	36.8	16.9	38.0	32.3	29.4
Bottled gas.....	2.9	.4	.2	-	-	-	-	.6	.4	-	.4	-	-
Fuel oil.....	3.2	-	-	-	-	-	.6	1.2	.5	.2	.2	.5	.2
Kerosene or other liquid fuel.....	.2	-	-	-	-	-	-	-	-	-	.2	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	12.3	2.6	.5	-	.5	.5	1.0	2.0	1.6	.9	.8	-	1.1
Solar energy.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Other.....	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Other House Heating Fuels</b>													
With other heating fuels <sup>2</sup> .....	66.3	5.5	2.1	.2	.9	1.1	4.9	10.8	4.8	2.3	5.5	2.0	4.5
Electricity.....	18.2	1.3	1.5	-	-	-	.9	6.0	1.6	1.3	1.0	.3	1.4
Piped gas.....	.5	-	-	-	-	-	-	-	-	-	-	-	-
Bottled gas.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Fuel oil.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Kerosene or other liquid fuel.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	47.6	4.2	.5	.2	.6	1.1	4.2	5.0	3.2	1.0	4.5	1.8	3.4
Solar energy.....	2.0	-	-	-	.2	-	.2	.2	.2	-	.2	-	-
Other.....	1.8	.2	-	-	-	-	-	.2	.2	-	.2	-	-
Not reported.....	4.0	1.3	.3	-	.2	-	.4	1.0	.7	.3	.3	-	-
<b>Cooking Fuel</b>													
With cooking fuel.....	501.5	43.1	28.1	5.8	6.4	5.5	46.3	117.2	48.4	21.4	42.6	35.0	38.2
Electricity.....	202.9	11.6	1.5	3.1	1.6	2.8	9.9	55.3	16.0	9.1	11.3	7.2	20.4
Piped gas.....	295.3	31.1	26.3	2.7	4.8	2.8	36.3	61.4	31.9	12.3	30.6	27.8	17.8
Bottled gas.....	2.4	.4	.2	-	-	-	-	.5	.4	-	.4	-	-
Kerosene or other liquid fuel.....	.2	-	-	-	-	-	-	-	-	-	.2	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Other.....	.6	-	-	-	-	-	-	-	-	-	-	-	-
<b>Water Heating Fuel</b>													
With hot piped water.....	501.7	43.1	28.1	5.8	6.6	5.5	46.3	117.2	48.4	21.4	42.6	35.0	38.2
Electricity.....	42.8	1.5	.2	.5	-	.5	2.1	22.7	6.7	2.2	.5	1.8	7.0
Piped gas.....	451.6	41.2	27.7	5.4	6.2	5.1	44.0	93.4	41.0	18.1	40.9	33.2	31.3
Bottled gas.....	2.9	.4	.2	-	-	-	-	.6	.4	-	.2	-	-
Fuel oil.....	.2	-	-	-	.2	-	-	-	-	-	-	-	-
Kerosene or other liquid fuel.....	.2	-	-	-	-	-	-	-	-	-	.2	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Solar energy.....	3.8	-	-	-	.2	-	.2	.4	.2	-	.5	-	-
Other.....	.2	-	-	-	-	-	-	-	-	-	.2	-	-
<b>Central Air Conditioning Fuel</b>													
With central air conditioning.....	221.3	34.2	10.3	2.9	3.2	2.2	16.1	38.5	25.8	7.4	19.6	7.9	12.4
Electricity.....	187.8	30.9	7.7	2.4	2.2	2.2	13.5	31.7	22.7	5.9	16.0	6.1	9.6
Piped gas.....	33.5	3.3	2.6	.5	.9	-	2.6	6.7	3.1	1.4	3.6	1.8	2.8
Other.....	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Clothes Dryer Fuel</b>													
With clothes dryer.....	446.0	41.0	19.2	5.0	6.5	5.3	37.5	83.2	40.4	17.3	38.1	26.2	33.0
Electricity.....	134.2	10.1	3.7	1.7	1.8	1.3	7.2	30.9	10.8	5.6	10.5	5.7	13.0
Piped gas.....	309.0	30.2	15.4	3.3	4.7	4.0	30.3	51.9	29.2	11.7	27.2	20.5	20.0
Other.....	2.8	.7	.1	-	-	-	-	.3	.4	-	.4	-	-
<b>Units Using Each Fuel<sup>2</sup></b>													
Electricity.....	501.7	43.1	28.1	5.8	6.6	5.5	46.3	117.2	48.4	21.4	42.6	35.0	38.2
All-electric units.....	30.2	.8	-	.5	-	.2	1.1	20.4	4.1	2.0	.2	1.1	5.4
Piped gas.....	466.7	42.1	27.8	5.4	6.6	5.3	45.1	94.8	43.4	19.4	41.7	33.7	33.1
Bottled gas.....	3.3	.4	.2	-	-	-	-	.6	.4	-	.6	-	-
Fuel oil.....	5.3	-	.2	-	.2	-	.6	1.4	.5	.2	.4	.5	.5
Kerosene or other liquid fuel.....	.2	-	-	-	-	-	-	-	-	-	.2	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	59.9	6.8	1.0	.2	1.1	1.6	5.2	7.0	4.8	1.9	5.3	1.8	4.5
Solar energy.....	5.6	-	-	-	.2	-	.4	.7	.2	-	.5	-	-
Other.....	2.6	.2	-	-	-	-	-	.2	.2	-	.4	-	-

<sup>1</sup>See back cover for details.

<sup>2</sup>Figures may not add to total because more than one category may apply to a unit.













Table 3-10. Previous Unit of Recent Movers - Owner Occupied Units

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total occupied units	Housing unit characteristics				Household characteristics					Selected subareas <sup>1</sup>		
		New construction 4 yrs	Mobile homes	Physical problems		Black	Hispanic	Elderly (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
				Severe	Moderate								
<b>UNITS WHERE HOUSEHOLDER MOVED DURING PAST YEAR</b>													
Total.....	48.4	14.4	3.0	.5	.6	.4	7.1	3.2	48.4	1.8	3.8	4.0	2.2
<b>Location of Previous Unit</b>													
Inside same (P)MSA.....	36.9	11.1	2.3	.2	.6	.4	5.4	2.1	36.9	1.3	2.6	3.4	1.8
In central city(s).....	4.8	.8	.4	-	.4	-	2.4	.2	4.8	-	1.0	2.2	-
Not in central city(s).....	32.1	10.3	1.9	.2	.2	.4	3.1	1.9	32.1	1.3	1.5	1.2	1.8
Inside different (P)MSA in same state.....	7.3	2.6	.5	.2	-	-	1.0	.4	7.3	.5	1.0	.3	.2
In central city(s).....	2.3	.9	.2	-	-	-	.7	.2	2.3	-	.5	-	-
Not in central city(s).....	5.0	1.7	.3	-	-	-	.2	.2	5.0	.5	.5	.3	.2
Inside different (P)MSA in different state.....	2.9	.7	.2	-	-	-	.2	.2	2.9	-	-	-	-
In central city(s).....	1.3	.4	-	-	-	-	.2	.2	1.3	-	-	-	-
Not in central city(s).....	1.7	.2	.2	-	-	-	-	-	1.7	-	-	-	-
Outside any metropolitan area.....	.8	-	-	-	-	-	-	.5	.8	-	.2	-	.2
Same state.....	.2	-	-	-	-	-	-	.2	.2	-	-	-	.2
Different state.....	.6	-	-	-	-	-	-	.2	.6	-	.2	-	-
Different nation.....	.5	-	-	-	-	-	.5	-	.5	-	-	.3	-
<b>Structure Type of Previous Residence</b>													
Moved from within United States.....	47.9	14.4	3.0	.5	.6	.4	6.7	3.2	47.9	1.8	3.8	3.7	2.2
House.....	28.3	8.3	2.1	.5	.4	-	3.5	1.1	28.3	1.4	1.7	3.0	1.3
Apartment.....	16.1	5.4	.7	-	.2	.2	3.2	.9	16.1	.4	2.1	.7	.4
Mobile home.....	.6	-	.2	-	-	-	-	.5	.6	-	-	-	.5
Other.....	3.0	.7	-	-	-	.2	-	.7	3.0	-	-	-	-
<b>Tenure of Previous Residence</b>													
House, apt., mobile home in United States.....	45.0	13.7	3.0	.5	.6	.2	6.7	2.5	45.0	1.8	3.8	3.7	2.2
Owner occupied.....	23.7	7.2	1.3	.2	.4	-	2.0	2.1	23.7	.9	1.2	1.4	1.3
Renter occupied.....	21.3	6.6	1.7	.2	.2	.2	4.7	.4	21.3	.9	2.6	2.2	.8
<b>Persons - Previous Residence</b>													
House, apt., mobile home in United States.....	45.0	13.7	3.0	.5	.6	.2	6.7	2.5	45.0	1.8	3.8	3.7	2.2
1 person.....	4.2	.7	-	.2	-	-	.6	1.1	4.2	.2	.2	-	.6
2 persons.....	12.2	5.3	1.4	-	-	.2	.7	1.2	12.2	-	.7	.2	.5
3 persons.....	11.6	4.1	1.2	.2	.2	-	2.2	-	11.6	.7	1.6	.5	.2
4 persons.....	8.2	2.0	-	-	.2	-	1.3	-	8.2	.5	.9	.7	.5
5 persons.....	3.3	.9	.5	-	-	-	.7	-	3.3	-	.2	.8	.4
6 persons.....	1.1	.2	-	-	-	-	.4	-	1.1	-	-	.4	-
7 persons or more.....	1.2	-	-	-	-	-	.5	-	1.2	.2	-	.9	-
Not reported.....	3.2	.7	-	-	.2	-	.2	.2	3.2	.2	.2	.2	-
Median.....	2.9	2.7	-	-	-	-	3.4	-	2.9	-	-	-	-
<b>Previous Home Owned or Rented by Someone Who Moved Here</b>													
House, apt., mobile home in United States.....	45.0	13.7	3.0	.5	.6	.2	6.7	2.5	45.0	1.8	3.8	3.7	2.2
Owned or rented by a mover.....	38.5	11.8	3.0	.2	.4	.2	6.0	2.3	38.5	1.1	3.1	2.7	1.7
Owned or rented by other.....	4.4	1.3	-	.2	-	-	.6	-	4.4	.5	.7	.9	.4
By a relative.....	2.9	1.1	-	.2	-	-	.4	-	2.9	.2	.7	-	.4
By a nonrelative.....	1.0	.2	-	-	-	-	.2	-	1.0	-	-	.6	-
Not reported.....	.5	-	-	-	-	-	-	-	.5	.2	-	.2	-
Not reported.....	2.2	.7	-	-	.2	-	-	.2	2.2	.2	-	.2	-
<b>Change in Housing Costs</b>													
House, apt., mobile home in United States.....	45.0	13.7	3.0	.5	.6	.2	6.7	2.5	45.0	1.8	3.8	3.7	2.2
Increased with move.....	31.3	10.0	1.4	.5	.4	.2	4.9	1.2	31.3	1.1	2.4	2.9	1.5
Stayed about the same.....	6.5	1.5	.4	-	-	-	1.2	.9	6.5	.4	.7	.2	.6
Decreased.....	4.4	1.6	.9	-	-	-	.5	.2	4.4	-	.7	.4	-
Don't know.....	.4	.2	-	-	-	-	-	-	.4	-	-	-	-
Not reported.....	2.3	.4	.3	-	.2	-	-	.2	2.3	.2	-	.2	-

<sup>1</sup>See back cover for details.



















Table 3-17. Rooms in Unit by Household and Unit Size, Income, and Costs - Owner Occupied Units

[Numbers in thousands. For meaning of symbols, see text.]

Table with columns: Characteristics, Total, Rooms (1 and 2 rooms, 3 and 4 rooms, 5 and 6 rooms, 7 rooms or more, Median), Bedrooms (No rooms, 1 room, 2 rooms, 3 rooms, 4 rooms or more, Median). Rows include Total, Persons, Rooms, Bedrooms, Complete Bathrooms, Lot Size, Income of Families and Primary Individuals, Monthly Housing Costs, and Median Monthly Housing Costs For Owners.

**Table 3-17. Rooms in Unit by Household and Unit Size, Income, and Costs - Owner Occupied Units—Con.**

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Occupied units											
	Total	Rooms					Bedrooms					
		1 and 2 rooms	3 and 4 rooms	5 and 6 rooms	7 rooms or more	Median	No rooms	1 room	2 rooms	3 rooms	4 rooms or more	Median
<b>Value</b>												
Less than \$10,000.....	1.6	-	1.0	.2	.4	...	-	.4	.6	.4	.2	...
\$10,000 to \$19,999.....	2.0	-	1.4	.5	.1	...	-	.9	.9	.2	-	...
\$20,000 to \$29,999.....	4.1	-	.8	1.7	1.6	...	-	.7	.8	2.0	.7	...
\$30,000 to \$39,999.....	8.9	.2	3.0	3.9	1.8	5.2	.2	1.2	4.7	.9	1.8	2.1
\$40,000 to \$49,999.....	6.1	-	2.5	2.4	1.2	4.8	-	.7	4.5	.3	.6	2.0
\$50,000 to \$59,999.....	5.7	-	2.4	2.6	.8	4.8	-	.9	3.7	.6	.4	2.0
\$60,000 to \$69,999.....	7.6	.2	2.2	4.8	.4	5.1	.2	.7	6.1	.4	.2	2.0
\$70,000 to \$79,999.....	6.8	-	2.6	3.6	.8	5.0	-	.8	5.3	.2	.4	2.0
\$80,000 to \$99,999.....	11.1	-	3.5	4.8	2.8	5.4	-	1.3	7.8	1.3	.7	2.0
\$100,000 to \$119,999.....	11.3	.2	5.8	4.6	.7	4.4	.2	2.5	7.0	1.1	.5	1.9
\$120,000 to \$149,999.....	25.2	-	10.5	12.7	2.0	4.8	-	3.2	15.1	6.2	.7	2.1
\$150,000 to \$199,999.....	73.7	-	8.6	51.3	13.8	5.6	-	1.6	20.3	42.9	8.9	2.8
\$200,000 to \$249,999.....	103.0	-	5.9	56.8	40.3	6.1	-	1.1	17.9	56.6	27.5	3.1
\$250,000 to \$299,999.....	75.5	-	2.1	27.0	46.3	6.5+	-	1.1	6.0	36.4	32.0	3.3
\$300,000 or more.....	159.2	-	3.4	32.1	123.7	6.5+	-	2.0	13.5	49.2	94.6	3.5+
<b>Median.....</b>	<b>242 144</b>	<b>-</b>	<b>127 554</b>	<b>210 035</b>	<b>300K+</b>	<b>-</b>	<b>-</b>	<b>114 843</b>	<b>151 388</b>	<b>237 849</b>	<b>300K+</b>	<b>-</b>



Table 3-18. **Square Footage by Household and Unit Size, Income, and Costs - Owner Occupied Units—Con.**

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Size of occupied detached 1-family homes and 1-family mobile homes								Median
	Total	Less than 500 square feet	500 to 999 square feet	1000 to 1499 square feet	1500 to 1999 square feet	2000 to 2499 square feet	2500 square feet or more	Not reported	
<b>Value</b>									
Less than \$10,000 .....	1.1	.2	.3	—	.2	—	.4	—	...
\$10,000 to \$19,999 .....	1.8	.2	1.2	.2	.1	—	—	—	...
\$20,000 to \$29,999 .....	3.2	—	1.0	.4	1.6	—	—	.2	...
\$30,000 to \$39,999 .....	7.4	.4	1.6	1.6	.9	1.1	.2	1.6	1 291
\$40,000 to \$49,999 .....	4.3	—	1.0	2.2	—	.3	—	.9	...
\$50,000 to \$59,999 .....	3.0	—	.6	1.6	.4	.1	—	.2	...
\$60,000 to \$69,999 .....	4.1	—	.4	2.1	.9	.3	—	.5	...
\$70,000 to \$79,999 .....	3.3	—	.2	2.0	.1	—	.4	.4	...
\$80,000 to \$99,999 .....	6.6	—	.5	2.4	2.4	.1	.2	.9	1 486
\$100,000 to \$119,999 .....	3.1	—	—	.8	.7	—	.5	1.2	...
\$120,000 to \$149,999 .....	4.8	—	.5	2.1	.9	.2	—	1.0	...
\$150,000 to \$199,999 .....	48.2	.2	3.1	21.7	8.7	1.7	1.4	11.5	1 348
\$200,000 to \$249,999 .....	87.6	—	1.7	28.8	28.1	8.2	3.1	17.7	1 580
\$250,000 to \$299,999 .....	67.2	.2	.6	5.7	30.2	13.5	4.1	12.9	1 841
\$300,000 or more .....	143.9	.4	1.9	5.1	22.7	36.6	54.1	23.1	2 414
<b>Median</b> .....	<b>262 124</b>	...	<b>149 212</b>	<b>202 208</b>	<b>256 415</b>	<b>300K+</b>	<b>300K+</b>	<b>249 637</b>	...













Table 3-20. **Income of Families and Primary Individuals by Selected Characteristics - Owner Occupied Units—Con.**

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total	Zero to negative	\$1 to \$4,999	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$19,999	\$20,000 to \$29,999	\$30,000 to \$39,999	\$40,000 to \$59,999	\$60,000 to \$79,999	\$80,000 to \$99,999	\$100,000 to \$119,999	\$120,000 or more	Median
<b>Purchase Price</b>														
Home purchased or built .....	484.5	7.8	5.2	16.5	17.5	16.3	56.7	53.1	97.0	80.9	46.0	29.3	58.2	54 251
Less than \$10,000 .....	9.0	.4	-	1.7	1.2	.8	1.6	1.4	.7	-	-	-	.4	22 354
\$10,000 to \$19,999 .....	36.4	.2	.8	5.2	4.2	3.2	8.3	4.7	5.2	1.6	1.2	.5	1.4	25 529
\$20,000 to \$29,999 .....	35.0	.7	.5	1.4	2.0	2.0	6.2	5.7	6.0	4.7	1.8	1.8	2.3	38 364
\$30,000 to \$39,999 .....	31.4	.2	.3	1.3	1.4	1.8	4.5	4.9	5.3	4.4	3.7	1.0	2.5	44 604
\$40,000 to \$49,999 .....	20.8	.5	.2	-	1.2	1.7	5.3	1.2	3.4	2.1	1.8	1.6	1.8	41 703
\$50,000 to \$59,999 .....	15.0	-	-	.2	1.1	.5	2.9	2.4	3.1	2.0	1.3	.5	1.0	42 751
\$60,000 to \$69,999 .....	16.2	.4	-	-	.8	.9	1.3	4.1	3.3	2.2	1.4	.7	1.1	43 650
\$70,000 to \$79,999 .....	21.7	-	-	.9	.5	1.4	3.0	2.6	5.5	2.6	1.6	1.4	2.3	49 385
\$80,000 to \$99,999 .....	33.9	.2	.5	.2	1.0	.7	3.1	6.1	9.2	5.8	3.2	1.6	2.3	51 252
\$100,000 to \$119,999 .....	28.0	-	.2	.5	-	1.0	2.2	3.3	9.1	7.4	1.7	1.1	1.7	55 112
\$120,000 to \$149,999 .....	50.9	1.0	.2	1.2	1.1	.6	5.2	5.4	14.9	10.4	5.0	2.0	3.8	54 298
\$150,000 to \$199,999 .....	65.3	1.1	.7	.7	.5	.2	2.7	5.9	13.5	17.3	9.7	5.2	7.8	68 459
\$200,000 to \$249,999 .....	35.7	.7	.2	.5	.2	.2	1.6	1.1	6.2	7.5	5.3	4.8	7.6	79 490
\$250,000 to \$299,999 .....	22.7	.9	.2	-	-	-	1.0	1.1	3.0	5.3	2.0	2.8	6.5	79 593
\$300,000 or more .....	29.3	.5	.5	.2	-	.3	1.7	.8	3.4	4.1	3.7	2.4	11.8	87 525
Not reported .....	33.2	1.1	.9	2.7	2.5	1.1	6.3	2.2	5.2	2.8	2.6	2.0	4.0	39 745
Median .....	104 488	142 132	-	20 382	30 893	38 478	48 835	73 850	109 169	135 913	143 775	184 482	192 115	-
Received as inheritance or gift .....	5.6	-	-	.2	.2	.2	1.4	.4	1.9	.9	-	-	.4	43 852
Not reported .....	11.7	.5	-	1.8	1.6	.2	1.8	1.5	1.5	1.6	.4	.4	.4	30 023

<sup>1</sup>For mobile home, oldest category is 1939 or earlier.<sup>2</sup>May reflect a temporary situation, living off savings, or response error.<sup>3</sup>Beginning with 1989 this item uses current income in its calculation. See appendix A.















**Table 4-1. Introductory Characteristics - Renter Occupied Units**

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total occupied units	Housing unit characteristics				Household characteristics					Selected subareas <sup>1</sup>		
		New construction 4 yrs	Mobile homes	Physical problems		Black	Hispanic	Elderly (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
				Severe	Moderate								
<b>Total</b> .....	<b>332.6</b>	<b>35.2</b>	<b>1.8</b>	<b>4.7</b>	<b>16.8</b>	<b>7.8</b>	<b>75.7</b>	<b>23.9</b>	<b>140.5</b>	<b>32.3</b>	<b>41.5</b>	<b>44.0</b>	<b>16.8</b>
<b>Tenure</b>													
Owner occupied.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Percent of all occupied.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Renter occupied.....	332.6	35.2	1.8	4.7	16.8	7.8	75.7	23.9	140.5	32.3	41.5	44.0	16.8
<b>Race and Origin</b>													
White.....	287.7	30.2	1.8	3.3	13.7	-	66.1	22.8	117.9	24.6	34.4	36.5	11.4
Non-Hispanic.....	221.7	27.3	1.6	1.7	7.3	-	-	20.7	90.8	12.0	25.7	13.7	8.7
Hispanic.....	66.1	2.9	.2	1.5	6.4	-	66.1	2.1	27.1	12.6	8.7	22.8	2.7
Black.....	7.8	.7	-	-	1.5	7.8	.2	-	5.2	1.1	1.1	1.8	.5
Other.....	37.1	4.4	-	1.4	1.6	-	9.4	1.1	17.4	6.6	5.9	5.6	4.8
Total Hispanic.....	75.7	4.0	.2	1.7	7.2	.2	75.7	2.1	32.1	14.4	10.9	24.5	4.1
<b>Units in Structure</b>													
1, detached.....	64.9	3.7	...	.9	3.4	.2	14.4	3.9	23.3	5.4	6.8	8.6	3.5
1, attached.....	16.1	1.7	...	.2	.3	.3	2.3	1.1	5.1	1.3	.4	1.4	.2
2 to 4.....	84.1	3.2	...	.8	4.3	2.0	22.8	4.8	33.1	9.9	13.2	11.1	4.7
5 to 9.....	57.3	7.9	...	.9	2.7	1.4	12.1	3.3	28.4	5.4	8.1	5.7	4.8
10 to 19.....	56.4	11.7	...	.8	3.4	1.6	12.5	3.6	26.9	3.5	6.6	10.0	2.1
20 to 49.....	35.3	3.4	...	.6	2.3	1.4	8.7	2.7	16.5	4.8	4.1	4.9	1.1
50 or more.....	16.7	3.6	...	.4	.4	.9	2.8	3.6	6.8	2.0	2.4	2.2	.3
Mobile home or trailer.....	1.8	-	1.8	.2	-	-	.2	.9	.4	.1	-	-	-
<b>Cooperatives and Condominiums</b>													
Cooperatives.....	1.0	-	-	-	-	-	.2	.2	.4	.2	-	.2	-
Condominiums.....	24.0	3.5	-	-	.2	1.0	2.1	3.3	10.2	2.4	.9	2.7	.8
<b>Year Structure Built<sup>2</sup></b>													
1990 to 1994.....	6.8	6.8	-	-	.2	-	.2	.2	6.8	.6	.8	-	-
1985 to 1989.....	43.1	28.4	-	.9	1.4	.7	6.8	2.7	21.0	2.2	2.5	4.1	1.1
1980 to 1984.....	16.5	...	-	.4	.2	.6	1.9	2.5	5.9	2.0	1.6	1.0	.7
1975 to 1979.....	44.8	...	.4	.5	.6	2.1	6.4	3.2	22.3	3.2	3.2	3.7	2.9
1970 to 1974.....	72.7	...	1.2	.8	3.4	2.7	14.4	3.9	32.4	5.3	7.3	11.6	2.5
1960 to 1969.....	97.3	...	-	1.3	6.5	1.0	26.0	7.6	35.2	10.4	17.8	11.7	6.8
1950 to 1959.....	32.3	...	.2	.4	2.9	.2	11.3	2.8	11.6	5.7	7.3	5.4	2.3
1940 to 1949.....	9.9	...	-	.2	.5	.2	4.3	.5	2.2	2.3	.5	2.9	.3
1930 to 1939.....	5.6	...	-	.2	.5	.2	2.6	.3	1.5	.2	.3	1.9	.2
1920 to 1929.....	1.8	...	-	-	.4	.2	.9	.2	.5	.3	-	.7	-
1919 or earlier.....	1.8	...	-	-	.2	-	.9	-	1.1	-	.3	.9	-
Median.....	1971	...	...	...	1966	1974	1967	1971	1973	1967	1967	1969	1968
<b>Statistical Areas</b>													
Current units, in 1970 boundaries of SMSA.....	332.6	35.2	1.8	4.7	16.8	7.8	75.7	23.9	140.5	32.3	41.5	44.0	16.8
1970 central city(s).....	102.2	6.7	-	2.6	7.6	3.5	39.5	4.9	41.7	14.6	41.5	44.0	16.8
1970 balance of SMSA.....	230.4	28.5	1.8	2.0	9.2	4.3	36.2	19.0	98.7	17.7	-	-	-
Current units, in 1983 boundaries of MSA.....	332.6	35.2	1.8	4.7	16.8	7.8	75.7	23.9	140.5	32.3	41.5	44.0	16.8
1983 central city(s).....	85.5	6.0	-	2.1	6.6	3.0	35.4	4.4	37.0	11.8	41.5	44.0	-
1983 balance of MSA.....	247.2	29.2	1.8	2.5	10.2	4.8	40.2	19.5	103.5	20.5	-	-	16.8

<sup>1</sup>See back cover for details.

<sup>2</sup>For mobile home, oldest category is 1939 or earlier.









Table 4-5. Fuels - Renter Occupied Units

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total occupied units	Housing unit characteristics				Household characteristics					Selected subareas <sup>1</sup>		
		New construction 4 yrs	Mobile homes	Physical problems		Black	Hispanic	Elderly (65 +)	Moved in past year	Below poverty level	Area one	Area two	Area three
				Severe	Mod-erate								
<b>Total</b> .....	<b>332.6</b>	<b>35.2</b>	<b>1.8</b>	<b>4.7</b>	<b>16.8</b>	<b>7.8</b>	<b>75.7</b>	<b>23.9</b>	<b>140.5</b>	<b>32.3</b>	<b>41.5</b>	<b>44.0</b>	<b>16.8</b>
<b>Main House Heating Fuel</b>													
Housing units with heating fuel.....	331.2	35.2	1.8	4.7	16.6	7.8	75.0	23.7	140.3	32.3	41.5	43.5	16.6
Electricity.....	95.3	17.0	.2	2.3	4.8	2.6	17.2	9.9	45.2	6.9	10.4	10.3	2.8
Piped gas.....	221.0	15.5	1.6	2.1	11.0	4.8	56.2	12.5	88.1	24.4	30.7	32.3	12.0
Bottled gas.....	.7	-	-	-	.2	.4	.2	-	.5	-	-	-	-
Fuel oil.....	8.3	-	-	.2	.2	-	1.5	.6	3.2	.8	.4	.9	1.8
Kerosene or other liquid fuel.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	4.5	2.7	-	-	.5	-	-	.4	3.0	-	-	-	-
Solar energy.....	.5	-	-	-	-	-	-	-	.2	-	-	-	-
Other.....	.9	-	-	.2	-	-	-	.4	.2	.2	-	-	-
<b>Other House Heating Fuels</b>													
With other heating fuels <sup>2</sup> .....	16.5	2.1	-	.2	.5	.3	3.6	1.5	6.4	.9	1.2	1.4	1.0
Electricity.....	5.6	.2	-	.2	.2	.3	1.4	.5	1.8	.4	.5	.2	.3
Piped gas.....	1.3	.2	-	-	-	-	.7	.2	.4	-	-	-	.2
Bottled gas.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Fuel oil.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Kerosene or other liquid fuel.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	8.3	1.4	-	-	.4	-	1.5	.6	3.7	.4	.4	1.1	.5
Solar energy.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Other.....	1.4	.2	-	-	-	-	.2	.2	.7	.2	.4	-	-
Not reported.....	3.0	2.5	-	-	.5	-	-	.5	2.1	-	.4	-	-
<b>Cooking Fuel</b>													
With cooking fuel.....	332.3	35.2	1.8	4.7	16.4	7.6	75.5	23.9	140.1	32.1	41.5	44.0	16.6
Electricity.....	125.3	21.4	.2	2.4	5.4	3.0	15.3	12.7	56.1	8.4	11.0	10.8	5.1
Piped gas.....	205.9	13.9	1.6	2.1	10.8	4.2	60.0	11.2	83.5	23.5	30.5	33.2	11.5
Bottled gas.....	1.0	-	-	-	.2	.4	.2	-	.5	-	-	-	-
Kerosene or other liquid fuel.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Solar energy.....	2	-	-	.2	-	-	-	-	-	.2	-	-	-
Other.....	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Water Heating Fuel</b>													
With hot piped water.....	332.6	35.2	1.8	4.7	16.8	7.8	75.7	23.9	140.5	32.3	41.5	44.0	16.8
Electricity.....	62.7	7.6	.4	1.1	3.5	2.2	11.2	7.4	29.5	5.5	5.9	8.4	2.8
Piped gas.....	262.2	26.9	1.4	3.4	13.1	4.7	64.0	16.4	107.7	26.4	33.7	35.6	14.0
Bottled gas.....	.7	-	-	-	-	.4	.2	-	.5	-	-	-	-
Fuel oil.....	.2	-	-	-	-	-	-	-	-	-	.2	-	-
Kerosene or other liquid fuel.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Solar energy.....	4.5	.4	-	-	-	.3	.2	-	2.1	-	1.4	-	-
Other.....	2.4	.2	-	.2	-	.2	.2	.2	.6	.3	.3	-	-
<b>Central Air Conditioning Fuel</b>													
With central air conditioning.....	98.2	29.1	1.0	2.0	3.8	2.5	13.1	7.6	47.1	6.6	10.7	10.5	4.9
Electricity.....	87.3	27.9	1.0	2.0	3.3	2.3	11.0	7.1	42.0	5.5	9.6	8.6	3.8
Piped gas.....	10.9	1.1	-	-	.4	.2	2.0	.5	5.1	1.1	1.1	1.9	1.2
Other.....	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Clothes Dryer Fuel</b>													
With clothes dryer.....	101.6	14.4	1.0	1.4	3.8	1.6	11.8	7.1	37.5	7.3	8.6	7.8	6.9
Electricity.....	40.1	7.7	.5	.4	1.5	1.0	3.4	3.5	14.6	3.9	4.0	2.4	3.2
Piped gas.....	60.9	6.7	.5	.8	2.1	.6	8.3	3.5	22.7	3.0	4.6	5.4	3.6
Other.....	.6	-	-	.2	.2	-	.2	-	.2	.4	-	-	.2
<b>Units Using Each Fuel<sup>2</sup></b>													
Electricity.....	332.4	35.2	1.8	4.5	16.8	7.8	75.7	23.9	140.5	32.1	41.5	44.0	16.8
All-electric units.....	46.1	5.4	.2	.9	2.7	1.4	7.7	6.2	21.4	4.1	5.2	5.9	1.4
Piped gas.....	283.3	30.5	1.6	3.8	13.9	6.3	67.9	17.1	118.1	28.4	35.6	38.5	14.6
Bottled gas.....	1.0	-	-	-	.2	.4	.2	-	.5	-	-	-	-
Fuel oil.....	9.0	-	-	.2	.2	-	1.8	.6	3.8	.8	.6	.9	1.8
Kerosene or other liquid fuel.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Coal or coke.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Wood.....	12.8	4.1	-	-	.8	-	1.5	1.0	6.7	.4	.4	1.1	.5
Solar energy.....	4.5	.4	-	-	-	.3	.2	-	2.1	-	1.4	-	-
Other.....	4.5	.5	-	.2	-	.2	.3	.7	1.5	.5	.7	-	-

<sup>1</sup>See back cover for details.

<sup>2</sup>Figures may not add to total because more than one category may apply to a unit.





















**Table 4-13. Selected Housing Costs - Renter Occupied Units—Con.**

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total occupied units	Housing unit characteristics				Household characteristics					Selected subareas <sup>1</sup>		
		New construction 4 yrs	Mobile homes	Physical problems		Black	Hispanic	Elderly (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
				Severe	Moderate								
<b>Monthly Costs Paid for Selected Utilities and Fuels</b>													
Water paid separately .....	39.6	4.9	.5	.4	1.1	.5	4.9	1.9	17.0	2.7	4.3	3.2	2.4
<b>Median</b> .....	21	...	...	...	...	...	...	...	23	...	...	...	...
Trash paid separately .....	29.6	3.0	.4	.4	.4	.5	4.1	2.5	12.9	2.1	4.7	2.3	1.5
<b>Median</b> .....	13	...	...	...	...	...	...	...	12	...	...	...	...
Bottled gas paid separately .....	.6	-	-	-	-	.2	-	-	.2	-	-	-	-
<b>Median</b> .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Other fuel paid separately .....	15.1	4.6	-	.2	1.0	-	2.0	.9	8.0	.3	.8	.8	.4
<b>Median</b> .....	10-	...	...	...	...	...	...	...	10-	...	...	...	...

<sup>1</sup>See back cover for details.

<sup>2</sup>May reflect a temporary situation, living off savings, or response error.

<sup>3</sup>Beginning with 1989 this item uses current income in its calculation. See appendix A.



**Table 4-18. Square Footage by Household and Unit Size, Income, and Costs - Renter Occupied Units**

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Size of occupied detached 1-family homes and 1-family mobile homes								Median
	Total	Less than 500 square feet	500 to 999 square feet	1000 to 1499 square feet	1500 to 1999 square feet	2000 to 2499 square feet	2500 square feet or more	Not reported	
<b>Total</b> .....	<b>66.7</b>	<b>.3</b>	<b>8.1</b>	<b>22.4</b>	<b>13.5</b>	<b>5.8</b>	<b>4.0</b>	<b>12.5</b>	<b>1 416</b>
<b>Persons</b>									
1 person.....	6.2	.2	1.3	2.1	.4	.2	.4	1.7	1 183
2 persons.....	16.2	.2	2.5	4.8	2.2	1.7	1.4	3.5	1 385
3 persons.....	13.1	-	1.3	3.5	4.2	1.2	.7	2.2	1 577
4 persons.....	13.8	-	1.1	4.4	3.7	1.4	1.1	2.1	1 547
5 persons.....	8.7	-	.5	3.8	1.6	1.3	-	1.4	1 409
6 persons.....	2.8	-	.5	.8	.4	-	.2	.9	...
7 persons or more.....	5.9	-	.9	2.9	1.1	-	.2	.7	1 285
Median.....	3.3	-	2.7	3.7	3.5	3.3	-	3.0	...
<b>Rooms</b>									
1 room.....	-	-	-	-	-	-	-	-	...
2 rooms.....	-	-	-	-	-	-	-	-	...
3 rooms.....	2.1	.2	.9	-	-	-	-	1.0	...
4 rooms.....	9.8	.2	4.3	2.1	.3	-	-	2.9	880
5 rooms.....	14.0	-	1.7	6.3	2.1	.8	.2	2.9	1 308
6 rooms.....	18.8	-	1.1	8.8	3.9	1.0	.2	3.9	1 366
7 rooms.....	11.2	-	-	3.3	5.1	1.6	.4	.9	1 687
8 rooms.....	8.0	-	.2	1.7	1.9	1.8	1.9	.5	2 000
9 rooms.....	2.1	-	-	.3	.2	.7	.5	.5	...
10 rooms or more.....	.7	-	-	-	-	-	.7	-	...
Median.....	5.9	-	4.2	5.8	6.6	7.2	-	5.3	...
<b>Bedrooms</b>									
None.....	-	-	-	-	-	-	-	-	...
1.....	2.7	.2	1.1	-	-	-	-	1.4	...
2.....	15.6	.2	5.6	6.0	.8	-	-	3.1	1 041
3.....	31.9	-	1.3	12.7	8.7	1.9	1.0	6.3	1 454
4 or more.....	16.5	-	.2	3.7	4.1	3.9	2.9	1.8	1 933
Median.....	3.0	-	2.0	2.9	3.2	3.5+	-	2.8	...
<b>Complete Bathrooms</b>									
None.....	-	-	-	-	-	-	-	-	...
1.....	18.5	.3	6.4	6.5	.9	.2	-	4.3	1 029
1 and one-half.....	7.7	-	.3	2.9	1.4	.4	.3	2.3	1 402
2 or more.....	40.5	-	1.4	13.0	11.2	5.2	3.7	6.0	1 629
<b>Lot Size</b>									
Less than one-eighth acre.....	7.1	-	1.1	3.6	.8	.2	.2	1.0	1 259
One-eighth up to one-quarter acre.....	12.2	-	.7	4.5	3.4	1.4	.9	1.2	1 535
One-quarter up to one-half acre.....	2.8	-	.4	1.0	.3	.4	.4	.3	...
One-half up to one acre.....	.1	-	.1	-	-	-	-	-	...
1 to 4 acres.....	.4	-	.2	-	-	-	-	.2	...
5 to 9 acres.....	-	-	-	-	-	-	-	-	...
10 acres or more.....	.2	-	-	-	-	.2	-	-	...
Don't know.....	38.8	.2	5.0	12.4	8.1	3.2	2.4	7.5	1 422
Not reported.....	5.2	.2	.6	.9	1.0	.4	-	2.2	1 443
Median.....	.17	-	.15	.15	.18	.21	-	.17	...
<b>Income of Families and Primary Individuals</b>									
Less than \$5,000.....	1.7	-	.2	.5	.2	.2	-	.6	...
\$5,000 to \$9,999.....	3.3	-	.6	1.0	.4	.4	-	.9	...
\$10,000 to \$14,999.....	4.6	.2	.9	1.8	.7	-	-	.9	...
\$15,000 to \$19,999.....	3.9	-	.8	.4	.4	.4	-	1.9	...
\$20,000 to \$24,999.....	4.5	-	1.1	1.4	.5	.2	-	1.2	...
\$25,000 to \$29,999.....	7.2	-	1.6	1.9	1.6	.8	.4	.9	1 407
\$30,000 to \$34,999.....	4.7	-	.8	1.9	.7	.2	-	1.1	...
\$35,000 to \$39,999.....	3.5	-	.2	.8	1.3	.2	-	1.0	...
\$40,000 to \$49,999.....	7.9	.2	.7	3.5	1.7	.6	.8	.4	1 408
\$50,000 to \$59,999.....	8.3	-	.9	3.4	1.2	.4	.9	1.5	1 367
\$60,000 to \$79,999.....	9.7	-	.2	3.0	2.7	1.6	.9	1.4	1 696
\$80,000 to \$99,999.....	4.9	-	.2	1.8	1.4	.4	.7	.4	...
\$100,000 to \$119,999.....	1.2	-	-	.5	.2	-	.2	.2	...
\$120,000 or more.....	1.5	-	-	.4	.4	.4	-	.3	...
Median.....	40 187	-	26 303	44 017	44 655	49 405	-	29 523	...
<b>Monthly Housing Costs</b>									
Less than \$100.....	.2	-	-	-	-	-	-	.2	...
\$100 to \$199.....	-	-	-	.3	-	-	-	.2	...
\$200 to \$249.....	.4	-	.2	.2	.2	-	-	.4	...
\$250 to \$299.....	1.0	-	.2	.1	-	-	-	-	...
\$300 to \$349.....	.4	-	.2	-	-	.2	-	-	...
\$350 to \$399.....	.2	-	.4	-	-	-	-	-	...
\$400 to \$449.....	2.0	.2	.3	-	.7	-	-	.7	...
\$450 to \$499.....	.9	-	.3	-	-	-	-	.5	...
\$500 to \$599.....	2.7	-	.9	.9	.2	.2	-	.6	...
\$600 to \$699.....	1.2	.2	.4	.4	.2	.2	-	.2	...
\$700 to \$799.....	4.4	-	1.1	1.3	-	.4	-	1.6	...
\$800 to \$999.....	13.8	-	2.3	6.4	1.7	.6	-	2.9	1 251
\$1,000 to \$1,249.....	15.3	-	1.4	6.5	3.5	.9	.2	2.7	1 370
\$1,250 to \$1,499.....	13.3	-	.3	3.9	4.6	1.5	1.3	1.6	1 668
\$1,500 or more.....	8.1	-	.5	1.1	2.2	2.0	1.9	.3	2 007
No cash rent.....	2.9	-	.2	1.3	.2	.4	.2	.6	...
Mortgage payment not reported.....	-	-	-	-	-	-	-	-	...
Median (excludes no cash rent).....	1 077	-	854	1 041	1 258	1 381	-	914	...

**Table 4-19. Income, Costs, and Mortgage - Renter Occupied Units**

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Owner occupied								Renter occupied				
	With mortgage				With no mortgage				All renters		Unsubsidized renters <sup>1</sup>		
	Total	Specified <sup>2</sup>	Not specified		Total	Specified <sup>2</sup>	Not specified		Specified <sup>3</sup>	Other	Specified <sup>3</sup>	Other	
			Condo or Coop	Other			Condo or Coop	Other					
<b>Total</b> .....	---	---	---	---	---	---	---	---	---	332.3	.4	318.1	.4
<b>Income of Families and Primary Individuals</b>													
Less than \$5,000.....	---	---	---	---	---	---	---	---	---	16.5	---	15.4	---
\$5,000 to \$9,999.....	---	---	---	---	---	---	---	---	---	23.5	---	18.5	---
\$10,000 to \$14,999.....	---	---	---	---	---	---	---	---	---	28.4	---	26.2	---
\$15,000 to \$19,999.....	---	---	---	---	---	---	---	---	---	29.4	---	28.3	---
\$20,000 to \$24,999.....	---	---	---	---	---	---	---	---	---	32.9	---	31.5	---
\$25,000 to \$29,999.....	---	---	---	---	---	---	---	---	---	44.2	---	42.6	---
\$30,000 to \$34,999.....	---	---	---	---	---	---	---	---	---	30.2	---	29.4	---
\$35,000 to \$39,999.....	---	---	---	---	---	---	---	---	---	22.5	---	22.5	---
\$40,000 to \$49,999.....	---	---	---	---	---	---	---	---	---	40.7	---	40.1	---
\$50,000 to \$59,999.....	---	---	---	---	---	---	---	---	---	23.2	.2	23.0	.2
\$60,000 to \$79,999.....	---	---	---	---	---	---	---	---	---	22.7	.2	22.4	.2
\$80,000 to \$99,999.....	---	---	---	---	---	---	---	---	---	11.0	---	11.0	---
\$100,000 to \$119,999.....	---	---	---	---	---	---	---	---	---	3.6	---	3.6	---
\$120,000 or more.....	---	---	---	---	---	---	---	---	---	3.8	---	3.6	---
<b>Median</b> .....	---	---	---	---	---	---	---	---	---	29 018	---	29 581	---
<b>Monthly Housing Costs</b>													
Less than \$100.....	---	---	---	---	---	---	---	---	---	.8	---	.6	---
\$100 to \$199.....	---	---	---	---	---	---	---	---	---	4.1	---	.8	---
\$200 to \$249.....	---	---	---	---	---	---	---	---	---	2.4	---	.3	---
\$250 to \$299.....	---	---	---	---	---	---	---	---	---	2.3	---	.7	---
\$300 to \$349.....	---	---	---	---	---	---	---	---	---	1.5	---	.7	---
\$350 to \$399.....	---	---	---	---	---	---	---	---	---	2.4	---	2.2	---
\$400 to \$449.....	---	---	---	---	---	---	---	---	---	3.9	---	3.7	---
\$450 to \$499.....	---	---	---	---	---	---	---	---	---	5.2	---	4.3	---
\$500 to \$599.....	---	---	---	---	---	---	---	---	---	25.4	---	24.5	---
\$600 to \$699.....	---	---	---	---	---	---	---	---	---	54.1	---	53.5	---
\$700 to \$799.....	---	---	---	---	---	---	---	---	---	61.0	---	60.6	---
\$800 to \$999.....	---	---	---	---	---	---	---	---	---	90.2	---	89.4	---
\$1,000 to \$1,249.....	---	---	---	---	---	---	---	---	---	40.3	.2	40.1	.2
\$1,250 to \$1,499.....	---	---	---	---	---	---	---	---	---	20.5	.2	20.3	.2
\$1,500 or more.....	---	---	---	---	---	---	---	---	---	11.2	---	11.2	---
No cash rent.....	---	---	---	---	---	---	---	---	---	7.1	---	5.2	---
Mortgage payment not reported.....	---	---	---	---	---	---	---	---	---	---	---	---	---
<b>Median (excludes no cash rent)</b> .....	---	---	---	---	---	---	---	---	---	799	---	810	---
<b>Monthly Housing Costs as Percent of Current Income<sup>5</sup></b>													
Less than 5 percent.....	---	---	---	---	---	---	---	---	---	1.4	---	1.4	---
5 to 9 percent.....	---	---	---	---	---	---	---	---	---	3.3	---	3.1	---
10 to 14 percent.....	---	---	---	---	---	---	---	---	---	15.2	---	14.4	---
15 to 19 percent.....	---	---	---	---	---	---	---	---	---	37.7	---	36.4	---
20 to 24 percent.....	---	---	---	---	---	---	---	---	---	47.0	.2	46.2	.2
25 to 29 percent.....	---	---	---	---	---	---	---	---	---	46.4	.2	43.3	.2
30 to 34 percent.....	---	---	---	---	---	---	---	---	---	38.0	---	34.8	---
35 to 39 percent.....	---	---	---	---	---	---	---	---	---	24.7	---	23.6	---
40 to 49 percent.....	---	---	---	---	---	---	---	---	---	37.7	---	36.0	---
50 to 59 percent.....	---	---	---	---	---	---	---	---	---	17.5	---	16.6	---
60 to 69 percent.....	---	---	---	---	---	---	---	---	---	12.5	---	12.2	---
70 to 99 percent.....	---	---	---	---	---	---	---	---	---	21.3	---	20.8	---
100 percent or more <sup>4</sup> .....	---	---	---	---	---	---	---	---	---	19.3	---	19.1	---
Zero or negative income.....	---	---	---	---	---	---	---	---	---	5.1	---	4.9	---
No cash rent.....	---	---	---	---	---	---	---	---	---	7.1	---	5.2	---
Mortgage payment not reported.....	---	---	---	---	---	---	---	---	---	---	---	---	---
<b>Median (excludes 3 previous lines)</b> .....	---	---	---	---	---	---	---	---	---	31	---	31	---

<sup>1</sup>Excludes units in public housing projects, and housing units with government rent subsidies.  
<sup>2</sup>Limited to one-unit structures on less than 10 acres and no business on property.  
<sup>3</sup>Excludes one-unit structures on 10 acres or more.  
<sup>4</sup>May reflect a temporary situation, living off savings, or response error.  
<sup>5</sup>Beginning with 1989 this item uses current income in its calculation. See appendix A.







Table 4-20. **Income of Families and Primary Individuals by Selected Characteristics - Renter Occupied Units—Con.**

[Numbers in thousands. For meaning of symbols, see text.]

Characteristics	Total	Zero to negative	\$1 to \$4,999	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$19,999	\$20,000 to \$29,999	\$30,000 to \$39,999	\$40,000 to \$59,999	\$60,000 to \$79,999	\$80,000 to \$99,999	\$100,000 to \$119,999	\$120,000 or more	Median
<b>Monthly Housing Costs as Percent of Current Income<sup>3</sup></b>														
Less than 5 percent .....	1.4	-	-	-	-	-	.4	-	.2	-	-	-	.8	...
5 to 9 percent .....	3.3	-	-	-	-	-	.6	-	.5	-	1.1	-	1.1	...
10 to 14 percent .....	15.2	.2	-	.2	-	.4	1.6	1.2	2.0	4.0	2.9	1.6	1.2	70 230
15 to 19 percent .....	37.7	-	-	.7	.2	.7	1.6	3.7	15.7	8.9	5.0	1.1	.3	55 358
20 to 24 percent .....	47.2	.2	.2	.6	.5	.4	4.6	11.8	20.6	6.4	1.4	.7	-	45 231
25 to 29 percent .....	46.6	-	-	1.9	1.4	1.2	10.8	14.4	13.8	2.4	.4	-	-	35 425
30 to 34 percent .....	36.0	-	.6	.5	.5	2.2	14.4	11.5	5.9	.3	-	-	-	29 842
35 to 39 percent .....	24.7	-	.2	1.1	.4	2.5	13.4	3.6	3.0	.4	-	-	-	26 033
40 to 49 percent .....	37.7	.4	.2	1.3	2.8	9.9	18.5	3.5	1.1	.2	-	-	-	22 380
50 to 59 percent .....	17.5	-	.2	.9	4.3	5.8	4.4	1.3	.4	-	.3	-	-	17 912
60 to 69 percent .....	12.5	-	-	1.0	4.6	3.5	2.7	.4	-	-	-	-	-	15 837
70 to 99 percent .....	21.3	-	.5	6.1	10.2	1.9	2.5	-	-	-	-	-	-	11 953
100 percent or more <sup>2</sup> .....	19.3	-	6.7	8.6	3.1	.2	.4	.2	-	-	-	.2	-	6 741
Zero or negative income .....	5.1	5.1	-	-	-	-	-	-	-	-	-	-	-	...
No cash rent .....	7.1	.8	1.1	.5	.4	.8	1.2	1.1	.8	.3	-	-	.2	20 203
Mortgage payment not reported .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Median (excludes 3 previous lines) .....</b>	<b>31</b>	<b>25</b>	<b>100+</b>	<b>86</b>	<b>69</b>	<b>47</b>	<b>36</b>	<b>28</b>	<b>23</b>	<b>19</b>	<b>17</b>	<b>...</b>	<b>...</b>	<b>...</b>
<b>Rent Reductions</b>														
No subsidy or income reporting .....	312.2	6.1	8.8	18.0	25.6	28.2	72.9	51.2	62.6	21.6	10.6	3.6	3.1	29 531
Rent control .....	-	-	-	-	-	-	-	-	-	-	-	-	-	...
No rent control .....	312.1	6.1	8.8	18.0	25.6	28.2	72.9	51.2	62.4	21.6	10.6	3.6	3.1	29 519
Reduced by owner .....	9.8	.7	.7	1.1	.2	-	1.8	1.7	2.1	.7	.4	.4	-	32 235
Not reduced by owner .....	300.0	5.1	8.1	16.4	25.4	27.8	70.5	49.5	59.8	20.9	10.2	3.2	3.1	29 534
Owner reduction not reported .....	2.2	.3	-	.5	-	.4	.6	-	.5	-	-	-	-	19 203
Rent control not reported .....	.2	-	-	-	-	-	-	-	.2	-	-	-	-	50 000
Owned by public housing authority .....	2.6	-	.2	.5	-	.5	.7	.4	.2	-	-	-	-	20 054
Other, Federal subsidy .....	7.7	-	.4	3.2	1.7	.3	1.4	.3	.3	.2	-	-	-	10 897
Other, State or local subsidy .....	3.1	.4	.2	1.2	.5	.2	.4	-	.3	-	-	-	-	9 107
Other, income verification .....	.8	-	-	-	-	-	.4	.2	-	.2	-	-	-	30 687
Subsidy or income verification not reported .....	6.2	.2	.4	.5	.6	.2	1.3	.6	.8	.9	.4	-	.5	30 462

<sup>1</sup>For mobile home, oldest category is 1939 or earlier.

<sup>2</sup>May reflect a temporary situation, living off savings, or response error.

<sup>3</sup>Beginning with 1989 this item uses current income in its calculation. See appendix A.





Table 6-1. **Introductory Characteristics - Occupied Units with Hispanic Householder**

[Numbers in thousands. ... means not applicable or sample too small. - means zero or rounds to zero.]

Characteristics	Total occupied units	Tenure		Housing unit characteristics				Household characteristics			Selected subareas <sup>1</sup>		
		Owner	Renter	New construction 4 yrs	Mobile homes	Physical problems		Elderly (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
						Severe	Moderate						
<b>Total</b> .....	121.9	48.3	75.7	8.9	1.6	2.3	8.0	7.8	39.3	17.0	17.4	37.0	6.5
<b>Tenure</b>													
Owner occupied.....	46.3	46.3	...	4.9	1.4	.6	.7	5.6	7.1	2.6	6.5	12.5	2.5
Percent of all occupied.....	38.0	100.0	...	55.3	88.1	26.4	8.9	72.5	18.1	15.2	37.2	33.7	37.8
Renter occupied.....	75.7	...	75.7	4.0	.2	1.7	7.2	2.1	32.1	14.4	10.9	24.5	4.1
<b>Race and Origin</b>													
White.....	107.2	41.2	66.1	6.8	.8	2.0	7.1	7.6	33.0	15.0	14.5	34.5	4.2
Non-Hispanic.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Hispanic.....	107.2	41.2	66.1	6.8	.8	2.0	7.1	7.6	33.0	15.0	14.5	34.5	4.2
Black.....	.2	-	.2	-	-	-	-	-	.2	-	-	-	-
Other.....	14.5	5.1	9.4	2.0	.8	.3	.9	.2	6.1	2.0	2.9	2.5	2.3
Total Hispanic.....	121.9	48.3	75.7	8.9	1.6	2.3	8.0	7.8	39.3	17.0	17.4	37.0	6.5
<b>Units in Structure</b>													
1, detached.....	51.7	37.4	14.4	2.4	...	.8	2.0	6.0	7.5	5.4	6.9	15.6	2.6
1, attached.....	4.8	2.5	2.3	.6	...	-	.2	.6	1.1	.2	-	1.3	.2
2 to 4.....	24.8	2.1	22.8	.8	...	.5	2.1	.2	9.0	5.0	4.7	7.6	.3
5 to 9.....	13.8	1.7	12.1	1.4	...	-	1.4	.4	7.1	1.7	2.5	3.0	2.0
10 to 19.....	13.3	.8	12.5	.7	...	.4	1.2	-	7.5	1.7	1.2	5.2	.7
20 to 49.....	8.7	-	8.7	1.1	...	.2	.8	.2	4.3	2.6	1.4	2.8	.6
50 or more.....	3.3	.4	2.8	1.3	...	.4	.2	.4	1.9	.4	.5	1.3	-
Mobile home or trailer.....	1.6	1.4	.2	.7	1.6	-	-	-	1.0	-	.3	.2	-
<b>Cooperatives and Condominiums</b>													
Cooperatives.....	.2	-	.2	-	-	-	-	-	-	-	-	.2	-
Condominiums.....	8.3	6.2	2.1	1.7	-	-	-	.4	2.9	.4	.2	2.3	.6
<b>Year Structure Built<sup>2</sup></b>													
1990 to 1994.....	.6	.4	.2	.6	-	-	-	-	.6	-	-	-	-
1985 to 1989.....	12.2	5.4	6.8	8.2	.7	.6	.4	.9	5.3	.7	.5	2.8	.7
1980 to 1984.....	4.2	2.3	1.9	...	-	-	-	.2	1.9	.2	.2	1.7	.4
1975 to 1979.....	9.5	3.2	6.4	...	.2	.2	-	.4	2.9	.9	-	1.5	.5
1970 to 1974.....	18.1	3.7	14.4	...	.7	-	-	1.0	9.2	2.8	2.3	4.8	1.0
1960 to 1969.....	42.1	18.2	26.0	...	-	.5	2.7	2.0	12.0	5.8	7.1	10.3	2.9
1950 to 1959.....	21.8	10.5	11.3	...	-	.4	2.4	2.6	5.2	3.9	5.5	8.3	1.0
1940 to 1949.....	6.5	2.2	4.3	...	-	.5	.5	.4	.9	2.4	.8	3.7	-
1930 to 1939.....	4.1	1.5	2.6	...	-	.2	.5	.9	.2	.2	.3	2.4	-
1920 to 1929.....	1.5	.8	.9	...	-	-	.2	.2	.4	.2	.2	.7	-
1919 or earlier.....	1.2	.2	.9	...	-	-	.2	-	.6	-	.5	.7	-
Median.....	1966	1965	1967	...	...	-	1961	1959	1970	1963	1962	1963	1968
<b>Statistical Areas</b>													
Current units, in 1970 boundaries of SMSA.....	121.9	48.3	75.7	8.9	1.6	2.3	8.0	7.8	39.3	17.0	17.4	37.0	6.5
1970 central city(s).....	60.9	21.4	39.5	2.6	.7	1.8	5.5	2.9	20.5	10.3	17.4	37.0	6.5
1970 balance of SMSA.....	61.0	24.9	36.2	6.2	.9	.6	2.5	4.8	18.7	6.7	-	-	-
Current units, in 1983 boundaries of MSA.....	121.9	48.3	75.7	8.9	1.6	2.3	8.0	7.8	39.3	17.0	17.4	37.0	6.5
1983 central city(s).....	54.4	18.9	35.4	2.2	.5	1.3	5.1	2.9	19.2	9.0	17.4	37.0	-
1983 balance of MSA.....	67.6	27.3	40.2	6.7	1.1	1.1	2.8	4.8	20.1	8.0	-	-	6.5

<sup>1</sup>See back cover for details.<sup>2</sup>For mobile home, oldest category is 1939 or earlier.

Table 6-2. Height and Condition of Building - Occupied Units with Hispanic Householder

[Numbers in thousands. ... means not applicable or sample too small. - means zero or rounds to zero.]

Characteristics	Total occupied units	Tenure		Housing unit characteristics				Household characteristics			Selected subareas <sup>1</sup>		
		Owner	Renter	New construction 4 yrs	Mobile homes	Physical problems		Elderly (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
						Severe	Moderate						
<b>Total</b> .....	121.9	46.3	75.7	8.9	1.6	2.3	8.0	7.8	39.3	17.0	17.4	37.0	6.5
<b>Stories in Structure</b>													
1.....	57.2	32.1	25.0	.9	1.6	1.0	2.6	6.3	11.9	7.8	8.2	20.3	2.9
2.....	58.5	13.1	45.3	5.8	-	.7	5.1	1.3	24.7	8.6	8.5	13.5	3.6
3.....	5.1	1.0	4.1	1.7	-	.6	.2	-	1.8	.4	.5	2.5	-
4 to 6.....	1.1	-	1.1	.5	-	-	-	-	.9	-	.2	.7	-
7 or more.....	.2	-	.2	-	-	-	-	.2	-	.2	-	-	-
<b>Stories Between Main and Apartment Entrances</b>													
Multiunits, 2 or more floors.....	52.0	4.2	47.8	5.3	...	1.3	4.9	1.2	25.4	8.3	8.2	14.9	2.8
None (on same floor).....	22.5	2.8	19.7	2.4	...	.2	2.8	.6	10.6	4.3	3.9	5.8	1.4
1 (up or down).....	16.8	1.0	15.8	1.5	...	.8	1.4	-	7.3	2.2	2.6	3.5	1.1
2 or more (up or down).....	12.2	.4	11.8	1.3	...	.3	.7	.6	7.1	1.8	1.5	5.6	.4
Not reported.....	.5	-	.5	-	...	-	-	-	.4	-	.2	-	-
<b>Common Stairways</b>													
Multiunits, 2 or more floors.....	52.0	4.2	47.8	5.3	...	1.3	4.9	1.2	25.4	8.3	8.2	14.9	2.8
No common stairways.....	12.7	3.0	9.7	1.7	...	.2	1.1	.2	4.2	1.6	1.1	3.4	1.2
With common stairways.....	39.3	1.2	38.1	3.5	...	1.2	3.8	1.0	21.2	6.7	7.1	11.5	1.7
No loose steps.....	36.5	1.2	35.3	3.5	...	1.2	3.5	1.0	20.1	6.5	6.6	11.3	1.5
Railings not loose.....	33.5	1.2	32.3	3.5	...	1.2	3.1	.8	18.5	5.6	6.0	10.7	1.3
Railings loose.....	1.6	-	1.6	-	...	-	.4	-	.9	.5	.4	.5	.2
No railings.....	1.4	-	1.4	-	...	-	-	.2	.7	.4	.2	-	-
Status of railings not reported.....	-	-	-	-	...	-	-	-	-	-	-	-	-
Loose steps.....	2.8	-	2.8	-	...	-	.3	-	1.1	.2	.6	.2	.2
Railings not loose.....	2.4	-	2.4	-	...	-	.3	-	.9	.2	.6	-	.2
Railings loose.....	.2	-	.2	-	...	-	-	-	.2	-	-	-	-
No railings.....	.2	-	.2	-	...	-	-	-	-	-	-	.2	-
Status of railings not reported.....	-	-	-	-	...	-	-	-	-	-	-	-	-
Status of steps not reported.....	-	-	-	-	...	-	-	-	-	-	-	-	-
Status of stairways not reported.....	-	-	-	-	...	-	-	-	-	-	-	-	-
<b>Light Fixtures in Public Halls</b>													
2 or more units in structure.....	63.8	5.0	58.8	5.3	...	1.5	5.8	1.2	29.7	11.4	10.3	19.8	3.6
No public halls.....	44.0	3.9	40.1	2.8	...	.3	4.5	.7	19.4	8.4	7.4	13.9	2.7
No light fixtures in public halls.....	.4	-	.4	-	...	-	-	-	.2	.2	-	.2	-
All in working order.....	6.8	.7	6.2	1.5	...	-	.4	.3	4.5	.7	.8	2.5	-
Some in working order.....	.4	-	.4	-	...	.2	-	-	.2	-	-	.2	-
None in working order.....	-	-	-	-	...	-	-	-	-	-	-	-	-
Unable to determine if working.....	12.2	.4	11.8	.9	...	1.0	.9	.2	5.4	2.2	2.1	3.0	.9
Not reported.....	-	-	-	-	...	-	-	-	-	-	-	-	-
<b>Elevator on Floor</b>													
Multiunits, 2 or more floors.....	52.0	4.2	47.8	5.3	...	1.3	4.9	1.2	25.4	8.3	8.2	14.9	2.8
With 1 or more elevators working.....	2.9	.2	2.7	1.3	...	.2	-	.4	1.7	.6	.5	.9	-
With elevator, none in working condition.....	.7	-	.7	.4	...	-	.2	-	.4	-	-	.7	-
No elevator.....	48.3	4.0	44.3	3.5	...	1.1	4.7	.8	23.1	7.7	7.7	13.2	2.8
Units 3 or more floors from main entrance.....	.2	-	.2	-	...	-	-	-	-	-	-	-	-
<b>Foundation</b>													
1 unit bldg. excl. mobile homes.....	56.5	39.9	16.7	2.9	...	.8	2.2	6.6	8.6	5.6	6.9	16.9	2.8
With basement under all of building.....	.2	-	.2	-	...	-	-	-	-	-	-	.2	-
With basement under part of building.....	.9	-	.9	-	...	-	.2	.3	.3	-	.3	.4	-
With crawl space.....	17.1	11.9	5.1	.2	...	.8	.5	2.9	1.4	1.6	3.7	6.6	1.1
On concrete slab.....	37.5	27.0	10.5	2.7	...	-	1.5	3.2	6.9	4.0	3.0	9.7	1.6
Other.....	.9	.7	.2	-	...	-	-	.2	-	-	-	-	-
<b>External Building Conditions<sup>2</sup></b>													
Sagging roof.....	-	-	-	-	...	-	-	-	-	-	-	-	-
Missing roofing material.....	.8	.2	.6	-	...	.2	-	.2	.3	.5	-	-	.2
Hole in roof.....	.4	-	.4	-	...	-	.2	-	.2	.4	-	-	.2
Could not see roof.....	1.5	.2	1.2	-	...	-	-	-	.5	.2	.2	.4	-
Missing bricks, siding, other outside wall material.....	.7	-	.7	-	...	-	.4	-	.2	.5	-	.4	.2
Sloping outside walls.....	.5	-	.5	-	...	-	.2	-	.2	.2	-	.4	-
Boarded up windows.....	.2	-	.2	-	...	-	.2	-	.2	.4	-	.2	-
Broken windows.....	1.7	.4	1.3	-	...	-	.2	.2	.2	.4	.2	.7	-
Bars on windows.....	1.4	.7	.7	-	...	-	-	-	.6	.4	-	1.1	-
Foundation crumbling or has open crack or hole.....	1.6	.6	1.0	-	...	-	.2	.2	.2	.3	-	.7	-
Could not see foundation.....	2.2	.4	1.8	.2	...	.2	.2	-	1.1	.8	-	.2	.2
None of the above.....	112.9	43.7	69.2	8.4	1.6	2.1	7.0	7.0	37.0	14.9	16.6	33.9	6.4
Could not observe or not reported.....	1.1	.2	.9	.2	-	-	.2	.2	-	.2	.4	-	-
<b>Site Placement</b>													
Mobile homes.....	1.6	1.4	.2	.7	1.6	-	-	-	1.0	-	.3	.2	.2
First site.....	1.4	1.2	.2	.7	1.4	-	-	-	1.0	-	.3	.2	.2
Moved from another site.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Don't know.....	.2	.2	-	-	.2	-	-	-	-	-	-	-	-
Not reported.....	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Previous Occupancy</b>													
Unit built 1980 or later.....	17.0	8.1	8.9	8.9	.7	.6	.4	1.1	7.9	.8	.7	4.5	1.1
Not previously occupied.....	5.7	4.8	.9	4.8	.7	.2	.2	.4	2.2	.2	.5	.5	.2
Not reported.....	3.1	1.4	1.7	1.4	-	-	-	-	1.7	.2	.2	1.0	.2

<sup>1</sup>See back cover for details.

<sup>2</sup>Figures may not add to total because more than one category may apply to a unit.

Table 6-3: Size of Unit and Lot - Occupied Units with Hispanic Householder

[Numbers in thousands. ... means not applicable or sample too small. - means zero or rounds to zero.]

Characteristics	Total occupied units	Tenure		Housing unit characteristics				Household characteristics			Selected subareas <sup>1</sup>		
		Owner	Renter	New construction 4 yrs	Mobile homes	Physical problems		Elderly (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
						Severe	Moderate						
<b>Total</b> .....	121.9	46.3	75.7	8.9	1.6	2.3	8.0	7.8	39.3	17.0	17.4	37.0	6.5
<b>Rooms</b>													
1 room.....	-	-	-	-	-	-	-	-	-	-	-	-	-
2 rooms.....	1.8	-	1.8	-	-	-	.5	-	.3	.2	-	.9	-
3 rooms.....	19.1	.9	18.2	1.5	.2	.6	2.1	1.0	9.8	4.3	3.9	7.3	.8
4 rooms.....	34.4	4.5	29.9	2.4	.2	.7	2.5	.9	13.6	6.8	3.6	11.6	2.0
5 rooms.....	24.9	10.6	14.3	2.0	.6	.3	1.5	2.6	8.4	1.4	4.0	6.7	1.2
6 rooms.....	19.9	12.4	7.5	.8	.2	.6	.6	1.3	3.3	3.5	2.3	6.0	1.1
7 rooms.....	11.9	9.8	2.1	1.1	.3	-	.5	1.6	2.9	.2	2.6	3.8	.4
8 rooms.....	7.5	6.1	1.4	.4	-	-	-	.3	.4	.8	1.0	.5	.8
9 rooms.....	2.2	1.7	.4	.4	-	-	.2	.2	.5	-	-	.2	.2
10 rooms or more.....	.2	.2	-	.2	-	-	-	-	-	-	-	-	-
<b>Median</b> .....	4.7	6.1	4.1	4.7	-	-	4.0	5.3	4.2	4.1	4.8	4.4	4.9
<b>Bedrooms</b>													
None.....	.9	-	.9	-	-	-	-	-	.2	-	-	.4	-
1.....	24.3	1.1	23.2	2.4	.2	.6	2.9	1.0	12.9	5.5	4.4	10.6	.8
2.....	45.6	9.6	36.0	3.1	1.2	1.5	2.9	2.2	16.7	7.4	5.9	11.9	2.7
3.....	32.9	21.1	11.8	1.8	.2	.2	1.6	3.6	6.1	2.9	5.1	10.1	1.8
4 or more.....	18.2	14.5	3.8	1.5	-	-	.6	.9	3.4	1.2	2.0	4.0	1.3
<b>Median</b> .....	2.3	3.1	1.9	2.1	-	-	1.9	2.7	1.9	1.9	2.2	2.1	2.4
<b>Complete Bathrooms</b>													
None.....	.4	.2	.2	-	-	-	.2	.2	-	.2	-	-	-
1.....	55.3	7.7	47.5	2.9	.4	1.9	4.9	3.2	21.4	9.2	9.1	20.1	2.3
1 and one-half.....	15.2	6.8	8.4	.2	-	-	.7	1.9	4.5	2.8	2.6	5.4	.5
2 or more.....	51.1	31.5	19.6	5.8	1.1	.4	2.2	2.5	13.3	4.8	5.7	11.5	3.7
<b>Square Footage of Unit</b>													
Single detached and mobile homes.....	53.3	38.7	14.6	3.0	1.6	.8	2.0	6.0	8.4	5.4	7.1	15.8	2.8
Less than 500.....	.2	-	.2	-	-	-	-	-	.2	-	-	.2	-
500 to 749.....	1.8	.2	1.6	-	-	-	-	.2	-	.4	-	.9	-
750 to 999.....	4.5	2.6	2.0	.2	.4	.2	-	.9	.5	.5	.5	1.1	-
1,000 to 1,499.....	15.0	9.6	5.4	-	.5	.2	1.0	2.1	1.9	1.2	1.8	6.0	.6
1,500 to 1,999.....	10.9	9.0	1.9	1.1	-	-	.2	1.1	2.2	1.9	2.4	2.5	.2
2,000 to 2,499.....	4.3	3.8	.5	.4	-	-	.3	-	.6	.4	.3	.7	.2
2,500 to 2,999.....	1.8	1.8	-	-	-	-	-	-	.2	-	-	.4	-
3,000 to 3,999.....	.6	.6	-	-	-	-	-	-	-	-	-	.3	.2
4,000 or more.....	.5	.5	-	.2	-	-	-	-	-	-	-	-	.2
Not reported (includes don't know).....	13.8	10.7	3.1	1.1	.7	.4	.4	1.6	2.8	1.1	2.2	4.1	1.2
<b>Median</b> .....	1 443	1 591	1 191	-	-	-	-	1 247	1 557	1 508	1 533	1 307	-
<b>Lot Size</b>													
Less than one-eighth acre.....	5.9	5.0	.9	.6	.7	-	.2	.9	1.0	.2	.3	1.4	-
One-eighth up to one-quarter acre.....	12.3	11.4	.9	.9	-	.2	-	2.0	1.0	.8	1.6	1.7	1.1
One-quarter up to one-half acre.....	3.5	2.7	.7	.8	.2	.2	.2	.3	.6	.3	.5	.4	.5
One-half up to one acre.....	.5	.5	-	-	-	-	-	-	-	.3	.3	-	-
1 to 4 acres.....	.8	.7	.2	-	-	-	-	.2	-	-	-	-	-
5 to 9 acres.....	-	-	-	-	-	-	-	-	-	-	-	-	-
10 acres or more.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Don't know.....	29.9	18.2	11.7	.6	.5	.6	1.4	2.7	5.2	3.5	4.2	12.7	1.0
Not reported.....	5.2	2.8	2.4	.6	.2	-	.3	.4	1.8	.5	.2	.9	.4
<b>Median</b> .....	.18	.18	.19	-	-	-	-	.18	.17	.22	.21	.15	-
<b>Persons Per Room</b>													
0.50 or less.....	36.4	20.6	15.8	4.8	.8	.3	1.7	4.9	10.8	2.9	4.7	6.3	2.6
0.51 to 1.00.....	54.9	20.5	34.3	3.2	.7	.6	3.5	2.2	20.2	5.3	7.2	17.6	2.7
1.01 to 1.50.....	18.3	4.4	14.0	.7	-	.8	.8	.4	5.1	4.1	3.8	7.4	.3
1.51 or more.....	12.3	.7	11.6	.2	-	.5	2.0	.2	3.2	4.6	1.7	5.6	.9
<b>Square Feet Per Person</b>													
Single detached and mobile homes.....	53.3	38.7	14.6	3.0	1.6	.8	2.0	6.0	8.4	5.4	7.1	15.8	2.8
Less than 200.....	6.7	2.3	4.3	-	-	.4	-	.6	1.2	1.8	.8	2.9	.2
200 to 299.....	8.2	5.1	3.1	.4	-	-	.5	.9	.5	.4	1.2	3.1	.2
300 to 399.....	6.0	5.0	1.0	-	.3	-	-	.2	1.4	.4	.6	1.4	-
400 to 499.....	5.7	4.2	1.5	.6	.6	-	.4	.6	.7	.1	.7	1.7	.2
500 to 599.....	4.8	3.7	1.0	.4	-	-	.4	.7	.7	.9	.3	.7	.6
600 to 699.....	1.8	1.8	-	-	-	-	-	.2	.3	-	-	.2	.2
700 to 799.....	1.2	.9	.3	-	-	-	.3	.6	-	.3	.3	.7	-
800 to 899.....	1.3	1.3	-	-	-	-	-	-	-	-	.5	-	.2
900 to 999.....	.9	.9	-	-	-	-	-	.2	.2	-	.5	-	-
1,000 to 1,499.....	2.3	2.1	.2	.4	-	-	-	.3	.4	-	.7	-	-
1,500 or more.....	.7	.7	-	-	-	-	.2	.3	-	-	.3	-	-
Not reported.....	13.8	10.7	3.1	1.1	.7	.4	.4	1.6	2.8	1.1	2.2	4.1	1.2
<b>Median</b> .....	382	439	245	-	-	-	-	497	377	313	370	296	-

<sup>1</sup>See back cover for details.



Table 6-5. Fuels - Occupied Units with Hispanic Householder

[Numbers in thousands. ... means not applicable or sample too small. - means zero or rounds to zero.]

Characteristics	Total occupied units	Tenure		Housing unit characteristics				Household characteristics			Selected subareas <sup>1</sup>		
		Owner	Renter	New construction 4 yrs	Mobile homes	Physical problems		Elderly (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
						Severe	Moderate						
<b>Total</b> .....	121.9	46.3	75.7	8.9	1.6	2.3	8.0	7.8	39.3	17.0	17.4	37.0	6.5
<b>Main House Heating Fuel</b>													
Housing units with heating fuel.....	121.3	46.3	75.0	8.9	1.6	2.3	7.8	7.8	39.3	17.0	17.4	36.4	6.4
Electricity.....	21.2	4.0	17.2	3.5	.2	.8	1.8	1.3	10.7	2.3	2.7	6.2	1.2
Piped gas.....	96.9	40.8	56.2	5.2	1.4	1.3	5.8	6.3	27.2	14.4	14.3	29.7	4.8
Bottled gas.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Fuel oil.....	2.0	.6	1.5	.2	.2	.2	.2	.2	.9	.3	.2	.5	.4
Kerosene or other liquid fuel.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Coal or coke.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Wood.....	1.0	1.0	.2	.2	.2	.2	.2	.2	.2	.2	.3	.2	.2
Solar energy.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Other.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
<b>Other House Heating Fuels</b>													
With other heating fuels <sup>2</sup> .....	8.5	4.9	3.6	.6	.2	.2	.3	.4	1.6	.3	.2	.8	1.0
Electricity.....	2.3	.9	1.4	.2	.2	.2	.2	.3	.6	.2	.2	.2	.3
Piped gas.....	.7	.7	.7	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Bottled gas.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Fuel oil.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Kerosene or other liquid fuel.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Coal or coke.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Wood.....	5.7	4.2	1.5	.4	.2	.2	.4	.8	.8	.3	.2	.8	.8
Solar energy.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Other.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Not reported.....	.4	.4	.4	.4	.4	.4	.4	.4	.2	.2	.2	.2	.2
<b>Cooking Fuel</b>													
With cooking fuel.....	121.8	46.3	75.5	8.9	1.6	2.3	7.8	7.8	39.1	16.8	17.4	37.0	6.4
Electricity.....	25.2	9.9	15.3	3.0	.2	.6	1.3	1.9	8.9	2.3	2.4	5.6	2.2
Piped gas.....	96.3	36.3	60.0	5.8	1.4	1.7	6.4	5.9	30.0	14.6	15.0	31.3	4.1
Bottled gas.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Kerosene or other liquid fuel.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Coal or coke.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Wood.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Other.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
<b>Water Heating Fuel</b>													
With hot piped water.....	121.9	46.3	75.7	8.9	1.6	2.3	8.0	7.8	39.3	17.0	17.4	37.0	6.5
Electricity.....	13.3	2.1	11.2	1.8	.2	.4	1.1	.4	6.3	1.5	1.8	4.7	1.2
Piped gas.....	107.9	44.0	64.0	7.1	1.4	1.9	6.9	7.4	32.7	15.5	15.5	32.3	5.3
Bottled gas.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Fuel oil.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Kerosene or other liquid fuel.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Coal or coke.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Wood.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Solar energy.....	.3	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Other.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
<b>Central Air Conditioning Fuel</b>													
With central air conditioning.....	29.1	16.1	13.1	7.1	.2	.6	1.4	1.6	9.5	2.2	3.5	6.5	1.6
Electricity.....	24.5	13.5	11.0	6.6	.2	.6	1.4	1.6	8.1	1.9	2.7	5.3	1.6
Piped gas.....	4.6	2.6	2.0	.4	.2	.2	.2	.2	1.4	.4	.8	1.1	.2
Other.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
<b>Clothes Dryer Fuel</b>													
With clothes dryer.....	49.4	37.5	11.8	4.8	1.2	.2	1.9	4.4	9.0	4.0	6.0	11.0	3.6
Electricity.....	10.7	7.2	3.4	.9	.2	.2	.6	.4	2.5	1.1	.7	2.1	1.2
Piped gas.....	38.6	30.3	8.3	3.9	1.0	.2	1.1	4.0	6.4	2.8	5.2	8.9	2.1
Other.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
<b>Units Using Each Fuel<sup>2</sup></b>													
Electricity.....	121.9	46.3	75.7	8.9	1.6	2.3	8.0	7.8	39.3	17.0	17.4	37.0	6.5
All-electric units.....	8.8	1.1	7.7	1.1	.2	.4	.7	.4	4.6	1.1	1.4	3.5	.5
Piped gas.....	113.0	45.1	67.9	8.0	1.4	2.1	7.1	7.4	34.4	15.9	15.8	33.8	5.8
Bottled gas.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Fuel oil.....	2.4	.6	1.8	.2	.2	.2	.2	.2	1.1	.3	.2	.5	.4
Kerosene or other liquid fuel.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Coal or coke.....	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Wood.....	6.7	5.2	1.5	.6	.2	.2	.7	1.1	1.1	.3	.5	.6	.8
Solar energy.....	.6	.4	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
Other.....	.3	.3	.3	.3	.3	.3	.3	.3	.2	.2	.2	.2	.2

<sup>1</sup>See back cover for details.

<sup>2</sup>Figures may not add to total because more than one category may apply to a unit.



**Table 6-6. Failures in Equipment - Occupied Units with Hispanic Householder**

[Numbers in thousands. ... means not applicable or sample too small. - means zero or rounds to zero.]

Characteristics	Total occupied units	Tenure		Housing unit characteristics				Household characteristics			Selected subareas <sup>1</sup>		
		Owner	Renter	New construction 4 yrs	Mobile homes	Physical problems		Elderly (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
						Severe	Moderate						
<b>Total</b> .....	<b>121.9</b>	<b>46.3</b>	<b>75.7</b>	<b>8.9</b>	<b>1.6</b>	<b>2.3</b>	<b>8.0</b>	<b>7.8</b>	<b>39.3</b>	<b>17.0</b>	<b>17.4</b>	<b>37.0</b>	<b>6.5</b>
<b>Water Supply Stoppage</b>													
With hot and cold piped water.....	121.9	46.3	75.7	8.9	1.6	2.3	8.0	7.8	39.3	17.0	17.4	37.0	6.5
No stoppage in last 3 months.....	113.8	44.9	69.0	8.2	1.6	2.1	6.9	7.2	35.6	15.0	15.7	34.0	5.9
With stoppage in last 3 months.....	6.4	1.0	5.4	.2	-	.2	1.1	.2	2.7	1.3	1.7	2.2	.6
No stoppage lasting 6 hours or more.....	2.7	.5	2.2	-	-	-	.4	.2	1.0	.5	.7	1.0	.4
1 time lasting 6 hours or more.....	1.9	.2	1.7	.2	-	.2	.3	.2	.6	.2	.2	1.0	-
2 times.....	.8	-	.8	-	-	-	.2	-	.6	.2	.7	-	-
3 times.....	-	-	-	-	-	-	-	-	-	-	-	-	-
4 times or more.....	.2	-	.2	-	-	.2	-	.2	.2	-	-	-	-
Number of times not reported.....	.8	.3	.5	-	-	-	-	-	.3	.4	.2	.2	.3
Stoppage not reported.....	1.7	.5	1.3	.4	-	-	-	.4	1.0	.7	-	.8	-
<b>Flush Toilet Breakdowns</b>													
With one or more flush toilets.....	121.9	46.3	75.7	8.9	1.6	2.3	8.0	7.8	39.3	17.0	17.4	37.0	6.5
With at least one working toilet at all times in last 3 months.....	111.1	44.5	66.6	8.0	1.6	1.7	6.0	7.2	35.2	14.8	16.2	33.5	4.7
None working some time in last 3 months.....	10.9	1.8	9.1	.9	-	.6	2.0	.6	4.0	2.2	1.2	3.4	1.9
No breakdowns lasting 6 hours or more.....	3.3	.2	3.1	.2	-	.4	.4	.2	1.6	.6	.5	1.4	.8
1 time lasting 6 hours or more.....	3.9	1.6	2.3	.7	-	-	.4	.4	1.5	.4	.4	1.0	.3
2 times.....	.8	-	.8	-	-	-	.2	-	-	-	-	.5	-
3 times.....	.7	-	.7	-	-	-	.7	-	.2	.5	.2	.4	.2
4 times or more.....	.2	-	.2	-	-	-	.2	-	.2	-	-	-	-
Number of times not reported.....	2.0	-	2.0	-	-	.2	.2	-	.6	.7	.2	.2	.5
Breakdowns not reported.....	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Sewage Disposal Breakdowns</b>													
With public sewer.....	121.4	46.1	75.3	8.9	1.6	2.3	7.8	7.8	38.9	16.8	17.4	37.0	6.4
No breakdowns in last 3 months.....	118.9	45.8	73.1	8.9	1.6	2.3	7.2	7.8	38.1	16.3	17.4	36.2	6.4
With breakdowns in last 3 months.....	2.5	.2	2.3	-	-	-	.5	-	.9	.5	-	.7	-
No breakdowns lasting 6 hours or more.....	.9	-	.9	-	-	-	.4	-	.5	.4	-	.2	-
1 time lasting 6 hours or more.....	.9	.2	.7	-	-	-	-	-	.2	.2	-	.2	-
2 times.....	.7	-	.7	-	-	-	.2	-	.2	.2	-	.3	-
3 times.....	-	-	-	-	-	-	-	-	-	-	-	-	-
4 times or more.....	-	-	-	-	-	-	-	-	-	-	-	-	-
With septic tank or cesspool.....	.5	.2	.3	-	-	-	.2	-	.3	.2	-	-	.2
No breakdowns in last 3 months.....	.5	.2	.3	-	-	-	.2	-	.3	.2	-	-	.2
With breakdowns in last 3 months.....	-	-	-	-	-	-	-	-	-	-	-	-	-
No breakdowns lasting 6 hours or more.....	-	-	-	-	-	-	-	-	-	-	-	-	-
1 time lasting 6 hours or more.....	-	-	-	-	-	-	-	-	-	-	-	-	-
2 times.....	-	-	-	-	-	-	-	-	-	-	-	-	-
3 times.....	-	-	-	-	-	-	-	-	-	-	-	-	-
4 times or more.....	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Heating Problems</b>													
With heating equipment and occupied last winter.....	102.0	43.7	58.3	7.1	1.4	2.1	5.9	7.3	21.2	13.3	13.9	31.8	5.4
Not uncomfortably cold for 24 hours or more last winter.....	93.0	40.2	52.8	7.1	1.4	1.2	4.5	7.0	19.5	11.1	12.6	29.5	5.0
Uncomfortably cold for 24 hours or more last winter <sup>2</sup> .....	9.0	3.4	5.5	-	-	.9	1.4	.4	1.6	2.2	1.3	2.3	.3
Equipment breakdowns.....	3.7	1.1	2.5	-	-	.9	.9	.2	.7	.8	.7	.8	.3
No breakdowns lasting 6 hours or more.....	.4	-	.4	-	-	-	.2	-	-	-	.4	-	-
1 time lasting 6 hours or more.....	.5	-	.5	-	-	-	.2	-	.3	.2	-	.2	.2
2 times.....	.5	.5	-	-	-	-	-	-	-	-	-	-	-
3 times.....	-	-	-	-	-	-	-	-	-	-	-	-	-
4 times or more.....	.9	.2	.7	-	-	.9	-	.2	.4	.3	.2	.2	.2
Number of times not reported.....	1.4	.4	.9	-	-	-	.5	-	-	.2	.2	.6	-
Other causes.....	5.7	2.2	3.5	-	-	.3	.9	.4	.9	1.6	.9	1.2	-
Utility interruption.....	.2	.2	-	-	-	-	.2	-	.2	-	-	-	-
Inadequate heating capacity.....	2.6	.8	1.8	-	-	.2	.2	.2	.5	1.3	.2	.5	-
Inadequate insulation.....	1.2	.6	.6	-	-	-	.2	.2	.2	.2	.4	.4	-
Other.....	1.6	.6	1.0	-	-	.2	.4	.2	-	-	.4	.4	-
Not reported.....	.2	-	.2	-	-	-	.2	-	-	.2	-	-	-
Reason for discomfort not reported.....	.3	.3	-	-	-	-	-	-	-	-	-	.3	-
Discomfort not reported.....	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Electric Fuses and Circuit Breakers</b>													
With electrical wiring.....	121.9	46.3	75.7	8.9	1.6	2.3	8.0	7.8	39.3	17.0	17.4	37.0	6.5
No fuses or breakers blown in last 3 mo.....	111.4	40.9	70.6	8.4	1.2	2.0	7.4	7.4	35.7	15.4	15.1	35.1	5.6
With fuses or breakers blown in last 3 mo.....	9.1	4.7	4.4	.2	.4	.3	.6	.4	2.3	1.6	2.3	1.5	1.0
1 time.....	5.0	3.1	1.9	.2	.2	.3	.2	.2	1.1	.7	1.4	.9	.6
2 times.....	2.0	1.2	.7	-	.2	-	.2	.3	.4	.5	.4	.4	.2
3 times.....	.3	-	.3	-	-	-	-	-	.2	.2	-	.2	-
4 times or more.....	.8	.4	.4	-	-	-	.2	-	.2	-	.4	-	-
Number of times not reported.....	1.1	-	1.1	-	-	-	-	-	.5	.2	.2	-	.2
Problem not reported or don't know.....	1.4	.7	.7	.2	-	-	-	-	1.2	-	-	.4	-

<sup>1</sup>See back cover for details.

<sup>2</sup>Other causes and equipment breakdowns may not add to total as both may be reported.









Table 6-10. Previous Unit of Recent Movers - Occupied Units with Hispanic Householder

[Numbers in thousands. ... means not applicable or sample too small. - means zero or rounds to zero.]

Characteristics	Total occupied units	Tenure		Housing unit characteristics				Household characteristics			Selected subareas <sup>1</sup>		
		Owner	Renter	New construction 4 yrs	Mobile homes	Physical problems		Elderly (65+)	Moved in past year	Below poverty level	Area one	Area two	Area three
						Severe	Moderate						
<b>UNITS WHERE HOUSEHOLDER MOVED DURING PAST YEAR</b>													
Total.....	39.3	7.1	32.1	4.6	1.0	.8	3.6	.8	39.3	6.8	6.7	12.5	1.4
<b>Location of Previous Unit</b>													
Inside same (P)MSA.....	32.9	5.4	27.5	4.0	1.0	.4	3.1	.8	32.9	6.2	5.5	11.8	1.0
In central city(s).....	16.0	2.4	13.7	1.5	.2	.4	1.8	.2	16.0	3.8	4.6	9.2	-
Not in central city(s).....	16.9	3.1	13.8	2.5	.8	-	1.3	.5	16.9	2.5	1.0	2.6	1.0
Inside different (P)MSA in same state.....	4.5	1.0	3.6	.7	-	.4	.3	-	4.5	.3	1.1	.2	.4
In central city(s).....	1.7	.7	.9	.7	-	.2	.3	-	1.7	.2	.5	-	.2
Not in central city(s).....	2.9	.2	2.7	-	-	.2	-	-	2.9	.2	.6	.2	.2
Inside different (P)MSA in different state.....	1.0	.2	.7	-	-	-	.2	-	1.0	.2	-	.2	-
In central city(s).....	.6	.2	.4	-	-	-	.2	-	.6	.2	-	.2	-
Not in central city(s).....	.4	-	.4	-	-	-	-	-	.4	-	-	-	-
Outside any metropolitan area.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Same state.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Different state.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Different nation.....	.8	.5	.4	-	-	-	-	-	.8	-	-	.3	-
<b>Structure Type of Previous Residence</b>													
Moved from within United States.....	38.4	6.7	31.8	4.6	1.0	.8	3.6	.8	38.4	6.8	6.7	12.2	1.4
House.....	14.8	3.5	11.3	2.5	.8	.6	1.0	.2	14.8	2.4	2.1	5.0	1.0
Apartment.....	22.2	3.2	19.1	2.2	.2	.2	2.2	.5	22.2	4.0	4.4	7.0	.4
Mobile home.....	.5	-	.5	-	-	-	-	-	.5	-	-	-	-
Other.....	.9	-	.9	-	-	-	.4	-	.9	.3	.2	.2	-
<b>Tenure of Previous Residence</b>													
House, apt., mobile home in United States.....	37.6	6.7	30.9	4.6	1.0	.8	3.2	.8	37.6	6.4	6.5	12.1	1.4
Owner occupied.....	5.3	2.0	3.3	.4	-	-	.2	-	5.3	.4	.2	1.2	-
Renter occupied.....	32.3	4.7	27.6	4.2	1.0	.8	3.0	.8	32.3	6.1	6.3	10.8	1.4
<b>Persons - Previous Residence</b>													
House, apt., mobile home in United States.....	37.6	6.7	30.9	4.6	1.0	.8	3.2	.8	37.6	6.4	6.5	12.1	1.4
1 person.....	2.1	.6	1.5	.7	-	-	-	.2	2.1	-	.2	.4	.2
2 persons.....	5.0	.7	4.3	1.4	.4	-	.4	-	5.0	.4	.5	1.3	.4
3 persons.....	7.8	2.2	5.6	.8	.5	.4	.2	.2	7.8	.8	.7	2.0	-
4 persons.....	7.8	1.3	6.4	1.1	-	-	1.3	.1	7.8	1.6	1.9	2.5	.4
5 persons.....	3.8	.7	3.1	.2	-	-	.5	-	3.8	.3	.7	1.0	-
6 persons.....	4.6	.4	4.2	-	-	-	.2	-	4.6	1.2	1.0	2.3	-
7 persons or more.....	4.0	.5	3.5	.2	-	.4	.6	-	4.0	1.2	.9	2.1	.3
Not reported.....	2.5	.2	2.3	.2	-	-	.2	.2	2.5	.8	.7	.6	-
Median.....	3.8	3.4	3.9	-	-	-	-	-	3.8	4.5	4.3	4.3	-
<b>Previous Home Owned or Rented by Someone Who Moved Here</b>													
House, apt., mobile home in United States.....	37.6	6.7	30.9	4.6	1.0	.8	3.2	.8	37.6	6.4	6.5	12.1	1.4
Owned or rented by a mover.....	27.6	6.0	21.6	3.3	.8	.8	2.6	.5	27.6	4.8	4.0	9.0	.8
Owned or rented by other.....	8.4	.6	7.8	1.1	.2	.2	.5	-	8.4	.9	2.3	2.6	.6
By a relative.....	4.6	.4	4.1	.4	.2	.2	.3	-	4.6	.5	1.1	.8	.3
By a nonrelative.....	3.2	.2	3.0	.7	-	-	.2	-	3.2	.4	1.3	1.5	.2
Not reported.....	.6	-	.6	-	-	-	-	-	.6	-	-	.2	-
Not reported.....	1.5	-	1.5	.2	-	-	.2	.2	1.5	.7	.2	.5	-
<b>Change in Housing Costs</b>													
House, apt., mobile home in United States.....	37.6	6.7	30.9	4.6	1.0	.8	3.2	.8	37.6	6.4	6.5	12.1	1.4
Increased with move.....	23.1	4.9	18.1	2.8	.7	.8	2.4	.3	23.1	4.4	4.0	7.4	.9
Stayed about the same.....	7.3	1.2	6.1	.9	-	-	.3	-	7.3	.4	1.0	2.7	.2
Decreased.....	6.1	.5	5.6	.7	.3	-	.3	-	6.1	1.0	1.4	1.7	.2
Don't know.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Not reported.....	1.2	-	1.2	.2	-	-	.2	.2	1.2	.7	.2	.2	-

<sup>1</sup>See back cover for details.





















Table 6-17. **Rooms in Unit by Household and Unit Size, Income, and Costs - Occupied Units with Hispanic Householder—Con.**

[Numbers in thousands. ... means not applicable or sample too small. - means zero or rounds to zero.]

Characteristics	Occupied units											
	Total	Rooms					Bedrooms					
		1 and 2 rooms	3 and 4 rooms	5 and 6 rooms	7 rooms or more	Median	No rooms	1 room	2 rooms	3 rooms	4 rooms or more	Median
<b>OWNER OCCUPIED UNITS</b>												
Total.....	46.3	-	5.4	23.0	17.9	6.0	-	1.1	9.8	21.1	14.5	3.1
<b>Value</b>												
Less than \$10,000.....	-	-	-	-	-	-	-	-	-	-	-	-
\$10,000 to \$19,999.....	.2	-	.2	-	-	-	-	-	.2	-	-	-
\$20,000 to \$29,999.....	.7	-	-	.4	.2	-	-	-	-	.4	.2	-
\$30,000 to \$39,999.....	.6	-	.2	.4	-	-	-	.2	.4	-	-	-
\$40,000 to \$49,999.....	-	-	-	-	-	-	-	-	-	-	-	-
\$50,000 to \$59,999.....	.5	-	.2	.2	.2	-	-	-	.4	-	.2	-
\$60,000 to \$69,999.....	.2	-	-	.2	-	-	-	-	.2	-	-	-
\$70,000 to \$79,999.....	-	-	-	-	-	-	-	-	-	-	.2	-
\$80,000 to \$99,999.....	.6	-	-	-	.6	-	-	-	.3	-	.2	-
\$100,000 to \$119,999.....	2.3	-	1.4	.7	.2	-	-	.2	1.6	.2	.2	-
\$120,000 to \$149,999.....	3.7	-	.8	2.4	.5	-	-	.2	1.7	1.8	-	-
\$150,000 to \$199,999.....	12.1	-	.8	8.1	3.2	5.8	-	-	1.4	7.5	3.2	3.1
\$200,000 to \$249,999.....	10.6	-	1.2	5.0	4.4	6.1	-	.2	1.6	5.7	3.1	3.1
\$250,000 to \$299,999.....	6.2	-	-	2.9	3.2	6.5+	-	-	.4	3.3	2.4	3.3
\$300,000 or more.....	8.5	-	.5	2.6	5.4	6.5+	-	.2	1.3	2.1	4.9	3.5+
<b>Median</b> .....	<b>210 212</b>	<b>-</b>	<b>143 496</b>	<b>194 279</b>	<b>246 636</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>149 267</b>	<b>204 875</b>	<b>251 226</b>	<b>-</b>



**Table 6-18. Square Footage by Household and Unit Size, Income, and Costs - Occupied Units with Hispanic Householder**

[Numbers in thousands. ... means not applicable or sample too small. - means zero or rounds to zero.]

Characteristics	Size of occupied detached 1-family homes and mobile homes								Median
	Total	Less than 500 square feet	500 to 999 square feet	1000 to 1499 square feet	1500 to 1999 square feet	2000 to 2499 square feet	2500 square feet or more	Not reported	
<b>Total</b> .....	<b>53.3</b>	<b>.2</b>	<b>6.3</b>	<b>15.0</b>	<b>10.9</b>	<b>4.3</b>	<b>2.9</b>	<b>13.8</b>	<b>1,443</b>
<b>Persons</b>									
1 person.....	2.5	-	.4	.7	.5	-	-	.9	...
2 persons.....	8.7	.2	1.2	1.8	1.5	.9	.2	2.9	1,425
3 persons.....	9.6	-	1.0	2.4	2.4	.7	.5	2.6	1,521
4 persons.....	12.5	-	1.1	3.6	2.3	1.5	1.0	2.9	1,521
5 persons.....	8.9	-	1.0	3.4	1.1	1.1	.9	1.4	1,408
6 persons.....	3.7	-	.7	.6	1.2	-	-	1.2	...
7 persons or more.....	7.4	-	.9	2.6	1.8	-	.3	1.8	1,365
Median.....	4.0	---	4.0	4.2	3.9	---	---	3.6	---
<b>Rooms</b>									
1 room.....	-	-	-	-	-	-	-	-	...
2 rooms.....	-	-	-	-	-	-	-	-	...
3 rooms.....	.9	.2	.4	-	-	-	-	.4	...
4 rooms.....	4.8	-	2.2	.9	.3	-	-	1.4	...
5 rooms.....	11.3	-	2.2	4.2	1.5	.5	.2	2.7	1,247
6 rooms.....	15.5	-	.8	5.1	3.9	1.2	-	4.7	1,460
7 rooms.....	11.3	-	.8	3.3	3.1	1.2	.5	2.4	1,558
8 rooms.....	7.1	-	-	1.2	2.0	.9	1.1	1.8	1,856
9 rooms.....	2.2	-	-	.3	.2	.5	-	.4	...
10 rooms or more.....	.2	-	-	-	-	-	.2	-	...
Median.....	6.1	---	4.8	6.0	6.5	---	---	6.0	---
<b>Bedrooms</b>									
None.....	-	-	-	-	-	-	-	-	...
1.....	1.1	.2	.6	-	-	-	-	.4	...
2.....	10.2	-	3.5	3.1	1.0	-	-	2.6	1,052
3.....	24.3	-	2.3	8.5	5.2	2.0	.2	6.1	1,402
4 or more.....	17.7	-	-	3.4	4.7	2.3	2.6	4.6	1,829
Median.....	3.1	---	2.2	3.0	3.4	---	---	3.1	---
<b>Complete Bathrooms</b>									
None.....	.2	-	-	.2	-	-	-	-	...
1.....	12.2	.2	4.2	3.3	.4	.5	-	3.6	991
1 and one-half.....	6.9	-	.3	2.3	1.7	.4	.2	1.9	1,468
2 or more.....	34.0	-	1.7	9.1	8.8	3.4	2.6	8.4	1,612
<b>Lot Size</b>									
Less than one-eighth acre.....	5.7	-	.2	2.5	1.0	.9	.7	.4	1,485
One-eighth up to one-quarter acre.....	12.3	-	1.1	2.7	3.6	.7	1.2	3.1	1,615
One-quarter up to one-half acre.....	3.5	-	.4	.6	.8	.5	.4	.9	...
One-half up to one acre.....	.5	-	-	-	.3	-	-	.2	...
1 to 4 acres.....	.8	-	.4	-	-	-	.2	.2	...
5 to 9 acres.....	-	-	-	-	-	-	-	-	...
10 acres or more.....	-	-	-	-	-	-	-	-	...
Don't know.....	28.5	-	4.3	9.0	5.1	2.1	.4	7.7	1,339
Not reported.....	1.9	.2	-	.2	.3	.2	-	1.1	...
Median.....	.19	---	.22	.15	.19	---	---	.21	---
<b>Income of Families and Primary Individuals</b>									
Less than \$5,000.....	1.7	-	-	.6	.5	-	-	.6	...
\$5,000 to \$9,999.....	2.8	-	.2	.6	1.3	.4	-	.3	...
\$10,000 to \$14,999.....	4.3	.2	1.6	1.1	.6	-	-	.8	...
\$15,000 to \$19,999.....	2.9	-	.7	.2	.5	.4	.2	.9	...
\$20,000 to \$24,999.....	4.6	-	.7	2.0	.5	.2	.2	.9	...
\$25,000 to \$29,999.....	3.7	-	1.1	1.2	.7	.3	-	.7	...
\$30,000 to \$34,999.....	3.8	-	.3	1.1	.8	-	-	1.7	...
\$35,000 to \$39,999.....	3.9	-	.4	.8	.8	-	.3	1.6	...
\$40,000 to \$49,999.....	6.4	-	.7	2.6	1.5	.9	.2	1.1	1,502
\$50,000 to \$59,999.....	4.3	-	.7	1.5	.5	.2	.2	1.4	...
\$60,000 to \$79,999.....	6.4	-	.3	2.1	1.9	.3	.3	1.5	1,488
\$80,000 to \$99,999.....	3.8	-	.2	.7	.9	.9	.5	.6	...
\$100,000 to \$119,999.....	1.4	-	-	.2	.3	.3	.2	.7	...
\$120,000 or more.....	3.6	-	-	.3	.8	.5	1.1	1.0	...
Median.....	38,904	---	23,965	39,695	40,700	---	---	38,314	---
<b>Monthly Housing Costs</b>									
Less than \$100.....	.9	-	.4	.2	-	-	-	.3	...
\$100 to \$199.....	3.2	-	.7	1.2	.6	.2	-	.6	...
\$200 to \$249.....	.8	-	-	.4	.2	-	-	.2	...
\$250 to \$299.....	2.1	-	.4	.8	.4	-	-	.5	...
\$300 to \$349.....	1.9	-	-	.7	.2	.3	.2	.5	...
\$350 to \$399.....	.7	-	.2	.3	.3	-	-	.2	...
\$400 to \$449.....	1.4	.2	.4	.4	.4	-	.2	.2	...
\$450 to \$499.....	.7	-	.2	-	.2	-	-	.3	...
\$500 to \$599.....	3.2	-	.7	1.5	-	.2	-	.8	...
\$600 to \$699.....	1.8	-	.2	.2	.4	.4	-	.6	...
\$700 to \$799.....	2.5	-	.5	.3	.2	.2	-	1.3	...
\$800 to \$999.....	5.3	-	1.2	1.8	.6	.5	.3	.8	1,267
\$1,000 to \$1,249.....	7.2	-	.8	3.3	1.4	.3	-	1.5	1,310
\$1,250 to \$1,499.....	6.9	-	-	2.6	1.7	.4	.2	2.0	1,471
\$1,500 or more.....	8.8	-	.5	.9	2.7	.9	1.8	1.9	1,868
No cash rent.....	.9	-	-	.4	-	-	-	.5	...
Mortgage payment not reported.....	4.9	-	-	.2	1.6	1.0	.2	1.9	...
Median (excludes no cash rent).....	970	---	665	967	1,207	---	---	916	---
<b>Median Monthly Housing Costs For Owners</b>									
Monthly costs including all mortgages plus maintenance costs.....	1,068	---	---	697	1,334	---	---	1,162	---
Monthly costs excluding 2nd and subsequent mortgages and maintenance costs.....	890	---	---	683	1,053	---	---	930	---

Table 6-18. **Square Footage by Household and Unit Size, Income, and Costs - Occupied Units with Hispanic Householder—Con.**

[Numbers in thousands. ... means not applicable or sample too small. - means zero or rounds to zero.]

Characteristics	Size of occupied detached 1-family homes and mobile homes								Median
	Total	Less than 500 square feet	500 to 999 square feet	1000 to 1499 square feet	1500 to 1999 square feet	2000 to 2499 square feet	2500 square feet or more	Not reported	
<b>OWNER OCCUPIED UNITS</b>									
<b>Total</b> -----	<b>38.7</b>	<b>-</b>	<b>2.8</b>	<b>9.6</b>	<b>9.0</b>	<b>3.8</b>	<b>2.9</b>	<b>10.7</b>	<b>1 591</b>
<b>Value</b>									
Less than \$10,000-----	-	-	-	-	-	-	-	-	...
\$10,000 to \$19,999-----	.2	-	.2	-	-	-	-	-	...
\$20,000 to \$29,999-----	.7	-	-	.2	.5	-	-	-	...
\$30,000 to \$39,999-----	.6	-	-	-	-	-	-	.6	...
\$40,000 to \$49,999-----	-	-	-	-	-	-	-	-	...
\$50,000 to \$59,999-----	.2	-	.2	-	-	-	-	-	...
\$60,000 to \$69,999-----	.2	-	-	.2	-	-	-	-	...
\$70,000 to \$79,999-----	-	-	-	-	-	-	-	-	...
\$80,000 to \$99,999-----	.6	-	-	.3	.2	-	-	-	...
\$100,000 to \$119,999-----	.7	-	-	.3	-	-	-	.5	...
\$120,000 to \$149,999-----	1.9	-	-	1.3	.3	-	-	.3	...
\$150,000 to \$199,999-----	10.5	-	1.4	2.7	2.2	.8	.2	3.3	1 420
\$200,000 to \$249,999-----	9.7	-	.6	3.0	2.4	1.0	.7	2.0	1 549
\$250,000 to \$299,999-----	5.8	-	-	.9	2.0	.5	.2	2.2	1 729
\$300,000 or more-----	7.6	-	.4	.7	1.4	1.5	1.7	1.8	2 109
<b>Median</b> -----	<b>219 379</b>	<b>---</b>	<b>---</b>	<b>196 754</b>	<b>226 883</b>	<b>---</b>	<b>---</b>	<b>217 536</b>	<b>---</b>





**Table 6-19. Income, Costs, and Mortgage - Occupied Units with Hispanic Householder—Con.**

[Numbers in thousands. ... means not applicable or sample too small. - means zero or rounds to zero.]

Characteristics	Owner occupied								Renter occupied			
	With mortgage				With no mortgage				All renters		Unsubsidized renters <sup>1</sup>	
	Total	Specified <sup>2</sup>	Not specified		Total	Specified <sup>2</sup>	Not specified		Specified <sup>3</sup>	Other	Specified <sup>3</sup>	Other
			Condo or Coop	Other			Condo or Coop	Other				
<b>OWNERS WITH ONE OR MORE MORTGAGES—Con.</b>												
<b>Lenders of Primary and Secondary Mortgages</b>												
Only borrowed from firm(s) .....	34.5	27.8	5.4	1.2	...	...	...	...	...	...	...	...
Only borrowed from seller .....	.8	.2	.2	.5	...	...	...	...	...	...	...	...
Only borrowed from other individual(s) .....	-	-	-	-	...	...	...	...	...	...	...	...
Borrowed from a firm and seller .....	.3	.3	-	-	...	...	...	...	...	...	...	...
Borrowed from a firm and other individual .....	.2	.2	-	-	...	...	...	...	...	...	...	...
Borrowed from seller and other individual .....	-	-	-	-	...	...	...	...	...	...	...	...
One or both sources not reported .....	4.3	3.5	.2	.6	...	...	...	...	...	...	...	...

<sup>1</sup>Excludes units in public housing projects, and housing units with government rent subsidies.  
<sup>2</sup>Limited to one-unit structures on less than 10 acres and no business on property.  
<sup>3</sup>Excludes one-unit structures on 10 acres or more.  
<sup>4</sup>May reflect a temporary situation, living off savings, or response error.  
<sup>5</sup>Beginning with 1989 this item uses current income in its calculation. See appendix A.









Table 6-20. **Income of Families and Primary Individuals by Selected Characteristics - Occupied Units with Hispanic Householder—Con.**

[Numbers in thousands. ... means not applicable or sample too small. - means zero or rounds to zero.]

Characteristics	Total	Zero to negative	\$1 to \$4,999	\$5,000 to \$9,999	\$10,000 to \$14,999	\$15,000 to \$19,999	\$20,000 to \$29,999	\$30,000 to \$39,999	\$40,000 to \$59,999	\$60,000 to \$79,999	\$80,000 to \$99,999	\$100,000 to \$119,999	\$120,000 or more	Median
<b>OWNER OCCUPIED UNITS—Con.</b>														
<b>Purchase Price</b>														
Home purchased or built .....	43.0	.5	.3	1.6	2.1	1.6	5.9	6.4	9.4	5.4	4.1	2.1	3.6	46 793
Less than \$10,000 .....	1.2	-	-	.2	.5	-	.3	.3	-	-	-	-	-	...
\$10,000 to \$19,999 .....	3.4	-	-	.3	.5	-	.7	.2	.2	.2	.5	-	.2	...
\$20,000 to \$29,999 .....	3.4	-	-	.3	.2	.4	-	.5	.9	.7	.3	-	.2	...
\$30,000 to \$39,999 .....	2.2	-	-	-	.2	.2	.4	.2	.7	.2	.2	-	-	...
\$40,000 to \$49,999 .....	1.6	.2	-	-	.3	-	.5	-	.4	-	-	-	.2	...
\$50,000 to \$59,999 .....	1.1	-	-	-	-	-	.6	.2	.3	-	-	-	-	...
\$60,000 to \$69,999 .....	.9	-	-	-	-	-	.2	.5	-	-	.2	-	-	...
\$70,000 to \$79,999 .....	1.9	-	-	.2	-	.5	-	-	.3	.2	-	.5	.3	...
\$80,000 to \$99,999 .....	3.9	-	.3	-	.3	-	.5	.8	1.6	.2	.2	-	-	...
\$100,000 to \$119,999 .....	3.0	-	-	-	-	.3	.2	.9	.8	.5	.2	.2	-	...
\$120,000 to \$149,999 .....	7.2	.2	-	.3	-	.2	1.1	.8	1.6	1.3	.8	.4	.5	52 429
\$150,000 to \$199,999 .....	7.0	-	-	-	-	-	1.0	.8	1.6	1.5	1.3	.4	.4	61 023
\$200,000 to \$249,999 .....	1.6	-	-	-	-	-	-	.2	.2	.3	-	.2	.7	...
\$250,000 to \$299,999 .....	.9	-	-	-	-	-	-	-	.2	-	-	.5	.2	...
\$300,000 or more .....	1.5	-	-	.2	-	-	-	-	-	-	.5	-	.9	...
Not reported .....	2.0	-	-	.2	.2	-	.2	.5	.7	.2	-	-	-	...
<b>Median</b> .....	<b>105 752</b>	...	...	...	...	...	<b>83 228</b>	<b>95 628</b>	<b>99 961</b>	<b>130 880</b>	...	...	...	...
Received as inheritance or gift .....	1.0	-	-	-	-	.2	-	.2	.4	.2	-	-	-	...
Not reported .....	2.4	-	-	.6	.2	-	.6	.5	.2	.2	-	-	-	...
<b>RENTER OCCUPIED UNITS</b>														
<b>Total</b> .....	<b>75.7</b>	<b>1.6</b>	<b>2.9</b>	<b>6.5</b>	<b>9.9</b>	<b>11.4</b>	<b>19.9</b>	<b>10.6</b>	<b>9.0</b>	<b>2.0</b>	<b>1.3</b>	<b>.2</b>	<b>.5</b>	<b>22 847</b>
<b>Rent Reductions</b>														
No subsidy or income reporting .....	72.5	1.5	2.7	5.8	9.1	11.4	18.9	10.5	8.7	2.0	1.3	.2	.5	23 088
Rent control .....	-	-	-	-	-	-	-	-	-	-	-	-	-	...
No rent control .....	72.5	1.5	2.7	5.8	9.1	11.4	18.9	10.5	8.7	2.0	1.3	.2	.5	23 088
Reduced by owner .....	1.6	.2	.2	.2	-	-	.4	.2	.4	-	-	-	-	...
Not reduced by owner .....	70.3	1.2	2.5	5.5	9.1	11.4	18.3	10.2	8.0	2.0	1.3	.2	.5	22 934
Owner reduction not reported .....	.5	-	-	-	-	-	.2	-	.3	-	-	-	-	...
Rent control not reported .....	-	-	-	-	-	-	-	-	-	-	-	-	-	...
Owned by public housing authority .....	.4	-	-	.2	-	-	.2	-	-	-	-	-	-	...
Other, Federal subsidy .....	1.5	-	-	.5	.6	-	.4	-	-	-	-	-	-	...
Other, State or local subsidy .....	1.0	.1	.2	-	.2	-	.2	-	.3	-	-	-	-	...
Other, income verification .....	-	-	-	-	-	-	-	-	-	-	-	-	-	...
Subsidy or income verification not reported .....	.3	-	-	-	-	-	.2	.2	-	-	-	-	-	...

<sup>1</sup>For mobile home, oldest category is 1939 or earlier.  
<sup>2</sup>May reflect a temporary situation, living off savings, or response error.  
<sup>3</sup>Beginning with 1989 this item uses current income in its calculation. See appendix A.







**Table 6-21. Housing Costs by Selected Characteristics - Occupied Units with Hispanic Householder—Con.**

[Numbers in thousands. ... means not applicable or sample too small. - means zero or rounds to zero.]

Characteristics	Total	Less than \$100	\$100 to \$199	\$200 to \$299	\$300 to \$399	\$400 to \$499	\$500 to \$599	\$600 to \$699	\$700 to \$799	\$800 to \$999	\$1,000 to \$1,499	\$1,500 or more	No cash rent	Mortgage payment not reported	Median excluding no cash rent
<b>RENTER OCCUPIED UNITS</b>															
Total .....	75.7	.6	.5	2.0	1.4	3.6	8.9	16.3	17.0	14.8	7.3	1.5	1.9	...	721
<b>Rent Reductions</b>															
No subsidy or income reporting .....	72.5	.4	.2	1.0	1.2	3.4	8.9	16.1	16.8	14.4	7.3	1.5	1.3	...	726
Rent control .....	-	-	-	-	-	-	-	-	-	-	-	-	-	...	...
No rent control .....	72.5	.4	.2	1.0	1.2	3.4	8.9	16.1	16.8	14.4	7.3	1.5	1.3	...	726
Reduced by owner .....	1.6	-	-	.2	-	-	.2	.2	-	-	.4	-	.7	...	...
Not reduced by owner .....	70.3	.4	.2	1.0	1.0	3.4	8.7	15.9	16.8	14.3	6.6	1.5	.6	...	725
Owner reduction not reported .....	.5	-	-	-	-	-	-	-	-	.2	.3	-	-	...	...
Rent control not reported .....	-	-	-	-	-	-	-	-	-	-	-	-	-	...	...
Owned by public housing authority .....	.4	-	-	.2	-	-	-	-	-	.2	-	-	-	...	...
Other, Federal subsidy .....	1.5	-	.3	.6	.2	.2	-	.2	-	-	-	-	-	...	...
Other, State or local subsidy .....	1.0	.2	-	.2	-	-	-	-	-	-	-	-	.6	...	...
Other, income verification .....	-	-	-	-	-	-	-	-	-	-	-	-	-	...	...
Subsidy or income verification not reported .....	.3	-	-	-	-	-	-	-	.2	.2	-	-	-	...	...

<sup>1</sup>For mobile home, oldest category is 1939 or earlier.  
<sup>2</sup>Beginning with 1989 this item uses current income in its calculation. See appendix A.





Table 6-22. Value by Selected Characteristics - Owner Occupied Units with Hispanic Householder—Con.

[Numbers in thousands. ... means not applicable or sample too small. - means zero or rounds to zero.]

Characteristics	Total	Less than \$30,000	\$30,000 to \$39,999	\$40,000 to \$49,999	\$50,000 to \$59,999	\$60,000 to \$79,999	\$80,000 to \$99,999	\$100,000 to \$149,999	\$150,000 to \$199,999	\$200,000 to \$249,999	\$250,000 to \$299,999	\$300,000 or more	Median
<b>Median Monthly Housing Costs For Owners</b>													
Monthly costs including all mortgages plus maintenance costs	1 148	...	...	...	...	...	...	1 018	1 209	1 032	1500+	1500+	...
Monthly costs excluding 2nd and subsequent mortgages and maintenance costs	1 013	...	...	...	...	...	...	928	1 115	852	1 359	1 048	...
<b>Monthly Housing Costs as Percent of Current Income<sup>3</sup></b>													
Less than 5 percent	1.4	-	-	-	-	2	-	-	4	5	2	2	...
5 to 9 percent	4.4	-	-	-	-	-	2	4	1.0	1.0	5	1.3	...
10 to 14 percent	5.3	-	-	-	-	-	-	1.2	1.6	1.0	6	9	195 025
15 to 19 percent	3.4	-	-	-	-	-	-	6	2	1.0	8	9	...
20 to 24 percent	3.9	-	2	-	-	-	-	2	5	6	1.4	9	...
25 to 29 percent	4.6	-	-	-	2	-	-	7	6	1.3	5	1.4	...
30 to 34 percent	3.2	-	-	-	-	-	3	5	2	9	5	9	...
35 to 39 percent	2.6	-	-	-	-	-	-	6	1.3	2	5	-	...
40 to 49 percent	3.9	-	-	-	-	-	-	9	1.3	1.0	3	5	...
50 to 59 percent	2.1	4	-	-	-	-	-	-	1.1	4	2	-	...
60 to 69 percent	2.7	3	-	-	-	-	-	5	1.3	4	-	2	...
70 to 99 percent	1.3	-	-	-	2	-	-	2	7	-	2	-	...
100 or more percent <sup>2</sup>	1.3	-	-	-	-	-	-	2	7	3	-	2	...
Zero or negative income	5	-	-	-	-	-	-	-	-	2	-	2	...
No cash rent	...	-	-	-	-	-	-	-	-	-	-	-	...
Mortgage payment not reported	5.9	2	4	-	2	-	-	2	1.2	1.9	6	1.1	217 509
Median (excludes 3 previous lines)	27	...	...	...	...	...	...	29	38	26	22	22	...
<b>Monthly Payment for Principal and Interest</b>													
Less than \$100	2	-	-	-	-	-	-	-	-	-	2	-	...
\$100 to \$199	2.0	3	-	-	-	-	-	3	4	7	3	2	...
\$200 to \$249	1.3	-	-	-	-	-	-	5	-	5	-	4	...
\$250 to \$299	1.0	2	-	-	-	-	-	2	-	3	2	-	...
\$300 to \$349	1.2	-	2	-	-	-	-	2	3	5	-	-	...
\$350 to \$399	9	-	-	-	-	-	-	2	3	-	2	5	...
\$400 to \$449	1.5	-	-	-	-	-	-	2	5	4	2	2	...
\$450 to \$499	7	-	-	-	2	-	3	-	-	-	2	-	...
\$500 to \$599	1.5	-	-	-	-	-	-	2	5	7	-	-	...
\$600 to \$699	1.4	-	-	-	-	-	-	2	3	7	2	-	...
\$700 to \$799	1.4	-	-	-	-	-	-	2	9	-	2	-	...
\$800 to \$999	4.2	2	-	-	-	-	-	8	1.6	1.3	-	2	...
\$1,000 to \$1,249	7.5	-	-	-	-	-	-	1.3	2.2	1.8	1.8	4	206 612
\$1,250 to \$1,499	4.4	-	-	-	2	-	-	4	1.9	6	3	9	...
\$1,500 or more	4.9	-	-	-	-	-	-	-	2	6	1.5	2.6	...
Not reported	5.9	2	4	-	2	-	-	2	1.2	1.9	6	1.1	217 509
Median	985	...	...	...	...	...	...	...	977	852	1 121	1 472	...
<b>Average Monthly Cost Paid for Real Estate Taxes</b>													
Less than \$25	4.5	6	4	-	4	2	-	1.1	1.2	2	-	4	...
\$25 to \$49	10.2	3	3	-	-	-	2	1.3	2.7	3.4	1.2	9	205 726
\$50 to \$74	7.2	-	-	-	2	-	-	1.3	2.5	9	1.1	1.3	193 069
\$75 to \$99	4.1	-	-	-	-	-	3	6	2.7	3	2	-	...
\$100 to \$149	9.4	-	-	-	-	-	-	9	1.6	4.4	1.3	1.1	224 539
\$150 to \$199	5.8	-	-	-	-	-	-	2	9	1.5	1.6	1.7	261 830
\$200 or more	5.1	-	-	-	-	-	-	7	5	-	8	3.1	...
Median	83	...	...	...	...	...	...	63	71	106	121	168	...
<b>Purchase Price</b>													
Home purchased or built	43.0	9	5	-	4	2	6	5.7	11.2	9.8	5.9	7.9	210 875
Less than \$10,000	1.2	-	-	-	-	-	-	1.0	2	-	-	-	...
\$10,000 to \$19,999	3.4	2	-	-	-	-	-	3	8	12	2	6	...
\$20,000 to \$29,999	3.4	5	-	-	-	-	-	3	4	15	9	-	...
\$30,000 to \$39,999	2.2	2	2	-	-	-	2	2	4	5	2	5	...
\$40,000 to \$49,999	1.6	-	-	-	-	-	-	8	2	2	2	4	...
\$50,000 to \$59,999	1.1	-	-	-	2	-	3	3	5	3	-	4	...
\$60,000 to \$69,999	9	-	-	-	-	-	-	5	9	2	-	3	...
\$70,000 to \$79,999	1.9	-	-	-	-	-	-	1.0	1.7	2	9	-	...
\$80,000 to \$99,999	3.9	-	-	-	-	2	-	1.0	6	9	2	2	...
\$100,000 to \$119,999	3.0	-	-	-	-	-	-	1.0	6	9	2	2	...
\$120,000 to \$149,999	7.2	-	-	-	-	-	-	1.2	1.8	2.1	5	1.6	212 464
\$150,000 to \$199,999	7.0	-	-	-	2	-	-	2	2.3	1.7	1.8	1.0	229 540
\$200,000 to \$249,999	1.6	-	-	-	-	-	-	-	-	2	-	2	...
\$250,000 to \$299,999	9	-	-	-	-	-	-	-	-	-	3	7	...
\$300,000 or more	1.5	-	-	-	-	-	-	-	-	-	-	1.5	...
Not reported	2.0	-	3	-	-	-	-	2	5	7	-	4	...
Median	105 752	...	...	...	...	...	...	90 521	93 436	108 507	156 391	144 672	...
Received as inheritance or gift	1.0	-	-	-	-	-	-	2	2	2	2	2	...
Not reported	2.4	-	2	-	2	-	-	2	7	7	-	4	...

<sup>1</sup>For mobile home, oldest category is 1939 or earlier.  
<sup>2</sup>May reflect a temporary situation, living off savings, or response error.  
<sup>3</sup>Beginning with 1989 this item uses current income in its calculation. See appendix A.



## Appendix A.

### Area Classifications, Definitions and Explanations of Subject Characteristics, and Facsimile of the American Housing Survey Questionnaire: 1990

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## AREA CLASSIFICATIONS

The 11 metropolitan areas selected for the 1990 American Housing Survey included metropolitan statistical areas (MSA's), primary metropolitan statistical areas (PMSA's), and consolidated metropolitan statistical areas (CMSA's). Of the 11 metropolitan areas selected for 1990, three had the same geographic boundaries as the standard metropolitan statistical areas (SMSA's) used in earlier Annual Housing Survey reports. These included the Anaheim-Santa Ana, CA PMSA; Cincinnati, OH-KY-IN PMSA; and Riverside-San Bernardino-Ontario, CA PMSA.

**Metropolitan statistical areas.** Metropolitan statistical areas (MSA's) used in the American Housing Survey are issued by the Office of Management and Budget. By current standards, as published in the Federal Register on January 3, 1980, an area qualifies for recognition as an MSA in one of two ways: if there is a city of at least 50,000 population, or a Census Bureau-defined urbanized area of at least 50,000 with a total metropolitan population of at least 100,000 (75,000 in New England). Except in the New England States, an MSA is defined in terms of entire counties. In New England, MSA's are composed of cities and towns. In addition to the county containing the main city, additional counties are included in an MSA if they are

socially and economically integrated with the central county. An MSA may contain more than one city of 50,000 population and may cross State lines.

**Primary metropolitan statistical areas.** Within the metropolitan statistical areas classified as Level A (population size of 1,000,000 or more), some areas may qualify for separate recognition as primary metropolitan statistical areas. A primary metropolitan statistical area (PMSA) is a large urbanized county, or cluster of counties, that demonstrates very strong internal economic and social links, in addition to close ties to the other portions of the Level A metropolitan statistical area.

**Consolidated metropolitan statistical area.** Consolidated metropolitan statistical area (CMSA) is a Level A metropolitan statistical area with at least two primary metropolitan statistical areas defined.

**Central cities.** Every metropolitan statistical area has at least one central city, which is usually its largest city. Smaller cities are also identified as central cities if they have at least 25,000 population and meet the following two commuting requirements. First, the city must have at least 75 jobs for each 100 residents who are employed. Second, no more than 60 percent of the city's resident workers may

commute to jobs outside the city limits. In addition, any city with at least 250,000 population or at least 100,000 persons working within its corporate limits qualifies as a central city even if it fails to meet the above two commuting requirements. Finally in certain smaller metropolitan statistical areas, there are places with between 15,000 and 25,000 population that also qualify as central cities, because they are at least one-third the size of the metropolitan statistical area's largest city and meet the two commuting requirements.

**Central counties.** Every MSA has one or more central counties. These are counties in which at least half the population lives in the Census Bureau urbanized area.

**Outlying counties.** Qualification as an outlying county requires a significant level of commuting from the outlying county to the central county(ies) and a specified degree of "metropolitan character."

**Selected subareas.** Data for three of the largest central cities and/or central counties in each metropolitan area are shown in chapters 2 through 6 under the boxhead columns selected subareas. For a list of the selected subareas in each metropolitan area, see the inside back cover of this report.

**Selected geographic areas.** Data for each county and independent city (in certain states) for which it was estimated that 100 or more interviews occurred are shown in the stub item "selected geographic areas" in table 1 of chapter 2.

**Standard metropolitan statistical areas.** The definitions of standard metropolitan statistical areas (SMSA's) used in the Annual Housing Survey prior to 1984 corresponded to the 243 SMSA's used in the 1970 census. Except in the New England States, an SMSA is a county or group of contiguous counties which contains at least one city of 50,000 inhabitants or more, or "twin cities" with a combined population of at least 50,000. In addition to the county or counties containing such a city or cities, contiguous counties are included in an SMSA if, according to certain criteria, they are socially and economically integrated with the central city. In the New England States, SMSA's consist of towns and cities instead of counties. Each SMSA must include at least one central city, and the complete title of an SMSA identifies the central city or cities.

## DEFINITIONS AND EXPLANATIONS OF SUBJECT CHARACTERISTICS

### General

As stated in the introduction, the American Housing Survey was conducted by personal interview. The survey interviewers were instructed to read the questions directly

from the questionnaire. The definitions and explanations given for each subject are, to a considerable extent, drawn from various technical and procedural materials used in the collection of the data. These materials helped the field interviewers to understand more fully the intent of each question and thus to resolve problems or unusual cases. Additional explanatory information has been added to this portion of the text to assist the user in understanding the statistics.

**Comparability with the 1974 through 1983 Annual Housing Survey data.** Most of the concepts and definitions used in the 1974 through 1983 Annual Housing Survey are essentially the same for items that also appear in the redesigned American Housing Survey.

There are one major and two minor differences in the housing unit definition. The major difference is that since 1984, the American Housing Survey includes vacant mobile homes as housing units. The 1974 through 1983 Annual Housing Surveys excluded these units. A minor difference in the definition is the 1974 through 1983 requirement that a housing unit must have either direct access from the outside or through a common hallway, or complete kitchen facilities for the exclusive use of the occupants. Since the 1984 American Housing Survey, the complete kitchen facilities alternative was dropped with direct access required of all units. A second minor difference is in the definition of group quarters. In the 1974 through 1983 Annual Housing Survey, a household containing five or more persons unrelated to the householder was considered to be group quarters. Since the 1984 American Housing Survey, the cutoff was changed to nine or more persons unrelated to the householder. Differences that relate to specific subject areas are discussed under the subjects in this appendix.

Some differences in the data may exist for subjects covered in both the 1974 through 1983 AHS and the redesigned AHS as a result of the redesign of the questionnaires used. For a detailed discussion of those characteristics that show significant differences between 1974 through 1983 AHS and the redesigned AHS, see the "Qualifications of the data" section in the introduction.

**Comparability with 1990 Census of Population and Housing data.** The concepts and definitions are essentially the same for items that appear in both the 1990 census and the current metropolitan reports.

There is a major difference, however, in the time period of the recent mover classification. In the redesigned American Housing Survey, recent movers are households that moved into their unit during the 12 months prior to interview, a period of 1 year or less. In planned publications for the 1990 Census of Housing on mover households, the time period was from January 1, 1989, through March 31, 1990, a period of 15 months or less.

A variety of data on mortgages and homeowner properties will be presented in planned publications on residential finance from the 1990 Census of Housing. Differences

in the concepts and definitions in the redesigned American Housing Survey and planned publications include the following: the basic unit of tabulation in AHS is the housing unit; in census publications, it is the property. All the data in AHS are provided by the occupant; in census publications, mortgage is reconciled with responses from the lender.

In the redesigned American Housing Survey, units are classified as new construction if constructed 4 years or less from the date of interview. In planned publications from the 1990 Census of Housing, units are classified as new construction if constructed in 1985 through 1990.

Data on poverty level in the 1990 Census of Housing do not contain the income of household members unrelated to the householder. In the redesigned American Housing Survey, data on poverty level include the income of all household members whether or not they are related to the householder.

Income data in the American Housing Survey are based on income for the 12 months prior to interview for those household members 14 years and older. The 1990 Census of Housing income data uses calendar year 1989 income for household members 15 years and older.

In the 1990 Census of Population, data for years of school completed were based on responses to two questions: the highest grade or year of regular school each household member attended, and whether or not that grade was completed. The response categories for persons who have attended college were modified from earlier censuses because there was some ambiguity in interpreting responses in terms of number of years of college completed. This modification enhances the reporting of the number of college graduates. In the redesigned AHS, data for years of school completed were based on responses to a single question: the highest grade or year of regular school completed by the householder. Therefore, the current AHS may overstate the education level of the householder; that is, respondents may have reported the grade or year the householder was currently enrolled in or had last been enrolled in whether or not the grade or year was completed.

Differences between the redesigned American Housing Survey data and the 1990 census may also be attributed to several other factors. These include the extensive use of self-enumeration in the census in contrast to personal interview in the survey; differences in processing procedures and sample designs; the sampling variability associated with the sample data from both the AHS and the census; the nonsampling errors associated with the survey estimates; and the nonsampling errors associated with census data.

**Comparability with Current Construction Reports from the Surveys of Construction.** The Census Bureau issues several publications under the general titles, "Current Construction Reports." The data for these reports are primarily from the Surveys of Construction.

The Surveys of Construction consists of approximately 8,300 permit-issuing places throughout the United States. The reports from the survey contain current data on housing starts and completions, construction authorized by building permits, new one-unit structures sold and for sale, characteristics of new housing, and value of new construction put in place. The concepts and definitions used in this report differ from some of those used in the Surveys of Construction. The major difference is that the Surveys of Construction shows counts and characteristics of housing units in various stages of construction through completion. The redesigned American Housing Survey shows counts and characteristics of the existing housing inventory. Additional differences between the current American Housing Survey and the Surveys of Construction may be attributed to factors such as the sampling variability and nonsampling errors of the data from the two surveys, survey procedures and techniques, and processing procedures.

**Comparability with other Bureau of the Census data.** Statistics in this report refer, for the most part, to the housing unit, household, or householder. Data on the individual household members may differ from other similar data compiled by the Bureau of the Census. For these types of data, write to Chief, Population Division, Bureau of the Census, Washington, DC 20233-3400.

**Comparability with housing vacancy surveys.** There may be differences between this survey and Federal, State, local, and other surveys that present vacancy rates. The differences may be attributed to such factors as differing interview periods, survey designs, survey techniques, and processing procedures, as well as differences in concepts and definitions. In addition, there are sampling and nonsampling errors.

## Living Quarters

Living quarters are classified as either housing units or group quarters. Usually, living quarters are in structures intended for residential use (e.g., a one-unit structure, apartment house, hotel or motel, boarding house, or mobile home or trailer). Living quarters may also be in structures intended for nonresidential use (e.g., the rooms in a warehouse where a watchman lives) as well as in places such as tents, caves, and old railroad cars.

**Housing units.** A housing unit is a house, an apartment, a group of rooms, or a single room occupied or intended for occupancy as separate living quarters. Separate living quarters are those in which the occupants do not live and eat with any other persons in the structure and that have direct access from the outside of the building or through a common hall that is used or intended for use by the occupants of another unit or by the general public. The

occupants may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated persons who share living arrangements (except as described in the section on group quarters). For vacant units, the criteria of separateness and direct access are applied to the intended occupants whenever possible. If the information cannot be obtained, the criteria are applied to the previous occupants. Both occupied and vacant housing units are included in the housing inventory, except that tents, caves, boats, railroad cars, and the like, are included only if they are occupied.

For a detailed discussion of changes to the housing unit definition, see the "Comparability with the 1974 through 1983 Annual Housing Survey data" section in this appendix.

**Group quarters.** Group quarters are living arrangements for institutional inmates or for other groups containing nine or more persons not related to the person in charge. Group quarters are located most frequently in institutions, boarding houses, military barracks, college dormitories, fraternity and sorority houses, hospitals, monasteries, convents, and ships. A house or apartment is considered group quarters if it is shared by the person in charge and nine or more persons unrelated or, if there is no person in charge, by ten or more unrelated persons. Information on the housing characteristics of group quarters was not collected.

**Hotels, motels, rooming houses, etc.** Occupied rooms or suites of rooms in hotels, motels, and similar places are classified as housing units only when occupied by permanent residents; i.e., persons who consider the hotel as their usual place of residence or have no usual place of residence elsewhere. Vacant rooms or suites of rooms are classified as housing units only in those hotels, motels, and similar places in which 75 percent or more of the accommodations are occupied by permanent residents.

If any of the occupants in a rooming or boarding house live and eat separately from everyone else in the building and have direct access, their quarters are classified as separate housing units. The remaining quarters are combined. If the combined quarters contain eight or fewer roomers unrelated to the householder, they are classified as one housing unit; if the combined quarters contain nine or more roomers unrelated to the householder, or person in charge, they are classified as group quarters. In a dormitory, residence hall, or similar place, living quarters of the supervisory staff and other employees are separate housing units if they satisfy the housing unit criteria; other living quarters are considered group quarters.

**Staff living quarters.** Living quarters of staff personnel are separate housing units if they satisfy the housing unit criteria. Other living quarters are considered group quarters.

**Year-round housing units.** Year-round housing units include all units occupied by one or more persons for whom it is their usual residence and all vacant units that

are intended by the owner for occupancy at any time of the year. If a unit in a resort area is intended for occupancy on a year-round basis, it is a year-round housing unit, even if vacant.

**Seasonal units.** Seasonal units are units that are intended by the owner to be occupied during only certain seasons of the year. They are not anyone's usual residence and include units occupied entirely by persons with a usual residence elsewhere and vacant units. A seasonal unit may be used in more than one season; for example, both in the summer for summer sports and in the winter for winter sports. Counts of seasonal units in this report also include housing units held for occupancy by migratory farm workers.

**Population in housing units.** Included are all persons living in housing units. Persons living in group quarters are excluded.

**Occupied housing units.** A housing unit is classified as occupied if a person or group of persons is living in it at the time of the interview or if the occupants are only temporarily absent, for example, on vacation. However, if the unit is occupied entirely by persons with a usual place of residence elsewhere, the unit is classified as vacant. By definition, the count of occupied housing units is the same as the count of households.

**Race.** The classification of "race" refers to the race of the householder occupying the housing unit. The concept of race as used by the Census Bureau does not denote clear-cut scientific definition of biological stock. Race was determined on the basis of a question that asked for self-identification of a person's race. Figures on tenure are given separately for White, Black, and other householders in table 2-1. The last category includes Asian, Pacific Islander, American Indian, Aleut, Eskimo, and any other race reported. Detailed characteristics of units with Black householders are presented in chapter 5.

**Hispanic.** The classification "Hispanic" refers to the origin of the householder occupying the housing unit. Detailed characteristics of housing units with Hispanic householder are presented in chapter 6. Hispanic origin was determined on the basis of a question that asked for self-identification of persons living in the unit who were Hispanic or Spanish American. Hispanic persons may be of any race.

In the 1973 through 1983 Annual Housing Survey, the concept Spanish origin was used. Spanish origin is basically the same as Hispanic according to Census Bureau definitions. The 1973 through 1983 AHS asked respondents to choose from a list or flashcard containing a variety of Spanish-origin categories. For this reason, care should be taken in making comparisons of Spanish-origin estimates from the 1973 through 1983 Annual Housing Survey, and the redesigned American Housing Survey.

**Tenure.** A housing unit is owner occupied if the owner or co-owner lives in the unit, even if it is mortgaged or not fully paid for. Also, a cooperative or condominium unit is owner occupied only if the owner or co-owner lives in it. All other occupied housing units are classified as renter occupied, including housing units rented for cash rent and those occupied without payment of cash rent.

**Cooperatives and condominiums.** A cooperative is a type of ownership whereby a group of housing units are owned by a corporation of member-owners. Each individual member is entitled to occupy or rent out an individual housing unit and is a shareholder in the corporation that owns the property.

A condominium is a type of ownership that enables a person to own an apartment or house in a project of similarly owned units. The owner has the deed and very likely the mortgage on the unit occupied. The owner may also hold common or joint ownership in some or all common areas such as grounds, hallways, entrances, elevators, etc.

Cooperative or condominium ownership may apply to various types of structures including single-family houses, rowhouses, townhouses, etc., as well as apartment units.

**Year householder moved into unit.** The data are based on the information reported for the householder and refer to the year of latest move. Thus, if the householder moved back into a housing unit previously occupied, the year of the latest move was to be reported; if the householder moved from one apartment to another in the same building, the year the householder moved into the present unit was to be reported. The intent is to establish the year the present occupancy by the householder began. The year the householder moves is not necessarily the same year other members of the household move; although, in the great majority of cases the entire household moves at the same time. The median year householder moved into unit is rounded to the nearest year.

**Owner or manager on property.** These statistics are based on the number of rental housing units in structures of two or more units with the owner or resident manager living on the property.

**Vacant housing units.** A housing unit is vacant if no one is living in it at the time of the interview, unless its occupants are only temporarily absent. In addition, a vacant housing unit may be one that is occupied entirely by persons who have a usual residence elsewhere (URE).

New housing units not yet occupied are classified as vacant housing units if construction has reached a point where all exterior windows and doors are installed and final usable floors are in place. Vacant units are excluded if unfit for human habitation; that is, if the roof, walls, windows, or doors no longer protect the interior from the elements, or if there is positive evidence (such as a sign on the house or

block) that the unit is to be demolished or is condemned. Also excluded are quarters being used entirely for nonresidential purposes, such as a store or an office; or quarters used for storing business supplies or inventory, machinery, or agricultural products.

For a detailed discussion of changes in the estimates of the vacant unit inventory, see the "Qualifications of the data" section in the introduction.

**Vacancy status.** Vacant housing units are classified as either "seasonal" or "year-round." See definitions of seasonal and year-round on page A-5. Year-round vacant housing units are subdivided as follows:

*For sale only.* Vacant year-round units "for sale only" also include vacant units in a cooperative or condominium building if the individual units are offered for sale only.

*For rent.* Vacant year-round units "for rent" also include vacant units offered either for rent or for sale.

*Rented or sold, not occupied.* If any money rent has been paid or agreed upon, but the new renter has not moved in as of the date of the interview, or if the unit has recently been sold, but the new owner has not yet moved in, the year-round vacant unit is classified as "rented or sold, not occupied."

*Held for occasional use.* This category consists of vacant year-round units that are held for weekend or other occasional use throughout the year. The intent of this question is to identify homes reserved by their owners as second homes. Because of the difficulty of distinguishing between this category and seasonal vacancies, it is possible that some second homes are classified as seasonal and vice versa.

*Temporarily occupied by persons with usual residence elsewhere (URE).* If all the persons in a housing unit usually live elsewhere, that unit is classified as vacant, provided the usual place of residence is held for the household and is not offered for rent or for sale. For example, a beach cottage occupied at the time of the interview by a family that has a usual place of residence in the city is included in the count of vacant units. If the house in the city was in the survey sample, the house would be reported "occupied" and would be included in the count of occupied units since the occupants are only temporarily absent.

*Held for other reasons.* If a vacant year-round unit does not fall into any of the classifications specified, it is classified as "held for other reasons." For example, this category includes units held for settlement of an estate, units held for occupancy by a caretaker or janitor, and units held for personal reasons of the owner. The "other vacant" category includes all housing units held for other reasons.

**Time Sharing.** This item is restricted to vacant housing units, including URE's. Time sharing is a form of ownership in which a single property is owned by multiple owners. Each is entitled to occupy the unit for a limited period of time during a specific time of the year. The number of years of ownership may vary depending on the terms of the contract. Participants in time-sharing ownership usually, but not always, receive a deed of ownership.

**Duration of vacancy.** The statistics on duration of vacancy refer to the length of time (in months) from the date the last occupants moved from the housing unit to the date of the interview. The data, therefore, do not provide a direct measure of the total length of time that units remained vacant. For newly constructed units that have never been occupied, the duration of vacancy is counted from the date construction was completed. For recently converted or merged units, the time is reported from the date that conversion or merger was completed.

**Previous occupancy.** The statistics presented are restricted to housing units built in 1980 or later. "Previously occupied" indicates that some person or persons not now in the household occupied the housing unit prior to the householder or other related household member's occupancy. "Not previously occupied" indicates that either the householder or some other current household member was the first occupant of the housing unit.

**Last used as a permanent residence.** The statistics on "last used as a permanent residence" refer to the length of time (in months) since units that are currently seasonal vacants or URE's were last used as a permanent residence, and is measured as of the date of interview. Units that have always been used for short-term or seasonal occupancy are classified as "Never occupied as permanent home."

**Rental vacancy rate.** The rental vacancy rate is the number of vacant year-round units for rent as a percent of the total rental inventory; i.e., all renter-occupied housing units and all year-round vacant housing units for rent or rented, not occupied.

**Suitability for year-round use.** For vacant housing units that were not intended for year-round use (i.e. seasonal and migratory), the respondent was asked whether the construction and heating of the housing unit made it suitable for the unit to be occupied on a year-round basis. A housing unit is suitable for year-round use if it is built as a permanent structure, properly equipped and insulated for heating as necessitated by the climate, and if it has a heating system that would be adequate during extended cold periods.

### **Housing Units Occupied by Recent Movers**

**Recent movers.** Data for recent movers are shown for two categories of movers: units where the householder moved into the present unit during the 12 months prior to

the interview, and units where the respondent moved into the present housing unit during the 12 months prior to the interview. In most cases, the two groups represent the same households.

**Present and previous units.** The present unit is the housing unit occupied by the householder or respondent at the time of the interview. The previous unit is the housing unit from which the householder or respondent moved. If the householder or respondent moved more than once during the 12 months prior to the date of the interview, the previous unit is the one from which they last moved.

**Location of previous unit.** These data are shown for units where the householder moved during the past year. The location of the previous unit is reported as being inside the same metropolitan area and either in the central city(s) or not in the central city(s); inside a different metropolitan area in the same State, in a different State, and in a central city or not in a central city; outside any metropolitan area and either in the same State or a different State; or in a different nation.

**Tenure of previous unit.** These data are shown for units where the householder moved during the past year. The previous unit was owner occupied if the owner or co-owner lived in the unit, even if it was mortgaged or not fully paid for. If the previous unit was a cooperative or condominium it was owner occupied only if the owner or co-owner lived in it. All other previous units were renter occupied including housing units rented for cash rent and those occupied without payment of cash rent.

**Structure type of previous residence.** These data are shown for householders who moved within the United States during the past year. They are based on the respondent's classification of structure type of the previous residence.

**Persons—previous residence.** These data are shown for units where the householder moved during the past year. All persons are counted who lived at the previous residence at the time of the move, and those who usually lived there but were temporarily away for reasons such as visiting, traveling in connection with their jobs, attending school, in general hospitals, and in other temporary locations. Children, infants, lodgers, servants, hired hands, and anyone else who usually lived there are included. Persons who were staying at the previous residence at the time of move but who had usual residence elsewhere are not counted.

**Previous home owned or rented by someone who moved here.** These data are shown for units where the householder moved within the United States during the past year. Data are shown for the number of households

where the previous home was owned or rented by someone living in the current housing unit and the number of households where the previous unit was owned or rented by a relative or nonrelative other than a current household member.

**Change in housing costs.** Housing costs include mortgage and rent payment, real estate taxes, insurance, upkeep of place, utilities, homeowner membership fees, land rent, mobile home park fees paid, etc. Comparison is made of the share the householder and those who moved with the householder (from the same place at the same time) actually paid in the previous unit with the share they actually pay in the present residence.

**Reasons for leaving previous unit.** These data are shown for units where the respondent moved during the past year. The categories refer to reasons causing the move from the previous residence.

*Private displacement* includes situations in which a private company or person wanted to use the housing unit for some other purpose (to develop the land or building commercially, to occupy the unit himself/herself, to convert the unit to a condominium or cooperative, to make repairs and renovate the unit, etc.).

*Government displacement* means the respondent was forced to leave by the government (local, State, or Federal), because the land was being used to build a road or highway, for urban renewal or other public activity, the building was condemned, or some other similar reason.

*Disaster loss* includes damage by a tornado, storm, flood, earthquake, fire, landslide, or other similar occurrence.

*New job or job transfer* indicates that the respondent moved to begin a new job or was transferred from the previous location to the present location.

*To be closer to work/school/other* means that the respondent moved because commuting was too far, and respondent wanted to live closer to work, school, or some other commuting purpose.

*Other, financial/employment related* refers to financial or employment related reasons, such as wanting to look for a new or different job, because he/she entered or left the U.S. Armed Forces, established a retirement home, or some other financial or employment reason.

*To establish own household* means that the respondent left his/her previous residence (parent's home, rooming or boarding house, shared apartment, etc.) to establish own household.

*Needed larger house or apartment* refers to moves that were necessary because of crowding and not for aesthetic reasons.

*Married, widowed, divorced, or separated* is marked if the respondent moved because of marital reasons.

*Other family/personal related* indicates that the respondent moved because of family or personal reasons such as wanting to live closer to relatives.

*Wanted better home* was marked if the respondent moved because the previous residence was too old, run-down, in need of too many repairs, etc., or if there was nothing wrong with the previous home, but the respondent simply wanted to move to a better one.

*Change from owner to renter or change from renter to owner* indicates a change in tenure.

*Wanted lower rent or less expensive maintenance* indicates that the respondent moved because the rent (or mortgage) payments were too high at the previous residence or that the taxes or upkeep were too high.

*Other housing related reasons* includes respondent wanted larger yard, different zoning, wanted a better investment, etc.

*Other* category includes examples, such as respondent wanted a change in climate, neighborhood crime problem, racial or ethnic composition of neighborhood.

**Choice of present neighborhood and neighborhood search.** These data are shown for units where the respondent moved during the past year. The respondent was asked a three-part question on choice of present neighborhood: (1) if the respondent looked for a house/apartment in any other neighborhood, (2) the reasons why the respondent chose the present neighborhood, and (3) the main reason the present neighborhood was chosen. The distribution for choice of present neighborhood may not add to the total as the respondent was not limited to one response.

**Choice of present home and home search.** These data are shown for units where the respondent moved during the past year. The respondent was asked a three-part question on choice of present home: (1) if the respondent looked at both houses/mobile homes and apartments, (2) the reasons why the respondent chose the present house/apartment, and (3) the main reason the present house or apartment was chosen. The distribution for choice of present home may not add to the total as the respondent was not limited to one response as to which was better.



**Recent mover comparison to previous home.** This item is based on the respondent's comparison between the present unit and previous unit as to which was better.

**Recent mover comparison to previous neighborhood.**

This item is based on the respondent's comparison between the present neighborhood and the previous neighborhood as to which was better. The definition of neighborhood is whatever the respondent considers it to be.

### Utilization Characteristics

**Persons.** All persons occupying the housing unit are counted. These persons include not only occupants related to the householder but also any lodgers, roomers, boarders, partners, wards, foster children, and resident employees who share the living quarters of the householder. The data on persons show categories of the number of one-person through seven-or-more-person households. The median for persons is rounded to the nearest tenth.

A person is counted at the usual place of residence for that person. This refers to the place where the person lives and sleeps most of the time. This place is not necessarily the same as a legal residence, voting residence, or domicile.

**Rooms.** The statistics on rooms are for the number of housing units with a specified number of rooms. Rooms counted include whole rooms used for living purposes, such as bedrooms, living rooms, dining rooms, kitchens, recreation rooms, permanently enclosed porches that are suitable for year-round use, lodgers' rooms, and other finished and unfinished rooms. Also included are rooms used for offices by a person living in the unit. The median for rooms is rounded to the nearest tenth.

A dining room, to be counted, must be a separate room. It must be separated from adjoining rooms by built-in floor-to-ceiling walls extending at least a few inches from the intersecting walls. Movable or collapsible partitions or partitions consisting solely of shelves or cabinets are not considered built-in-walls. Bathrooms are not counted as rooms.

Data on the number of rooms are not completely comparable with data on the number of rooms collected before the redesigned AHS. For a detailed discussion, see the "Qualifications of the data" section in the introduction.

**Persons per room.** Persons per room is computed for each occupied housing unit by dividing the number of persons in the unit by the number of rooms in the unit. The figures shown refer, therefore, to the number of housing units having the specified ratio of persons per room.

**Bedrooms.** The number of bedrooms in the housing unit is the count of rooms used mainly for sleeping, even if also used for other purposes. Rooms reserved for sleeping,

such as guest rooms, even though used infrequently, are counted as bedrooms. On the other hand, rooms used mainly for other purposes, even though used also for sleeping, such as a living room with a hideaway bed, are not considered bedrooms. A housing unit consisting of only one room, such as a one-room efficiency apartment, is classified by definition as having no bedroom.

**Square footage of unit.** Housing size is shown for single-family detached housing units and mobile homes. Excluded from the calculation of square footage are unfinished attics, carports, attached garages, and porches that are not protected from the elements (i.e. screened porches), and mobile home hitches. Both finished and unfinished basements are included. Median square footage is rounded to the nearest foot. Square footage is based on the respondent's estimate of the size of the unit. If the respondent did not know the square footage, the interviewer measured the outside dimensions of the unit. Preliminary evaluation indicates that this item is somewhat unreliable.

**Square feet per person.** Square feet per person is computed for each single-family detached housing unit and mobile home by dividing the number of persons in the unit by the square footage of the unit. The figures shown refer to the number of housing units having the specified square feet per person. Median square footage is rounded to the nearest foot.

**Lot size.** Lot size includes all connecting land that is owned or rented with the home. Excluded are two-or-more unit buildings and two-or-more-unit mobile homes. Median lot size is shown to hundredths of an acre.

### Structural Characteristics

**New construction.** Housing units built in the 4 years prior to the date of the interview are classified as new construction.

**Year structure built.** Year structure built refers to when the building was first constructed, not when it was remodeled, added to, or converted. The figures refer to the number of housing units in structures built during the specified periods and in existence at the time of the interview. For mobile homes and trailers, the manufacturer's model year was assumed to be the year built. Median year built is rounded to the nearest year.

**Units in structure.** In determining the number of housing units in a structure, all units, both occupied and vacant, were counted. The statistics are presented for the number of housing units in structures of specified type and size, not for the number of residential structures.

A structure is a separate building if it has either open space on all sides or is separated from other structures by dividing walls that extend from ground to roof. Structures containing only one housing unit are further classified as detached or attached.

A one-unit structure is detached if it has open space on all four sides even though it has an adjoining shed or garage. A one-unit structure is attached if it has one or more walls extending from ground to roof that divide it from other adjoining structures and does not share a furnace or boiler with adjoining structures such as in rowhouses, townhouses, etc.

Mobile homes and trailers are shown as a separate category. When one or more rooms have been added to a mobile home or trailer, it is classified as a mobile home. In previous AHS reports, these units were classified as a house, apartment, or flat.

Data on units in structure including mobile homes are not completely comparable with data on units in structure collected before the redesigned AHS. For a detailed discussion, see the "Qualifications of the data" section in the introduction.

**Foundation.** This item is restricted to one-unit buildings and excludes mobile homes. A structure has a basement if there is enclosed space at least partially underground in which a person can walk upright under all or part of the building. The basement is under all the building if it is under the entire main structure, excluding garages, carports, and porches. Crawl space is space between the ground and the first floor of the house, but it is not high enough for a person to walk upright. A house is built on a concrete slab if it is built on concrete that has been poured on the ground. The "other" category refers to a house built on stilts or pilings (for example, beach houses) and boats, motorhomes, etc.

**Site placement.** This item is restricted to mobile homes. "Site" refers to location and not necessarily a mobile home park site. The mobile home does not have to have been occupied; it only needs to have been set up for occupancy.

**Stories in structure.** Finished attics are included in the number of stories. Unfinished attics are not. For split levels and bilevels, the number of stories is determined by the highest number of floors that are physically over each other.

**Stories between main and apartment entrances.** Data are presented for multiunit structures with two or more floors and is concerned with the number of floors from the main residential entrance level of the building to the main entrance of the unit. "Same floor" indicates that the main entrance of the sample unit is on the same level as the main entrance that residents use to enter the building.

**Elevator on floor.** Statistics are shown for the number of housing units in structures with two or more floors that have one or more passenger elevators on the same floor as the sample unit and whether they are in working or nonworking condition. Excluded are elevators used only for freight.

**Common stairways.** The statistics on common stairways are presented for multiunit structures with two or more floors that have common stairways. The figures reflect the physical condition of the stairway; i.e., whether there are loose, broken, or missing steps or stair railings. Common stairways are stairways that are usually used by the occupants and guests to get to the doors of the unit. They may be either inside the structure or attached to the outside of the building.

**Light fixtures in public halls.** These statistics are presented for housing units in two-or-more-unit structures. Data include whether or not there are light fixtures in the public halls and whether or not some, none, or all of the light fixtures are in working order. Light fixtures include wall lights, ceiling lights, or table lamps in the public halls of the building. Public halls are used by the occupants and guests to get to their apartment doors.

**Water leakage during last 12 months.** Data on water leakage are shown if the leakage occurred in the 12 months prior to the interview or while the household was living in the unit if less than 12 months. Housing units with water leakage are classified by whether the water leaked in from inside or outside the building and by the most common areas (roof, basement, walls, closed windows, or doors, etc.) or reasons (fixtures backed up or overflowed, pipes leaked, etc.) of water leakage.

**External building conditions.** The external condition of the building that contains the sample unit was determined by interviewer observation, as visible from the front of the building or the roadway. The categories were grouped into the following: roof, walls, windows, and foundations.

**Roof.** A "sagging roof" is a critical defect indicating continuous neglect, or deep or serious damage to the structure. Only roofs with substantial sagging were included. "Missing roofing material" includes rotted, broken, loose, or missing shingles, tiles, slate, shake, tin, etc., caused by extensive damage from fire, storm, or serious neglect. "Hole in roof" occurs when the missing roof materials expose the interior of the unit directly to the elements. Holes caused by construction activity were not counted unless the construction had been abandoned. "Could not see roof" occurs when possible situations like a high tree, evening interviews, or a flat roof prevent the roof from being visible.

**Walls.** "Missing bricks, siding, other outside wall material" applies to the exterior walls (including chimney) of the structure. Those defects may have been caused by storm, fire, flood, extensive neglect, vandalism, and so forth. Materials may include clapboard siding, shingles, boards, brick, concrete stucco, etc. The missing materials do not necessarily expose the interior of the unit openly to the elements. Missing materials resulting from construction

activity were not counted unless construction had been abandoned. "Sloping outside walls" are a critical defect indicating continuous neglect or serious damage to the structure. Only walls with substantial sagging were included.

*Windows.* "Boarded-up windows" have been sealed off to protect against weather or entry and include windows and/or doors covered by board, brick, metal, or some other material. "Broken windows" indicate several broken or missing window panes. "Bars on windows" are to protect against unlawful entry. The condition of the windows has no bearing on this item. The bars can be vertical, horizontal, a metal grating, etc. Windows completely covered with metal sheeting are not included in this category.

*Foundation crumbling or has open crack or hole.* This category includes large cracks, holes, and rotted, loose, or missing foundation material.

*Could not see foundation.* This occurs when landscaping, night interviewing, or some other reason prevents visibility for observation.

## Plumbing Characteristics

**Plumbing facilities.** The category "with all plumbing facilities" consists of housing units that have hot and cold piped water as well as a flush toilet and a bathtub or shower for the exclusive use of the occupants of the unit. All plumbing facilities must be located in the housing unit, but they need not be in the same room. Lacking some plumbing facilities or no plumbing facilities for exclusive use means that the housing unit does not have all three specified plumbing facilities (hot and cold piped water, flush toilet, and bathtub or shower) inside the housing unit, or that the toilet or bathing facilities are also for the use of the occupants of other housing units.

**Complete bathrooms.** A housing unit is classified as having a complete bathroom if it has a room with a flush toilet, bathtub or shower, a sink, and hot and cold piped water. All facilities must be in the same room to be a complete bathroom. A half bathroom has either a flush toilet or a bathtub or shower but does not have all the facilities for a complete bathroom.

**Source of water and water supply stoppage.** A public system or private company refers to any source supplying running water to six or more housing units. The water may be supplied by a city, county, water district, or private water company, or it may be obtained from a well which supplies six or more housing units. An individual well that provides water for five or fewer housing units is further classified by whether it is "drilled" or "dug." Water sources such as springs, cisterns, streams, lakes, or bottled water are included in the "other" category.

Water supply stoppage means that the housing unit was completely without running water from its regular source. Completely without running water means that the water system servicing the unit supplied no water at all, that is, no equipment or facility using running water (in kitchen and bathroom sinks, shower, bathtub, flush toilet, dishwasher, and other similar items) had water supplied to it, or all were inoperable. The reason could vary from a stoppage because of a flood or storm, to a broken pipe, to a shutdown of the water system, to a failure to pay the bill, or other reasons.

Data on water supply stoppage are shown if they occurred in the 3 months prior to the interview, or while the household was living in the unit if less than 3 months and if the breakdown or failure lasted 6 consecutive hours or more. Housing units with water supply stoppage are also classified according to the number of times the stoppages occurred.

**Sewage disposal and sewage disposal breakdowns.** A public sewer is connected to a city, county, sanitary district, neighborhood, or subdivision sewer system. Included are only systems operated by a government body or private organization sewage treatment system serving six or more units. Small sewage treatment plants, which in some localities are called neighborhood septic tanks, are classified as public sewers. A septic tank or cesspool is an underground tank or pit used for disposal of sewage (serving five or fewer units). A chemical toilet, which may be inside or outside the unit, uses chemicals to break down or dissolve sewage. Housing units for which sewage is disposed of in some other way are included in the "other" category.

The data on breakdowns in the means of sewage disposal are limited to housing units in which the means of sewage disposal was a public sewer, septic tank, or cesspool. Breakdowns refer to situations in which the system was completely unusable. Examples include septic tank being pumped because it no longer perked, tank collapsed, tank exploded, sewer main broken, sewer treatment plant not operating as a result of electric failure or water service interruption, etc.

Data on breakdowns are shown if they occurred in the 3 months prior to the interview, or while the household was living in the unit if less than 3 months and if the breakdown lasted 6 consecutive hours or more. Housing units with a breakdown in sewage disposal are also classified according to the number of breakdowns.

**Flush toilet and flush toilet breakdowns.** A privy or chemical toilet is not considered a flush toilet. Flush toilets outside the unit were not counted. The statistics on breakdowns of flush toilet are shown for housing units with at least one flush toilet for the household's use only. The flush toilet may be completely unusable because of a faulty flushing mechanism, broken pipes, stopped up soil pipe, lack of water supplied to the flush toilet, or some other reason.

Data on breakdowns are classified by whether any of the flush toilets were working in the 3 months prior to the interview, or while the household was living in the unit if less than 3 months, and the number of times the breakdown lasted 6 hours or more.

## Equipment and Fuels

### Heating equipment and heating equipment breakdowns.

Data are shown for the main heating equipment and other heating equipment used in addition to the main heating equipment. More than one category of "other heating equipment" could be reported for the same household. Only one type of equipment was reported as the "main heating equipment." Warm-air furnace refers to a central system that provides warm air through ducts leading to various rooms. Steam or hot water system refers to a central heating system in which heat from steam or hot water is delivered through radiators or other outlets. It also includes solar heated hot water that is circulated throughout the home. An electric heat pump refers to a heating-cooling system that utilizes indoor and outdoor coils, a compressor, and a refrigerant to pump in heat during the winter and pump out heat during the summer. Only heat pumps that are centrally installed with ducts to the rooms are included in this category. Built-in electric units refers to units permanently installed in floors, walls, ceilings, or baseboards. A floor, wall, or other built-in hot-air unit without ducts delivers warm air to the room right above the furnace or to the room(s) on one or both sides of the wall in which the furnace is installed.

Room heaters with flue include nonportable room heaters in the wall or free-standing heaters that burn liquid fuel, and which are connected to a flue, vent, or chimney to remove smoke and fumes. Room heaters without flue include any room heater that burns kerosene, gas, or oil, which does not connect to a flue, vent, or chimney. Portable electric heaters include heaters that receive current from an electrical wall outlet. Stoves refer to ranges, stoves, or Franklin stoves that burn wood, coal, or other solid fuel. Fireplaces with inserts have a fan-forced air circulation system to force the heat into the room. A fireplace without inserts or with only glass door fire screens or firebacks inserted in the back of the fireplace to passively reflect heat is included in the category "fireplace without inserts."

For vacant housing units from which the heating equipment had been removed, the equipment used by the last occupants was to be reported.

For breakdowns of heating equipment, statistics are shown for housing units occupied by the householder during the winter prior to the interview. The data are classified by whether the housing unit was uncomfortably cold for 24 hours or more, the number of times equipment breakdowns occurred lasting 6 hours or more, and causes for the breakdowns.

The heating equipment is broken down if it is not providing heat at its normal heating capacity through some fault in the equipment. Utility interruptions occur when there is a cut off in the gas, electricity, or other fuel supplying the heat. Inadequate heating capacity refers to heating equipment that is providing heat at its normal capacity, but the housing unit is still too cold for the occupants. Inadequate insulation refers to air drafts through window frames, electrical outlets, or walls that are cold.

**Fuels.** Electricity is generally supplied by means of above or underground electric power lines. Piped gas is gas piped through underground pipes from a central system to serve the neighborhood. Bottled gas is pressurized gas stored in tanks or bottles that are filled or exchanged when empty. Fuel oil is heating oil normally supplied by truck to a storage tank for use by the heating system. Kerosene or other liquid fuel includes kerosene, gasoline, alcohol, and other similar combustible liquids. Coal or coke refers to coal or any coal derivative usually delivered by means of truck. Wood refers to the use of wood or wood charcoal, etc., as a fuel. Solar energy refers to the use of energy available from sunlight as a heating fuel source. Other includes briquettes made of pitch and sawdust, coal dust, waste material like corncobs, purchased steam, or any other fuel not listed.

**Electric fuses and circuit breakers.** These statistics are presented for occupied housing units. The data show whether an electric fuse has blown or circuit breaker has tripped in the home in the 3 months prior to the interview or while the household was living in the unit if less than 3 months. A blown fuse or tripped breaker switch results in the temporary loss of electricity until the fuse is replaced or the breaker switch reset. Blown fuses inside major pieces of installed equipment (such as some air conditioners) are counted as blown fuses or tripped breaker switches.

**Equipment.** This item refers to selected equipment that is in working order and for the household's exclusive use. If there are two or more of a specified appliance in the housing unit, the age of the newest is reported.

*Complete kitchen facilities.* A housing unit has complete kitchen facilities when it has all of the following for the exclusive use of the occupants of the unit: (1) an installed kitchen sink, (2) burners, and (3) a mechanical refrigerator. Quarters with only portable cooking equipment are not considered as having a range or cookstove. An icebox is not included as a mechanical refrigerator. The kitchen facilities are for the exclusive use of the occupants when they are used only by the occupants of one housing unit, including lodgers or other unrelated persons living in the unit. The same criteria were used for occupied and vacant units in determining complete kitchen facilities. In previous years, for vacant units from which one or all of the kitchen facilities had been removed, the kitchen facilities used by

the last occupant were reported. As a result, the total vacant units lacking complete kitchen facilities in this report may appear higher than in previous survey years. Data on complete kitchen facilities are not completely comparable with data on complete kitchen facilities collected before the redesigned AHS. For a detailed discussion, see the "Qualifications of the data" section in the introduction.

*Kitchen sink.* The sink must be in the unit or on an enclosed porch but does not have to be in the kitchen. A bathroom sink does not count as a kitchen sink.

*Refrigerator.* The refrigerator must be a working mechanical refrigerator. Ice boxes are not counted.

*Burners and oven.* The cookstove or range does not have to be mechanical; for example, it can be a wood-burning stove. Microwaves are included in the count of ovens, although toaster ovens are not. Portable burners are excluded from the count of cooking burners. The data show whether the equipment is less than 5 years old.

*Dishwasher.* All mechanical dishwashers are included except counter top dishwashers. The data show whether the equipment is less than 5 years old.

*Washing machine.* The washing machine must be mechanical. A wringer washing machine that must be plugged in to run is included in this count. The data show whether the equipment is less than 5 years old.

*Clothes dryer.* The clothes dryer must be mechanical. Excluded from this count are hand operated wringers, hand turned spin dryers, etc. The data show whether the equipment is less than 5 years old.

*Disposal in sink.* Only garbage disposals in working order or only temporarily out of order are included. The data show whether the equipment is less than 5 years old.

*Air conditioning.* Air conditioning is defined as the cooling of air by a refrigeration unit; excluded are evaporative coolers, fans, or blowers that are not connected to a refrigeration unit. A room air-conditioning unit is an individual air conditioner that is installed in a window or an outside wall and generally intended to cool one room, although it may sometimes be used to cool several rooms. A central system is a central installation that air conditions the entire housing unit. In an apartment building, a central system may cool all apartments in the building; each apartment may have its own central system; or there may be several systems, each providing central air conditioning for a group of apartments. A central installation with individual room controls is a central air-conditioning system.

## Housing and Neighborhood Quality

### Selected amenities:

*Porch, deck, balcony, or patio.* The porch, deck, balcony, or patio must be attached to the sample unit, not just to the building or free standing. Porches may be enclosed or open.

*Telephone available.* A housing unit is classified as having a telephone if there is a telephone for receiving calls available to the occupants of the unit. The telephone may be located outside or inside the housing unit, and one telephone may serve the occupants of several units. The number of housing units with a telephone available, therefore, does not indicate the number of telephones installed in homes.

*Usable fireplace.* Excludes the following: fireplaces that have been blocked off or whose chimney or flue have been filled, decorative or artificial fireplaces, and Franklin stoves. Free-standing fireplaces are included in this item.

*Separate dining room.* A separate dining room is an area separated from an adjoining room by a built-in floor-to-ceiling wall extending at least a few inches from its intersecting wall. Built-in walls do not include movable or collapsible partitions, or partitions consisting solely of shelves and cabinets.

*Living rooms, recreation rooms, etc.* Includes family rooms, dens, recreation rooms and/or libraries.

*Garage or carport.* The garage or carport must be on the same property but does not have to be attached to the house. Off street parking is considered driveway or parking lot privileges that is paid for as part of the rent.

### Selected deficiencies:

*Signs of rats.* The statistics on signs of rats refer to respondents who reported seeing rats or signs of rats inside the house or building during the last 3 months or while the household was living in the unit if less than 3 months. Signs of rats include droppings, holes in the wall, or ripped or torn food containers.

*Holes in floors.* Data are shown on whether there are holes in the interior floors of a housing unit. The holes do not have to go all the way through to a lower floor or to the exterior of the unit. The holes must be large enough to cause someone to trip.

*Open cracks or holes (interior).* Statistics are presented on whether or not there are open cracks or holes in the interior walls or ceilings of the housing unit. Included are cracks or holes that do not go all the way through to the

next room or to the exterior of the housing unit. Hairline cracks or cracks that appear in the walls or ceilings but are not large enough to insert the edge of a dime and very small holes caused by nails or other similar objects are not considered to be open cracks or holes.

*Broken plaster or peeling paint (interior).* The area of peeling paint or broken plaster must be on the inside walls or ceilings and at least one area of broken plaster must be larger than 8 inches by 11 inches.

*Electric wiring.* A housing unit is classified as having exposed electric wiring if the unit has any wiring that is not enclosed, either in the walls or in metal coverings, or if the unit has any wiring outside the walls enclosed in some material other than metal. Excluded from the tabulation are appliance cords; extension cords; chandelier cords; and telephone, antenna, or cable TV wires.

*Electric wall outlets.* A housing unit is classified as having rooms without electric wall outlets if there is not at least one working electric wall outlet in each room of the unit. A working electric wall outlet is one that is in operating condition; i.e., can be used when needed. If a room does not have an electric wall outlet, an extension cord used in place of a wall outlet is not considered to be an electric wall outlet.

#### **Cars and Trucks Available:**

*Cars.* Included are passenger cars and station wagons owned or regularly used by one or more household members and ordinarily kept at home. Company cars are counted if used regularly for nonbusiness purposes and kept at home as well as taxicabs if they are owned by a household member and kept at the sample unit. To obtain a count of all units lacking cars, the lines "no cars, trucks, or vans" and "other households without cars" must be added together.

*Trucks and vans.* Included are pickups and small panel trucks of 1-ton capacity or less and small vans that are owned or regularly used by one or more members of the household and ordinarily kept at home. Company trucks and vans are included if used regularly for nonbusiness purposes and kept at home. To obtain a count of all units lacking trucks or vans, the lines "no cars, trucks, or vans" and "with cars, no trucks or vans" must be added together. Except for units falling in the category "no cars, trucks, or vans," all units will fall into two categories. For example, a unit with one car only would fall both in the category "one car with or without trucks or vans" and "with cars, no trucks or vans."

**Severe physical problems.** A unit has severe physical problems if it has any of the following five problems:

*Plumbing.* Lacking hot or cold piped water or a flush toilet, or lacking both bathtub and shower, all inside the structure for the exclusive use of the unit.

*Heating.* Having been uncomfortably cold last winter for 24 hours or more because the heating equipment broke down, and it broke down at least three times last winter for at least 6 hours each time.

*Electric.* Having no electricity or all of the following three electric problems: exposed wiring; a room with no working wall outlet; and three blown fuses or tripped circuit breakers in the last 90 days.

*Upkeep.* Having any five of the following six maintenance problems: water leaks from the outside, such as from the roof, basement, windows or doors; leaks from inside structure such as pipes or plumbing fixtures; holes in the floors; holes or open cracks in the walls or ceilings; more than 8 inches by 11 inches of peeling paint or broken plaster; or signs of rats or mice in the last 90 days.

*Hallways.* Having all of the following four problems in public areas: no working light fixtures; loose or missing steps; loose or missing railings; and no elevator.

**Moderate physical problems.** A unit has moderate physical problems if it has any of the following five problems but none of the severe problems.

*Plumbing.* On at least three occasions during the last 3 months, or while the household was living in the unit if less than 3 months, all the flush toilets were broken down at the same time for 6 hours or more.

*Heating.* Having unvented gas, oil, or kerosene heaters as the primary heating equipment.

*Upkeep.* Having any three of the overall list of six upkeep problems mentioned above under severe physical problems.

*Hallways.* Having any three of the four hallway problems mentioned above under severe physical problems.

*Kitchen.* Lacking a kitchen sink, refrigerator, or burners inside the structure for the exclusive use of the unit.

**Overall opinion of structure.** The data presented are based on the respondent's overall opinion of the house or apartment as a place to live. The respondent was asked to rate the structure based on a scale from 1 to 10, where 10 is the best and 1 is the worst.

**Overall opinion of neighborhood.** The data presented are based on the respondent's overall opinion of the neighborhood. The respondent defines neighborhood. The respondent was asked to rate the neighborhood based on a scale from 1 to 10, where 10 is the best and 1 is the worst.

**Neighborhood conditions.** The statistics presented are based on the respondent's opinion and attitude toward the neighborhood. The respondent defines neighborhood. The respondent was asked a two-part question: (1) If anything about the neighborhood bothered the respondent and (2) if so, what? The interviewer coded the responses into the following categories: crime; noise; traffic; litter or housing deterioration; poor city/county services; undesirable commercial, institutional, or industrial property; people; and other. Multiple responses were allowed. The respondent may not have the same opinion as a neighbor about neighborhood conditions. The respondent's opinion may or may not reflect the actual neighborhood situation.

**Description of area within 300 feet.** The interviewer, through personal observation, marked all of the following categories that describe the area within 300 feet of the building in which the sample unit is located. The interviewer's best estimate of distance was considered to be acceptable. The categories include: single-family detached house(s); single-family attached house(s) or low rise (1 to 3 story) multiunit building(s); mid-rise (4 to 6 story), multiunit building(s); high-rise (7-or-more story), multiunit building; and mobile home(s), excluding campers. The category "Commercial, institutional, industrial building(s)" includes all varieties of nonresidential structures—offices, banks, hospitals, prisons, pumping stations, water treatment plants, factories, parking garages, churches, hotels, restaurants, barns, junkyards, etc. "Residential parking lot(s)" excludes driveways of single-family homes and parking garages where parking is on more than one level. "Body of water" refers to lakes, ponds, stream, reservoirs, rivers, etc. Swimming pools, bird baths, temporary pools of water, etc., are excluded. "Open space, park, woods, farm, or ranch" includes cemeteries, golf courses, woods, forest preserves, vacant lots, undeveloped land, airport land, ball fields, school fields, etc. The category "4 + lane highway, railroad, or airport" refers to highways of four lanes or more, railroad tracks and airports.

**Age of other residential buildings within 300 feet.** The statistics presented are based on the interviewer's personal observation. "About the same" indicates all homes within 300 feet appear to have been built at about the same time as the sample unit. If the sample unit was built after 1940, residences built more than 10 years before or after the sample unit are considered as not being built at about the same time. "Older than sample unit" and "newer than sample unit" indicate that the sample unit appears to

be decidedly newer or older than the homes within 300 feet. "Very mixed" indicates the predominant ages appear to be very mixed, and if there are no other residential buildings within 300 feet, "no other residential buildings" is marked.

**Mobile homes in group.** Mobile homes or mobile home sites gathered close together are considered to be in a "group." This may be a mobile home park or it may be a number grouped together on adjacent individually owned lots but not in a mobile home park.

**Other buildings vandalized or with interior exposed.** The statistics presented are based on the interviewer's personal observation. A unit is considered to be vandalized if it has most of the visible windows broken, doors pulled off, badly burned, words or symbols printed on it, portions of the roof missing or gone, or in some other way has the interior exposed to the elements.

**Bars on windows of buildings.** The statistics presented are based on the interviewer's personal observation. The condition of the windows has no bearing on this item. The windows might be in perfect condition, but the bars might be there to protect against vandalism. Windows that are boarded up or covered with tin are not included.

**Condition of streets.** The statistics presented are based on the interviewer's personal observation. Major repairs include large potholes, badly crumbling or deteriorating shoulders and roadsides, deep ruts, etc. Minor repairs include small cracks, shallow holes, or missing minor surfacing.

**Trash, litter, or junk on streets or any properties.** The statistics presented are based on the interviewer's personal observations. Major accumulation includes tires, appliances, or large amounts of trash accumulated over a period of time. Minor accumulation includes small amounts of paper, cans, or bottles that do not give the impression of long neglect. The building in which the sample unit is located is included.

## Financial Characteristics

All of the financial characteristics shown in this report, except those in table 19, are shown for all renters and/or all owners. In 1983 and earlier, the Annual Housing Survey reported characteristics such as value and rent for specified owners and specified renters only. Specified owners are single-family, owner-occupied units on less than 10 acres with no business or medical office. Specified renters exclude single-family units on 10 acres or more. Table 19

in this report presents financial characteristics for specific owners and specified renters that which can be used when making comparisons with 1983 and earlier years.

**Value.** Value is the respondent's estimate of how much the property (house and lot) would sell for if it were for sale. Any nonresidential portions of the property are excluded from the cost. For vacant units, value represents the sale price asked for the property at the time of the interview and may differ from the price at which the property is sold. Medians for value are rounded to the nearest dollar.

**Income.** The statistics on income in the American Housing Survey are based on the respondent's reply to questions on income for the 12 months prior to the interview and are the sum of the amounts reported for wage and salary income, self-employment income, interest or dividends, Social Security or railroad retirement income, public assistance or welfare payments, alimony or child support, and all other money income. The figure represents the amount of income received before deductions for personal income taxes, Social Security, union dues, bond purchases, health insurance premiums, Medicare deductions, etc. Medians for income are rounded to the nearest hundred dollars.

In this report, the statistics are shown separately for the money income of families and primary individuals occupying the housing unit (the sum of the income of the householder and all other members of the family 14 years old and over, or the income of the primary individual), and the money income of the household (the sum of the income of the householder and all household members 14 years old and over).

Wage or salary income is defined as the total money earnings received for work performed as an employee at any time during the 12-month period prior to the interview. It includes wages, salary, piece-rate payments, commissions, tips, cash bonuses, and Armed Forces pay. Self-employment income is defined as money income received from a business, professional practice, partnership, or farm in which the person was self-employed. Social Security or pensions includes cash receipts of Social Security pensions; survivors' benefits, disability insurance programs for retired persons, dependents of deceased insured workers, or disabled workers; and deductions for Medicare and health insurance premiums. Cash receipts of retirement, disability, and survivors' benefit payments made by the U.S. Government under the Railroad Retirement Act are also included. Separate payments received for hospital or other medical care are not included.

Income from all other sources includes money income received from sources such as periodic payments from interest or dividends; net rental income (or loss) from property rentals; net receipts from roomers or boarders; net royalties; public assistance or welfare payments that include cash receipts received from public assistance programs, such as old age assistance, aid to families with

dependent children, and aid to the blind or totally disabled; unemployment insurance benefits; workmen's compensation cash benefits; periodic payments by the Veteran's Administration to disabled veterans; public or private pensions; periodic receipts from insurance policies or annuities; alimony or child support from persons who are not members of the household; net gambling gains; and nonservice scholarships and fellowships.

Receipts from the following sources were not included as income: Value of income "in kind," such as; free living quarters, housing subsidies, food stamps, or food produced and consumed in the home; money received from the sale of property (unless the recipient was engaged in the business of selling such property); money borrowed; tax refund; withdrawal of bank deposits; accrued interest on uncashed savings bonds; exchange of money between relatives living in the same household; gifts of money; and lump-sum payments from inheritances, insurance policies, estates, trusts, gifts, etc.

The income statistics and the characteristics of the household refer to different periods in time. Income data refer to the 12 months prior to the interview, whereas the household characteristics refer to the date of interview. Thus, family or household income does not include amounts received by persons who were members of the family during all or part of the income period if these persons no longer resided with the family at the time of the interview. On the other hand, family or household income includes income reported by persons who did not reside with the household during the income period but who were members at the time of the interview. For most households, however, the income reported was received by persons who were members of the household throughout the income period.

There may be significant differences in the income data between the American Housing Survey and other Census Bureau surveys and censuses. For example, the time period for income data in the American Housing Survey refers to the 12 months prior to the interview, but other income data generally refer to the calendar year prior to the date of the interview. Additional differences in the income data may be attributed to factors such as the various ways income questions are asked, the sampling variability and nonsampling errors between the American Housing Survey and other Census Bureau surveys and censuses, survey procedures and techniques, and processing procedures.

**Current income.** Two new questions were added to the American Housing Survey in 1990. Upon completion of the detailed income questions, respondents were asked, "Is your total family income THIS MONTH about the same as it was a year ago?" "About the same" was defined within 10 percent or just cost of living adjustments. If the respondent answered "no," a second question was asked, "What do you expect your total family income to be in the NEXT 12 MONTHS?" Current income for households whose



most recent month's income was NOT about the same as a year ago is the "total expected family income in the NEXT 12 MONTHS." Current income for households whose most recent month's income WAS about the same as a year ago is "family and primary individual income." For the majority of households, current income equals income of families and primary individuals. Data on current income is not published separately. It is used in the calculation of "Ratio of value to current income," and "Monthly housing costs as percent of current income." It is felt that respondents who have only recently entered the job market and those who changed jobs during the past year often report a previous year's income, which is too low to accurately reflect their current financial situation as it relates to the value of their home and their housing costs.

**Ratio of value to current income.** The ratio of value to current income is computed by dividing the value of the housing unit by the total current income (see definition of current income). The ratio was computed separately for each housing unit and was rounded to the nearest tenth. For value and current income, the dollar amounts were used. Units occupied by individuals who reported no income or a net loss compose the category "zero or negative income." Medians for the ratio of value to current income are rounded to the nearest tenth.

Before 1990, the item "Value-income ratio" was computed by using the income of families and primary individuals only. It was felt that the respondents who only recently entered the job market or who changed jobs during the past year often reported a previous year's income, which was too low to accurately reflect their current financial situation. The 1990 data for "ratio of value to current income" is not directly comparable to previously published data for "Value-income ratio."

**Amount of savings and investments.** These data are restricted to families and primary individuals with total incomes of \$25,000 per year or less. Savings include savings in the bank or other financial institution. It also includes savings in money market accounts. Investments in a farm or business must be owned shares in a business or farm, owned percentage of the capital or assets, investment in a farm or business for which the investor holds a promissory note, or membership in a partnership that has any of the above. Other investments include stocks, bonds, rental property, real estate, antiques, art, certificates of deposit, IRA or KEOGH accounts, commodities, etc.

**Food stamps.** These data are restricted to families and primary individuals with total incomes of \$25,000 per year or less. Food stamps are government-issued coupons that can be used to purchase food. The food stamp program is a joint Federal-State program that is administered by State and local governments.

**Poverty status.** The poverty data in this report differs from official poverty estimates in two important respects.

The first important difference is the use of a poverty definition that is based on household income in place of the official method that is based on the income of the family or the unrelated individual. Under the official approach, the poverty status of two unrelated individuals living together would be determined by comparing the income of each individual to the poverty threshold for an unrelated individual. The result might be that both were in poverty, both were out of poverty, or one was in poverty and one was not. Under the approach used in this report, the two unrelated individuals were treated as members of a two-person family, and their poverty status was determined by comparing their combined income to the poverty threshold for a two-person family. The effect of using a poverty concept that is based on household income is to undercount the number of persons in poverty relative to the official estimate. A study based on the March 1975 Current Population Survey found that poverty estimates based on a household income concept were about 6 percent lower than official estimates. For more information, see Technical Paper X, *Effect of Using a Poverty Definition Based on Household Income*, U.S. Department of Health, Education, and Welfare, 1976. A second important difference between the poverty estimates in this report and the official poverty estimates has to do with the method used to measure income. The official annual poverty estimates are based on data collected in the March supplement to the Current Population Survey. The income questions asked in that survey are very detailed and measure the amount of income received during the previous calendar year. The income questions asked in the AHS are much less detailed and measure the amount received during the previous 12 months. Because interviews were conducted during the period August through December, the income measures do not pertain to a fixed period. Most of the income questions in the AHS were asked on a household rather than an individual income basis. The lack of data for individuals made it necessary to adopt a poverty definition based on household income.

Officially, families and unrelated individuals are classified as being above or below the poverty level using the poverty index originated at the Social Security Administration in 1964 and revised by the Federal Interagency Committees in 1969 and 1980. The poverty index is based solely on money income and does not reflect the fact that many low-income persons receive noncash benefits such as food stamps, Medicaid, and public housing. The index is based on the Department of Agriculture's 1961 Economy Food Plan and reflects the different consumption requirements of families based on their size and composition. The poverty thresholds are updated every year to reflect changes in the Consumer Price Index (CPI). For further details, see Current Population Reports, Series P-60, No. 175, *Poverty in the United States: 1990*.

**Year unit acquired.** The year the unit was acquired or inherited refers to the year in which the present owner acquired or inherited the house or apartment; for example,

the year the contract was signed. This date may be different from the date when the occupants moved in. If the land and building were bought at different times, the year of the building only was recorded. If there was a land contract only, the year the contract was signed was recorded. Median year acquired is rounded to the nearest year.

**First-time owners.** If both the owner and any co-owners have never owned or co-owned another home as a usual place of residence, then the housing unit was reported as the first home ever owned. Previous homes purchased solely as vacation homes or homes purchased for commercial rental purposes are not to be considered usual residences. However, if a previously owned home was originally purchased as a usual residence and later used as a vacation home or for commercial or rental purposes, the home is considered as being owned as a usual residence.

**Purchase price.** The purchase price refers to the price of the house or apartment and lot at the time the property was purchased. Closing costs are excluded from the purchase price, and for mobile homes, the value of the land is excluded. Median purchase price is rounded to the nearest dollar.

**Major source of down payment.** This item refers to the source of the cash used for down payment or outright purchase of the property (house and lot). If more than one source applied, the one providing the largest portion of the down payment or outright purchase was recorded. Sale of previous home was indicated only if the previous home was sold during the 12-month period preceding the acquisition of the present home. Savings, or cash on hand, includes money drawn from savings, such as bank deposits, credit unions, share accounts, savings bonds, certificates of deposit (CD's), money market funds, and IRA or KEOGH accounts. Sale of other investment includes the sale of other real property or real estate other than the previous home or from the sale of other investments such as securities (common and preferred stock, municipal or corporate bonds, mutual funds), dissolved business ventures, etc. Borrowing other than a mortgage on this property was indicated if the present owner borrowed the down payment, even if the property was mortgaged.

Money received as a gift regardless of the source was categorized "inheritance or gift." "Land where building built used for financing" means the land on which the structure was built was used as the present owner's equity in the property. Sources of down payment that do not fit any of the above categories were recorded in the "other category."

**Mortgages currently on property.** The owner or the owner's spouse was asked the number of mortgages or similar loans (including home equity loans) currently in effect on the home. For mobile homes, if there was a

separate loan for the mobile home and for the land, two mortgages were recorded. A mortgage or similar debt refers to all forms of debt where the property is pledged as security for payment of the debt. It includes such debt instruments as deed of trust, trust deeds, mortgage bonds, and vendors' liens. In the first three arrangements, usually a third party, known as the trustee, holds the title to the property until the debt is paid. In the vendor lien arrangement, the title is kept by the buyer but the seller (vendor) reserves, in the deed to the buyer, a lien on the property to secure payment of the balance of the purchase price. Also included as a mortgage or similar debt are contracts to purchase, land contracts, and lease-purchase agreements where the title to the property remains with the seller until the agreed upon payments have been made by the buyer.

**Primary mortgage.** Data are shown in this report for primary mortgages and secondary mortgages. A mortgage is primary if it is the only one on the property. If two or more mortgages exist, one was designated as the primary mortgage. Detailed information on mortgages was collected in the AHS on the first two mortgages reported even if the unit had three or more mortgages. On the basis of this information, one of the first two mortgages was considered to be the primary mortgage. The definition of the primary mortgage may not in all cases totally agree with legal definitions of a "first mortgage." The following hierarchy was used to determine primary mortgage: (1) A VA, FHA, or FmHA mortgage was automatically considered to be the primary mortgage. (2) If neither mortgage was a VA, FHA, or FmHA mortgage, an assumed mortgage was considered to be the primary mortgage. (3) If none of the above conditions existed, the mortgage obtain the year the home was purchased was considered to be the primary mortgage. (4) If both mortgages were obtained after the year of purchase, the one taken out first was considered to be the primary mortgage. (5) If all the above failed to designate a primary mortgage, the mortgage for the largest initial amount borrowed was considered the primary mortgage. All other mortgages were considered to be secondary.

**Type of primary mortgage.** Mortgage insurance is financial protection provided to the lender in case the borrower fails to keep up the required mortgage payments and defaults on the loan. Such insurance protection is offered by both the Government, acting as an insurance agent, and by private mortgage insurance companies. The Federal government agencies that currently insure or guarantee mortgages or similar debts include the Federal Housing Administration (FHA), the Veteran's Administration (VA), and the Farmers Home Administration (FmHA). The FHA insures home loans made by private lenders. The Farmers Home Administration provides much the same service as the FHA but confines its assistance to rural areas. The VA guarantees or insures loans under the Servicemen's readjustment Act (GI Bill). Mortgage loans

that are not insured by the FHA, VA, or Farmers Home Administration are referred to as "conventional" mortgages. Conventional mortgages and mortgage debts insured or guaranteed by State or local government agencies are shown in the tables as "Other Types."

**Lower cost State and local mortgages.** Data are shown for owners with one or more mortgages. These are loans generally 1 to 3 percent below the current mortgage interest rate at the time the loan was made. The loans are managed through State or local governments. Excluded are Federally funded VA programs.

**Mortgage origination.** Data are shown for owner-occupied units with one or more mortgages. For units with new mortgages, data are classified by the date the new mortgage was obtained in relation to the date the property was acquired. An assumed mortgage indicates that the present mortgage is the same mortgage that was assumed from the previous owner when the property was acquired and has not been refinanced. A wrap-around mortgage is a mortgage whose face value encompasses the unpaid balance of the first mortgage(s) plus the amount of any new funds extended by the wrap-around lender. "Combination of the above" means that there were more than one method of origination for the outstanding mortgages on the property.

**Payment plans of primary and secondary mortgages.**

Data are presented separately for primary and secondary mortgages. The term "payment" refers to regular principal and interest payments only and not to payments for real estate taxes, property insurance, etc. Fixed payment, self-amortizing mortgages have payments that do not change during the term of the loan, with the principal payments sufficient to pay off the loan completely within the stated term. Adjustable rate mortgages are mortgages whose interest rates could be changed during the life of the mortgage changing the amount of the payments required. In adjustable-term mortgages, the amount of the payments stays constant, but the number of payments required to pay off the loan can change over time as interest rates change. Graduated payment mortgages allow monthly payments to change during the term of the mortgage by means other than a change in interest rate. These mortgages begin with lower payments that rise later in the life of the mortgage. Balloon mortgages are mortgages in which only part or none of the principal is paid off during the term of the loan (which commonly is about 5 years). At the end of the term, the principal is paid off in one lump sum, refinanced with a new loan, or extended by renewal of the loan.

**Lenders of primary and secondary mortgages.** This item is restricted to units with one or more mortgages. The data are classified by whether the money was borrowed

from a firm (bank or other organization), the seller of the property, or from another individual. Other organizations consist of mortgage corporations, pension plans, credit unions, savings and loan associations, etc. Individuals include anyone who was not the most recent owner.

**Items included in primary mortgage payment.** The respondent was asked to indicate which items were included in the monthly mortgage payment besides principal and interest. These items included property taxes, property insurance, and other charges. Other charges that may include insurance premiums, disability insurances, life insurances, etc., may tally in more than one category.

**Year primary mortgage originated.** The year the primary mortgage was originated is the year the mortgage was signed. Medians for year primary mortgage originated are rounded to the nearest year.

**Term of primary mortgage at origination or assumption.** Term is the number of years from the date the new owners first obtained the present mortgage to the date the last payment is due according to the terms of the contract. Medians for term of primary mortgage are rounded to the nearest year.

**Remaining years mortgaged.** The owner or owner's spouse was asked the length of time it would take to pay off the loan at the current payments. The response reflects the amortization schedule. Medians for remaining years mortgaged are rounded to the nearest year.

**Current interest rate.** This item refers to the annual percentage rate in effect as of the date of the interview, not the rate when the mortgage was made, nor any imminent changes of which the respondent may be aware. Medians for current interest rate are rounded to the nearest tenth.

**Total outstanding principal amount.** The statistics shown represent the total amount of principal that would have to be paid off if the loan were paid off in full on the date of interview. Medians for outstanding principal amount are rounded to the nearest dollar.

**Current total loan as percent of value.** This percentage is computed by dividing the outstanding principal amount by the value of the housing unit. Medians for loan as a percent of value are rounded to the nearest tenth of a percent.

**Monthly costs for electricity and gas.** Beginning in 1989, two procedures were introduced that attempt to correct the overreporting of electricity and gas costs in the AHS. In the first procedure, respondents were asked the amount of their electricity and/or gas bill for the previous months of January, April, August, and December. These months are the best predictors of annual costs. If the

respondent provided data for at least 3 of the 4 months, the results were used to provide an annual estimate of costs. This estimate was then divided by 12 to provide average monthly costs.

The second procedure was applied to the remaining units. If the respondents did not know the amount of their electricity and/or gas bill for at least 3 of the 4 months, we used their estimate of average monthly costs. A factor was then applied that, in effect, lowered these costs to make them consistent with electricity and gas costs reported in the Residential Energy Consumption Survey sponsored by the United States Department of Energy. Before 1989, respondents were only asked to provide an estimate of average monthly costs. Research has shown that this approach produces 15 to 20 percent overestimates of electricity and gas costs. The new procedures produce lower and more accurate estimates. On average, more than one-third of the respondents provided answers for at least 3 of the 4 months.

**Monthly housing costs.** The data presented are for owner- and renter-occupied housing units. Monthly housing costs for owner-occupied units is the sum of monthly payments for all mortgages, or installment loans or contracts, real estate taxes (including taxes on mobile homes, or trailer sites if the site is owned), property insurance, homeowners association fee, cooperative or condominium fee, mobile home park fee, land rent, utilities (electricity, gas, water, and sewage disposal), fuels (oil, coal, kerosene, wood, etc.), and garbage and trash collection. As of 1989, data on the costs of electricity and gas are collected differently (see "Monthly costs of electricity and gas" definition). Because of this, monthly housing costs from 1989 onward may not be entirely comparable with data published in previous years. Monthly housing costs are not computed for households with a mortgage or similar debt that failed to report the amount of their loan or contract payment.

For renter-occupied housing units, monthly housing costs include the contract rent plus the estimated average monthly cost of utilities (electricity, gas, water, and sewage disposal) and fuels (oil, coal, kerosene, wood, etc.); property insurance, mobile home land rent, and garbage and trash collection if these items are paid for by the renter (or paid for by someone else, such as a relative, welfare agency, or friend) in addition to rent. Renter housing units occupied without payment of cash rent are shown separately as no cash rent. Monthly housing costs for vacant-for-rent housing units include rent asked. For rental units subsidized by public housing authority, the Federal government, or State or local governments, the monthly rental costs reflect only the portion paid by the household not the portion subsidized. Before 1990, the monthly rental costs may have included the amount subsidized for many subsidized units.

Monthly housing costs are shown for all renters and all owners. In 1983 and earlier, the Annual Housing Survey published selected monthly housing costs and gross rent

for specified owners and specified renters only. Table 19 in this report presents financial characteristics for specified owners and specified renters, which can be used for making comparisons with 1983 and earlier years. Medians for monthly housing costs are rounded to the nearest dollar.

**Monthly housing costs as percent of current income.**

The yearly housing costs (monthly housing costs multiplied by 12) are expressed as a percentage of the total current income (see definition of current income). This percentage is calculated for the same owner- and renter-occupied housing units for which "Monthly housing costs" were computed (for exclusions, see "Monthly housing costs"). The percentage was computed separately for each unit and rounded to the nearest percent. The measure was not computed for units where occupants reported no income or a net loss.

Before 1990, the item "Monthly housing costs as percent of income," was computed by using the income of family and primary individuals only. It was felt that respondents who only recently entered the job market or who changed jobs during the past year often reported a previous year's income, which was too low to accurately reflect their current situation. In addition to a change in the source of income used in calculations, the 1990 item uses new procedures to estimate the costs of electricity and gas (see "Monthly costs of electricity and gas" definition). As a result of these two changes, data for "Monthly housing costs as a percent of current income" published as of 1990 are not comparable to "Monthly housing costs as a percent of income" published in previous surveys.

**Median monthly housing costs for owners.** Two additional medians are shown separately for owner-occupied units. The first median includes maintenance costs in addition to those items included in "Monthly housing costs" (see above item). The second excludes second and subsequent mortgages, installment loans or contracts, and maintenance costs, but includes all remaining items listed in "Monthly housing costs."

**Rent paid by lodgers.** This item refers to a regular fixed rent, a set amount of money, billed or charged, that is paid at regular intervals by a lodger (usually weekly or monthly) to a member of the household. The data are restricted to lodgers who are 14 years of age or older, nonrelatives of the householder or any co-owners or co-renters, and not a co-owner or co-renter themselves. In 1988, the distribution for this item was changed to "Less than \$100," "\$100 to \$199," "\$200 to \$299," "\$300 to \$399," and "\$400 or more." Medians for rent paid by lodgers are rounded to the nearest dollar.

**Property insurance.** This item refers to homeowner's/ household's property insurance on the structure and its contents (such as furniture, appliances; clothing, etc.) and

usually contains some liability insurance to protect occupants should visitors have an accident on the premises. Renters usually have household property insurance. The total cost is the most recent charges for the 12-month period preceding the interview for which the occupants have actually been billed. Yearly cost was divided by 12 before calculating a monthly median cost. Medians for property insurance are rounded to the nearest dollar.

**Cost and ownership sharing.** This item is restricted to owner-occupied housing units. Shared ownership is two or more names on a deed or title. Shared costs include only payments designated for mortgage or utility costs, whether paid directly to a mortgage or utility company or to household members. "Not living here" means that one of the persons sharing the ownership or costs is not a household member.

**Monthly payment for principal and interest.** The data present the monthly dollar amount paid on the mortgage, for principal and interest only. It does not include that portion of the monthly payment used for property taxes, homeowner insurance, and/or other charges. Medians for monthly payment for principal and interest are rounded to the nearest dollar.

**Real estate taxes.** This item includes special assessments, school taxes, county taxes, and any other real estate taxes. Excluded are payments on delinquent taxes due from prior years. Rebates are subtracted from the total. When the real estate taxes are included with the mortgage, a separate amount for the taxes is obtained. To determine average monthly cost, yearly cost was divided by 12. Medians for real estate taxes are rounded to the nearest dollar.

**Annual taxes paid per \$1,000 value .** The annual real estate taxes paid per \$1,000 value of the property (house and lot) are presented. Medians for taxes per \$1,000 value are rounded to the nearest dollar.

**Routine maintenance in last year.** Routine maintenance consists of regular maintenance activities necessary for the preventive care of the structure, property, and fixed equipment items. Included are such things as painting; papering; floor sanding; restoration of some shingles; fixing of water pipes; replacement of parts of large equipment, such as furnace; repairing fences, gutters, sidewalks, decks, or patios; removal of dangerous trees; termite inspection; etc. Housecleaning is not included. Routine maintenance does not include work reported under the section on repairs, improvements, and alterations. Medians for routine maintenance are rounded to the nearest dollar.

**Condominium and cooperative fee.** A condominium fee is a fee charged to the owners of the individual condominium unit on a regular basis. The fee covers all operating

and maintenance costs of the common property; for example, halls, lobby, parking areas, laundry room, swimming pool, etc., and related administrative costs, such as utilities billed communally, management fees, etc.

The cooperative maintenance fee for a cooperative unit (also called carrying charges) is based on a percentage developed by dividing the value of the unit by the total value of the project at the time the cooperative corporation was formed. A cooperative maintenance fee is the share of the annual budget to be borne by the member living in the sample unit, including his/her share of the annual amount paid by the cooperative for real estate taxes, mortgage interest, and operating cost. Medians for condominium and cooperative fees are rounded to the nearest dollar.

**Other housing costs per month.** A homeowner's association fee (excludes condominiums and cooperatives fees) is a fee charged for services such as upkeep of common property (painting hallways, cleaning lobbies, mowing lawns, repairing laundry facilities, paving parking areas, repairing street lights, etc.). The fee may include the use and maintenance of either indoor or outdoor swimming facilities or other recreational facilities (party rooms, tennis courts, basketball courts, exercise rooms, playground areas, etc.). Also, the homeowner's association fee can include payments for security personnel such as security guards or services such as telephone answering service, maid service, or other domestic help. Mobile home park fees are regular payments to the park management that could include site rental, utility charges, mail handling, and/or fees for the maintenance of common areas. In a few areas of the country, the people may own the unit but not the land on which it stands. Land rent refers to land that is rented or leased from the land owner, and "ground rent" is paid. These leases are for long periods of time (50 to 100 years) when originated. The lease obligation transfers with the property and cannot be canceled. Medians for other housing costs are rounded to the nearest dollar.

**Rent reductions.** Rent control means that an increase in rent is regulated by law. The jurisdiction, State or local, mandates that percentage rent increases are set and must be approved by a board, agency, department, division, office, etc.

The States of California, Connecticut, New Jersey, New York, and Massachusetts, as well as the District of Columbia, are the only States that have metropolitan areas with rent control. As a result, only 3 of the 11 metropolitan areas in 1990 show an estimate of rent control units. These include Anaheim-Santa Ana, CA; Riverside-San Bernardino-Ontario, CA; and Rochester, NY. If a respondent answered "yes" to rent control in the remaining eight metropolitan areas, the answer was edited to "no."

A housing unit is classified as being in a public housing project if the structure in which the unit is located is owned by any local or State government agency, such as a

housing and redevelopment authority or a housing development agency, and operated as public housing. These organizations may receive subsidies from the Federal or State government, but the local agency owns the property.

A housing unit is classified as being subsidized if under certain programs the respondent pays a lower rent because a Federal, State, or local government program pays part of the cost of construction, building mortgage, or operating expenses. These programs include (1) the rental assistance program where part of the rent for low-income families occupying the rental housing units is paid by the Department of Housing and Urban Development (HUD), (2) the FHA interest subsidy programs for rental and cooperative housing for low-income families, (3) the rent supplement program where part of the rent for low-income families occupying certain types of HUD-assisted rental housing projects is paid by the FHA, and (4) the direct loan program of HUD for housing the elderly. Units requiring income verification are subsidized units.

**Other activities on property.** Data presented excludes rental units. Property consists of one or more tracts of land that the respondent considers to be the same property, farm, ranch, estate. The tracts may be adjoining or they may be separated by a road, creek, or other piece of land. A commercial establishment may be located in the same building as the sample unit or it may be located elsewhere on the property (grocery store, restaurant, gasoline station, or veterinary office). Those housing units that have no recognizable alterations to the outside of the house are not considered as having a commercial establishment. For a condominium, this item refers to the sample unit only. A farm is not classified as a commercial establishment. A medical or dental office is a doctor's or dentist's office regularly visited by patients.

**Repairs, improvements, alterations in last 2 years.** The statistics refer to the 24 months prior to the date of the interview and are restricted to owner-occupied units. The data are presented according to whether the repairs, improvements, and alterations cost less than \$500 or \$500 or more. The total cost of the labor and materials was to be reported. However, if the labor was performed by the occupants or provided without charge, only the cost of the materials was obtained. The cost pertains to the sum of the costs of the jobs if there were more than one job within the 2-year period.

## Repairs

**Roofs.** Work begun but never completed was not counted unless the work was currently in progress. All jobs were included no matter how small.

**Additions.** An addition is floor space built onto, above, or below an existing house in order to increase the enclosed space within the house. All work must have been done after the original construction.

**Kitchens.** Kitchens added to space already enclosed within the structure were counted. Remodeling a kitchen could include replacing or adding installed equipment such as a garbage disposal, trash compactor, stove, or refrigerator; or it could include replacing or adding cabinets, counter tops, floors, or lighting.

**Bathrooms.** Bathrooms added to space already enclosed within the structure were counted. Remodeling a bathroom could include replacing or adding installed equipment such as a shower door and fixtures, or vanity; or replacing or adding cabinets, counter tops, floors, or lighting.

**Siding.** Work begun but never completed was not counted unless the work was currently in progress. All jobs were included no matter how small.

**Storm doors/windows.** Used storm doors/windows were counted if new to the unit. Windows or doors that were purchased but not yet installed were counted as long as the intentions were to install them.

**Major equipment.** Only installed equipment was counted. Dehumidifiers, heating equipment, portable dishwashers, or any other equipment that simply plugged in was not counted. Water heaters and heat pumps were counted as major equipment.

**Insulation.** Insulation included all forms of materials (foam, weather stripping, caulking) that is to remain in place. Plastic taped over windows in winter but removed in summer was not counted.

**Other major work.** This category included other major repairs, alterations, or improvements costing over \$500 each.

**Government subsidy for repairs.** Low-interest loans are loans more than 1 percent below the current market rate for home improvements at the time the loan was made. The loans are designed by specific government programs for the purpose of home repair, and the money must be spent that way. Government programs can be Federal, State, or local.

## Household Characteristics

**Household.** A household consists of all the persons who occupy a housing unit. By definition, the count of households is the same as the count of occupied housing units.

**Householder.** The householder is the first household member 18 years old and over who is the owner or renter of the sample unit. If no household member occupying the sample unit owns or rents the unit, the householder is the first household member listed who is 18 years old or older.

In cases where no household member listed owns or rents the unit or is 18 years or older, the first household member listed is the householder. Before 1980, the concept "head of household" was used. One person in each household was designated as the head, that is, the person who was regarded as the head by the respondent. However, if a married woman living with her husband was reported as the head, her husband was considered the head for the purpose of simplifying the tabulations.

**Household composition by age of householder** Statistics by age of householder are presented separately for two-or-more-person households and for one-person households. Households having two or more persons are further subdivided as follows:

*Married-couple families, no nonrelatives.* Each household in this group consists of the householder and spouse and other persons, if any, all of whom are related to the householder.

*Other male householder.* This category includes households with male householders who are married, but with wife absent because of separation or other reason where husband and wife maintain separate residences; and male householders who are widowed, divorced, or single. Also included are households with male householder, wife present and nonrelatives living with them.

*Other female householder.* This category includes households with female householders who are married, but with husband absent because of separation or other reason where husband and wife maintain separate residences; and female householders who are widowed, divorced, or single. Also included are households with female householder, husband present, and nonrelatives living with them.

Households consisting of only one person are shown separately for male householder and female householder under the category "one-person households."

**Family or primary individual.** Housing units are occupied by either families or primary individuals. The term "family" refers to the householder and all (one or more) other persons living in the same household who are related to the householder by blood, marriage, or adoption. If the householder lives alone or with nonrelatives only, then the householder is considered a primary individual.

Married couples related to the householder of a family are included in the family and are not considered as separate families unless they reside in separate living quarters. A lodger, servant, or other person unrelated to the householder is considered a member of the household but not of the family.

In the statistics on household composition, families are always included in one of the three major groups of two-or-more-person households. Primary individuals with

nonrelatives living with them are tabulated as two-or-more-person households and further subdivided as other male householder or female householder. Primary individuals living alone are always tabulated as one-person households.

**Subfamily.** A subfamily is a married couple with or without children or one parent with one or more own single (never married) children under 18 years old living in a household and related to the householder or spouse. The most common example of a subfamily is a young married couple sharing the home of the husband's or wife's parents.

**Age of householder.** The age classification refers to the age reported for the householder as of that person's last birthday.

**Elderly.** Data for elderly include all households with a householder of 65 years of age or over.

**Own never-married children under 18 years old.** Statistics on presence of own children of householders are shown in this report. A child under 18 years old is defined as an own child if he or she is a single (never married) son, daughter, stepchild, or adopted child of a householder. Own children of subfamilies are excluded from the total count of own children.

**Other relative of householder.** This category includes all persons related to the householder by blood, marriage, or adoption except spouse or own child under 18 years old.

**Nonrelative.** A nonrelative of the householder is any person in the household who is not related to the householder by blood, marriage, or adoption. Roomers, boarders, lodgers, partners, resident employees, wards, and foster children are included in this category.

**Years of school completed by householder.** The statistics refer to the highest grade of regular school completed, not to the highest grade attended. For persons still attending school, the highest grade completed is one less than the one in which they are currently enrolled. Regular school refers to formal education obtained in graded public, private, or parochial schools, colleges, universities, or professional schools, whether day or night school, and whether attendance was full or part time. That is, regular schooling is formal education that may advance a person toward an elementary or high school diploma, college, university, or professional school degree. Schooling or tutoring in other than regular schools is counted only if the credits obtained are regarded as transferable to a school in the regular school system. Householders whose highest grade completed was in a foreign school system or in an upgraded school were instructed to report the approximate equivalent grade (or years) in the regular United States school system. Householders were not reported as having

completed a given grade if they dropped out or failed to pass the last grade attended. Education received in the following types of schools is not counted as regular schooling: Vocational schools, trade schools, business schools, and noncredit adult education classes.

**Single children under 18 years old.** Single children include all persons under 18 years of age who may or may not be related to the householder and are not married (i.e., widowed, divorced, separated, or never been married) at the time of the interview.

**Adults and single children under 18 years old.** Data are shown for all single children whether related to the householder or not by the age categories under 6 years old, 6 to 17 years old, and householder containing children in both age groups. The data are further divided by households headed by a married couple, other households with two or more adults, and households with one adult or none.

**Persons other than spouse or children.** Data are shown for households with the following types of people:

*Single adult offspring 18 to 29.* This category is restricted to persons who are offspring of the householder or the householder's spouse 18 to 29 years of age and not currently married.

*Single adult offspring 30 years of age or over.* This category is restricted to persons who are offspring of the householder or the householder's spouse 30 years of age or over and not currently married.

*Households with three generations.* This category includes situations where (1) both one or more children of the householder or spouse and one or more parents of the householder or spouse live in the unit, (2) both one or more parents of the householder or spouse and one or more grandparents of the householder or spouse, and (3) both one or more children of the householder or spouse and one or more grandchildren of the householder or spouse.

*Households with one subfamily.* For households with only one subfamily, data are shown for subfamily householders under 30 years of age, 30 to 64 years of age and 65 years of age and over.

*Household with other types of relatives.* This category excludes households where the only relatives of the householder present are the householder's spouse or children and households where no relative of the householder is present.

*Co-owners or co-renters.* This category includes all households where more than one household member's name is on the deed of ownership, mortgage, land contract, contract to purchase, or similar document; or more than one household member's name is on the lease, or, if there is no lease, more than one household member is responsible for paying the rent.

*Lodgers.* Counts of lodgers are restricted to households with members unrelated to the householder, and who are 14 years of age and over are not co-owners, co-renters, or children of co-owners or co-renters who pay rent to another household member.

*Unrelated children under 18 years old.* This category includes all households with members under 18 years of age who are unrelated to the householder or spouse. The members under 18 cannot be co-owners, co-renters, or lodgers.

*Other non-relatives.* This category includes all households with members 18 years of age and over who are unrelated to the householder or spouse. The members 18 and over cannot be co-owners, co-renters, or lodgers.

*One or more secondary families.* This category includes households that have two or more persons meeting the subfamily definition except that none of the secondary family members are related to the householder or spouse.

*Households, none related to each other.* None of the household members are related to any other household member. Persons other than the householder may be co-owners, co-renters, or lodgers.

**Household moves and formation.** Data are shown for households that moved into the present unit during the 12 months prior to the date of the interview. The distributions are further classified by (1) whether the household moved together from the same unit, from two or more units, or moved at separate times, and (2) if previous household-er(s) moved into the present unit.



Facsimile of the American Housing Survey Questionnaire: 1990

OMB No. 2628-0016; Approval Expires 03/31/91

NOTICE - All information which would permit identification of the individual will be held in strict confidence by law under U.S. Code, title 13, section 8a. It may be seen only by sworn Census employees and may be used only for statistical purposes.

U.S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS  
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

**AMERICAN HOUSING SURVEY  
METROPOLITAN SAMPLE  
1990  
OCCUPIED HOUSING UNITS**

1. Control number  
PSU Segment Serial Sample Panel  
-410- F

2a. Date of first visit  
Month Day Year  
0010

b. Field Representative name

c. Interview method  
0018 1  Personal visit  
2  Telephone

3. Check item (See Central Card item 6.)  
 Control number in sample last enumeration period - Complete item 4.  
 Control number in sample for first time this enumeration period - Skip to item 6

4. (See Central Card items 11 and 14.)  
Are any household members the same this time as last enumeration period?  
 URE household  
0020 1  Yes  
2  No  
3  Don't know

5. Is this the same (house/apartment/mobile home) that was at this address last enumeration period?  
Mark if house/apartment. Ask if mobile home.  
0030 1  Yes  
2  No, for example, replacement mobile home, wrong unit interviewed last time, etc.

6. Type of interview  
0040  Regular occupied - (One or more "1," in Central Card item 14) - Go to item 20, page 3  
2  URE occupied - (All "2," in Central Card item 14) - Go to item 124, page 30  
4  Type A noninterview

7. Type A noninterview reason  
0050 01  No home  
02  Temporarily absent  
03  Refused  
04  Unable to locate  
05  Other occupied - Specify

8. Occupancy status for Type A noninterviews  
0060 1  Occupied as a usual residence by at least one person  
2  All occupants have a usual residence elsewhere  
3  Don't know  
Go to Central Card item 9a

9. Mortgage (See item 94, page 19.)  
0070 1  Mortgage information not required OR callback not required  
 Callback required -  
2  Information obtained  
3  Unable to obtain information - Explain

10-13. WASHINGTON USE ONLY

14a. Field Representative: Is there any information for this sample unit which should be reviewed by the office prior to data keying?  
0135 1  Review not required  
2  Review required

Notes

b. OFFICE USE ONLY  
0139 1  Review completed

15. OFFICE USE ONLY  
a. EDIT FOLLOWUP REQUIRED →

0136 Page    Item     
0137 Page    Item     
0138 Page    Item

b. SOURCE OF RESOLUTION  
0140 1  Respondent  
2  Field Representative  
3  Regional Office staff  
4  Washington  
5  Other - Specify

c. OFFICE USE ONLY  
0141  Editor's code  
0142

16. In what language was the interview conducted?  
0143 1  English  
2  Spanish  
3  Other - Specify

17. Address correction/address addition  
-510-  
First address line  
Second address line  
Place or city State ZIP Code

18-19. WASHINGTON USE ONLY

Notes

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

REGULAR OCCUPIED	
<p><b>20.</b> Are your living quarters in a — (Read all answer categories.)</p> <p>1 <input type="checkbox"/> Mobile home 2 <input type="checkbox"/> One-unit building, detached from any other building 3 <input type="checkbox"/> One-unit building, attached to one or more buildings — Skip to item 22a 4 <input type="checkbox"/> Building with two or more apartments? — Skip to item 21b</p>	<p>1120</p>
<p><b>21a.</b> Are there any occupied or vacant apartments besides your own in the (building/mobile home)?</p> <p>1 <input type="checkbox"/> Yes — Fill Table X on Control Card, then go to item 21b 2 <input type="checkbox"/> No — Skip to item 23 and mark box 1 or 4</p> <p><b>b.</b> How many apartments are in the (building/mobile home)?</p> <p>Number — Skip to item 23 and mark box 3 or 5</p>	<p>1130</p> <p>1140</p>
<p><b>22a.</b> Does your (house/apartment) share an attic or basement with the (house/apartment) next door?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Don't know } Skip to item 22c</p> <p><b>b.</b> How many (houses/apartments) including your own share the attic or basement?</p> <p>Number — If one, reask item 22a and correct entry. If more than one, skip to item 23 and mark box 3.</p>	<p>1150</p> <p>1160</p>
<p><b>c.</b> Does your (house/apartment) share a furnace or boiler with the (house/apartment) next door?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Don't know } Skip to item 22e</p> <p><b>d.</b> How many (houses/apartments) including your own share the furnace or boiler?</p> <p>Number — If one, reask item 22c and correct entry. If more than one, skip to item 23 and mark box 3.</p>	<p>1170</p> <p>1180</p>
<p><b>e.</b> Are there any occupied or vacant apartments besides your own in this house?</p> <p>1 <input type="checkbox"/> Yes — Fill Table X on Control Card, then go to item 22f 2 <input type="checkbox"/> No — Skip to item 23 and mark box 2</p> <p><b>f.</b> How many apartments including your own are in this house?</p> <p>Number — If one, reask item 22e and correct entry. If more than one, go to item 23 and mark box 3.</p>	<p>1190</p> <p>1200</p>
<p><b>23.</b> Check item Final structure type classification based on entries in items 20—22.</p> <p>1 <input type="checkbox"/> One-unit building — detached 2 <input type="checkbox"/> One-unit building — attached 3 <input type="checkbox"/> Two-or-more-unit building ..... } Skip to item 25a 4 <input type="checkbox"/> Mobile home — one unit ..... } 5 <input type="checkbox"/> Mobile home — two-or-more units }</p>	<p>1210</p>
<p><b>24.</b> Is the house built — (Read answer categories until a "Yes" reply is received.)</p> <p>1 <input type="checkbox"/> With a basement under all the building? 2 <input type="checkbox"/> With a basement under part of the building? 3 <input type="checkbox"/> With a crawl space? 4 <input type="checkbox"/> On a concrete slab? 5 <input type="checkbox"/> In some other way? — Specify ?</p>	<p>1220</p>
<p><b>25a.</b> Is the (house/apartment) part of a condominium or cooperative?</p> <p>1 <input type="checkbox"/> No 2 <input type="checkbox"/> Yes, condominium 3 <input type="checkbox"/> Yes, cooperative</p> <p><b>b.</b> To the Census Bureau, a cooperative is property which is owned by a corporation. Each shareholder is entitled to occupy an individual unit. Is this what you mean when you say this is a cooperative?</p>	<p>1230</p>

REGULAR OCCUPIED — Continued	
<p><b>26a.</b> How many of each of the following rooms does the (house/apartment) have? (For a one room efficiency or studio apartment, enter "1" for living room, enter the correct number of bedrooms, and mark "None" for all other rooms.)</p> <p>(1) Bedrooms? ..... Number o <input type="checkbox"/> None</p> <p>(2) How many full bathrooms with a sink with hot and cold piped water, a flush toilet, AND a bathtub or shower? ..... Number o <input type="checkbox"/> None</p> <p>(3) Half bathrooms? (Toilet OR bathtub OR shower) ..... Number o <input type="checkbox"/> None</p> <p>(4) Kitchens? ..... Number o <input type="checkbox"/> None</p> <p>(5) Living rooms? ..... Number o <input type="checkbox"/> None</p> <p>(6) Separate dining rooms? ..... Number o <input type="checkbox"/> None</p>	<p>1240</p> <p>1250</p> <p>1260</p> <p>1270</p> <p>1280</p> <p>1290</p>
<p><b>b.</b> Are there any other rooms? (Exclude halls, foyers, pantries, garages, porches, and areas separated by built-in floor slabs or walls extending at least a few inches into room.)</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to item 27</p> <p><b>c.</b> What are they? (Complete all 3 parts)</p> <p>Number of family rooms, dens, recreation rooms and/or libraries o <input type="checkbox"/> None</p> <p>Number of rooms that are business space with direct access to outside o <input type="checkbox"/> None</p> <p>Number of other rooms, finished or unfinished o <input type="checkbox"/> None</p>	<p>1300</p> <p>1310</p> <p>1320</p> <p>1330</p>
<p><b>27.</b> Does the (house/apartment) have a kitchen sink? (For this household's use only)</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p> <p><b>28.</b> Check item (See Item 26a.) 1 <input type="checkbox"/> One or more full bathrooms — Skip to item 29c 2 <input type="checkbox"/> No full bathrooms — Ask item 29c</p>	<p>1340</p>
<p><b>29a.</b> Does the (house/apartment) have a bathtub or shower for this household's use only?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p> <p><b>b.</b> Does the (house/apartment) have a flush toilet for this household's use only?</p> <p>1 <input type="checkbox"/> Yes — Skip to item 30a 2 <input type="checkbox"/> No — Skip to item 31a, page 6</p> <p><b>c.</b> Is the bathroom/Are the bathrooms for this household's use only?</p> <p>1 <input type="checkbox"/> Yes, exclusive use 2 <input type="checkbox"/> No, shared</p>	<p>1350</p> <p>1360</p> <p>1370</p> <p>1380</p>
<p><b>30a.</b> In the last 3 months, were there any times when all the toilets in the home were not working? (While household was living here if less than 3 months)</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No toilet breakdowns — Skip to item 31a, page 6</p> <p><b>b.</b> How many of these breakdowns lasted 6 hours or more?</p> <p>Number of toilet breakdowns lasting 6 hours or more o <input type="checkbox"/> No toilet breakdowns lasting 6 hours</p>	<p>1390</p>

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

REGULAR OCCUPIED — Continued	
31b. Is all the wiring in the finished areas of your home concealed either in walls or metal coverings? (Exclude appliance cords, extension cords, chandelier cords, telephone, antenna, or cable TV wires.)	1390 <input type="checkbox"/> Yes, concealed <input type="checkbox"/> No 3 <input type="checkbox"/> No electrical wiring — Skip to item 32a
b. Does every room have an electric outlet or wall plug that works?	1400 <input type="checkbox"/> Yes <input type="checkbox"/> No
c. Have any fuses blown or circuit breakers tripped in the last 3 months? (For the home) (While household was living here if less than 3 months)	1410 <input type="checkbox"/> Yes <input type="checkbox"/> No 3 <input type="checkbox"/> Don't know } Skip to item 32a
d. How many times in the last 3 months?	1420 _____ Number
32a. Has water leaked into your home from outside doors in the last 12 months? (Exclude plumbing or other inside leaks.) (While household was living here if less than 12 months)	1430 <input type="checkbox"/> Yes <input type="checkbox"/> No — Skip to item 32c
b. Where did the water come in? (Mark all that apply.)	1440 <input type="checkbox"/> Roof <input type="checkbox"/> Basement <input type="checkbox"/> Walls or around closed windows or closed doors <input type="checkbox"/> Other — Specify _____
c. Have there been water leaks in the house/apartment from INSIDE the building in the last 12 months? (While household was living here if less than 12 months)	1450 <input type="checkbox"/> Yes <input type="checkbox"/> No — Skip to item 33a
d. Where did the water come from? (Mark all that apply.)	1460 <input type="checkbox"/> Own plumbing fixtures backed up and/or overflowed <input type="checkbox"/> Pipes leaked (include pipe leaks from other apartments.) <input type="checkbox"/> Other or unknown — Specify _____
33a. Does the house/apartment have hot and cold piped water? (For this household's use only)	1470 <input type="checkbox"/> Yes <input type="checkbox"/> No — Skip to item 34a
b. What fuel is used MOST to heat the water?	1480 <input type="checkbox"/> Electricity <input type="checkbox"/> Gas <input type="checkbox"/> Fuel oil <input type="checkbox"/> Kerosene or other liquid fuel <input type="checkbox"/> Coal or coke <input type="checkbox"/> Wood <input type="checkbox"/> Solar energy <input type="checkbox"/> Other — Specify _____
c. Was your home ever completely without running water in the last 3 months? (While household was living here if less than 3 months)	1490 <input type="checkbox"/> Yes <input type="checkbox"/> No water stoppage — Skip to item 34a
d. How many times was it not available for 6 hours or more?	1500 _____ Water stoppages lasting 6 hours or more 0 <input type="checkbox"/> None lasted 6 hours
34a. Does water for your home come from a public or private system, an individual well, or some other source? (Source used for drinking and cooking.)	1510 <input type="checkbox"/> Public or private water system — Skip to item 35a, page 6 <input type="checkbox"/> Individual well — Ask item 34b <input type="checkbox"/> Spring <input type="checkbox"/> Cistern <input type="checkbox"/> Stream or lake <input type="checkbox"/> Bored water <input type="checkbox"/> Other — Specify _____ } Skip to item 35a, page 6
b. How many house/apartments does the well serve?	1520 <input type="checkbox"/> Only this house/apartment <input type="checkbox"/> 2 to 5 <input type="checkbox"/> 6 or more
c. Is the well drilled or dug?	1530 <input type="checkbox"/> Drilled <input type="checkbox"/> Dug

REGULAR OCCUPIED — Continued	
35a. Is the house/apartment connected to a public sewer?	1540 <input type="checkbox"/> Yes — Skip to item 35d <input type="checkbox"/> No
b. What means of sewage disposal does the house/apartment have?	1550 <input type="checkbox"/> Septic tank or cesspool — Ask item 35c <input type="checkbox"/> Chemical toilet <input type="checkbox"/> Outhouse or privy <input type="checkbox"/> Other — Specify _____ } Skip to item 35b
c. How many house/apartments are connected to the septic tank/cesspool?	1560 <input type="checkbox"/> None <input type="checkbox"/> One <input type="checkbox"/> 2 to 5 <input type="checkbox"/> 6 or more
d. Did the sewage system break down in the last 3 months? (So that it was completely unusable) (While household was living here if less than 3 months)	1570 <input type="checkbox"/> Yes <input type="checkbox"/> No — sewage breakdowns — Skip to item 35a
e. How many of these breakdowns lasted 6 hours or more?	1580 _____ Sewage breakdowns lasting 6 hours or more 0 <input type="checkbox"/> None lasted 6 hours
35b. Does your house/apartment have a refrigerator? (For this household's use only) (Exclude ice boxes.)	1590 <input type="checkbox"/> Yes <input type="checkbox"/> No — Skip to item 37a
b. Is it more than 5 years old? (Age of newest if two or more)	1600 <input type="checkbox"/> Yes <input type="checkbox"/> No
37a. Does your house/apartment have a garbage disposal in the sink? (For this household's use only)	1610 <input type="checkbox"/> Yes <input type="checkbox"/> No — Skip to item 38a
b. Is it more than 5 years old?	1620 <input type="checkbox"/> Yes <input type="checkbox"/> No
38a. Does your house/apartment have a cookstove or range with an oven? (For this household's use only) (Include microwaves. Exclude toaster-ovens and portable burners.)	1630 <input type="checkbox"/> Yes — Skip to item 36c <input type="checkbox"/> No
b. Does your house/apartment have — (1) an oven? (2) cooking burners? (3) cooking burners? (4) cooking burners? (Include microwaves. Exclude toaster-ovens.) (Exclude portable burners.)	1640 <input type="checkbox"/> Yes <input type="checkbox"/> No } If both are "No," skip to item 38a 1650 <input type="checkbox"/> Yes <input type="checkbox"/> No
c. Is it/Are they more than 5 years old? (Age of newest if two or more)	1660 <input type="checkbox"/> Yes <input type="checkbox"/> No
d. What fuel is used MOST for cooking?	1670 <input type="checkbox"/> Electricity <input type="checkbox"/> Gas <input type="checkbox"/> Kerosene or other liquid fuel <input type="checkbox"/> Coal or coke <input type="checkbox"/> Wood <input type="checkbox"/> Other — Specify _____
38b. Does your house/apartment have a dishwasher? (For this household's use only)	1680 <input type="checkbox"/> Yes <input type="checkbox"/> No
b. Is it more than 5 years old?	1700 <input type="checkbox"/> Yes <input type="checkbox"/> No

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

REGULAR OCCUPIED — Continued	
40a. Does your (house/apartment) have a washing machine (- - - /in the apartment)?	1710 <input type="checkbox"/> Yes <input type="checkbox"/> No — Skip to item 41a
b. Is it more than 5 years old?	1720 <input type="checkbox"/> Yes <input type="checkbox"/> No
41a. Does your (house/apartment) have a clothes dryer (- - - /in the apartment)?	1730 <input type="checkbox"/> Yes <input type="checkbox"/> No — Skip to item 42a
b. Is it more than 5 years old?	1740 <input type="checkbox"/> Yes <input type="checkbox"/> No
c. What kind of fuel does the dryer use?	1750 <input type="checkbox"/> Electricity <input type="checkbox"/> Gas <input type="checkbox"/> Other — Specify _____
42a. Does your (house/apartment) have central air conditioning?	1760 <input type="checkbox"/> Yes <input type="checkbox"/> No — Skip to item 42c
b. What kind of fuel does it use?	1770 <input type="checkbox"/> Electricity <input type="checkbox"/> Gas <input type="checkbox"/> Other — Specify _____ <i>(Skip to item 43a)</i>
c. Do you use any room air conditioners?	1780 <input type="checkbox"/> Yes <input type="checkbox"/> No — Skip to item 43a
d. How many?	1790 _____ Number
43a. What fuel is used MOST for heating the (house/apartment)?	1800 <input type="checkbox"/> Electricity <input type="checkbox"/> Gas <input type="checkbox"/> Fuel oil <input type="checkbox"/> Kerosene or other liquid fuel <input type="checkbox"/> Coal or coke <input type="checkbox"/> Wood <input type="checkbox"/> Solar energy <input type="checkbox"/> Other — Specify _____ <input type="checkbox"/> None — Skip to item 44, page 8
b. Besides (fuel marked in item 43a), what other fuel is used for heating the (house/apartment)? (Mark all that apply.)	1810 <input type="checkbox"/> Electricity <input type="checkbox"/> Gas <input type="checkbox"/> Fuel oil <input type="checkbox"/> Kerosene or other liquid fuel <input type="checkbox"/> Coal or coke <input type="checkbox"/> Wood <input type="checkbox"/> Solar energy <input type="checkbox"/> Other — Specify _____
Notes	

REGULAR OCCUPIED — Continued	
44. Does the (house/apartment) have a usable fireplace?	1830 <input type="checkbox"/> Yes <input type="checkbox"/> No
PLEASE LOOK AT THIS CARD.	
45. What type of heating equipment is used MOST to heat the (house/apartment)? (Read answer categories until heating equipment used most is mentioned.)	1840 <input type="checkbox"/> A central warm-air furnace with air vents or ducts to the individual rooms? <input type="checkbox"/> (Mark or ask.) a. Is the heating fuel for the furnace electricity? <input type="checkbox"/> Yes, electricity <input type="checkbox"/> No — Go to item 46a b. Is that a heat pump? <input type="checkbox"/> Yes — Mark box 3 <input type="checkbox"/> No — Go to item 46a 2 <input type="checkbox"/> Steam or hot-water system with radiators OR other system using steam or hot water? 3 <input type="checkbox"/> Electric heat pump? 4 <input type="checkbox"/> Other built-in electric units permanently installed in wall, ceiling, or baseboards? 5 <input type="checkbox"/> Floor, wall, or other built-in, hot-air heater without ducts? 6 <input type="checkbox"/> Kerosene, gas, or oil room heater(s), VENTED to the outside through a chimney, flue, or pipes? 7 <input type="checkbox"/> UNVENTED kerosene, gas, or oil room heaters? 8 <input type="checkbox"/> Portable electric heater(s)? 9 <input type="checkbox"/> Stove(s)? 10 <input type="checkbox"/> Fireplace(s) WITH inserts, that is, installed equipment designed to circulate more heat into the room? 11 <input type="checkbox"/> Fireplace(s) with NO inserts? 12 <input type="checkbox"/> Some other type of heating equipment? <input type="checkbox"/>  Specify _____ <input type="checkbox"/> None? — Skip to item 46a, page 9
46a. What other kinds of heating equipment does the (house/apartment) have or use? (Mark all that apply.)	1850 <input type="checkbox"/> A central warm-air furnace with air vents or ducts to the individual rooms 2 <input type="checkbox"/> Steam or hot-water system with radiators OR other system using steam or hot water 3 <input type="checkbox"/> Electric heat pump 4 <input type="checkbox"/> Other built-in electric units permanently installed in wall, ceiling, or baseboards 5 <input type="checkbox"/> Floor, wall, or other built-in, hot-air heater without ducts 6 <input type="checkbox"/> Kerosene, gas, or oil room heater(s), VENTED to the outside through a chimney, flue, or pipes 7 <input type="checkbox"/> UNVENTED kerosene, gas, or oil room heaters 8 <input type="checkbox"/> Portable electric heater(s) 9 <input type="checkbox"/> Stove(s) 10 <input type="checkbox"/> Fireplace(s) WITH inserts, that is, installed equipment designed to circulate more heat into the room 11 <input type="checkbox"/> Fireplace(s) with NO inserts 12 <input type="checkbox"/> Some other type of heating equipment? <input type="checkbox"/>  Specify _____ <input type="checkbox"/> None — Go to item 47a, page 9
b. Anything else?	<input type="checkbox"/> Yes — Mark appropriate box(es), then go to item 47a, page 9 <input type="checkbox"/> No — Go to item 47a, page 9
Notes	

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

**REGULAR OCCUPIED — Continued**

**47a.** Last winter was there any time when the (house/apartment) was so cold for 24 hours or more that it caused anyone in your household discomfort?  1890 1 Yes  2 No } Skip to item 48a

**b.** Was that because the heating equipment broke down?  1890 1 Yes  2 No, didn't break down — Skip to item 47e

**c.** How many times did (it/they all) break down for 6 hours or more?  1900 Number of breakdowns lasting 6 hours or more  0 Never broken for 6 hours

**d.** Was it cold for any other reason?  1810 1 Yes  2 No — Skip to item 48a

**e.** What was the reason?  1820 1 Utility interruption  2 Inadequate heating capacity  3 Inadequate insulation  7 Other — Specify \_\_\_\_\_

**48a.** Does the (house/apartment) have a porch, deck, balcony, or patio?  1830 1 Yes  2 No

**b.** Does the (house/apartment) have open cracks or holes in the inside walls or ceilings?  1840 1 Yes  2 No

**c.** Does the (house/apartment) have holes in the floors?  1850 1 Yes  2 No

**d.** Does the (house/apartment) have any area of peeling paint or broken plaster bigger than 6 inches by 11 inches?  1860 1 Yes  2 No

**e.** In the last 3 months have you seen any rats or signs of rats in the building?  1870 1 Yes  2 No

**49.** On a scale of 1 to 10, how would you rate the (house/apartment) as a place to live? 10 is best, 1 is worst.  1880 \_\_\_\_\_

**50a.** How would you rate the neighborhood on a scale of 1 to 10? 10 is best, 1 is worst.  1890 0 No neighborhood — Skip to item 51a, page 10

**b.** Is there anything about the neighborhood that bothers you?  2000 1 Yes  2 No — Skip to item 51a, page 10

**c.** What?  2010 1 No problem  2 Crime  3 Noise  4 Traffic  5 Litter or housing deterioration  6 Poor city/county services  7 Undesirable commercial, institutional, or industrial property  8 People  9 Other \_\_\_\_\_

**REGULAR OCCUPIED — Continued**

**51a.** Check item (Mark "Yes" for "Yes", "No" for "No", "Other" for "Other") (See General Card items 8a and 25.)  2020 \* Prior year date entered in General Card Item 8a  2030 \* Prior year date entered in General Card Item 8b  2040 \* Prior year date entered in General Card Item 8c  2050 \* Prior year date entered in General Card Item 8d  2060 \* Prior year date entered in General Card Item 8e  2070 \* Prior year date entered in General Card Item 8f

**b.** Check item (Mark "Yes" for "Yes", "No" for "No", "Other" for "Other") (See General Card items 8a and 25.)  2080 \* Prior year date entered in General Card Item 8g  2090 \* Prior year date entered in General Card Item 8h  2100 \* Prior year date entered in General Card Item 8i  2110 \* Prior year date entered in General Card Item 8j  2120 \* Prior year date entered in General Card Item 8k  2130 \* Prior year date entered in General Card Item 8l  2140 \* Prior year date entered in General Card Item 8m  2150 \* Prior year date entered in General Card Item 8n  2160 \* Prior year date entered in General Card Item 8o  2170 \* Prior year date entered in General Card Item 8p  2180 \* Prior year date entered in General Card Item 8q  2190 \* Prior year date entered in General Card Item 8r

**52a.** What are the reasons you moved from your last residence? (Mark all that apply.)  2030 1 A private company or person wanted to use it for some purpose.  2 Forced to leave by the government  3 Disaster loss (fire, flood, etc.)  4 New job or job transfer  5 To be closer to work/school/other  6 Other, financial/employment related  7 To establish own household  8 Needed larger house or apartment  9 Married, widowed, divorced, or separated  10 Other, family/personal related  11 Wanted better quality house (apartment)  12 Change from owner to renter OR renter to owner  13 Wanted lower rent or less expensive house to maintain  14 Other housing related reasons  15 Other — Specify \_\_\_\_\_  0 All reasons of equal importance

**b.** MARK if only one box checked in item 52a OR ASK if two or more boxes checked. What is the MAIN reason you moved?  2070 \_\_\_\_\_ Number from item 52a

**53.** Check item (Mark first box that applies.)  2080 Box 1 marked in item 52a — Skip to item 54b  2090 Boxes 1 and 2 blank in item 52a — Skip to item 54c

**54a.** Did you leave —  2080 (1) Because the owner, or members of the owner's family were going to move into that residence?  1 Yes — Skip to item 55a, page 11  2 No  2090 (2) Because that unit was going to become a condominium or cooperative?  1 Yes — Skip to item 55a, page 11  2 No  2100 (3) Because that residence was closed for repairs?  1 Yes — Skip to item 55a, page 11  2 No  2110 (4) Because the government wanted to use the land or building for some other purpose?  1 Yes — Skip to item 55a, page 11  2 No  2120 (5) Because that residence was condemned by the government as unfit for occupancy?  1 Yes — Skip to item 55a, page 11  2 No  2130 (6) In addition to the reasons given, did you leave —  1 Yes — Ask (2)  2 No — Skip to (5)  2140 (7) Was that because the owner or members of the owner's family were going to move into that residence?  1 Yes — Skip to item 55a, page 11  2 No — Ask (3)  2150 (8) Because it was going to be a condominium or cooperative?  1 Yes — Skip to item 55a, page 11  2 No — Ask (4)  2160 (9) Because it was closed for repairs?  1 Yes — Skip to item 55a, page 11  2 No  2170 (10) Because the government forced you to leave?  1 Yes — Ask (6)  2 No — Skip to item 55a, page 11  2180 (11) Was that because the government wanted to use the land or building for some other purpose?  1 Yes — Skip to item 55a, page 11  2 No — Ask (7)  2190 (12) Because it was condemned by the government as unfit for occupancy?  1 Yes  2 No

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

REGULAR OCCUPIED — Continued	
56a. When you were going to move, did you look for a better apartment in any neighborhood other than this?	2200 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
b. Why did you choose this NEIGHBORHOOD? (Write exact words and mark all that apply.)	2210 <input type="checkbox"/> Convenient to job <input type="checkbox"/> Convenient to friends or relatives <input type="checkbox"/> Convenient to leisure activities <input type="checkbox"/> Convenient to public transportation <input type="checkbox"/> Good schools <input type="checkbox"/> Other public services <input type="checkbox"/> Looks/design of neighborhood <input type="checkbox"/> House was most important consideration <input type="checkbox"/> Other 2220 0 <input type="checkbox"/> Box number from item 56b <input type="checkbox"/> All reasons of equal importance
56b. Before you moved, did you look at both (houses/mobile homes) and apartments?	2240 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Looked at only this unit
b. Why did you choose this particular (house/apartment)? (Write exact words and mark all that apply.)	2260 <input type="checkbox"/> Financial reasons <input type="checkbox"/> Room layout/design <input type="checkbox"/> Kitchen <input type="checkbox"/> Size <input type="checkbox"/> Exterior appearance <input type="checkbox"/> Yard/trees/view <input type="checkbox"/> Quality of construction <input type="checkbox"/> Only one available <input type="checkbox"/> Other — Specify _____
c. What is the MAIN reason you chose this (house/apartment)?	2270 0 <input type="checkbox"/> All reasons of equal importance 1 <input type="checkbox"/> Better 2 <input type="checkbox"/> Worse 3 <input type="checkbox"/> About the same 4 <input type="checkbox"/> Same neighborhood
57. Is this (house/apartment) better, worse, or about the same as your last home?	2280 1 <input type="checkbox"/> Better 2 <input type="checkbox"/> Worse 3 <input type="checkbox"/> About the same
58. Check item (See Control Card items 8a and 26.)	2300 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to item 61a, page 12
59a. Earlier you told me that ... (Specify names of movers) moved into this (house/apartment) ... (after ... prior year date of interview). Did (all of your/they) save items from this same previous residence?	2320 1 <input type="checkbox"/> Increased 2 <input type="checkbox"/> Decreased 3 <input type="checkbox"/> Don't know
b. INSTRUCTION (See Control Card item 26.) If all moved in within a 6-month period — Skip to item 61a, page 12, enter the numbers in Group 1 column. If people moved in more than 6 months apart — Put them in separate groups in item 61a on pages 12 and 13 and ask items 61b — in for each group.	2330 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No

REGULAR OCCUPIED — Continued	
61a. Which people moved here from the same previous residence? Enter the numbers of all people who came from first home mentioned under Group 1, the line numbers of all people who came from the second home mentioned under Group 2, etc. If people moved from same previous residence but more than 6 months apart, put them in separate groups. Then ask items 61b — in for each mover group.	2310 2320 2330
b. What city, county, and state did ... (Specify names for line numbers in item 61a) (you/they) live in just before moving here? (Enter 2-character State code from flashcard.)	2340 0 <input type="checkbox"/> Outside U.S. — Skip to item 61h City or place _____ County _____ State _____
c. What was the ZIP Code?	2350 _____ ZIP Code
d. Did (you/they) live inside the incorporated limits of (City above)?	2360 <input type="checkbox"/> Yes <input type="checkbox"/> No or not incorporated place <input type="checkbox"/> Don't know
e. Enter zone number OR hand respondent zone map and ask — This map is divided into zones. Which zone did ... (Specify names for line numbers in item 61a) (you/they) live in just before moving here? (If necessary, obtain any information needed to locate on map, such as street address, nearest intersecting streets or proximity to a landmark.)	2370 _____ Zone code <input type="checkbox"/> Off map Zone alpha (if any) _____
f. Was that residence — (Read all answer categories.)	2380 <input type="checkbox"/> A house? <input type="checkbox"/> An apartment? <input type="checkbox"/> A mobile home? <input type="checkbox"/> Or some other type of residence? — Skip to item 61i.
g. Was that home — (Read all answer categories.)	2390 <input type="checkbox"/> Owned or being bought by someone in that household? <input type="checkbox"/> Rented for cash? <input type="checkbox"/> Occupied without payment of cash rent? 2400 <input type="checkbox"/> No ..... Skip to item 61j <input type="checkbox"/> Yes, condominium ) 61j <input type="checkbox"/> Yes, cooperative
h. Was that part of a condominium or cooperative?	2410 <input type="checkbox"/> Yes <input type="checkbox"/> No — Re-ask item 61h and correct entry
i. To the Census Bureau, a cooperative is property which is owned by a corporation. Each shareholder is entitled to occupy an individual unit. Is this what you mean when you say this is a cooperative?	2420 <input type="checkbox"/> Yes <input type="checkbox"/> No — If one skip to item 61m; if more than one, ask item 61k
j. How many people lived in that household just before the move?	2430 <input type="checkbox"/> Yes — Skip to item 61m <input type="checkbox"/> No
k. Was that home (owned/ rented) by someone who moved here?	2440 <input type="checkbox"/> Yes <input type="checkbox"/> No
l. Was it (owned/rented) by a relative?	2450 <input type="checkbox"/> Increased <input type="checkbox"/> Decreased <input type="checkbox"/> Don't know
m. When ... (Specify names for line number in item 61a) (you moved, did (you/they) housing costs increase, decrease, or stay about the same, including utilities and (mortgage/rent)? (Compare their share, if not whole household.)	2460 _____
n. Go to next mover group. If none, go to item 62, page 14.	2470

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

**REGULAR OCCUPIED — Continued**

**62. INTRODUCTION:** The next questions are about your current residence.

**63. Check item (See Control Card item 8b.)**  
 Current residence is —  
 Owned — Skip to item 73a, page 16  
 Rented — Go to item 64a  
 No cash rent — Skip to item 64c

**64a. How often is the rent due?** — **- 6 11 +**  
 2350 Times per year  
 Monthly  
 2310 Times per year  
 Monthly

**b. How much is the rent?**  
 (Include total amount paid by household AND any other sources.)  
 (If renting priced separately, exclude it here and mark NO to items 64m and 64n without asking.)  
 2310 \$  00

**6. Check item (See item 23, page 3.)**  
 Mobile home either one-unit or two-or-more-units — Ask item 64d  
 Not a mobile home — Skip to item 64m

**d. Do you pay separate rent for the land?**  
 Yes  
 No or not incorporated place  
 Don't know  
 2311 1  Yes  
 2  No — Skip to item 64g

**e. How many times a year is the (land/lot) rent due?**  
 2312 Times per year  
 Monthly

**f. What is the cost each ... (Billing period)?**  
 2313 \$  00  
 No cash rent  
 Included in mobile home park fee or association fee

**g. (---) In addition to the land rent, do you pay any (---) (additional) mobile home park fee?**  
 2350 1  Yes  
 2  No — Skip to item 64j

**h. How many times a year is the fee due?**  
 2355 Times per year  
 Monthly

**i. What is the cost each ... (Billing period)?**  
 2350 \$  00  
 Included in mobile home rent

**j. Are there any (---) (other) required fees for utility hookups, mobile home association fees, and so forth?**  
 2317 1  Yes  
 2  No — Skip to item 64m

**k. How many times a year are the fees due?**  
 2318 Times per year  
 Monthly

**l. What is the average cost each ... (Billing period) for those fees?**  
 2319 \$  00

**m. Is a garage or carport included (in the rent/with the home)?**  
 2320 1  Yes — Skip to item 65e, page 15  
 2  No

**n. Is an offstreet parking space included?**  
 2320 1  Yes  
 2  No

Notes

**REGULAR OCCUPIED — Continued**

**GROUP 2** Line numbers  
 2310  
 2320  
 2330  
 2340  Outside U.S. — Skip to item 61n

**GROUP 3** Line numbers  
 2310  
 2320  
 2330  
 2340  Outside U.S. — Skip to item 61n

**GROUP 4** Line numbers  
 2310  
 2320  
 2330  
 2340  Outside U.S. — Skip to item 61n

**- 7 18 +**  
 City or place  
 County  
 State  
 ZIP Code

**- 7 17 +**  
 City or place  
 County  
 State  
 ZIP Code

**2360** 1  Yes  
 2  No or not incorporated place  
 3  Don't know

**2370** Zone code  
 Zone alpha (if any)  
 Off map

**- 6 15 +**  
 2380 1  A house?  
 2  An apartment?  
 3  A mobile home?  
 4  Or some other type of residence? — Skip to item 61n.

**2390** 1  Owned or being bought by someone in that household?  
 2  Rented for cash?  
 3  Occupied without payment of cash rent?

**2400** 3  No } Skip to item 61j  
 2  Yes, condominium }  
 1  Yes, cooperative }  
 Yes  
 No — Reask item 61h and correct entry

**2410** — If one, skip to item 61m; if more than one, ask item 61k

**2420** 1  Yes — Skip to item 61m  
 2  No

**2430** 1  Yes  
 2  No

**2440** 1  Increased  
 2  Stayed about same  
 3  Decreased  
 4  Don't know

Go to next mover group.  
 If none, go to item 62, page 14.

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

**REGULAR OCCUPIED — Continued**

65a. Is the building owned by a public housing authority?  Yes — Skip to item 65g  No

65b. Does the Federal government pay some of the cost of the unit?  Yes — Skip to item 65g  No

65c. Does the State or local government pay some of the cost of the unit?  Yes — Skip to item 65g  No

65d. Do (you/the people living here) have to report the household's income to someone every year so they can set the rent?  Yes — Skip to item 66  No

65e. Does the local government limit the rent on the unit through rent control or rent stabilization?  Yes — Skip to item 66  No

65f. Is the rent adjusted because someone in the household works for or is related to the owner?  Yes } Skip to item 66  No

65g. Of the ... (amount from 64d) rent you reported, how much is this household required to pay?  None  \$   00

66. Check item (See item 23, page 3.)  
 Mobile home either one-unit or two-or-more units — Skip to item 68  
 Not a mobile home — Ask item 67

67. About when was the building originally built?  
 2680  1980 or later }  
 2681  1979 }  
 2682  75-78 }  
 2683  70-74 }  
 2684  60-69 }  
 2685  50-59 }  
 2686  40-49 }  
 2687  30-39 }  
 2688  20-29 }  
 2689  1919 }  
 or earlier }  
 1980 or later }  
 Month }  
 Year }  
 Skip to item 70

68. Excluding the dealer's lot, in this the first site on which this mobile home was placed?  Yes, first site  No, moved from another site  Don't know

69. What is the model year of the mobile home?  1980 or later }  
 Year }  
 2690  1979 }  
 2691  75-78 }  
 2692  70-74 }  
 2693  60-69 }  
 2694  50-59 }  
 2695  40-49 }  
 2696  30-39 }  
 2697  1939 }  
 or earlier }  
 1980 or later }  
 Ask item 70

70. Were you the first (person/people) to occupy this home or did someone else live here before you?  First occupants  Previously occupied

Notes

**REGULAR OCCUPIED — Continued**

71. Check item (See item 23, page 3.)  
 Two-or-more-unit building or two-or-more-unit mobile home — Skip to item 109a, page 24  
 All others — Ask item 72a

72a. How large is the (lot/lot?) (Include all connecting land that is owned or that is rented with the home.)  2890 \_\_\_\_\_ Square feet OR  2891 \_\_\_\_\_ Feet by  2892 \_\_\_\_\_ feet OR  2893 \_\_\_\_\_ feet OR  2894 \_\_\_\_\_ Whole acres  Don't know — Ask item 72b

MARK OR ASK —  2895  Yes  No } Skip to item 109a, page 24

NOTE — Ask item 73b only for those categories in item 73b which were answered "Yes".

73a. These questions are about major repairs, improvements or alterations made to the (house/apartment) in the last 2 years. (Count work only once; include work in progress. (While living here if less than 2 years))

(1) Was all or part of the roof replaced in the last 2 years?  2896  Yes, all  2897  Yes, part  2898  No

(2) Were any additions built?  2899  Yes  2900  No

(3) Was the kitchen remodeled or a kitchen added?  2901  Yes  2902  No

(4) Were any bathrooms remodeled or added?  2903  Yes  2904  No

(5) Was any siding replaced or added in the last 2 years?  2905  Yes  2906  No

(6) Were any new storm doors or storm windows bought and installed?  2907  Yes  2908  No

(7) Was any major equipment, such as a furnace or central air conditioning replaced or added?  2909  Yes  2910  No

(8) Was insulation added?  2911  Yes  2912  No

(9) Were any (---/other) major repairs, or improvements, over \$500 each done in the last 2 years?  2913  Yes  2914  No

NOTE — If "Yes" was answered for one or more categories in item 73a, ask item 73b.

74. Check item (See item 73a.)  
 At least one "Yes" marked in item 73a — Ask item 76  
 All "No" in item 73a — Skip to item 17

75. Did the household get a low interest loan or grant from a government program to help pay for making any of these repairs or alterations to your home?  2915  Yes  2916  No



Facsimile of the American Housing Survey Questionnaire: 1990—Continued

**REGULAR OCCUPIED — Continued**

76. In just the last YEAR, how much was spent on repairs, alterations, or improvements to the house (excluding everything already mentioned)?  
 (Exclude housecleaning.)  
 2940 \$ \_\_\_\_\_ 00  
 Nothing

77. Check item (See item 23, page 3.)  
 Mobile home either one-unit or two-or-more-units — Skip to item 79  
 Not a mobile home — Ask item 78

78. About when was the building originally built?  
 2910  1980 or later }  
 Month \_\_\_\_\_ Year \_\_\_\_\_ } Skip to item 81  
 2910  1979  
 75-78  
 70-74  
 60-69  
 50-59  
 40-49  
 30-29  
 1919 or earlier } Skip to item 82a

79. Excluding the dealer's lot, is this the first site on which this mobile home was placed?  
 2900  Yes, first site  
 No, moved from another site  
 Don't know

80. What is the model year of the mobile home?  
 2910  1980 or later }  
 Year \_\_\_\_\_ } Ask item 81  
 2910  1979  
 75-78  
 70-74  
 60-69  
 50-59  
 40-49  
 1939 or earlier } Skip to item 82a

81. Were you the first (person/people) to occupy this home or did someone else live here before you?  
 2920  First occupants  
 Previously occupied

82a. When did this household buy the (house/apartment)?  
 (If land and building bought at different times, building only)  
 2930  1980 or later }  
 Year \_\_\_\_\_ } Skip to item 82c  
 2930  1979  
 75-78  
 70-74  
 60-69  
 50-59  
 40-49  
 1939 or earlier } Skip to item 82c

b. In what year did this household (inherit/receive) the home?  
 2940  1980 or later }  
 Year \_\_\_\_\_ } Skip to item 82e  
 2940  1979  
 75-78  
 70-74  
 60-69  
 50-59  
 40-49  
 1939 or earlier } Skip to item 82e

c. What was the price? (For mobile homes, exclude value of the land.)  
 2950 \$ \_\_\_\_\_ 00

d. Was the main source of the down payment the sale of a previous home, savings, or something else?  
 (If bought outright, enter main source of full payment.)  
 2960  Sale of previous home if sold during 12 months prior to purchase of new home — Skip to item 83a, page 18  
 Savings or cash on hand  
 Sale of other investment  
 Borrowing, other than a mortgage on this property  
 Inheritance or gift  
 Land where building was built used for financing  
 Other — Specify \_\_\_\_\_  
 No down payment made

e. (Have any of the persons now living here/here you) ever owned a home before?  
 2970  Yes  
 No

**REGULAR OCCUPIED — Continued**

83a. Check item (See item 25a, page 3.)  
 Condominium or cooperative — Skip to item 87a  
 Not a condominium or cooperative — Go to item 83b

b. Check item (See item 23, page 3.)  
 One-unit building — Ask item 84a  
 One-unit mobile home — Skip to item 85a, page 19  
 Two-or-more-unit building or two-or-more-unit mobile home — Skip to item 86a

84a. How large is the (lot/acre)?  
 (Include all connecting land that is owned or that is rented with the home.)  
 (If over 1 acre, drop any fractions, don't round up. If under one acre, convert to approximate square feet.)  
 2980 \_\_\_\_\_ Square feet  
 OR  
 2980 \_\_\_\_\_ Feet by  
 3000 \_\_\_\_\_ feet  
 OR  
 3010 \_\_\_\_\_ Whole acres  
 Don't know — Ask item 84b

b. MARK OR ASK —  
 3020  Yes — Skip to item 86a  
 No

c. Is there a commercial establishment on the property?  
 3030  Yes — Skip to item 85a  
 No

d. Is there a medical or dental office on the property?  
 3040  Yes — Skip to item 85b  
 No

e. How much do you think the house and lot would sell for on today's market?  
 3100 \$ \_\_\_\_\_ 00 Skip to item 85a, page 19

85a. Is there a medical or dental office on the property?  
 3040  Yes  
 No

b. How much do you think the house, land, and medical or dental office and lot would sell for on today's market?  
 3050 \$ \_\_\_\_\_ 00

c. What is the value of the residential portion of this property?  
 3100 \$ \_\_\_\_\_ 00 Skip to item 85a, page 19

86a. Is there a commercial establishment on the property?  
 3030  Yes  
 No

b. Is there a medical or dental office on the property?  
 3040  Yes  
 No

c. How much do you think the house and land would sell for on today's market?  
 3050 \$ \_\_\_\_\_ 00

d. How much do you think the house and its (lot/yard) would sell for on today's market?  
 3100 \$ \_\_\_\_\_ 00 Skip to item 85a, page 19

e. Is there a commercial establishment on the property?  
 3030  Yes  
 No

f. Is there a medical or dental office on the property?  
 3040  Yes  
 No

g. How much do you think the entire building and property would sell for on today's market?  
 3050 \$ \_\_\_\_\_ 00

h. How much of that would apply to the apartment only?  
 3100 \$ \_\_\_\_\_ 00 Skip to item 85a, page 19

87a. Is there a commercial establishment on the property?  
 3030  Yes  
 No

b. Is there a medical or dental office on the property?  
 3040  Yes  
 No

c. How much do you think the apartment would sell for on today's market?  
 3100 \$ \_\_\_\_\_ 00 Skip to item 85a, page 19

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

REGULAR OCCUPIED — Continued	
88a. How large is the (lot/site)? (Include all connecting land that is owned or that is rented with the home.) If over one acre, drop any fractions, don't round up. If under one acre, convert to approximate square feet. One-eighth acre = 5500 sq. ft. Quarter acre = 11000 sq. ft. One-third acre = 14000 sq. ft. Half acre = 22000 sq. ft. Three-quarters acre = 33000 sq. ft. One acre = 44000 sq. ft. MARK OR ASK — b. Is it more than 10 acres? 1 Yes 2 No c. Is there a commercial establishment on the property? 1 Yes 2 No d. Is there a medical or dental office on the property? 1 Yes 2 No e. How much do you think the mobile home would sell for on today's market? (Do not include the value of the land.) 3100 \$ f. Do you own the land? 1 Yes 2 No g. How much do you think the land would sell for on today's market? 3160 \$	3880 OR 2890 Feet by feet OR 3010 Whole acres 3020 1 Yes 2 No 3030 1 Yes 2 No 3040 1 Yes 2 No 3100 \$ 3140 1 Yes 2 No 3160 \$
88a. Is a garage or carport included with your home? -811+ b. Is an offstreet parking space included?	2820 1 Yes 2 No 2830 1 Yes 2 No
89. Is the ownership of the (house/apartment) shared with anyone NOT living here?	3180 1 Yes 2 No
90. Does anyone not living here pay some of the mortgage or utility costs?	3190 1 Yes 2 No
91. The next questions are about mortgages or other loans, such as Home Equity Loans, that are secured by the property. You may check your records if you wish. 92. Is there a mortgage or other loan on this (house/apartment)? (Include "Land contracts" and other loans SECURED BY THE PROPERTY.)	3200 1 Yes 2 No
93. Did you get your mortgage through a State or local government program that provides lower cost mortgages?	3210 1 Yes 2 No
94. Check item (See Control Card items 13 and 17.) Respondent is an owner or owner's spouse — Ask item 85, page 20 Respondent is not an owner or owner's spouse — Catback required — mark item 8, page 1; then skip to item 98a, page 22	
Notes	

REGULAR OCCUPIED — Continued	
95. How many mortgages are there now on the home/property? 3220 Number of mortgages	
96a. Did you get the current (first/second) mortgage the same year you bought your home? -811+ b. With regard to the (first/second) mortgage, did you get a new mortgage or did you assume someone else's mortgage? c. How much was left to pay off when you assumed it? d. How many years remained on the mortgage then? e. What year did you get the mortgage? f. When you first obtained THIS mortgage, how many years was it for? g. At your current payments, how long would it take to pay off the loan? h. How much was borrowed? i. Does this mortgage cover — (1) Other homes or apartments besides this one? (2) Farm land? (3) A business on this property? j. How much of the . . . (Amount in item 96c or h) applies just to your home? k. What is the current interest rate on the mortgage? (Annual percentage rate) (Round down to nearest 1/4) l. What is the current monthly payment? m. Besides principal and interest, does this payment include — (1) Property taxes? (2) Homeowner's insurance? (3) Anything else? (4) How much were the other charges last year? (Do not include property taxes or homeowner's insurance.)	FIRST (MORTGAGE/LOAN) 3220 1 Yes 2 No — Skip to item 96e 3230 1 New — Skip to item 96f 2 Assumed 3 Wrap-around — Skip to item 96f 3240 \$ 3250 Years — Skip to item 96f 3260 1 9 9 Year 3270 Years — If less than 15, ask item 96g; if 15 or more, skip to item 96h 3280 Years 3290 1 Yes — Skip to item 96j 2 No 3300 1 Yes — Skip to item 96j 2 No 3310 1 Yes 2 No 3320 1 Yes 2 No 3330 1 Yes 2 No 3340 1 Yes 2 No 3350 Whole number 3360 Plus Fraction 3370 0 No fraction 1 1/2 1 1/4 3 3/4 3380 \$ 3390 1 Yes 2 No 3400 1 Yes 2 No 3410 1 Yes 2 No — Skip to item 96h, page 2 3420 \$

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

REGULAR OCCUPIED - Continued	
<p><b>98a.</b> Check item (See item 23, page 3.)</p> <p><input type="checkbox"/> Mobile home either one-unit or two-or-more-units - Skip to item 101a</p> <p><input type="checkbox"/> Not a mobile home - Go to item 98b</p> <p><b>b.</b> Check item (See item 25a, page 3.)</p> <p><input type="checkbox"/> Condominium or cooperative - Ask item 98a</p> <p><input type="checkbox"/> All others - Skip to item 100a, page 23</p>	<p><b>98a.</b> Check item (See item 23, page 3.)</p> <p><input type="checkbox"/> Mobile home either one-unit or two-or-more-units - Skip to item 101a</p> <p><input type="checkbox"/> Not a mobile home - Go to item 98b</p> <p><b>b.</b> Check item (See item 25a, page 3.)</p> <p><input type="checkbox"/> Condominium or cooperative - Ask item 98a</p> <p><input type="checkbox"/> All others - Skip to item 100a, page 23</p>
<p><b>98b.</b> What were the real estate taxes last year for the (condominium/cooperative) unit? (Include school taxes, special assessments, and any other real estate taxes.) (Exclude taxes paid due from other years.) (Subtract any rebates.)</p> <p><b>a.</b> Did you receive a real estate property tax rebate last year?</p> <p><b>c.</b> What was the amount of the property tax rebates?</p>	<p>3520 \$ <input type="text" value="00"/></p> <p>3524 <input type="checkbox"/> Yes <input type="checkbox"/> No - Skip to item 100a</p> <p>3528 \$ <input type="text" value="00"/></p> <p>3570 <input type="checkbox"/> Yes <input type="checkbox"/> No - Skip to item 109a, page 24</p> <p>3580 <input type="checkbox"/> Monthly <input type="checkbox"/> Times per year</p> <p>3590 \$ <input type="text" value="00"/> - Skip to item 109a, page 24</p>
<p><b>100a.</b> Is there a required (condominium/cooperative) association fee?</p> <p><b>b.</b> How many times a year is the fee due?</p> <p><b>c.</b> What is the average cost each... (Billing period)?</p>	<p>3570 <input type="checkbox"/> Yes <input type="checkbox"/> No - Skip to item 109a, page 24</p> <p>3580 <input type="checkbox"/> Monthly <input type="checkbox"/> Times per year</p> <p>3590 \$ <input type="text" value="00"/> - Skip to item 109a, page 24</p>
<p><b>101a.</b> On the mobile home (.....) (and its lot) last year, what was the total cost of - property and real estate taxes, registration fees, and license fees? (Include all connecting owned land, school taxes, special assessments, and any other real estate taxes.) (Exclude taxes paid due from other years.) (Subtract any rebates.)</p> <p><b>b.</b> Did you receive a real estate property tax rebate last year?</p> <p><b>c.</b> What was the amount of the property tax rebates?</p>	<p>3520 \$ <input type="text" value="00"/></p> <p>3524 <input type="checkbox"/> Yes <input type="checkbox"/> No - Skip to item 102a, page 23</p> <p>3528 \$ <input type="text" value="00"/></p>

REGULAR OCCUPIED - Continued	
<p><b>96a.</b> In the mortgage an FHA, a VA, a Farmer's Home Administration, or some other type?</p> <p><b>b.</b> Did you borrow the money from a bank or other organization, OR did you borrow it from an individual?</p> <p><b>c.</b> Was it the former owner of the home?</p> <p><b>d.</b> Are the payments on this loan the same during the whole length of the mortgage?</p> <p><b>e.</b> How do they change? (Mark all that apply.)</p>	<p><b>FIRST (MORTGAGE/LOAN)</b></p> <p>3430 <input type="checkbox"/> FHA (Federal Housing Administration) - Skip to item 96g</p> <p><input type="checkbox"/> VA (Veterans' Administration) - Skip to item 96g</p> <p><input type="checkbox"/> Farmer's Home Administration - Go to item 96b</p> <p><input type="checkbox"/> Some other mortgage</p> <p><input type="checkbox"/> Don't know</p> <p>3440 <input type="checkbox"/> Bank or other organization - Skip to item 96g</p> <p><input type="checkbox"/> Individual</p> <p>3450 <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>3460 <input type="checkbox"/> Yes - Skip to item 96a</p> <p><input type="checkbox"/> No</p> <p>3470 <input type="checkbox"/> Change in taxes or insurance, or due to decline in principal balance - Do they change for any other reason? <input type="checkbox"/> Yes - Mark box 2, 3, 4, 5 and/or 7 <input type="checkbox"/> No - Go to item 96a</p> <p><input type="checkbox"/> Change based on interest rates</p> <p><input type="checkbox"/> Rise at fixed schedule during part of loan</p> <p><input type="checkbox"/> Rise at fixed schedule during whole length of loan</p> <p><input type="checkbox"/> Last payment biggest</p> <p><input type="checkbox"/> Other - Specify</p> <p>(If box 5 marked above, ask)</p> <p>3480 <input type="checkbox"/> 1 - 25 percent <input type="checkbox"/> 26 - 50 <input type="checkbox"/> 51 - 75 <input type="checkbox"/> 76 - 100</p> <p><input type="checkbox"/> One mortgage - Skip to item 96a, page 22</p> <p><input type="checkbox"/> Two or more mortgages - Go back to item 96a</p>
<p><b>97a.</b> For the third mortgage/other mortgage, how much did you borrow?</p> <p><b>b.</b> What is your current monthly payment for the third mortgage/other mortgage?</p>	<p>3490 \$ <input type="text" value="00"/></p> <p>3500 \$ <input type="text" value="00"/></p>

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

**REGULAR OCCUPIED — Continued**

102a. Check item (See item 88f, page 18.)  
 Land is owned — Skip to item 102f  
 Land is NOT owned — Go to item 102b

b. Check item (See item 82, page 18.)  
 Yes, mortgage — Ask item 102c  
 No mortgage — Skip to item 102d

c. Earlier you told me you do not own the land. Do you pay separate rent for the land?  
 Yes  
 No — Skip to item 102f

d. How many times a year is the land rent due?  
 12  Monthly Times per year

e. What is the cost each ... (Billing period)?  
 2811 \$  00  
 No cash rent  
 Included in mobile home park fee or association fee

f. (--- (In addition to the land rent), do you pay any (--- (additional) mobile home park fee?  
 3550 \$  00  
 Yes  
 No — Skip to item 102f

g. How many times a year is the fee due?  
 3555 \$  00  
 Monthly Times per year

h. What is the average cost each ... (Billing period)?  
 3500 \$  00  
 Monthly

i. Are there (any/any other) required fees for utility hookups, mobile home association fees, and so forth?  
 3517 \$  00  
 Yes  
 No — Skip to item 109a, page 24

j. How many times a year are the fees due?  
 3518 \$  00  
 Monthly Times per year

k. What is the average cost each ... (Billing period) for those fees?  
 2819 \$  00  
 Monthly — Skip to item 109a, page 24

103a. What were the real estate taxes last year for this home and its land?  
 (Include all connecting owned land. If multi-unit building, estimate share for sample unit. Include school taxes, special assessments, and any other taxes.)  
 (Exclude taxes paid due from other years.)  
 (Subtract any rebates.)  
 3520 \$  00

b. Did you receive a real estate property tax rebate last year?  
 Yes  
 No — Skip to item 106a

c. What was the amount of the property tax rebates?  
 3525 \$  00

**104. WASHINGTON USE ONLY**

105a. Is there a required homeowner's association fee?  
 Yes  
 No — Skip to item 106, page 24

b. How many times a year is the fee due?  
 3555 \$  00 Times

c. What is the average cost each ... (Billing period)?  
 3590 \$  00 — Skip to item 109a, page 24

106. In some parts of the country people own their homes but rent the land.  
 Do you pay rent for the land?  
 Yes  
 No — Skip to item 109a

**REGULAR OCCUPIED — Continued**

107. Check item (See item 82, page 18.)  
 Yes, mortgage — Ask item 108a  
 No mortgage — Skip to item 108b

108a. Is the land rent included with the mortgage payment?  
 3520 1  Yes — Skip to item 109a  
 2  No

b. How many times a year is the land rent due?  
 3530  00 Times per year  
 Monthly

c. What does it cost each time?  
 3540 \$  00

108a. Does this household have (homeowner's/household property) insurance?  
 Yes  
 No — Skip to item 110

b. In the past 12 months what was the total cost?  
 3550 \$  00

110. Now I have some questions about the costs for electricity, gas, and other utilities for your home (this unit). Because accurate costs are important it will help if you would lock up the amounts in your checkbook or other records.  
 (Respondent may also use amounts entered in the respondent letter. If 2 or more utilities are billed together, try to obtain the costs for each one separately.)

a. (1) Do you have any records available showing your costs for electricity? (Mark "No" if records available, but separate costs not shown.)  
 Yes — Ask item 110a(2)  
 No — Skip to item 110a(4)

(2) From your records, what were the costs for electricity for the months of ... (Read month and appropriate year categories.) (Do not include cents.)  
 - 6 12 -  
 Costs Month Year  
 3564 \$  00 January 19  
 3565 \$  00 April 19  
 3566 \$  00 August 19  
 3567 \$  00 December 19

(3) Check item  
 Electricity costs entered for 2 or more months — Skip to item 110a(1)  
 Electricity costs entered for 1 month or none — Ask item 110a(4)

(4) In the past 12 months what was the average MONTHLY cost for electricity?  
 (Average MONTHLY cost)  
 3570 \$  00 OR  
 Electricity not used  
 Included in rent, site rent, condominium, or other fee, etc.  
 Obtained free

b. (1) Do you use gas?  
 Yes  
 No — Skip to item 110d

(2) Is the gas from underground pipes or bottled gas?  
 1 Underground pipes serving neighborhood  
 2 Bottled gas — Skip to item 110c(4)

c. (1) Do you have any records available showing your costs for gas? (Mark "No" if records available, but separate costs not shown.)  
 Yes — Ask item 110c(2)  
 No — Skip to item 110c(4)

(2) From your records, what were the costs for gas for the months of ... (Read month and appropriate year categories.) (Do not include cents.)  
 - 6 12 -  
 Costs Month Year  
 3584 \$  00 January 19  
 3585 \$  00 April 19  
 3586 \$  00 August 19  
 3587 \$  00 December 19

(3) Check item  
 Gas costs entered for 2 or more months — Skip to item 110d  
 Gas costs entered for 1 month or none — Ask item 110c(4)

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

**REGULAR OCCUPIED - Continued**

**110c. (4)** In the past 12 months what was the average MONTHLY cost for gas? (1)

3690 \$ (Average MONTHLY cost) OR →  
 00

OR -

3700 1  Included in rent, site rent, condominium, or other fee, etc.  
 2  Obtained free

3710 Billed with - (Mark all that apply.)  
 1  Electricity  
 2  Fuel oil  
 3  Other fuel  
 4  Garbage and trash  
 5  Water and sewage

**d.** In the past 12 months what was the total ANNUAL cost for fuel oil? (2)

3720 \$ (ANNUAL cost) OR →  
 00

OR -

3740 1  Not used  
 2  Included in rent, site rent, condominium, or other fee, etc.  
 3  Obtained free

3750 Billed with - (Mark all that apply.)  
 1  Electricity  
 2  Gas  
 3  Other fuel  
 4  Garbage and trash  
 5  Water and sewage

**e.** In the past 12 months what was the total ANNUAL cost for wood, coal, kerosene, or any other fuel? (3)

3760 \$ (ANNUAL cost) OR →  
 00

OR -

3770 1  Not used  
 2  Included in rent, site rent, condominium, or other fee, etc.  
 3  Obtained free

3780 Billed with - (Mark all that apply.)  
 1  Electricity  
 2  Gas  
 3  Fuel oil  
 4  Garbage and trash  
 5  Water and sewage

**f.** In the past 12 months what was the total ANNUAL cost for garbage and trash collection? (4)

3790 \$ (ANNUAL cost) OR →  
 00

OR -

3800 1  Not used  
 2  Included in rent, site rent, condominium, or other fee, etc.  
 3  Obtained free

3810 Billed with - (Mark all that apply.)  
 1  Electricity  
 2  Gas  
 3  Fuel oil  
 4  Other fuel  
 5  Water and sewage

**g.** In the past 12 months what was the total ANNUAL cost for water supply and sewerage disposal? (5)

3820 \$ (ANNUAL cost) OR →  
 00

OR -

3830 1  Included in rent, site rent, condominium, or other fee, etc.  
 2  Obtained free

3840 Billed with - (Mark all that apply.)  
 1  Electricity  
 2  Gas  
 3  Fuel oil  
 4  Other fuel  
 5  Garbage and trash

Notes

**REGULAR OCCUPIED - Continued**

**111a.** How many automobiles are kept at home for use by members of your household? (6)

3850 Number  
 0  None

**b.** How many vans or trucks of one-ton capacity or less are kept at home for use by members of your household? (7)

3860 Number  
 0  None

**112a.** Check item (See Control Card items 13, 14, and 18.)  
 Nonrelative household members age 14+ in household - Go to item 112b  
 All others - Skip to item 114, page 27

**b.** Check item (See Control Card items 13, 17, and 18.)  
 All nonrelative age 14+ are co-owners/co-tenants (in Control Card item 17) - Skip to item 114, page 27  
 All others - Go to item 112c

**c.** Check item (See Control Card items 13, 17, and 18.)  
 Remaining nonrelative age 14+ are spouse or child(ren) of co-owner or co-renter - Skip to item 114, page 27  
 All others - Ask item 113a-d for each nonrelative age 14+ who is not a co-owner or co-renter

**113.** Enter line number

	3880	3890	3900	3910	3920	3930	3940	3950	3960	3970	3980	3990	4000
a. Does ... pay a regular fixed rent as a lodger to someone in this household? (8)	Line number	Line number	Line number	Line number	Line number	Line number	Line number	Line number	Line number	Line number	Line number	Line number	Line number
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 27.	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 27.	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 27.	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 27.	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 27.	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 27.	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 27.	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 27.	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 27.	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 27.	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 27.	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 27.	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No - Skip to next nonrelative; if no other nonrelative, skip to item 114, page 27.
b. How often is ...'s rent due? (9)	Times/year	Times/year	Times/year	Times/year	Times/year	Times/year	Times/year	Times/year	Times/year	Times/year	Times/year	Times/year	Times/year
	12 <input type="checkbox"/> Monthly	12 <input type="checkbox"/> Monthly	12 <input type="checkbox"/> Monthly	12 <input type="checkbox"/> Monthly	12 <input type="checkbox"/> Monthly	12 <input type="checkbox"/> Monthly	12 <input type="checkbox"/> Monthly	12 <input type="checkbox"/> Monthly	12 <input type="checkbox"/> Monthly	12 <input type="checkbox"/> Monthly	12 <input type="checkbox"/> Monthly	12 <input type="checkbox"/> Monthly	12 <input type="checkbox"/> Monthly
c. How much is the rent? (10)	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	00	00	00	00	00	00	00	00	00	00	00	00	00
d. Does that include food? (11)	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No
e. Go to next nonrelative; if none, go to item 114, page 27.													

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

**REGULAR OCCUPIED - Continued**

(Enter line number for reference person and all household members age 14 + RELATED TO REFERENCE PERSON by blood, marriage, or adoption.)

**114.** One of the main housing problems today is the total cost of housing compared to income. The next few questions are about income.

In the past 12 months, how much did ... earn in wages, salaries, tips, and commissions before deductions?

Line No.	Amount
3940	3850 \$
3950	3970 \$
3960	3990 \$
4000	4010 \$
4020	4030 \$
4040	4050 \$
4060	4070 \$
4080	4090 \$
4100	4110 \$
4120	4130 \$

Amount:  None

**115a.** In the past 12 months did ... (Specify names for line numbers in item 114) -

(1) Have a business, farm or ranch?  Yes  No

(2) Receive social security or pensions? (Do not count SSI checks as social security.)  Yes  No

(3) Receive any interest or dividend income of \$400 or more?  Yes  No

(4) Receive rental income?  Yes  No

(5) Receive welfare or SSI?  Yes  No

(6) Receive alimony or child support?  Yes  No

(7) Receive unemployment or worker's compensation or any other income?  Yes  No

**b.** In the past 12 months what was the total income from (Sources marked "Yes" in item 115a) - (Enter deducting expenses and losses from business/farm/ranch and/or rental income)?

Verified that identical amounts in items 114 and 115a are not duplicate amounts

Total income after deducting expenses and losses:  00

Amount of total net loss:  00

**c.** Is your total family income THIS MONTH about the same as it was a year ago?  Yes  No

**d.** What do you expect your total family income to be in the NEXT 12 MONTHS?  00

**116.** Check item (See items 114 and 115a.) (Mark first box that applies.)

Total income over \$25,000 - Skip to item 118a, page 28

Income \$25,000 or less - Skip to item 117b, page 28

Income is refused, NA or DK - Ask item 117a, page 28

**REGULAR OCCUPIED - Continued**

**117a.** Was (your/their) total income over \$25,000?  Yes - Skip to item 118a  No

**b.** Did ... (Specify names for line numbers in item 114) receive Food Stamps in the past 12 months?  Yes  No

**c.** Does ... (Specify names for line numbers in item 114) have -

(1) Savings?  Yes  No

(2) Investments in a farm or business?  Yes  No

(3) Other investments? (Exclude THIS home.)  Yes  No

**d.** Is the total amount of savings and investments over \$25,000?  Yes  No

**118a.** Check item (See Control Card item 8b.)

Owned - Skip to item 121a

Rented or no cash rent - Go to item 118b

**b.** Check item (See item 23, page 3.)

One-unit building or one-unit mobile home - Skip to item 118b

Two-or-more-unit building or two-or-more-unit mobile home - Ask item 118a

**118a.** Does either the owner or a resident manager live in this building/complex?  Yes  No

**b.** What is the owner's name and address? (If don't know, ask -)

Where do you send your rent?

Name (Please print) \_\_\_\_\_

Address (Number, street) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_

Title  Owner  Home  Other  Office

Area code, number, extension \_\_\_\_\_

**c.** What is the (owner's/office's) telephone number?  Home  Business

**d. INSTRUCTION - GO TO ITEM 121a**

**120. WASHINGTON USE ONLY**

**121a.** Check item (See item 3, page 1.)

Control number in sample last enumeration period - Go to item 121b

Control number in sample for first time this enumeration period - Skip to item 123a, page 29

**b.** Check item (See item 5, page 1.)

Same house/apartment/mobile home as last enumeration period - Go to item 121c

Different house/apartment/mobile home from last enumeration period - Skip to item 123a, page 29

**c.** Check item (See Control Card item 9c.) Unit was a noninterview in 1989

Yes - Skip to item 123a, page 29

No - Go to item 122a, page 29

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

**REGULAR OCCUPIED - Continued**

**122a.** Since 1989, has there been a change in the amount of living space in this unit? **4870**  Yes - Go to item 122b  No - Go to item 177a, page 43

**122b.** How many square feet of living space were added or lost? (If dimensions given, record dimensions.)

**ADDITION**  X \_\_\_\_\_ Square feet

**LOSS**  X \_\_\_\_\_ Square feet

**4880**  Don't know

**123a.** Housing site is important for analysis of other information from this survey. How many square feet are there in this (house/apartment)? (Include basements and finished attics. Exclude unfinished attics, porches, and attached garages. Also exclude porches that are not protected from the elements/....) (---/Exclude the mobile home hitch.)

**4800** \_\_\_\_\_ Square feet - Go to item 177a, page 43

Don't know - Ask item 123b

**123b.** How many (floor/ stories) are there in this (house/apartment)? (Include basements and finished attics/....) (In apartments, floors refers only to the apartment itself.)

**4810** \_\_\_\_\_ Number

**123c.** MARK OR ASK - Is the (house/apartment) a split level?

**4820**  Yes  No

**123d.** What is the length and width of each floor of the (house/apartment)? (Include basements and finished attics. Exclude unfinished attics, porches, and attached garages. Also exclude porches that are not protected from the elements/....) (---/Exclude the mobile home hitch.) (Record dimensions of each room separately, if respondent is unable to give dimensions for the total floor size.)

Floor	First (a)		Second (b)		Third (c)		Fourth (d)	
	Length	Width	Length	Width	Length	Width	Length	Width
Basement								
1st floor of unit								
2nd floor of unit								
3rd floor of unit								
4th floor of unit								

**4840**  Don't know - Go to item 177a, page 43

**123e.** SKETCH (If enough information is available, draw sketch of sample unit below.)

**OFFICE USE ONLY** **4840** \_\_\_\_\_ Square feet

**f. INSTRUCTION - GO TO ITEM 177a, PAGE 43.**

**URE INTERVIEWS**

**124.** MARK OR ASK - Are the living quarters in a - (Read all answer categories.)

**1120**  Mobile home  One-unit building, detached from any other building  One-unit building, attached to one or more buildings - Skip to item 126a  Building with two or more apartments? - Skip to item 125b

**125a.** Are there any occupied or vacant apartments besides this one in the (building/mobile home)?

**1130**  Yes - Fill Table X on Control Card then go to item 125b  No - Skip to item 127 and mark box 1 or 4

**1140** \_\_\_\_\_ Number - Skip to item 127 and mark box 3 or 5

**125b.** How many apartments are in the (building/mobile home)?

**1150**  Yes  No  Don't know } SKIP to item 126c

**126a.** Does the (house/apartment) share an attic or basement with the (house/apartment) next door?

**1160** \_\_\_\_\_ Number - If one, reask item 126a and correct entry. If more than one, skip to item 127 and mark box 3.

**126b.** How many (houses/apartments) including this one share the attic or basement?

**1170**  Yes  No  Don't know } SKIP to item 126e

**126c.** Does the (house/apartment) share a furnace or boiler with the (house/apartment) next door?

**1180** \_\_\_\_\_ Number - If one, reask item 126c and correct entry. If more than one, skip to item 127 and mark box 3.

**126d.** How many (houses/apartments) including this one share the furnace or boiler?

**1190**  Yes - Fill Table X on Control Card then go to item 126f  No - Skip to item 127 and mark box 2

**126e.** Are there any occupied or vacant apartments besides this one in this house?

**1200** \_\_\_\_\_ Number - If one, reask item 126e and correct entry. If more than one, go to item 127 and mark box 3.

**126f.** How many apartments including this one are in this house?

**1210**  One-unit building - detached  One-unit building - attached  Two-or-more-unit building } Skip to item 128a  Mobile home - one unit.  Mobile home - two-or-more-units

**127.** Check item Final structure type classification based on entries in items 124 - 126

**128.** Is the house built - (Read answer categories until a "Yes" reply is received.)

**1220**  With a basement under all the building?  With a basement under part of the building?  With a crawl space?  On a concrete slab?  In some other way? - Specify \_\_\_\_\_

**128a.** Is the (house/apartment) part of a condominium or cooperative?

**1230**  No  Yes, condominium  Yes, cooperative

**128b.** To the Census Bureau, a cooperative is property which is owned by a corporation, individual unit is this what you occupy an individual unit in this what you own when you say this is a cooperative?

Yes  No - Reask item 128a and correct entry

Notes

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

URE INTERVIEWS — Continued	
<p><b>130a.</b> How many of each of the following rooms does the (house/apartment) have? (For a one-room efficiency or studio apartment, enter "1" for living room, enter the correct number of bedrooms, and mark "none" for all other rooms.)</p> <p>(1) Bedrooms? ..... Number _____  <input type="checkbox"/> None</p> <p>(2) How many full bedrooms with a sink with hot and cold piped water, a flush toilet, AND a bathtub or shower? ..... Number _____  <input type="checkbox"/> None</p> <p>(3) How many half bedrooms? (Roller OR bathtub OR shower) ..... Number _____  <input type="checkbox"/> None</p> <p>(4) Kitchens? ..... Number _____  <input type="checkbox"/> None</p> <p>(5) Living rooms? ..... Number _____  <input type="checkbox"/> None</p> <p>(6) Separate dining rooms? ..... Number _____  <input type="checkbox"/> None</p> <p><b>b.</b> Are there any other rooms? (Exclude halls, foyers, pantries, garages, porches or areas that aren't separated by a built-in, floor-to-ceiling wall extending at least a few inches into room.)  <input type="checkbox"/> Yes  <input type="checkbox"/> No — Skip to item 131</p> <p><b>c.</b> What are they? (Complete all 3 parts.)                  Number of family rooms, dens, recreation rooms and/or libraries _____  <input type="checkbox"/> None                  Number of rooms that are business space with direct access to outside _____  <input type="checkbox"/> None                  Number of other rooms, finished or unfinished _____  <input type="checkbox"/> None</p>	<p><b>131.</b> Does the (house/apartment) have a kitchen sink? (Exclude sink used on a regular basis by someone living outside the unit.)  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p> <p><b>132.</b> Check item (See item 130a.)  <input type="checkbox"/> One or more full bedrooms — Skip to item 133c  <input type="checkbox"/> No full bedrooms — Ask item 133b</p> <p><b>133a.</b> Does the (house/apartment) have a bathtub or shower for the occupants' use only?  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p> <p><b>b.</b> Does the (house/apartment) have a flush toilet for the occupants' use only?  <input type="checkbox"/> Yes  <input type="checkbox"/> No } Skip to item 134a, page 32</p> <p><b>c.</b> (Is the bathroom/are the bedrooms) for this household's use only?  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p>
<p><b>134a.</b> Is all the wiring in the finished areas of the (house/apartment) concealed either in walls or metal coverings? (Exclude appliance cords, extension cords, chandelier cords, telephones, antennas, or cable TV wires.)  <input type="checkbox"/> Yes, concealed  <input type="checkbox"/> No  <input type="checkbox"/> No electrical wiring — Skip to item 135a</p> <p><b>b.</b> Does every room have an electric outlet or wall plug that works?  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p> <p><b>135a.</b> Does the (house/apartment) have hot and cold piped water? (Not used on a regular basis by someone outside the unit.)  <input type="checkbox"/> Yes  <input type="checkbox"/> No — Skip to item 136a</p> <p><b>b.</b> What fuel is used MOST to heat the water?  <input type="checkbox"/> Electricity  <input type="checkbox"/> Gas  <input type="checkbox"/> Fuel oil  <input type="checkbox"/> Kerosene or other liquid fuel  <input type="checkbox"/> Coal or coke  <input type="checkbox"/> Wood  <input type="checkbox"/> Solar energy  <input type="checkbox"/> Other — Specify _____</p> <p><b>136a.</b> Does water for the (house/apartment) come from a public or private water system, an individual well, or some other source? (Source used for drinking and cooking.)  <input type="checkbox"/> Public or private water system — Skip to item 137a  <input type="checkbox"/> Individual well — Ask item 136b  <input type="checkbox"/> Spring  <input type="checkbox"/> Stream  <input type="checkbox"/> Stream or lake  <input type="checkbox"/> Bottled water  <input type="checkbox"/> Other — Specify _____ } Skip to item 137a</p> <p><b>b.</b> How many (houses/apartments) does the well serve?  <input type="checkbox"/> Only this house/apartment  <input type="checkbox"/> 2 to 5  <input type="checkbox"/> 6 or more</p> <p><b>c.</b> Is the well drilled or dug?  <input type="checkbox"/> Drilled  <input type="checkbox"/> Dug</p> <p><b>137a.</b> Is the (house/apartment) connected to a public sewer?  <input type="checkbox"/> Yes — Skip to item 138a, page 33  <input type="checkbox"/> No</p> <p><b>b.</b> What means of sewage disposal does the (house/apartment) have?  <input type="checkbox"/> Septic tank or cesspool — Ask item 137c  <input type="checkbox"/> Chemical toilet  <input type="checkbox"/> Outhouse or privy  <input type="checkbox"/> Other — Specify _____ } Skip to item 138a, page 33</p> <p><b>c.</b> How many (houses/apartments) are connected to the (septic tank/cesspool)?  <input type="checkbox"/> None  <input type="checkbox"/> One  <input type="checkbox"/> 2 to 5  <input type="checkbox"/> 6 or more</p>	<p><b>1340.</b> _____</p> <p><b>1400.</b> _____</p> <p><b>1470.</b> _____</p> <p><b>1480.</b> _____</p> <p><b>1510.</b> _____</p> <p><b>1520.</b> _____</p> <p><b>1530.</b> _____</p> <p><b>1540.</b> _____</p> <p><b>1560.</b> _____</p>
Notes	

URE INTERVIEWS — Continued	
<p><b>134a.</b> Is all the wiring in the finished areas of the (house/apartment) concealed either in walls or metal coverings? (Exclude appliance cords, extension cords, chandelier cords, telephones, antennas, or cable TV wires.)  <input type="checkbox"/> Yes, concealed  <input type="checkbox"/> No  <input type="checkbox"/> No electrical wiring — Skip to item 135a</p> <p><b>b.</b> Does every room have an electric outlet or wall plug that works?  <input type="checkbox"/> Yes  <input type="checkbox"/> No</p> <p><b>135a.</b> Does the (house/apartment) have hot and cold piped water? (Not used on a regular basis by someone outside the unit.)  <input type="checkbox"/> Yes  <input type="checkbox"/> No — Skip to item 136a</p> <p><b>b.</b> What fuel is used MOST to heat the water?  <input type="checkbox"/> Electricity  <input type="checkbox"/> Gas  <input type="checkbox"/> Fuel oil  <input type="checkbox"/> Kerosene or other liquid fuel  <input type="checkbox"/> Coal or coke  <input type="checkbox"/> Wood  <input type="checkbox"/> Solar energy  <input type="checkbox"/> Other — Specify _____</p> <p><b>136a.</b> Does water for the (house/apartment) come from a public or private water system, an individual well, or some other source? (Source used for drinking and cooking.)  <input type="checkbox"/> Public or private water system — Skip to item 137a  <input type="checkbox"/> Individual well — Ask item 136b  <input type="checkbox"/> Spring  <input type="checkbox"/> Stream  <input type="checkbox"/> Stream or lake  <input type="checkbox"/> Bottled water  <input type="checkbox"/> Other — Specify _____ } Skip to item 137a</p> <p><b>b.</b> How many (houses/apartments) does the well serve?  <input type="checkbox"/> Only this house/apartment  <input type="checkbox"/> 2 to 5  <input type="checkbox"/> 6 or more</p> <p><b>c.</b> Is the well drilled or dug?  <input type="checkbox"/> Drilled  <input type="checkbox"/> Dug</p> <p><b>137a.</b> Is the (house/apartment) connected to a public sewer?  <input type="checkbox"/> Yes — Skip to item 138a, page 33  <input type="checkbox"/> No</p> <p><b>b.</b> What means of sewage disposal does the (house/apartment) have?  <input type="checkbox"/> Septic tank or cesspool — Ask item 137c  <input type="checkbox"/> Chemical toilet  <input type="checkbox"/> Outhouse or privy  <input type="checkbox"/> Other — Specify _____ } Skip to item 138a, page 33</p> <p><b>c.</b> How many (houses/apartments) are connected to the (septic tank/cesspool)?  <input type="checkbox"/> None  <input type="checkbox"/> One  <input type="checkbox"/> 2 to 5  <input type="checkbox"/> 6 or more</p>	<p><b>1390.</b> _____</p> <p><b>1400.</b> _____</p> <p><b>1470.</b> _____</p> <p><b>1480.</b> _____</p> <p><b>1510.</b> _____</p> <p><b>1520.</b> _____</p> <p><b>1530.</b> _____</p> <p><b>1540.</b> _____</p> <p><b>1560.</b> _____</p>
Notes	



Facsimile of the American Housing Survey Questionnaire: 1990—Continued

**URE INTERVIEWS — Continued**

**138a.** Does the (house/apartment) have a refrigerator? (Exclude ice boxes.) (Exclude refrigerator used on a regular basis by someone living outside the unit.)

1890  Yes  No — Skip to item 139a

**b.** Is it more than 5 years old? (Age of newest if two or more)

1900  Yes  No

**139a.** Does the (house/apartment) have a garbage disposal in the sink?

1910  Yes  No — Skip to item 140a

**b.** Is it more than 5 years old?

1920  Yes  No

**140a.** Does the (house/apartment) have a cookstove or range with an oven? (Include microwaves. Exclude toaster-ovens and portable burners.) (Exclude stove or oven used on a regular basis by someone living outside the unit.)

1930  Yes — Skip to item 140c  No

**b.** Does the (house/apartment) have —

(1) an oven? (Include microwaves. Exclude toaster-ovens.)

1940  Yes  No

(2) cooking burners? (Exclude portable burners.)

1950  Yes  No

**c.** (Is it/are they) more than 5 years old? (Age of newest if two or more)

1960  Yes  No

**d.** What fuel is used MOST for cooking?

1970  Electricity  Gas  Kerosene or other liquid fuel  Coal or coke  Wood  Other — Specify  No fuel used

**141a.** Does the (house/apartment) have a dishwasher?

1990  Yes  No — Skip to item 142a

**b.** Is it more than 5 years old?

1700  Yes  No

**142a.** Does the (house/apartment) have a washing machine (---) in the apartment?

1710  Yes  No — Skip to item 143a

**b.** Is it more than 5 years old?

1720  Yes  No

**143a.** Does the (house/apartment) have a clothes dryer (---) in the apartment?

1730  Yes  No — Skip to item 144a

**b.** Is it more than 5 years old?

1740  Yes  No

**c.** What kind of fuel does the dryer use?

1750  Electricity  Gas  Other — Specify

**144a.** Does the (house/apartment) have central air conditioning?

1760  Yes  No — Skip to item 144c

**b.** What kind of fuel does it use?

1770  Electricity  Gas  Other — Specify

**c.** Does the (house/apartment) have room air conditioner?

1780  Yes  No — Skip to item 145a, page 34

**d.** How many?

1790  Number

**URE INTERVIEWS — Continued**

**145a.** What fuel is used MOST for heating the (house/apartment)?

1800  Electricity  Gas  Fuel oil  Kerosene or other liquid fuel  Coal or coke  Wood  Solar energy  Other — Specify  None — Skip to item 146

**b.** Besides (fuel marked in item 145a), what other fuel is used for heating the (house/apartment)? (Mark all that apply.)

1810  Electricity  Gas  Fuel oil  Kerosene or other liquid fuel  Coal or coke  Wood  Solar energy  Other — Specify  None

**146.** Does the (house/apartment) have a usable fireplace?

1820  Yes  No

**147.** PLEASE LOOK AT THIS CARD. What type of heating equipment is used MOST to heat the (house/apartment)? (Read answer categories until heating equipment used most is mentioned.)

1840  A central warm-air furnace with air vents or ducts to the individual room?  a. Is the heating fuel for the furnace electricity?  Yes  No — Go to item 148a  b. Is that a heat pump?  Yes — Mark box 3  No — Go to item 148a  c. Steam or hot-water system with radiators OR other system using steam or hot water?  d. Electric heat pump?  e. Other built-in electric units permanently installed in wall, ceiling, or baseboard?  f. Floor, wall, or other built-in, hot-air heater, without ducts?  g. Kerosene, gas, or oil room heater(s), VENTED to the outside, through a chimney, flue, or pipe?  h. UNVENTED kerosene, gas, or oil room heater?  i. Portable electric heater(s)  j. Stove(s)  k. Fireplace(s) WITH inserts, that is, installed equipment designed to circulate more heat into the room?  l. Fireplace(s) with NO inserts?  m. Some other type of heating equipment?

Specify  None? — Skip to item 149a, page 35

**Notes**

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

**URE INTERVIEWS — Continued**

**152a.** How often is the rent on the (house/apartment) due? **- 6 5 1 1**  
 1800 Monthly Times per year  
 12 Monthly Times per year

**b.** How much is the rent? (If pending this separately, exclude it here and mark NO to items 153a and 153b without asking.) **3510** \$  00  
 1 Yes  2 No

**c. (1)** Is this (house/apartment) for vacation or other short-term use? **- 6 5 1 1**  
 1 Yes  2 No

**(2)** Check item (See item 127, page 30.)  
 Mobile home either one-unit or two-or-more-units — Ask item 152d  
 Not a mobile home — Skip to item 153a

**d.** Do you pay separate rent for the land?  1 Yes  2 No — Skip to item 152g  
 (If land occupied in exchange for services, mark "Yes" and "No cash rent" in item 152f.)

**e.** How many times a year is the (land/lot) rent due? **2512** Times per year  
 12 Monthly

**f.** What is the cost each . . . (Billing period)? **2513** \$  00  
 No cash rent  
 8897 Included in mobile home park fee or association fee

**g. (1)** (In addition to the rent), do you pay any (additional) mobile home park fee? **3550**  1 Yes  2 No — Skip to item 152j

**h.** How many times a year is the fee due? **3555** Times per year  
 12 Monthly

**i.** What is the cost each . . . (Billing period)? **3560** \$  00  
 0 Included in mobile home rent

**j.** Are there any ( . . . /other) required fees for utility hookups, mobile home association fees, and so forth? **- 6 5 1 1**  
 1 Yes  2 No — Skip to item 153a

**k.** How many times a year are the fees due? **3518** Times per year  
 12 Monthly

**l.** What is the average cost each . . . (Billing period) for these fees? **3519** \$  00

**153a.** Is a garage or carport included (in the rent/with the home)? **2520**  1 Yes — Skip to item 154  2 No

**b.** Is an offstreet parking space included? **2530**  1 Yes  2 No

**154.** Check item (See item 127, page 30.)  
 Mobile home either one-unit or two-or-more-units — Skip to item 156, page 37  
 Not a mobile home — Ask item 155

**155.** About when was the building originally built?  
 1980 or later  
 1979  
 75-78  
 70-74  
 60-68  
 50-58  
 40-49  
 30-39  
 20-29  
 1919 or earlier

**URE INTERVIEWS — Continued**

**148a.** What other kinds of heating equipment does the (house/apartment) have or use? (Mark all that apply.) **1850**  
 1 A central warm-air furnace with air vents or ducts to the individual rooms  
 2 Steam or hot-water system with radiators OR other system using steam or hot water  
 3 Electric heat pump  
 4 Other built-in electric units permanently installed in wall, ceiling, or baseboards  
 5 Floor, wall, or other built-in, hot-air heater without ducts  
 6 Kerosene, gas, or oil room heater(s). VENTED to the outside through a chimney, flue, or pipes  
 7 UNVENTED kerosene, gas, or oil room heater(s)  
 8 Portable electric heater(s)  
 9 Stove(s)  
 10 Fireplace(s) WITH inserts, that is, installed equipment designed to circulate more heat into the room  
 11 Fireplace(s) with NO inserts  
 12 Some other type of heating equipment — Specify  $\nabla$   
 13 None — Go to item 149a

**b. Anything else?**  
 Yes — Mark appropriate box(es), then go to item 149a  
 No — Go to item 149a

**149a.** Does the (house/apartment) have a porch, deck, balcony, or patio? **1930**  
 1 Yes  2 No  
 (Measuring at least four feet by four feet) (Exclude if already counted as a room.)

**b.** Does the (house/apartment) have open cracks or holes in the inside walls or ceilings? **1940**  1 Yes  2 No  
 (Cracks thicker than a dime)

**c.** Does the (house/apartment) have holes in the floors? **1950**  1 Yes  2 No  
 (Big enough for someone to trip in)

**d.** Does the (house/apartment) have any area of the floor or partition plate bigger than 8 inches by 11 inches? **1960**  1 Yes  2 No  
 (The size of a weekly news magazine or standard letter)

**150a.** Is the (house/apartment) INTENDED for year round use, for occupancy only on a seasonal basis, or for use by migrant workers? **2460**  
 7 Year round (occupied temporarily at time of interview) — Skip to item 150c  
 8 Seasonal — Summers only  
 9 Seasonal — Winters only  
 10 Other seasonal — Specify  
 11 Migratory

**b.** Does the construction and heating of the (house/apartment) make it suitable for year-round use? **2480**  1 Yes  2 No

**c.** How many months has it been three the (house/apartment) was occupied as a permanent home? **- 6 5 1 1**  
**2470** Months (if 1 — 24 months)  
 00 Less than 1 month  
 26 Over 2 years  
 36 NEVER OCCUPIED AS A PERMANENT HOME  
 37 Don't know

**d.** Is the ownership of the (house/apartment) time-shared? **3070**  1 Yes  2 No

**151.** Check item (See Control Card item 6b.)  
 Owned — Skip to item 164, page 36  
 Rented — Ask item 152b, page 36  
 No cash rent — Skip to item 152c(1), page 36

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

URE INTERVIEWS — Continued		- 8 811 -
156. Excluding the dealer's lot, is this the first site on which this mobile home was placed?	<input type="checkbox"/> 1 Yes, first site <input type="checkbox"/> 2 No, moved from another site <input type="checkbox"/> 3 Don't know	2800
157. What is the model year of the mobile home?	<input type="checkbox"/> 1980 or later <input type="checkbox"/> 1979 <input type="checkbox"/> 75-78 <input type="checkbox"/> 70-74 <input type="checkbox"/> 60-69 <input type="checkbox"/> 50-59 <input type="checkbox"/> 40-49 <input type="checkbox"/> 1939 or earlier	2810
158. Check item (See item 127, page 30.) <input type="checkbox"/> Two-or-more-unit building or two-or-more-unit mobile home — Skip to item 160 <input type="checkbox"/> All others — Ask item 159a		2820
159a. How large is the (lot/site)? (Include all connecting land that is owned or rented with the home.) (If over one acre, drop any fractions, don't round up. If under one acre, convert to approximate square feet.)	_____ Square feet OR _____ Feet by _____ feet OR _____ Whole acres <input type="checkbox"/> Don't know — Ask item 159b	2880, 2890, 3000, 3010
159b. Is it more than 10 acres?	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No	3020
160. Check item (See Control Card item 8b.) <input type="checkbox"/> Owned — Ask item 161a <input type="checkbox"/> Rented — Skip to item 171, page 40 <input type="checkbox"/> Occupied without payment of cash rent — Skip to item 171, page 40		3030
161a. Is there a commercial establishment on the property?	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No	3040
161b. Is there a medical or dental office on the property?	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No	3100
162a. Check item (See item 160d, page 35.) <input type="checkbox"/> Unit is time-shared — Skip to item 163a <input type="checkbox"/> Unit is not time-shared — Ask item 162b		- 8 811 -
162b. How much do you think the (house/apartment) would sell for on today's market? (Include all connecting land; if multiunit building, estimate share of value applicable to sample unit.)	_____	2820
163a. Is a garage or carport included with the (house/apartment)?	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No	2830
164a. Check item (See item 127, page 30.) <input type="checkbox"/> Mobile home either one-unit or two-or-more-units — Skip to item 166a, page 38 <input type="checkbox"/> Not a mobile home — Go to item 164b		2840
164b. Check item (See item 128a, page 30.) <input type="checkbox"/> Condominium or cooperative — Ask item 166a, page 38 <input type="checkbox"/> All others — Skip to item 167a, page 39		2850

URE INTERVIEWS — Continued		- 8 811 -
165a. What were the real estate taxes last year for the (condominium/cooperative) unit? (Include school taxes, special assessments, and any other real estate taxes.) (Exclude taxes paid due from other years.) (Subtract any rebates.)	_____	3520
165b. (Did the owner/Did you) receive a real estate property tax rebate last year?	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No — Skip to item 165d	3524
165c. What was the amount of the property tax rebate?	_____	3528
165d. (Is the owner/Are you) required to pay a (condominium/cooperative) association fee?	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No — Skip to item 171, page 40	3570
165e. How many times a year is the fee due?	_____ Times per year <input type="checkbox"/> Monthly	3580
165f. What is the average cost each . . . (Billing period)?	_____	3590
166a. On the mobile home (---) (and its lot) last year, what was the total cost of — property and real estate taxes, registration fees, and license fees? (Include school taxes, special assessments, and any other real estate taxes.) (Exclude taxes paid due from other years.) (Subtract any rebates.)	_____	3520
166b. (Did the owner/Did you) receive a real estate property tax rebate last year?	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No — Skip to item 166d	3524
166c. What was the amount of the property tax rebate?	_____	3528
166d. Do you own the land?	<input type="checkbox"/> 1 Yes — Skip to item 166h <input type="checkbox"/> 2 No	2807
166e. Do you pay separate rent for the land?	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No — Skip to item 166h	2811
166f. How many times a year is the (land/site) rent due?	_____ Times per year <input type="checkbox"/> Monthly	2812
166g. What is the cost each . . . (Billing period)?	_____	2813
166h. (Is the owner/Are you) required to pay any (additional) mobile home park fee?	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No — Skip to item 166k	3580
166i. How many times a year is the fee due?	_____ Times per year <input type="checkbox"/> Monthly	3585
166j. What is the average cost each . . . (Billing period)?	_____	3600
166k. Are there (any/any other) required fees for utility hookups, mobile home association fees, and so forth?	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No — Skip to item 171, page 40	- 8 811 - 2817
166l. How many times a year are the fees due?	_____ Times per year <input type="checkbox"/> Monthly	2818
166m. What is the average cost each . . . (Billing period) for those fees?	_____	2819



Facsimile of the American Housing Survey Questionnaire: 1990—Continued

**URE INTERVIEWS — Continued**

**174a.** Check item (See item 3, page 1.)  
 Control number in sample last enumeration period — Go to item 174b  
 Control number in sample for first time this enumeration period — Skip to item 176a, page 42

**b.** Check item (See item 5, page 1.)  
 Same house/apartment/mobile home as last enumeration period — Go to item 174c  
 Different house/apartment/mobile home from last enumeration period — Skip to item 176a, page 42

**c.** Check item (See Control Card item 9c)  
 Unit was a noninterview in 1986  
 Yes — Skip to item 176a, page 42  
 No — Go to item 175a

**175a.** Since 1986, has there been a change in the amount of living space in this (house/apartment) because of putting on an addition, finishing an attic or converting a garage to living space? (Do not count finishing a basement.)  
 Yes — Go to item 175b  
 No — Go to item 177a, page 43

**ADDITION**  
 4585 \_\_\_\_\_ Square feet  
 \_\_\_\_\_ X \_\_\_\_\_ dimensions)

**LOSS**  
 4586 \_\_\_\_\_ Square feet  
 \_\_\_\_\_ X \_\_\_\_\_ dimensions)

4587  Yes — Go to item 175b  
 No — Go to item 177a, page 43

4588 \_\_\_\_\_ Square feet  
 \_\_\_\_\_ X \_\_\_\_\_ dimensions)

4589 \_\_\_\_\_ Square feet  
 \_\_\_\_\_ X \_\_\_\_\_ dimensions)

4590  Don't know

**e. INSTRUCTION — GO TO ITEM 177a, PAGE 43.**

Notes

**URE INTERVIEWS — Continued**

**176a.** Housing size is important for analysis of other information from this survey.  
 How many square feet are there in the (house/apartment)?  
 Don't know — Ask item 176b

(Include basements and finished attics. Exclude unfinished attics, carports, and attached garages. Also exclude porches that are not protected from the elements.....)

(.....) Exclude the mobile home hitch.)

**b.** How many (stories/floors) are there in this (house/apartment)? (Include basements and finished attics.....)  
 (In apartments, floors refers only to the apartment itself.)

4610 \_\_\_\_\_ Number

**c. MARK OR ASK —**  
 Is the (house/apartment) a split level?  
 Yes  
 No

**d.** What is the length and width of each floor of the (house/apartment)? (Include basements and finished attics. Exclude unfinished attics, carports, and attached garages. Also exclude porches that are not protected from the elements.....)  
 (.....) Exclude the mobile home hitch.)  
 (Record dimensions of each room separately, if respondent is unable to give dimensions for the total floor size.)

Rectangles or squares	First (a)		Second (b)		Third (c)		Fourth (d)	
	Length	Width	Length	Width	Length	Width	Length	Width
Basement								
1st floor of unit								
2nd floor of unit								
3rd floor of unit								
4th floor of unit								

4620  Yes  
 No

4640 \_\_\_\_\_ Square feet

**e. SKETCH** (If enough information is available, draw sketch of sample unit below.)

OFFICE USE ONLY

4650 \_\_\_\_\_ Square feet

**f. INSTRUCTION — GO TO ITEM 177a, PAGE 43**

Notes

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

NEIGHBORHOOD QUALITY SUPPLEMENT	
<p><b>NOTE</b> — Ask all categories in item 177a before proceeding to item 177b.</p>	
<p><b>177a.</b> The following questions are concerned with specific aspects of your PRESENT neighborhood.</p> <p>Does the neighborhood have —</p> <p>(1) Street noise or heavy street traffic? <span style="float:right">5 <input type="checkbox"/> Yes 6 <input type="checkbox"/> No</span></p> <p>(2) Neighborhood crime? <span style="float:right">5 <input type="checkbox"/> Yes 6 <input type="checkbox"/> No</span></p> <p><b>NOTE</b> — If "Yes" was answered for (1) or (2) in item 177a, ask item 177b.</p>	<p><b>177b.</b> Does the (Condition) bother you?</p> <p>3 <input type="checkbox"/> Yes — Ask c → 4 <input type="checkbox"/> No</p> <p>3 <input type="checkbox"/> Yes — Ask c → 4 <input type="checkbox"/> No</p>
<p><b>177c.</b> Is it so objectionable that you would like to move from the neighborhood?</p> <p>5 <input type="checkbox"/> Yes 6 <input type="checkbox"/> No</p>	
<p><b>178a.</b> Is there public transportation for this area?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No — Skip to item 179a</p>	
<p><b>b.</b> Is it satisfactory?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Do not use</p>	
<p><b>c.</b> (Does anyone in the household/Do you) use public transportation at least once a week?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	
<p><b>178b.</b> Do you have satisfactory neighborhood shopping, that is, grocery stores or drug stores?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Don't know } Skip to item 180</p>	
<p><b>b.</b> Are any of these stores within one mile of here?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	
<p><b>180.</b> Check item (See Control Card items 11, 14, and 18.) (Mark first box that applies.)</p> <p><input type="checkbox"/> URE Interview — Go to Control Card item 8a  <input type="checkbox"/> No household member 16 years of age or less — Skip to item 183, page 44  <input type="checkbox"/> Household member 4 to 16 years of age — Ask item 181a  <input type="checkbox"/> Household members 3 years old or younger — Skip to item 181b</p>	
<p><b>181a.</b> (Does ... (Do the children) attend a public school or a private school?) (Mark all that apply.)</p> <p>1 <input type="checkbox"/> Public school (K-12)                  2 <input type="checkbox"/> Private school (K-12)                  3 <input type="checkbox"/> Other school (ungraded schools, special schools, preschools, early learning centers, etc.)                  4 <input type="checkbox"/> Does not attend school</p>	
<p><b>b.</b> Is the public elementary school that children living at this address (attend/would attend) satisfactory? (If more than one public elementary school, ask about the closest one to the sample unit.)</p> <p>1 <input type="checkbox"/> Yes — Skip to item 181d                  2 <input type="checkbox"/> No                  3 <input type="checkbox"/> Don't know — Skip to item 181d</p>	
<p><b>c.</b> Is it so unsatisfactory that you would like to move from the neighborhood?</p> <p>1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No</p>	
<p><b>d.</b> Is that public elementary school within one mile of here?</p> <p>1 <input type="checkbox"/> Yes                  2 <input type="checkbox"/> No</p>	
<p><b>182. WASHINGTON USE ONLY</b></p>	

NONRELATIVE INCOME	
<p><b>183.</b> Check item (See Control Card items 13 and 18.)  <input type="checkbox"/> Household contains people age 14+ NOT related to reference person — Ask item 184a  <input type="checkbox"/> All others — Go to Control Card item 9a</p>	
<p><b>184a.</b> Enter line number(s). I have a few questions that I would like to ask ... and ... (Names of nonrelatives). Are they here now?</p>	<p>Line number 4870</p> <p>1 <input type="checkbox"/> Yes — Skip to item 184c                  2 <input type="checkbox"/> No — Ask item 184b</p>
<p><b>b.</b> As I mentioned earlier, ... about housing costs compared to income. What is your estimate of ...'s total income before deductions in the last 12 months?</p>	<p>Line number 4880</p> <p>1 <input type="checkbox"/> Yes — Skip to item 184c                  2 <input type="checkbox"/> No — Ask item 184b</p>
<p><b>c.</b> (Introduce yourself, then say:)</p> <p>I have been asking ... a few questions about the neighborhood of ... the main housing problems today is the cost of housing compared to income. What was your income before deductions in the past 12 months?</p>	<p>Line number 4890</p> <p>1 <input type="checkbox"/> Yes — Skip to item 184c                  2 <input type="checkbox"/> No — Ask item 184b</p>
<p>Notes</p>	<p>Line number 4900</p> <p>1 <input type="checkbox"/> Yes — Skip to item 184c                  2 <input type="checkbox"/> No — Ask item 184b</p>

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

OBSERVATION ITEMS	
<p><b>185a.</b> How many stories are in the building, including the basement? (If split level, count greatest number of stories on top of each other.)</p> <p>4780 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 <input type="checkbox"/> 21 or more</p> <p>OR</p> <p><input type="checkbox"/> 21 or more</p>	<p>Stories in building (If 1-20)</p>
<p><b>b.</b> What is the condition of the light fixtures in the public halls?</p> <p>4790 <input type="checkbox"/> 1 No public halls</p> <p><input type="checkbox"/> 2 All in working order</p> <p><input type="checkbox"/> 3 Some in working order</p> <p><input type="checkbox"/> 4 None in working order</p> <p><input type="checkbox"/> 5 No light fixtures</p> <p><input type="checkbox"/> 6 Fixtures turned off, unable to determine if working, not obviously broken</p> <p>4800 <input type="checkbox"/> 7 No light fixtures</p> <p><input type="checkbox"/> 8 Some light fixtures</p> <p><input type="checkbox"/> 9 All light fixtures</p> <p><input type="checkbox"/> 10 Stories up or down to home</p> <p><input type="checkbox"/> 11 Same floor</p>	<p>Stories up or down to home</p>
<p><b>c.</b> How many stories are there from main entrance of building to main entrance of sample unit?</p> <p>4810 <input type="checkbox"/> 1 No elevator</p> <p><input type="checkbox"/> 2 At least one working elevator</p> <p><input type="checkbox"/> 3 All elevators not working</p>	<p>At least one working elevator</p>
<p><b>d.</b> Is there a passenger elevator on this floor?</p> <p>4820 <input type="checkbox"/> 1 No common stairways - Skip to item 185g</p> <p><input type="checkbox"/> 2 Yes</p> <p><input type="checkbox"/> 3 No</p>	<p>No common stairways - Skip to item 185g</p>
<p><b>e.</b> Are all railings on the common stairways firmly attached?</p> <p>4830 <input type="checkbox"/> 1 No stair railings</p> <p><input type="checkbox"/> 2 Yes</p> <p><input type="checkbox"/> 3 No</p>	<p>No stair railings</p>
<p><b>f.</b> What is the external condition of the building that contains the sample unit, as visible from front of building or roadway? (Mark all that apply.)</p> <p>4840 <input type="checkbox"/> 1 Seeping roof</p> <p><input type="checkbox"/> 2 Missing roofing material</p> <p><input type="checkbox"/> 3 Hole in roof</p> <p><input type="checkbox"/> 4 Could not see roof</p> <p><input type="checkbox"/> 5 Missing bricks, siding, or other outside wall material</p> <p><input type="checkbox"/> 6 Sloping outside walls</p> <p><input type="checkbox"/> 7 Boarded up window(s)</p> <p><input type="checkbox"/> 8 Broken window(s)</p> <p><input type="checkbox"/> 9 Bars on window(s)</p> <p><input type="checkbox"/> 10 Foundation crumbling or has open crack or hole</p> <p><input type="checkbox"/> 11 Could not see foundation</p> <p>OR</p> <p><input type="checkbox"/> 12 Observed, but no listed conditions for roofs, walls, windows, or foundations</p> <p>OR</p> <p><input type="checkbox"/> 13 Unable to observe</p>	<p>Roof</p> <p>Walls</p> <p>Windows</p> <p>Foundation</p>
<p><b>g.</b> How many mobile homes are in the group? (Including sample mobile home)</p> <p>4850 <input type="checkbox"/> 1 0</p> <p><input type="checkbox"/> 2 1</p> <p><input type="checkbox"/> 3 2</p> <p><input type="checkbox"/> 4 3</p> <p><input type="checkbox"/> 5 4</p> <p><input type="checkbox"/> 6 5</p> <p><input type="checkbox"/> 7 6</p> <p><input type="checkbox"/> 8 7</p> <p><input type="checkbox"/> 9 8</p> <p><input type="checkbox"/> 10 9</p> <p><input type="checkbox"/> 11 10</p> <p><input type="checkbox"/> 12 11</p> <p><input type="checkbox"/> 13 12</p> <p><input type="checkbox"/> 14 13</p> <p><input type="checkbox"/> 15 14</p> <p><input type="checkbox"/> 16 15</p> <p><input type="checkbox"/> 17 16</p> <p><input type="checkbox"/> 18 17</p> <p><input type="checkbox"/> 19 18</p> <p><input type="checkbox"/> 20 19</p> <p><input type="checkbox"/> 21 20</p> <p><input type="checkbox"/> 22 21</p> <p><input type="checkbox"/> 23 22</p> <p><input type="checkbox"/> 24 23</p> <p><input type="checkbox"/> 25 24</p> <p><input type="checkbox"/> 26 25</p> <p><input type="checkbox"/> 27 26</p> <p><input type="checkbox"/> 28 27</p> <p><input type="checkbox"/> 29 28</p> <p><input type="checkbox"/> 30 29</p> <p><input type="checkbox"/> 31 30</p> <p><input type="checkbox"/> 32 31</p> <p><input type="checkbox"/> 33 32</p> <p><input type="checkbox"/> 34 33</p> <p><input type="checkbox"/> 35 34</p> <p><input type="checkbox"/> 36 35</p> <p><input type="checkbox"/> 37 36</p> <p><input type="checkbox"/> 38 37</p> <p><input type="checkbox"/> 39 38</p> <p><input type="checkbox"/> 40 39</p> <p><input type="checkbox"/> 41 40</p> <p><input type="checkbox"/> 42 41</p> <p><input type="checkbox"/> 43 42</p> <p><input type="checkbox"/> 44 43</p> <p><input type="checkbox"/> 45 44</p> <p><input type="checkbox"/> 46 45</p> <p><input type="checkbox"/> 47 46</p> <p><input type="checkbox"/> 48 47</p> <p><input type="checkbox"/> 49 48</p> <p><input type="checkbox"/> 50 49</p> <p><input type="checkbox"/> 51 50</p> <p><input type="checkbox"/> 52 51</p> <p><input type="checkbox"/> 53 52</p> <p><input type="checkbox"/> 54 53</p> <p><input type="checkbox"/> 55 54</p> <p><input type="checkbox"/> 56 55</p> <p><input type="checkbox"/> 57 56</p> <p><input type="checkbox"/> 58 57</p> <p><input type="checkbox"/> 59 58</p> <p><input type="checkbox"/> 60 59</p> <p><input type="checkbox"/> 61 60</p> <p><input type="checkbox"/> 62 61</p> <p><input type="checkbox"/> 63 62</p> <p><input type="checkbox"/> 64 63</p> <p><input type="checkbox"/> 65 64</p> <p><input type="checkbox"/> 66 65</p> <p><input type="checkbox"/> 67 66</p> <p><input type="checkbox"/> 68 67</p> <p><input type="checkbox"/> 69 68</p> <p><input type="checkbox"/> 70 69</p> <p><input type="checkbox"/> 71 70</p> <p><input type="checkbox"/> 72 71</p> <p><input type="checkbox"/> 73 72</p> <p><input type="checkbox"/> 74 73</p> <p><input type="checkbox"/> 75 74</p> <p><input type="checkbox"/> 76 75</p> <p><input type="checkbox"/> 77 76</p> <p><input type="checkbox"/> 78 77</p> <p><input type="checkbox"/> 79 78</p> <p><input type="checkbox"/> 80 79</p> <p><input type="checkbox"/> 81 80</p> <p><input type="checkbox"/> 82 81</p> <p><input type="checkbox"/> 83 82</p> <p><input type="checkbox"/> 84 83</p> <p><input type="checkbox"/> 85 84</p> <p><input type="checkbox"/> 86 85</p> <p><input type="checkbox"/> 87 86</p> <p><input type="checkbox"/> 88 87</p> <p><input type="checkbox"/> 89 88</p> <p><input type="checkbox"/> 90 89</p> <p><input type="checkbox"/> 91 90</p> <p><input type="checkbox"/> 92 91</p> <p><input type="checkbox"/> 93 92</p> <p><input type="checkbox"/> 94 93</p> <p><input type="checkbox"/> 95 94</p> <p><input type="checkbox"/> 96 95</p> <p><input type="checkbox"/> 97 96</p> <p><input type="checkbox"/> 98 97</p> <p><input type="checkbox"/> 99 98</p> <p><input type="checkbox"/> 100 99</p>	<p>Exact number (If 1-20)</p> <p>Skip to item 185i</p>
<p><b>h.</b> (1) Are there any mobile homes on this property used by this household as overflow sleeping quarters, storage, or any other uses, that do not meet the housing unit definition? (2) Are there any mobile homes on this property used by this household as overflow sleeping quarters, storage, or any other uses, that do not meet the housing unit definition?</p> <p>4860 <input type="checkbox"/> 1 No</p> <p><input type="checkbox"/> 2 One-unit building - detached</p> <p><input type="checkbox"/> 3 Mobile home - one-unit</p> <p><input type="checkbox"/> 4 Two-or-more-unit building</p> <p><input type="checkbox"/> 5 Mobile home - two-or-more units</p>	<p>Skip to item 185i</p> <p>Skip to item 185j</p>
<p><b>i.</b> How would you classify the structure that contains the sample unit?</p> <p>4870 <input type="checkbox"/> 1 Single-family, detached house(s)</p> <p><input type="checkbox"/> 2 Single-family, attached house(s) or low-rise (1-3 story) residential multi-unit building(s)</p> <p><input type="checkbox"/> 3 Mid-rise (4-6 story) residential multi-unit building(s)</p> <p><input type="checkbox"/> 4 High-rise (7+ story) residential multi-unit building(s)</p> <p><input type="checkbox"/> 5 Mobile home(s) (exclude campers)</p> <p><input type="checkbox"/> 6 Commercial, institutional, industrial building(s)</p> <p><input type="checkbox"/> 7 Residential parking lot(s)</p> <p><input type="checkbox"/> 8 Body of water</p> <p><input type="checkbox"/> 9 Open space, park, woods, farm, or ranch</p> <p><input type="checkbox"/> 10 4+ lane highway, railroad, or airport</p> <p><input type="checkbox"/> 11 Other - Specify <u>          </u></p> <p>OR</p> <p><input type="checkbox"/> 12 Could not observe</p>	<p>Single-family, detached house(s)</p> <p>Single-family, attached house(s) or low-rise (1-3 story) residential multi-unit building(s)</p> <p>Mid-rise (4-6 story) residential multi-unit building(s)</p> <p>High-rise (7+ story) residential multi-unit building(s)</p> <p>Mobile home(s) (exclude campers)</p> <p>Commercial, institutional, industrial building(s)</p> <p>Residential parking lot(s)</p> <p>Body of water</p> <p>Open space, park, woods, farm, or ranch</p> <p>4+ lane highway, railroad, or airport</p> <p>Other - Specify <u>          </u></p>
<p><b>j.</b> How many living quarters are in the structure that contains the sample unit? (Include the sample unit)</p> <p>4875 <input type="checkbox"/> 1 0</p> <p><input type="checkbox"/> 2 1</p> <p><input type="checkbox"/> 3 2</p> <p><input type="checkbox"/> 4 3</p> <p><input type="checkbox"/> 5 4</p> <p><input type="checkbox"/> 6 5</p> <p><input type="checkbox"/> 7 6</p> <p><input type="checkbox"/> 8 7</p> <p><input type="checkbox"/> 9 8</p> <p><input type="checkbox"/> 10 9</p> <p><input type="checkbox"/> 11 10</p> <p><input type="checkbox"/> 12 11</p> <p><input type="checkbox"/> 13 12</p> <p><input type="checkbox"/> 14 13</p> <p><input type="checkbox"/> 15 14</p> <p><input type="checkbox"/> 16 15</p> <p><input type="checkbox"/> 17 16</p> <p><input type="checkbox"/> 18 17</p> <p><input type="checkbox"/> 19 18</p> <p><input type="checkbox"/> 20 19</p> <p><input type="checkbox"/> 21 20</p> <p><input type="checkbox"/> 22 21</p> <p><input type="checkbox"/> 23 22</p> <p><input type="checkbox"/> 24 23</p> <p><input type="checkbox"/> 25 24</p> <p><input type="checkbox"/> 26 25</p> <p><input type="checkbox"/> 27 26</p> <p><input type="checkbox"/> 28 27</p> <p><input type="checkbox"/> 29 28</p> <p><input type="checkbox"/> 30 29</p> <p><input type="checkbox"/> 31 30</p> <p><input type="checkbox"/> 32 31</p> <p><input type="checkbox"/> 33 32</p> <p><input type="checkbox"/> 34 33</p> <p><input type="checkbox"/> 35 34</p> <p><input type="checkbox"/> 36 35</p> <p><input type="checkbox"/> 37 36</p> <p><input type="checkbox"/> 38 37</p> <p><input type="checkbox"/> 39 38</p> <p><input type="checkbox"/> 40 39</p> <p><input type="checkbox"/> 41 40</p> <p><input type="checkbox"/> 42 41</p> <p><input type="checkbox"/> 43 42</p> <p><input type="checkbox"/> 44 43</p> <p><input type="checkbox"/> 45 44</p> <p><input type="checkbox"/> 46 45</p> <p><input type="checkbox"/> 47 46</p> <p><input type="checkbox"/> 48 47</p> <p><input type="checkbox"/> 49 48</p> <p><input type="checkbox"/> 50 49</p> <p><input type="checkbox"/> 51 50</p> <p><input type="checkbox"/> 52 51</p> <p><input type="checkbox"/> 53 52</p> <p><input type="checkbox"/> 54 53</p> <p><input type="checkbox"/> 55 54</p> <p><input type="checkbox"/> 56 55</p> <p><input type="checkbox"/> 57 56</p> <p><input type="checkbox"/> 58 57</p> <p><input type="checkbox"/> 59 58</p> <p><input type="checkbox"/> 60 59</p> <p><input type="checkbox"/> 61 60</p> <p><input type="checkbox"/> 62 61</p> <p><input type="checkbox"/> 63 62</p> <p><input type="checkbox"/> 64 63</p> <p><input type="checkbox"/> 65 64</p> <p><input type="checkbox"/> 66 65</p> <p><input type="checkbox"/> 67 66</p> <p><input type="checkbox"/> 68 67</p> <p><input type="checkbox"/> 69 68</p> <p><input type="checkbox"/> 70 69</p> <p><input type="checkbox"/> 71 70</p> <p><input type="checkbox"/> 72 71</p> <p><input type="checkbox"/> 73 72</p> <p><input type="checkbox"/> 74 73</p> <p><input type="checkbox"/> 75 74</p> <p><input type="checkbox"/> 76 75</p> <p><input type="checkbox"/> 77 76</p> <p><input type="checkbox"/> 78 77</p> <p><input type="checkbox"/> 79 78</p> <p><input type="checkbox"/> 80 79</p> <p><input type="checkbox"/> 81 80</p> <p><input type="checkbox"/> 82 81</p> <p><input type="checkbox"/> 83 82</p> <p><input type="checkbox"/> 84 83</p> <p><input type="checkbox"/> 85 84</p> <p><input type="checkbox"/> 86 85</p> <p><input type="checkbox"/> 87 86</p> <p><input type="checkbox"/> 88 87</p> <p><input type="checkbox"/> 89 88</p> <p><input type="checkbox"/> 90 89</p> <p><input type="checkbox"/> 91 90</p> <p><input type="checkbox"/> 92 91</p> <p><input type="checkbox"/> 93 92</p> <p><input type="checkbox"/> 94 93</p> <p><input type="checkbox"/> 95 94</p> <p><input type="checkbox"/> 96 95</p> <p><input type="checkbox"/> 97 96</p> <p><input type="checkbox"/> 98 97</p> <p><input type="checkbox"/> 99 98</p> <p><input type="checkbox"/> 100 99</p>	<p>Number of living quarters</p>

OBSERVATION ITEMS - Continued	
<p><b>186a.</b> Which of these are within 300 feet of building containing the sample unit? (Exclude this building.) (Mark all that apply.)</p> <p>4890 <input type="checkbox"/> 1 Single-family, detached house(s)</p> <p><input type="checkbox"/> 2 Single-family, attached house(s) or low-rise (1-3 story) residential multi-unit building(s)</p> <p><input type="checkbox"/> 3 Mid-rise (4-6 story) residential multi-unit building(s)</p> <p><input type="checkbox"/> 4 High-rise (7+ story) residential multi-unit building(s)</p> <p><input type="checkbox"/> 5 Mobile home(s) (exclude campers)</p> <p><input type="checkbox"/> 6 Commercial, institutional, industrial building(s)</p> <p><input type="checkbox"/> 7 Residential parking lot(s)</p> <p><input type="checkbox"/> 8 Body of water</p> <p><input type="checkbox"/> 9 Open space, park, woods, farm, or ranch</p> <p><input type="checkbox"/> 10 4+ lane highway, railroad, or airport</p> <p><input type="checkbox"/> 11 Other - Specify <u>          </u></p> <p>OR</p> <p><input type="checkbox"/> 12 Could not observe</p>	<p>Single-family, detached house(s)</p> <p>Single-family, attached house(s) or low-rise (1-3 story) residential multi-unit building(s)</p> <p>Mid-rise (4-6 story) residential multi-unit building(s)</p> <p>High-rise (7+ story) residential multi-unit building(s)</p> <p>Mobile home(s) (exclude campers)</p> <p>Commercial, institutional, industrial building(s)</p> <p>Residential parking lot(s)</p> <p>Body of water</p> <p>Open space, park, woods, farm, or ranch</p> <p>4+ lane highway, railroad, or airport</p> <p>Other - Specify <u>          </u></p>
<p><b>b.</b> What is the predominant age of residential buildings within 300 feet? (Exclude this building.)</p> <p>4920 <input type="checkbox"/> 1 Older than sample unit</p> <p><input type="checkbox"/> 2 About the same</p> <p><input type="checkbox"/> 3 Newer than sample unit</p> <p><input type="checkbox"/> 4 Very mixed</p> <p><input type="checkbox"/> 5 No other residential buildings</p>	<p>Older than sample unit</p> <p>About the same</p> <p>Newer than sample unit</p> <p>Very mixed</p> <p>No other residential buildings</p>
<p><b>c.</b> Are any buildings vandalized, or interior exposed to the elements? (Exclude this building.)</p> <p>4930 <input type="checkbox"/> 1 Yes, only one vandalized or exposed</p> <p><input type="checkbox"/> 2 Yes, more than one</p> <p><input type="checkbox"/> 3 None vandalized or exposed</p> <p><input type="checkbox"/> 4 No other buildings within 300 feet - Skip to item 186e</p>	<p>Yes, only one vandalized or exposed</p> <p>Yes, more than one</p> <p>None vandalized or exposed</p> <p>No other buildings within 300 feet - Skip to item 186e</p>
<p><b>d.</b> Are there bars on windows of buildings in area? (Exclude this building.)</p> <p>4940 <input type="checkbox"/> 1 Yes, only one building with bars</p> <p><input type="checkbox"/> 2 Yes, more than one</p> <p><input type="checkbox"/> 3 No bars on windows</p>	<p>Yes, only one building with bars</p> <p>Yes, more than one</p> <p>No bars on windows</p>
<p><b>e.</b> What is the condition of streets?</p> <p>4950 <input type="checkbox"/> 1 Major repairs needed</p> <p><input type="checkbox"/> 2 Minor repairs needed</p> <p><input type="checkbox"/> 3 No repairs needed</p> <p><input type="checkbox"/> 4 No streets within 300 feet</p>	<p>Major repairs needed</p> <p>Minor repairs needed</p> <p>No repairs needed</p> <p>No streets within 300 feet</p>
<p><b>f.</b> Is there trash, litter, or junk in streets, roads, empty lots, or on any properties? (Include this building.)</p> <p>4960 <input type="checkbox"/> 1 Major accumulation</p> <p><input type="checkbox"/> 2 Minor accumulation</p> <p><input type="checkbox"/> 3 None</p>	<p>Major accumulation</p> <p>Minor accumulation</p> <p>None</p>
<p style="text-align: center;"><b>INTERVIEW COMPLETED</b></p>	
<p><b>187.</b> Suggestions/Problems (InterComm or S*M*A*R*T suggestion form filled)</p> <p>4965 <input type="checkbox"/> 1</p> <p><input type="checkbox"/> 2</p> <p><input type="checkbox"/> 3</p>	<p>Questions/Control Card suggestions or problems specific to this interview - Describe on appropriate form</p> <p>General questionnaire/Control Card suggestions or problems - Describe on appropriate form</p> <p>Procedural suggestions - Describe on appropriate form</p>
<p><b>188.</b> Item number or item ranges involved in suggestion/problem</p> <p>4971 <input type="checkbox"/> 1</p> <p>4973 <input type="checkbox"/> 1</p> <p>4975 <input type="checkbox"/> 1</p>	<p>Item number or item ranges involved in suggestion/problem</p>

Facsimile of the American Housing Survey Questionnaire: 1990—Continued

Notes

U.S. GOVERNMENT PRINTING OFFICE: 1990-74-034/00398

FORM HUD-92 (8-1-89)

Notes

FORM HUD-92 (8-1-89)



Facsimile of the American Housing Survey Control Card: 1990

**FORM 2**

**1** PSU Segment Serial Panel of Check or Light

**2** ADDRESS (Sheet \_\_\_\_\_, Line \_\_\_\_\_)

**3a** STATE ZIP CODE

**3b** OFFICE USE ONLY (Make corrections to address above.)

**3c** Special place name

**4** STATUS OF CONTROL NUMBER

**5** CLASSIFICATION OF LIVING QUARTERS

**6** CHECK ITEM

**7** AREA SEGMENTS ONLY

**8** INTRODUCTION

**9** OCCUPIED HOUSEHOLD: Hello, I am ... from the United States Bureau of the Census. Here is my identification card. We are taking a survey of housing in the United States. I have some questions about (Read address). Here is a letter which provides some information about the survey.

**10** VACANT INTERVIEW: Hello, I am ... from the United States Bureau of the Census. Here is my identification card. We are taking a survey of housing in the United States. I have some questions about (Read address). Here is a letter which provides some information about the survey.

**11** EXTRA UNIT

**12** SEGMENT

**13** INTERVIEW STATUS

**14** DATE COMPLETED

**15** INTERVIEWER CODE

**16** LINE NUMBER OF RESPONDENT

**17** OFFICE USE ONLY

**18** AREA CODE

**19** NUMBER

**20** TIME

**21** REG. ARE INTERVIEW

**22** NONINTERVIEW

**23** VACANT INTERVIEW

**24** TALLY

**25** SURVEY YEAR

**26** ENDING TIME

**27** NO. OF VISITS

**28** HOUR

**29** MIN.

**30** PERCENT

**31** TELEPHONE

Facsimile of the American Housing Survey Control Card: 1990—Continued

Page 2

PGM 3	10	11	12	13	14	15a	16	17	18	19	20	21	22	23	24	25	26	27	
	<b>HOUSEHOLD ROSTER SUBSEQUENT INTERVIEW OF HOUSEHOLD</b> — Skip to item 12b below.	<b>FIRST INTERVIEW OF HOUSEHOLD</b> — Ask item 11.	<b>RELATIONSHIP TO REFERENCE PERSON</b> — If necessary, ask: What is ...'s relationship to (reference person)?	<b>HOUSEHOLD NUMBER</b> — If "No," use ...	<b>OWNER/RENTER</b> — In whose name is this home (owned/rented)?	<b>BIRTH DATE/AGE</b> — What is ...'s date of birth?	<b>SEX</b> — Ask if necessary. Is ... male or female?	<b>RACE</b> — What is the race of each person in this household?	<b>ORIGIN</b> — Is anyone living here Hispanic or Spanish American?	<b>MARITAL STATUS</b> — Is ... now ...	<b>EDUCATION</b> — What is the highest grade or year of regular school completed?	<b>MOBILITY</b> — When did ... move to this (home)?	<b>CHANGES IN HOUSEHOLD COMPOSITION</b>						
	Line number	Enter line number of Parent Listed	Enter two digit month, day, and year. Examples: 01-20-63	Circle 1 for Male, 2 for Female	1 White, 2 Black, 3 American Indian, 4 Asian or Pacific Islander, 5 Other	Yes No	1 Married, 2 Widowed, 3 Divorced, 4 Separated, OR has been married?	00 Never attended or preschool or kindergarten only, 01-12 1st through 12th grade, 21-24 1st-4th year of college, 25 1 year of graduate school, 26 2 or more years of graduate school	Enter two digits for month, day, and year	Enter two digits for Survey year	Enter two digits for Survey year	Enter two digits for Line No.	Enter status and date discovered, for example: Added 8/85, Left 8/85, Returned 8/85, Deceased 8/85						

PGM 3	12a	12b	12c	12d	15b	15c	15d	15e	15f	15g	15h	15i	15j	15k	15l	15m	15n	15o	15p	15q	15r	15s	15t	15u	15v	15w	15x	15y	15z	
	<b>HOUSEHOLD ROSTER COVERAGE</b> — I have listed ... (read names from item 11). Are all of these persons still living or staying here?	<b>FIRST INTERVIEW OF HOUSEHOLD</b> — anyone who usually lives here but is not included in the household?	<b>SUBSEQUENT INTERVIEWS OF HOUSEHOLD</b> — Who no longer lives here? For each person who has left the household, line through line number in item 10; fill in item 27; then ask item 12d.	<b>IS anyone else living or staying here, including ...</b>	Unit is: NOT in a special place — GO to item 15b. In a special place — GO to item 16.	Do all the persons in this household live or eat together?	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.	Ask if not apparent.
	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year	Survey year

FORM AHS-51 (8-20-87)

GO TO ITEM 12

GO TO ITEM 15a

GO TO ITEM 15b

GO TO ITEM 15c

GO TO ITEM 15d

GO TO ITEM 15e

GO TO ITEM 15f

GO TO ITEM 15g

GO TO ITEM 15h

GO TO ITEM 15i

GO TO ITEM 15j

GO TO ITEM 15k

GO TO ITEM 15l

GO TO ITEM 15m

GO TO ITEM 15n

GO TO ITEM 15o

GO TO ITEM 15p

GO TO ITEM 15q

GO TO ITEM 15r

GO TO ITEM 15s

GO TO ITEM 15t

GO TO ITEM 15u

GO TO ITEM 15v

GO TO ITEM 15w

GO TO ITEM 15x

GO TO ITEM 15y

GO TO ITEM 15z

Facsimile of the American Housing Survey Control Card: 1990—Continued

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NOTES

FORM AHS-61 (8-20-87)

Facsimile of the American Housing Survey Control Card: 1990—Continued

**2.8** OWNER/AGENT TRANSCRIPTION — If the sample unit is not owner-occupied, transcribe the name, address, and telephone number of the owner/agent from the questionnaire.

**2.9** For Vacant Interviews, enter respondent information below.

Survey Year	Name	Address (Number, street, city, state, ZIP Code)	Area code	Telephone Number	Survey Year	Name	Address (Number, street, city, state, ZIP Code)
1					1		
2					2		
3					3		
4					4		
5					5		

NOTES

**TABLE X — LIVING QUARTERS DETERMINATION AT LISTED ADDRESS**

**ADDRESS OF ADDITIONAL LIVING QUARTERS**  
If already listed, enter sheet and line number below and stop Table X.  
Otherwise, enter basic address and unit address, if any, OR description or location.

LOCATION OF UNIT	SEPARATENESS AND ACCESS	CLASSIFICATION	UNIT SEGMENTS	AREA SEGMENTS	SPECIAL PLACE SEGMENTS	PERMIT SEGMENTS	
(1) Sheet _____ Line _____	(2) Is this unit in a special place? <input type="checkbox"/> Yes — SKIP to column (5) and mark according to Table A in Part C of manual. <input type="checkbox"/> No	(3) Do the occupants or intended occupants of (Address in column (1)) live and eat separately from persons on the property? <input type="checkbox"/> Yes <input type="checkbox"/> No — Mark "N" box in column (5)	(4) Does (Address in column (1)) have direct access either from the outside or through a common hall? <input type="checkbox"/> Yes — Mark "HU" box in column (5) <input type="checkbox"/> No — Mark "N" box in column (5)	(5) N — Not a separate unit (include on this control card) HU — Separate unit. Do not include on this control card. Do not use appropriate segment type column for interviewing instructions. OT — Separate unit. Do not include on this control card. Do not use appropriate segment type column for interviewing instructions.	(6) Is this unit within the specific address (basic plus unit if any), or within the same space of the original sample unit? <input type="checkbox"/> Yes — Interview as an EXTRA unit <input type="checkbox"/> No — Do not interview	(7) Is this unit within the segment boundaries? <input type="checkbox"/> Yes — Interview as an EXTRA unit <input type="checkbox"/> No — Do not interview	(8) Is this unit within the specific address (basic plus unit if any) of the original sample unit? <input type="checkbox"/> Yes — Interview as an EXTRA unit <input type="checkbox"/> No — Do not interview
(1) Sheet _____ Line _____	(2) Is this unit in a special place? <input type="checkbox"/> Yes — SKIP to column (5) and mark according to Table A in Part C of manual. <input type="checkbox"/> No	(3) Do the occupants or intended occupants of (Address in column (1)) live and eat separately from persons on the property? <input type="checkbox"/> Yes <input type="checkbox"/> No — Mark "N" box in column (5)	(4) Does (Address in column (1)) have direct access either from the outside or through a common hall? <input type="checkbox"/> Yes — Mark "HU" box in column (5) <input type="checkbox"/> No — Mark "N" box in column (5)	(5) N — Not a separate unit (include on this control card) HU — Separate unit. Do not include on this control card. Do not use appropriate segment type column for interviewing instructions. OT — Separate unit. Do not include on this control card. Do not use appropriate segment type column for interviewing instructions.	(6) Is this unit within the specific address (basic plus unit if any), or within the same space of the original sample unit? <input type="checkbox"/> Yes — Interview as an EXTRA unit <input type="checkbox"/> No — Do not interview	(7) Is this unit within the segment boundaries? <input type="checkbox"/> Yes — Interview as an EXTRA unit <input type="checkbox"/> No — Do not interview	(8) Is this unit within the specific address (basic plus unit if any) of the original sample unit? <input type="checkbox"/> Yes — Interview as an EXTRA unit <input type="checkbox"/> No — Do not interview

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### SAMPLE DESIGN

**Introduction.** The estimates for each of the 11 metropolitan areas in this report series (H170/90) are based on data collected from the 1990 American Housing Survey Metropolitan Sample (AHS-MS), which was conducted by the Bureau of the Census acting as collection agent for the Department of Housing and Urban Development.

The sample areas covered for metropolitan areas that remained in the AHS sample after survey year 1983 are consistent with the 1983 Office of Management and Budget (OMB) definitions of a metropolitan statistical area (MSA), consolidated metropolitan statistical area (CMSA), or primary metropolitan statistical area (PMSA). In some instances, a given metropolitan area is a combination of primary metropolitan statistical areas and will be referred to as PMSA's. In addition to adding new areas to some metropolitan samples in order to comply with the 1983 definitional changes, some new metropolitan areas have been added. Thus, each of the 1990 metropolitan areas will fall into one of two categories:

- a. Areas of the same geographic area as defined for surveys prior to 1984 (i.e., areas in which the 1970 OMB definition of a standard metropolitan statistical area is the same as the 1983 MSA, PMSA, or CMSA definition, 1970-based area)—Anaheim-Santa Ana, CA PMSA; Cincinnati, OH-KY-IN PMSA; and Riverside-San Bernardino-Ontario, CA PMSA.
- b. Areas consisting of new area in addition to the 1970-based area—Denver, CO CMSA; Kansas City, MO-KS CMSA; Miami-Ft. Lauderdale, FL CMSA; New Orleans, LA MSA; Pittsburgh, PA CMSA; Portland, OR-WA CMSA; Rochester, NY MSA; and San Antonio, TX MSA.

The metropolitan areas selected for the 1990 AHS-MS are interviewed on a rotating basis once every 4 years. Initially, each metropolitan area had an expected sample

size of 4,250 housing units, uniformly distributed throughout nine panels (panels 4 through 12). For all of the 1990 MSA's, the interviewing was conducted from June 1990 through December 1990. Previously reduced cases from panels 4 and 5 were reinstated.

In this metropolitan area, 4,759 AHS-MS housing units were eligible for interview. Of these sample housing units, 416 interviews were not obtained, because for occupied sample units, the occupants refused to be interviewed, were not at home after repeated visits, or were unavailable for some other reason; or, for vacant units, no informed respondent could be found after repeated visits. In addition to the AHS-MS housing units eligible for interview, 158 units were visited but were not eligible for interview because they were condemned, unfit, demolished, converted to group quarters use, etc.

**Designation of AHS-MS sample housing units for the 1990 survey.** The sample housing units designated to be interviewed in the 1990 survey consisted of the following categories, which are described in the following sections:

Housing units which were in the 1970-based area include the following:

- a. All sample housing units that were interviewed in the previous survey. This sample includes housing units that were selected as part of the 1976-1981 Coverage Improvement Program. These Coverage Improvement cases represented most of the housing units that, until these procedures were implemented, did not have a chance of selection.
- b. All sample housing units that were type A noninterviews (i.e., units eligible to be interviewed) or type B noninterviews (i.e., units not eligible for interview at the time of the survey but which could become eligible in the future) in the previous survey. (For a list of reasons for type A noninterviews, see the facsimile of the 1990 AHS questionnaire, page A-25).
- c. All sample housing units selected from a listing of new residential construction building permits issued since the previous survey. This sample represented the housing units built in permit-issuing areas since the previous survey.
- d. All sample housing units that were added since the previous survey in sample segments from the nonpermit universe. This sample represented additions to the housing inventory since the previous survey in nonpermit-issuing areas.
- e. In the 1970-based areas of the Denver, CO CMSA; Kansas City, MO-KS CMSA; New Orleans, LA MSA; Portland, OR-WA CMSA; Rochester, NY MSA; and San Antonio, TX MSA, all sample housing units selected from the 1980 Census of Population and Housing.
- f. All sample housing units in panels 4 and 5 that were reinstated in sample in 1990. This includes units that had been dropped from sample as part of the 1986 reduction.

Housing units within new areas added to the metropolitan area in 1980 and for metropolitan areas that were in sample for the first time in 1986 (1980-based area):

- a. All housing units selected from the 1980 Census of Population and Housing.
- b. All housing units that were selected from a list of new residential construction building permits. This sample represented the housing units built in permit-issuing areas since the 1980 census.
- c. All sample housing units that were added to sample segments in the nonpermit universe. This sample represents additions to the housing inventory in nonpermit-issuing areas since the 1980 census.
- d. Sample housing units from panels 4 and 5 that were reinstated in sample in 1990.

The following table shows the percent of the AHS-MS old construction sample that is 1970-based and 1980-based for each metropolitan area:

Metropolitan area	Percent 1970-based area	Percent 1980-based area
Anaheim-Santa Ana, CA PMSA .....	100.0	0.0
Cincinnati, OH-KY-IN PMSA .....	100.0	0.0
Denver, CO CMSA .....	97.6	2.4
Kansas City, MO-KS CMSA .....	91.0	9.0
Miami-Ft. Lauderdale, FL CMSA .....	63.3	36.7
New Orleans, LA MSA .....	95.2	4.8
Pittsburgh, PA CMSA .....	94.3	5.7
Portland, OR-WA CMSA .....	94.8	5.2
Rochester, NY MSA .....	91.1	8.9
San Antonio, TX MSA .....	95.4	4.6
Riverside-San Bernardino-Ontario, CA PMSA ...	100.0	0.0

**1990 AHS-MS original sample selection for the 1970-based area sample of the metropolitan areas.** The 1990 AHS-MS original sample for the 1970-based area of the metropolitan areas was selected from two frames:

- a. Housing units enumerated in the 1970 Census of Population and Housing in areas under the jurisdiction of permit-issuing offices (the 1970-based permit-issuing universe).
- b. Housing units constructed in permit-issuing areas since the 1970 census (the 1970-based new construction universe).

In addition, the sample for those metropolitan areas that were not 100-percent permit-issuing in 1970 included a sample selected from a third frame: housing units located in areas not under the jurisdiction of permit-issuing offices (the 1970-based nonpermit universe).

In 1970, the Anaheim-Santa Ana, CA PMSA; Miami-Ft. Lauderdale, FL CMSA; and Riverside-San Bernardino-Ontario, CA PMSA, were the only metropolitan areas that were 100-percent permit-issuing.

Sampling operations, described in the following paragraphs, were performed separately within the central city and balance, using the 1970 OMB definitions of the central city of each metropolitan area for each of the sample frames. The overall sampling rate used to select the sample for each metropolitan area was determined by the size of the sample. Each metropolitan area had a sampling rate about the same for the central city and the balance, since the sample was distributed proportionately between the two, according to the corresponding distribution of total housing units.

*Sample from the 1970-based permit-issuing universe.* The major portion of the sample in each of the metropolitan areas was selected from a file that represented the 20-percent sample of housing units enumerated in permit-issuing areas of the metropolitan areas during the 1970 Census of Population and Housing. This file contained records for occupied housing units, vacant housing units, and housing units in certain special places or group quarters. Sampling operations were done separately for the special place and group quarters records and for the occupied and vacant housing unit records. Before the sample was selected from the occupied and vacant housing unit records, the occupied records were stratified by race of the head of household (nonBlack/Black), and the vacant records were stratified into four categories pertaining to the value or rent associated with the vacant housing units. The occupied housing unit records were further stratified so that each unit was assigned to one of 50 strata according to its tenure (owner/renter), family size, and family income category as illustrated by the following table:

Family income	Tenure									
	Owner family size					Renter family size				
	1	2	3	4	5+	1	2	3	4	5+
Under \$3,000 .....										
\$3,000 to \$5,999 .....										
\$6,000 to \$9,999 .....										
\$10,000 to \$14,999 .....										
\$15,000 and over .....										

Thus, the occupied housing unit records from the permit-issuing universe were assigned to one of 100 strata for either the central city or for the balance, and the vacant housing unit records were assigned to one of the four vacant strata for either the central city or for the balance of the metropolitan areas. A sample selection procedure was then instituted that would produce one-half of the desired sample. However, whenever a record was selected to be in sample, the housing unit record adjacent to it on the file

was also selected to be in sample, thereby insuring the necessary designated sample size.

Before the sample was selected from the group quarters and special place records, the records were stratified by census tract and census enumeration district (ED) within the central city and within the balance of the metropolitan areas. A sample of special place records was then selected by a procedure that produced one-quarter of the desired sample size. However, at the time of the survey, the housing units at each of the special places were listed and subsampled at a rate that produced an expected four sample units, thereby insuring the necessary designated sample size.

*Sample from the 1970-based new construction universe.* The second frame from which the metropolitan area sample was selected was a list of new construction building permits issued since 1970 (i.e., the new construction universe). The sample selection from the list of new construction building permits was an independent operation within the metropolitan area. Under clerically selected procedures, the list of permits was stratified by the date the permits were issued, and clusters of an expected four (usually adjacent) housing units were formed. These clusters were then sampled for inclusion at the overall sampling rate. In February 1984, the new construction sampling operation for the 1970-based and 1980-based areas were combined into one computerized system.

The universe sampled in the computerized system will be referred to in the estimation section as the 1980-based permit universe. Under these procedures, prior to sample selection, the list of permits was stratified by the date of issue, State, 1980 central city and balance, county or minor civil division, and permit office. Clusters of an expected four (usually adjacent) housing units were formed. These clusters were then sampled for inclusion at twice the overall sampling rate. The housing units within each of the clusters were then subsampled so that two of the four housing units originally selected were kept in sample.

*Sample from the 1970-based nonpermit universe.* For those metropolitan areas that were not 100-percent permit-issuing, the remainder of the AHS-MS sample was selected from a frame consisting of areas not under the jurisdiction of permit-issuing offices (i.e., the nonpermit universe). The first step in the sampling operation for the nonpermit universe was the selection of a sample of census enumeration districts. Prior to this sample selection, the ED's were stratified by census tract within the central city and within the balance of the metropolitan area. The probability of selection of an ED was proportionate to the following:

$$\frac{\text{Number of housing units in 1970 census ED} + \frac{\text{Group quarters population in 1970 census ED}}{3}}{4}$$

The sample ED's were then divided into segments (i.e., small land areas with well-defined boundaries having an expected size of four, or a multiple of four, housing units). At the time of the survey, those segments that did not have an expected size of four were further subdivided to produce an expected four sample housing units. The next step was the selection of one of these segments within each sample ED. All housing units in existence at the time of interview in these selected segments were eligible for sample. Thus, housing units enumerated in the 1970 census as well as housing units built since the 1970 census were included.

**Sample selection for the AHS-MS Coverage Improvement Program.** The AHS-MS Coverage Improvement Program was undertaken to correct certain deficiencies in the AHS-Metropolitan area sample from the 1970-based permit-issuing universe and the 1970-based new construction universe within the 1970-based area. The coverage deficiencies included the following units:

- a. New construction from building permits issued before January 1970, but completed after April 1, 1970.
- b. Mobile homes placed in parks either missed during the 1970 census or established since the 1970 census.
- c. Housing units missed in the 1970 census.
- d. Housing units converted to residential use that were nonresidential at the time of the 1970 census.
- e. Houses that have been moved onto their present site since the 1970 census.
- f. Mobile homes placed outside parks since the 1970 census or vacant at the time of the 1970 census.

For a detailed description of the coverage improvement sample selection process, see earlier reports in the H170 series for the years 1976 through 1981.

**1986 AHS-MS sample reduction and sample reinstatement.** The 1986 AHS-MS sample reduction dropped units from sample, whereas the 1986 AHS-MS sample reinstatement added enumerated units that were previously dropped from sample. The universes were (a) the 1970-based permit-issuing universe, (b) the 1970-based new construction universe, and (c) the 1970-based nonpermit universe.

Sample reduction and reinstatement involved dropping or adding (a) individual housing units from the permit-issuing universe, (b) whole clusters from the new construction universe, and (c) whole segments from the nonpermit universe.

The reduction/reinstatement was implemented to achieve two criteria:

- a. A sample size of 4,250 in all metropolitan areas.
- b. A sample having an equal number of owners and renters.

To achieve these results, each unit was classified according to the original panel number (the original sample was divided into 12 panels, with one-twelfth of the sample being in each panel) and 1986 tenure (each housing unit was given a 1986 tenure based on the previous year's tenure status). To simplify field procedures, panels 1 through 3 (i.e., a random one-fourth of the original sample) were dropped from sample whenever possible. More sample reductions were implemented separately for each 1986 tenure group (using different selection rates) across the remaining panels.

**1990 sample reinstatement.** In 1990, panels 4 and 5 were reinstated in the sample. These panels had been dropped from the 1986 sample, and their units were not interviewed in 1986. Before the reinstatement, most units in panels 4 and 5 were last interviewed in 1981-1983. The reinstatement also included units dropped as part of the 1986 tenure reduction that were last interviewed in 1979-1981.

**AHS-MS sample selection for the 1980-based area sample of the metropolitan areas.** The sample for new areas added to the 1970-based metropolitan areas, and metropolitan areas in sample for the first time that, in 1980, were 100-percent permit-issuing, was selected from two frames:

- a. Housing units enumerated in the 1980 Census of Population and Housing in areas under the jurisdiction of permit-issuing offices (the 1980-based permit-issuing universe).
- b. Housing units constructed in permit-issuing areas since the 1980 census (1980-based new construction universe).

In addition, the sample for those metropolitan areas that were not 100-percent permit-issuing in 1980 included a sample from a third frame: housing units not under the jurisdiction of permit-issuing offices (1980-based nonpermit universe).

In 1980, the Kansas City, MO-KS CMSA; New Orleans, LA MSA; Pittsburgh, PA CMSA; Rochester, NY MSA; and San Antonio, TX MSA, were the only metropolitan areas that added new areas that were not 100-percent permit-issuing.

To satisfy confidentiality requirements in the Denver, CO CMSA; Kansas City, MO-KS CMSA; New Orleans, LA MSA; Portland, OR-WA CMSA; Rochester, NY MSA; and the San Antonio, TX MSA, it was necessary to supplement the existing sample within the 1970-based area. The additional housing units were selected separately for each metropolitan area from the 1980-based permit issuing universe.

*Sample from the 1980-based permit-issuing universe.* The major portion of the sample in each metropolitan area was selected from a file that represented all the housing units



enumerated in permit-issuing areas during the 1980 Census of Population and Housing. This file contained records for occupied housing units, vacant housing units, and housing units in group quarters. Sampling operations were done separately for noninstitutionalized group quarters and for all other housing units in permit-issuing areas. In addition, in order that an equal number of owner and renter housing units were selected in each metropolitan area, a selection rate that differed by tenure group was used. Before the sample was selected, the housing units that were not classified as group quarters were stratified into 60 categories by tenure, contract rent, value, and number of rooms as illustrated by the following table:

Contract rent and value	Number of rooms		
	1-3	4-5	6+
<b>RENTER</b>			
Contact Rent:			
Less than \$100 .....			
\$100 to \$149 .....			
\$150 to \$199 .....			
\$200 to \$249 .....			
\$250 to \$299 .....			
\$300 to \$349 .....			
\$350 to \$399 .....			
\$400 or more .....			
Not available .....			
<b>OWNER</b>			
Value:			
Less than \$20,000 .....			
\$20,000 to \$29,999 .....			
\$30,000 to \$34,999 .....			
\$35,000 to \$39,999 .....			
\$40,000 to \$49,999 .....			
\$50,000 to \$64,999 .....			
\$65,000 to \$79,999 .....			
\$80,000 to \$99,999 .....			
\$100,000 to \$149,999 .....			
\$150,000 or more .....			
Not available .....			

The group quarters housing units were grouped into two strata: (1) institutionalized group quarters; and (2) noninstitutionalized group quarters.

The following sample selection procedures were then implemented separately within the central city and balance of the metropolitan area. For the Denver, CO CMSA; Kansas City, MO-KS CMSA; New Orleans, LA MSA; Portland, OR-WA CMSA; Rochester, NY MSA; and the San Antonio, TX MSA, the sample selections were implemented separately by the 1970-based and 1980-based areas. All units were sorted by the 1980 central city and balance, stratum, State, district office, ED, and census serial number. The sample selection procedure was then implemented separately for (a) institutionalized group quarters and nongroup quarters housing units, and (b) noninstitutionalized group quarters.

Individual housing units were selected for the nongroup quarters but each institutionalized group quarters had one chance of selection. Before the sample selection for the

noninstitutionalized group quarters was implemented, the following measure of size was calculated for each record:

$$\frac{(1/4) \times (\text{Total group quarters population})}{2.75}$$

The noninstitutionalized group quarters were then selected proportionate to the measure of size.

*Sample from the 1980-based new construction universe.*

The second frame from which the metropolitan area sample was selected was a list of new construction building permits issued since 1980 (i.e., the new construction universe). The sample selection from the list of new construction building permits was an independent operation within each metropolitan area. This operation was described in the discussion of the 1970-based new construction universe.

*Sample from the 1980-based nonpermit universe.* For those metropolitan areas that were not 100-percent permit-issuing, the remainder of the AHS-MS sample was selected from a frame consisting of areas not under the jurisdiction of permit-issuing offices (i.e., the 1980-based nonpermit universe). The first step in the sampling operation for the nonpermit universe was the selection of a sample of census ED's within these areas (using the overall sampling rate). Prior to this sample selection, the ED's were sorted by State, district office, and enumeration district number. The probability of selection of an ED was proportionate to the following:

Number of housing units 1980 census ED	+	Noninstitutionalized group quarters population in 1980 census ED
		2.75
4		

The sample ED's were then divided into segments (i.e., small land areas with well-defined boundaries having an expected size of four, or a multiple of four, housing units). At the time of the survey, those segments that did not have an expected size of four housing units were further subdivided to produce an expected four sample housing units. Following the division, a segment from each sample ED was selected. All housing units in existence at the time of interview in these selected segments were eligible for sample. Thus, housing units enumerated in the 1980 census as well as housing units built since the 1980 census are included.

**ESTIMATION**

The 1990 AHS-Metropolitan sample produced estimates pertaining to characteristics of the housing inventory at the time of the interview (i.e., the 1990 housing inventory).

**1990 housing inventory.** The AHS estimates of characteristics of the 1990 housing inventory were produced using a multistage ratio estimation procedure. Before the implementation of the ratio estimation procedure, the basic weight (i.e., the inverse of the probability of selection) for each interviewed sample housing unit was adjusted to account for Type M and Type A noninterviews.

*Type M noninterview adjustment.* The Type M noninterviews are sample units that were dropped because of selection by another survey or because of permit unavailability. These noninterviews occur in (a) the 1980-based permit-issuing area universe, (b) the 1980-based nonpermit-issuing area universe, and (c) the 1980-based new construction universe.

The adjustment was done separately for the above universes for the central city and balance for each metropolitan area. The adjustment was equal to the following:

$$\frac{\text{AHS-MS sample estimate of 1980 housing units in the cell} + \text{Weighted count of Type M noninterviewed housing units}}{\text{AHS-MS sample estimate of 1980 housing units in the cell}}$$

*Type A noninterview adjustment.* Type A noninterviews are sample units for which (a) occupants were not home, (b) occupants refused to be interviewed, or (c) occupants were unavailable for some other reason.

The adjustment was done on occupied units and was computed separately for (a) units in the 1980-based permit-issuing area universe, (b) new construction, and (c) all other housing units (this includes the 1970-based permit-issuing universe, the 1970-based and 1980-based nonpermit-issuing universes and the 1970-based new construction housing units built prior to the last survey).

For units in the 1980-based permit-issuing universe, a Type A noninterview adjustment factor was computed separately, for each of the 62 strata used in the sample selection process, by 1980 central city and balance. For new construction units, a Type A noninterview adjustment factor was computed separately, by central city and balance. For all other units, a Type A noninterview adjustment factor was calculated separately by tenure and 1970 central city and balance for each of the following:

- a. Twenty-four noninterview cells for sample housing units from the permit-issuing universe (each cell was derived from one or more of the 50 different strata used in the 1970-based permit-issuing universe, illustrated earlier).
- b. One noninterview cell for new construction housing units.
- c. One noninterview cell for mobile homes or trailers from the nonpermit-issuing universe.
- d. One noninterview cell for units that were not mobile homes or trailers from the nonpermit-issuing universe.

- e. Three noninterview cells for units from the coverage improvement universe.
- f. One noninterview cell for units classified as vacants at the time of the 1970 census.
- g. One noninterview cell for units classified as group quarters at the time of the 1970 census.

Within a given cell, the Type A noninterview adjustment factor was equal to the following ratio, using the basic weight times the Type M noninterview adjustment factor for the sample weight:

$$\frac{\text{Weighted count of interviewed housing units} + \text{Weighted count of Type A noninterviewed housing units}}{\text{Weighted count of interviewed housing units}}$$

*Ratio estimation procedure for the 1970-based permit-issuing universe.* The following ratio estimation procedure was employed for all sample housing units from the permit-issuing universe. This factor was computed separately for all sample housing units within each 1970-based permit-issuing universe noninterview cell mentioned previously. The ratio estimation factor for each cell was equal to the following:

$$\frac{\text{1970 census count of housing units from the 1970-based permit-issuing universe in the corresponding cell}}{\text{AHS-MS sample estimate of 1970-based housing units from the 1980-based permit-issuing universe in the corresponding cell}}$$

For each metropolitan area, the numerators of the ratios were obtained from the 1970 Census of Population and Housing 20 percent file (long forms) of housing units enumerated in areas under the jurisdiction of permit-issuing offices.

The denominators of the ratio estimation factors were then obtained from weighted estimates of all the AHS-MS sample housing units from the 1970-based permit-issuing universe, using the existing weight (i.e., the basic weight times the Type A noninterview adjustment). The computed ratio estimation factor was then applied to the existing weight for each sample housing unit within the corresponding ratio estimation cells. This ratio estimation procedure was introduced to correct the probabilities of selection for samples, in each of the strata used in the sample selection of the 1970-based permit-issuing universe. Prior to the AHS-MS sample selection within each metropolitan area housing units already selected for other Census Bureau surveys were deleted from the permit-issuing universe. The same probability of selection was then applied to the remaining units to select the AHS-MS sample. Since the number of housing units deleted from the AHS-MS universe frame was not necessarily proportional among all

strata, some variation in the actual probability of selection between strata was introduced during the sample selection process.

*Ratio estimation procedure for the 1980-based permit-issuing universe.* The following ratio estimation procedure was employed for all sample units from the 1980-based permit-issuing universe. This factor was computed separately for all metropolitan areas excluding the Anaheim-Santa Ana, CA PMSA; Cincinnati, OH-KY-IN PMSA; and Riverside-San Bernardino-Ontario, CA, PMSA within each 1980-based permit-issuing universe noninterview cell mentioned previously.

The ratio estimation factor was equal to the following:

$$\frac{\text{1980 census count of housing units from the 1980-based permit-issuing universe in the corresponding cell}}{\text{AHS sample estimate of 1980-based housing units from the 1980-based permit-issuing universe in the corresponding cell}}$$

For each metropolitan area, the numerator of the ratio was obtained from the 1980 Census of Population and Housing 100-percent file of housing units enumerated in areas under the jurisdiction of permit-issuing offices. The denominator of the ratio was obtained from weighted estimates of all the AHS-MS sample housing units within the corresponding ratio estimation categories using the existing weight (i.e., the basic weight times the Type M noninterview adjustment factor times the Type A noninterview adjustment factor).

The computed ratio estimation factor was then applied to the existing weight for each sample housing unit within the corresponding ratio estimation categories.

This ratio estimation procedure was introduced to adjust the sample estimate in each of the strata used in the sample selection of the 1980-based permit issuing universe to an independent estimate (1980 census count) for the strata. This adjustment was necessary since some sample units were dropped during processing.

**Mobile home ratio estimation.** The following ratio estimation procedure was applied in all areas:

$$\frac{\text{Independent estimate of occupied mobile homes for the corresponding geographic subdivision of the metropolitan area}}{\text{Sample estimate of mobile homes for the corresponding geographic subdivision of the metropolitan area}}$$

The numerator of this ratio was determined using data from the 1980 census and the 1990 census. The denominator was obtained using the existing weight of AHS

sample mobile home units (i.e., the starting weight times the Type M factor times the Type A factor). The computed ratio estimate factor was then applied to all interviewed mobile homes in all areas

**Independent total housing unit ratio estimation.** The following ratio estimation procedure was applied in all areas:

Independent estimate of the occupied housing inventory for the corresponding geographic subdivision of the metropolitan area

Sample estimate of the occupied housing inventory for the corresponding geographic subdivision of the metropolitan area

The independent estimates of occupied housing units that were used as the numerator of this ratio are described below. The denominator was obtained by using the existing weight of AHS sample units (excluding mobile homes, if mobile home ratio estimation was applied).

The methodology used to derive the independent estimates of occupied housing units used a three-step procedure. In step one, the change in the number of occupied housing units was computed for metropolitan areas by county, based on counts from the 1980 and 1990 Decennial Censuses of Population and Housing.

In step two, the monthly rate of change was derived by dividing the result of step one by the base of 120 months (10 years multiplied by 12 months per year).

In step three, the independent county estimate of households (E) for each county in a metropolitan area was produced using the following formula:

$$E = G + P(M)$$

where P = the proportion derived in step two above  
 M = the number of months from April 1, 1990, to the midpoint of the survey interview period  
 G = county counts of households for April 1, 1990, from the 1990 Decennial Census of Population and Housing

The above formula uses a midpoint factor that varies for metropolitan areas from 5 months to 6.5 months. The metropolitan areas with a 5-month midpoint factor were Cincinnati, OH-KY-IN; Kansas City, MO-KS; New Orleans, LA; Pittsburgh, PA; and San Antonio, TX. The Miami-Ft. Lauderdale, FL, metropolitan area used a 5.5-month midpoint. Those areas using a 6-month midpoint factor included Anaheim-Santa Ana, CA; Portland, OR-WA; Riverside-San Bernardino-Ontario, CA; and Rochester, NY. The Denver, CO, metropolitan area used a 6.5-month midpoint.

The weighting was designed to be consistent with the 1990 census, relying on linear interpolation between 1980 and 1990.

The survey estimate of occupied mobile homes after application of the mobile home ratio estimation factor described above was then subtracted from this independent estimate of occupied housing units. The resulting estimate of occupied housing units, excluding mobile homes, was used as the numerator for this ratio estimation.

The AHS-Metropolitan sample estimate of the housing inventory for the corresponding geographic area was obtained using existing weight (i.e., after the mobile home ratio estimation procedure for all areas).

The computed ratio estimation factors were then applied to all housing units in the corresponding geographic area of each metropolitan area and the resulting product was used as the final weight for tabulation purposes.

The effect of this ratio estimation procedure, as well as the overall estimation procedures, was to reduce the sampling error for most statistics below what would have been obtained by simply weighting the results of the sample by the inverse of the probability of selection. Since the housing population of the sample differed somewhat, by chance, from the metropolitan area as a whole, it can be expected that the sample estimates will be improved when the sample housing population, or different portions of it, is brought into agreement with known good estimates of the metropolitan area housing population.

## ACCURACY OF THE ESTIMATES

There are two types of possible errors associated with estimates based on data from sample surveys—nonsampling and sampling errors. The following is a description of the nonsampling and sampling errors associated with the AHS sample estimates.

**Nonsampling errors.** In general, nonsampling errors can be attributed to many sources: inability to obtain information about all cases; definitional difficulties; differences in the interpretation of questions; inability or unwillingness of respondents to provide correct information; mistakes in recording or coding the data; other errors of collection, response, processing, and coverage; and estimation for missing data. Nonsampling errors are not unique to sample surveys since they can, and do, occur in complete censuses as well.

Obtaining a measurement of the total nonsampling error associated with the estimates from a survey is very difficult, considering the number of possible sources of error. However, an attempt was made to measure some of the nonsampling errors associated with the estimates for the 1990 AHS-Metropolitan sample. In the following sections, the major sources of nonsampling errors will be discussed.

*AHS-MS content errors.* A content reinterview program was done for the 1990 AHS-Metropolitan sample units. A sample of these units was revisited, and answers to some of the questions on the questionnaire were obtained again. The original interview and reinterview were assumed to be two independent readings and, thus, were the basis for the measurement of the accuracy of the data collected from interviewed units.

The 1990 Content Reinterview Program served as an interviewer quality check and a quality analysis of particular survey questions. All of the interviewers were selected for the quality check, which reviewed the interviewers' proficiency in properly evaluating the items listed below. The other portion of the reinterview program was performed to ensure that certain survey questions elicited consistent responses from the interviewed households. These reinterview items and their response variability are discussed below.

The six interviewer items reviewed were (1) correct unit visited; (2) interview status; (3) area segment coverage; (4) determination of extra units; (5) living quarters classification; and (6) household composition.

The AHS-MS survey items reviewed generally fell into two categories: mortgage and mobility. The results of this reinterview program, however, are not available at this time.

Although the results of the 1990 Content Reinterview Program are not available, past reinterview programs have shown that certain items are likely to produce moderate or high response variability. Response variability is defined as a measure of consistency between the original survey response to an item and the reinterview response to that item. Moderate levels of variability indicate that the response error is not insignificant in comparison with the sampling error. High variability indicates that the response errors are very significant in relation to the sampling errors with which they are associated; therefore, caution should be used when considering estimates of these characteristics. The 1985 Content Reinterview Program had five items that exhibited high variability: (1) major repairs over \$500 each; (2) payments the same throughout mortgage; (3) area lived at age 16; (4) preferred place to live in 5 years; and (5) size of lot. Prior-year results for the 1990 metropolitan areas can be found in the Census Bureau publication series H170 for the years 1981 through 1983.

Reinterview studies were also conducted in conjunction with previous AHS-National and AHS-MS enumerations. These studies included items dealing primarily with poor housing quality, attitudes about the neighborhood, and certain housing costs. The following table shows the items that had higher levels of inconsistency. Although not all of these questions were included in the 1990 reinterview studies, questions from previous enumerations were not altered enough to lead one to believe that the level of inconsistent responses would change.

Survey items	Level of inconsistency
Mice and rats .....	Moderate
Real estate taxes .....	Moderate
Cost of real estate taxes .....	Moderate
Prefer to live in same area or somewhere else ..	Moderate
Open cracks or holes on inside of building .....	Moderate to High
Holes in floors .....	Moderate to High
Blown fuses/tripped circuit breakers .....	Moderate to High
Neighborhood conditions: street noise; roads in need of repair; crime; trash, litter, junk in streets or on properties; boarded-up/abandoned structures; nonresidential activities; odors, smoke, gas .....	Moderate to High
Satisfactory neighborhood services: police protection; hospitals/health clinic; public transportation; shopping; elementary schools ..	Moderate to High
Electricity cost .....	Moderate to High
Oil, coal, kerosene, wood, or other fuel cost .....	Moderate to High
Fire/hazard insurance .....	Moderate to High
Cost of garbage collection .....	Moderate to High
Broken plaster or peeling paint on ceiling and walls .....	High
Working electric outlet in all rooms .....	High
Concealed wiring .....	High
Gas cost .....	High
Cost of water supply and sewage disposal .....	High
Gross income .....	High

A possible explanation for the results of the reinterview studies, as well as the surveys themselves, is that respondents may lack precise information. Also, since the results of the reinterview studies are derived from sample surveys, there is sampling error associated with these estimates of nonsampling error. The possibility of such errors should be taken into account when considering the results of these studies.

**Coverage errors.** In errors of coverage and estimation for missing data, the AHS new construction sample had deficiencies in the representation of conventional (nonmobile home or trailer) new construction. Because of time constraints, only those building permits issued more than 7 months before the survey ended were eligible to be sampled to represent conventional new construction in permit-issuing areas for each metropolitan area. However, those permits issued during the last 7 months of the survey do not necessarily represent missed housing units. Because of the relatively short time span involved, it is possible that construction of these housing units was not completed at the time the survey was conducted, in which case, they would not have been eligible for interview. In addition to these deficiencies, new construction in special places that do not require building permits, such as military bases, is not adequately represented.

AHS misses a significant portion of new mobile homes. It is believed that most of the difference is because of poor coverage of mobile home parks in address ED's. Undercoverage exists for those mobile homes built between the time of the last coverage improvement procedure and the 1980 census. It has been estimated that on a national level

as much as 25 percent of those mobile homes built after January 1, 1980, may be missed. Note that the mobile home ratio estimation procedure used was an attempt to correct for this deficiency. Deficiencies also exist in ED's where area sampling methods are used. It had been assumed that all housing units located inside these ED's would be represented in the sample. However, it has been established that the AHS sample missed as much as 2 percent of all housing units in these ED's because they were not listed during the canvassing. It should be noted that since these ED's were recanvassed each time this metropolitan area was surveyed, the number of missed housing units may be considerably less for the 1990 survey.

The mobile home and total housing unit ratio estimation procedures correct for these deficiencies as far as the count of mobile homes and total housing units is concerned (i.e., it adjusts to the best available estimate). However, biases of subtotals would still remain.

**Rounding errors.** For errors associated with processing, rounding of estimates introduces another source of error in the data, the severity of which depends upon the statistics being measured. The effect of rounding is significant relative to the sampling error only for small percentages or small medians when these figures are derived from relatively large bases (e.g., median number of persons per household). This means that confidence intervals formed from the standard errors given may be distorted, and this should be taken into account when considering the results of the survey.

**Sampling errors for the AHS metropolitan area sample.** The particular sample used for this survey is one of a large number of possible samples of the same size that could have been selected using the same sample design. Even if the same questionnaires, instructions, and interviewers were used, estimates from each of the different samples would differ from one another. The sampling error of a survey estimate provides a measure of the variation among the estimates from all possible samples and, thus, is a measure of the precision with which an estimate from a sample approximates the average result of all possible samples.

One common measure of the sampling error is the standard error. As calculated for this report, the standard error reflects the variation in the estimates caused by sampling and nonsampling errors, but it does not measure as such any systematic biases in the data. Therefore, the accuracy of the estimates depends upon the standard error, biases, and any additional nonsampling errors not measured by the standard error. The sample estimate and its estimated standard error enable one to construct interval estimates in which the interval includes the average result of all possible samples with a known probability. For example, if all possible samples were selected, each of

these surveyed under essentially the same general conditions, and an estimate and its estimated standard error were calculated from each sample, then—

Approximately 90 percent of the intervals from 1.6 standard errors below the estimate to 1.6 standard errors above the estimate would include the average result of all possible samples.

The average result of all possible samples either is or is not contained in any particular computed interval. However, for a particular sample, one can say with specified confidence that the average result of all possible samples is included in the constructed interval.

The figures presented in the tables that follow (see page B-13) are approximations to the standard errors of various estimates shown in this report for this metropolitan area. In order to derive standard errors that would be applicable to a wide variety of items and also could be prepared at a moderate cost, a number of approximations were required. As a result, the tables of standard errors provide an indication of the order of magnitude of the standard errors rather than precise standard errors for any specific item.

Table I presents the standard errors applicable to estimates of characteristics of the 1990 housing inventory. Linear interpolation should be used to determine the standard errors for estimates not specifically shown in this table.

The reliability of an estimated percentage, computed by using the sample data for both numerator and denominator, depends upon both the size of the percentage and the size of the total upon which the percentage is based. Estimated percentages are relatively more reliable than the corresponding estimates of the numerators of the percentages, particularly if the percentages are 50 percent or more.

Table II presents the standard errors of estimated percentages for the 1990 housing inventory. Two-way interpolation should be used to determine standard errors for estimated percentages not specifically shown in these tables.

Included in tables I and II are estimates of standard errors for estimates of zero and zero percent. These estimates of standard errors are considered overestimates of the true standard errors and should be used primarily for construction of confidence intervals for characteristics when estimates of zero are obtained.

For ratios, 100 (x/y), where x is not a subclass of y, table II underestimates the standard error of the ratio when there is little or no correlation between x and y. For this type of ratio, a better approximation of the standard error may be obtained by letting the standard error of the ratio be approximately equal to:

$$(100) \frac{x}{y} \sqrt{\left(\frac{S_x}{x}\right)^2 + \left(\frac{S_y}{y}\right)^2}$$

where: x = the numerator of the ratio  
 y = the denominator of the ratio  
 S<sub>x</sub> = the standard error of the numerator  
 S<sub>y</sub> = the standard error of the denominator insert

**Illustration of the use of the standard error tables.**

Table 2-1 of this report shows that in the Anaheim, CA, metropolitan area there were 501,700 owner-occupied housing units. Interpolation using table I of this appendix shows that the standard error of an estimate of this size is approximately 7,640. The following interpolation procedure was used.

The information presented in the following table was extracted from table I. The entry for "x" is the one sought.

Size of estimate	Standard error
500,000 .....	7,650
501,700 .....	X
600,000 .....	7,240

The entry of "x" is determined as follows by vertically interpolating between 7,650 and 7,240.

$$\begin{aligned} 501,700 - 500,000 &= 1,700 \\ 600,000 - 500,000 &= 100,000 \\ 7,650 + \frac{1,700}{100,000} (7,240 - 7,650) &= 7,640 \end{aligned}$$

Consequently, the 90-percent confidence interval, as shown by these data, is from 489,480 to 513,920 housing units. Therefore, a conclusion that the average estimate, derived from all possible samples, of 1990 owner-occupied housing units lies within a range computed in this way would be correct for roughly 90 percent of all possible samples.

Table 2-3 also shows that of 501,700 owner-occupied housing units, 114,000 or 22.7 percent had two bedrooms. Interpolation using table II of this appendix (i.e., interpolation on both the base and percent) shows that the standard error of the 22.7 percent is approximately 1.0 percentage points. The following interpolation procedure was used.

The information presented in the following table was extracted from table II.

Base of percentage	Estimated percentage		
	10 or 90	22.7	25 or 75
500,000 .....	0.7	a	1.0
501,700 .....		p	
600,000 .....	0.6	b	0.9

1. The entry for cell "a" is determined by horizontal interpolation between 0.7 and 1.0.

$$\begin{aligned} 22.7 - 10.0 &= 12.7 \\ 25.0 - 10.0 &= 15.0 \\ 0.7 + \frac{12.7}{15.0} (1.0 - 0.7) &= 1.0 \end{aligned}$$

2. The entry for cell "b" is determined by horizontal interpolation between 0.6 and 0.9.

$$\begin{aligned} 22.7 - 10.0 &= 12.7 \\ 25.0 - 10.0 &= 15.0 \\ 0.6 + \frac{12.7}{15.0} (0.9 - 0.6) &= 0.9 \end{aligned}$$

3. The entry for "p" is then determined by vertical interpolation between 1.0 and 0.9

$$\begin{aligned} 501,700 - 500,000 &= 1,700 \\ 600,000 - 500,000 &= 100,000 \\ 1.0 + \frac{1,700}{100,000} (0.9 - 1.0) &= 1.0 \end{aligned}$$

Applying a factor of 1.0 according to the footnote from table II gives a standard error of 1.0 percentage points. Consequently, the 90-percent confidence interval, as shown by these data, is from 21.1 to 24.3 percent.

**Differences.** The standard errors shown are not directly applicable to differences between two sample estimates. They are quite accurate for the difference between estimates of the same characteristics in two different metropolitan areas or the difference between separate and uncorrelated characteristics in the same metropolitan area. If there is a high positive correlation between the two characteristics, the formula will overestimate the true standard error; but if there is a high negative correlation, the formula will underestimate the true standard error.

**Illustration of the computation of the standard error of a difference.** Table 2-3 of this report shows that in the Anaheim, CA, metropolitan area there were 198,700 owner-occupied housing units with three bedrooms. Thus, the apparent difference, as shown by these data, between owner-occupied units with two bedrooms and owner-occupied units with three bedrooms is 84,700. Table I, with interpolation, shows that the standard error of 114,000 is approximately 5,100, and the standard error of 198,700 is approximately 6,400. Therefore, the standard error of the estimated difference of 84,700 is about 8,180.

$$8,180 = \sqrt{(5,100)^2 + (6,400)^2}$$

Consequently, the 90-percent confidence interval for the 84,700 difference is from 71,610 to 97,790 housing units. Therefore, a conclusion that the average estimate

derived from all possible samples, of this difference, lies within a range computed in this way would be correct for roughly 90 percent of all possible samples. Thus, we can conclude with 90-percent confidence that the number of 1990 owner-occupied housing units with three bedrooms is greater than the number of owner-occupied housing units with two bedrooms since the 90-percent confidence interval does not include zero or negative values.

**Medians.** For medians presented in certain tables, the sampling error depends on the size of the base and on the distribution upon which the median is based. An approximate method for measuring the reliability of the estimated median is to determine an interval about the estimated median so that there is a stated degree of confidence, such that the average median from all possible samples lies within the interval. The following procedure may be used to estimate confidence limits of a median based on sample data:

1. From table II, determine the standard error of a 50-percent characteristic on the base of the median.
2. Add to and subtract from 50 percent the standard error determined in step 1.
3. Using the distribution of the characteristics, determine the confidence interval corresponding to the two points established in step 2. To find the lower endpoint of the confidence interval, it is necessary to know into which interval of the distribution the lower percentage limit falls. Similarly, to find the upper end point of the confidence interval, it is necessary to know into which interval of the distribution the upper percentage limit falls. Note that these distribution intervals could be different, although this will not happen very often.

A 1.6 standard-error confidence interval may be determined by finding the values corresponding to 50 percent plus and minus 1.6 times the standard error determined in step 1. For about 90 out of 100 possible samples, the average median from all possible samples would lie between these two values.

**Illustration of the computation of the 90-percent confidence interval of a median.** Table 3-13 of this report shows the median monthly housing cost for owner-occupied housing units is \$1,046. The base of this distribution is obtained by subtracting "mortgage payment not reported" from the number of occupied units. Using this definition, the base is equal to 435,100.

1. Interpolation using table II and the applied factor (from footnote) shows that the standard error of 50 percent on a base of 435,100 is approximately 1.2 percentage points.

2. To obtain a 90-percent confidence interval on the estimated median, initially add to and subtract from 50 percent 1.6 times the standard error determined in step 1. This yields percentage limits of 48.1 and 51.9.
3. From the distribution for monthly housing cost in table 3-13, the \$800 to \$1,000 interval for owner-occupied housing units contains the 48.1 percent derived in step 2. About 176,400 housing units, or 40.5 percent, fall below this interval, and 33,300 housing units, or 7.7 percent, fall within this interval. By linear interpolation, the lower limit of the 90 percent confidence interval is found to be about \$997.

$$800 + (1,000 - 800) \frac{48.1 - 40.5}{7.7} = 997$$

4. Similarly, the \$1,000 to \$1,250 interval for owner-occupied housing units contains the 51.9 percent derived in step 2. About 209,700 housing units (48.2 percent) fall below this interval, and 43,500 housing units or 10.0 percent, fall within this interval. The upper limit of the 90-percent confidence interval is found to be about \$1,093.

$$1,000 + (1,250 - 1,000) \frac{51.9 - 48.2}{10.0} = 1,093$$

Thus, the 90-percent confidence interval ranges from \$997 to \$1,093.

5. Finally, note that the medians shown in this report are calculated from unrounded data and then rounded. Thus, they may differ from the medians calculated from the grouped data in the tables of this report.



Table I. Standard Errors for Estimated Number of Housing Units in the 1990 Anaheim-Santa Ana, CA PMSA

Size of estimate	Standard error <sup>1</sup>			
	Combined owner and renter housing units <sup>2</sup>	Owner housing units <sup>3</sup>	Renter housing units <sup>4</sup>	Mobile homes <sup>5</sup>
0 .....	260	270	240	210
300 .....	280	280	270	250
700 .....	430	430	410	380
1,000 .....	510	510	490	450
2,500 .....	810	810	780	700
5,000 .....	1,150	1,150	1,100	950
10,000 .....	1,620	1,620	1,550	1,210
25,000 .....	2,540	2,540	2,430	1,080
32,000 .....	2,860	2,860	2,740	-
50,000 .....	3,540	3,540	3,380	-
60,000 .....	3,850	3,850	3,680	-
75,000 .....	4,270	4,270	4,080	-
100,000 .....	4,850	4,850	4,640	-
150,000 .....	5,750	5,760	5,500	-
200,000 .....	6,410	6,420	6,140	-
250,000 .....	6,910	6,910	6,610	-
300,000 .....	7,270	7,270	6,960	-
400,000 .....	7,650	7,660	-	-
500,000 .....	7,640	7,650	-	-
600,000 .....	7,240	7,240	-	-
700,000 .....	6,350	-	-	-
800,000 .....	4,740	-	-	-
895,000 .....	-	-	-	-

<sup>1</sup>To compute standard errors for new construction estimates, the standard errors in the table should be multiplied by a factor of 1.0 for owner housing units, 1.1 for renter housing units, and 1.0 for the combined owner and renter housing units.

<sup>2</sup>Some examples that pertain to both owner and renter housing units are total housing units; all occupied housing units; all year-round housing units; mobile homes or trailers; and total vacant housing units.

<sup>3</sup>The owner housing units pertain to owner-occupied housing units and vacant housing units excluding vacant-for-rent housing units.

<sup>4</sup>The renter housing units pertain to renter-occupied housing units and vacant-for-rent housing units.

<sup>5</sup>For estimates pertaining to new construction mobile homes, the standard errors in the table should be multiplied by a factor of 1.2.

Table II. Standard Errors for Estimated Percentages of Housing Units in the 1990 Housing Inventory of the Anaheim-Santa Ana, CA PMSA

Base of percentage	Estimated percentage <sup>1</sup>					
	0 or 100	1 or 99	5 or 95	10 or 90	25 or 75	50
300 .....	44.7	44.7	44.7	44.7	44.7	45.0
700 .....	25.7	25.7	25.7	25.7	25.7	29.4
1,000 .....	19.5	19.5	19.5	19.5	21.3	24.6
2,500 .....	8.8	8.8	8.8	9.3	13.5	15.6
5,000 .....	4.6	4.6	4.8	6.6	9.5	11.0
10,000 .....	2.4	2.4	3.4	4.7	6.7	7.8
25,000 .....	1.0	1.0	2.1	3.0	4.3	4.9
32,000 .....	0.8	0.9	1.9	2.6	3.8	4.4
50,000 .....	0.5	0.7	1.5	2.1	3.0	3.5
60,000 .....	0.4	0.6	1.4	1.9	2.8	3.2
75,000 .....	0.3	0.6	1.2	1.7	2.5	2.8
100,000 .....	0.2	0.5	1.1	1.5	2.1	2.5
150,000 .....	0.2	0.4	0.9	1.2	1.7	2.0
200,000 .....	0.12	0.3	0.8	1.0	1.5	1.7
250,000 .....	0.10	0.3	0.7	0.9	1.3	1.6
300,000 .....	0.08	0.3	0.6	0.9	1.2	1.4
400,000 .....	0.06	0.2	0.5	0.7	1.1	1.2
500,000 .....	0.05	0.2	0.5	0.7	1.0	1.1
600,000 .....	0.04	0.2	0.4	0.6	0.9	1.0
700,000 .....	0.03	0.2	0.4	0.6	0.8	0.9
800,000 .....	0.03	0.2	0.4	0.5	0.8	0.9
895,000 .....	0.03	0.2	0.4	0.5	0.7	0.8

<sup>1</sup>Standard errors are presented to the nearest one-tenth of one percentage point except when the standard error is less than or equal to fifteen-hundredths of one percentage point; in those cases, the standard error is shown to the nearest one-hundredth of one percentage point.

For estimates pertaining to new construction, the standard errors shown in the table should be multiplied by a factor of 1.1.

The following factors should be applied to estimates that do not pertain strictly to new construction. For estimates pertaining to both owners and renters, apply a factor of 1.0. For estimates pertaining to owner housing units, apply a factor of 1.0. For estimates pertaining to renter housing units, apply a factor of 1.0. For estimates pertaining to mobile homes, apply a factor of 1.0.

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**Water leaks:** comparisons 2-7, owners 3-7, renters 4-7, Blacks 5-7, Hispanics 6-7, definition A-10

**Water nearby, body of:** vacant homes 1-6, comparisons 2-8, owners 3-8, renters 4-8, Blacks 5-8, Hispanics 6-8, definition A-15

**Water plumbing:** vacant homes 1-4, comparisons 2-4, owners 3-4, renters 4-4, Blacks 5-4, Hispanics 6-4, definition A-11

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- Wiring, concealed:** vacant homes 1-6, comparisons 2-7, owners 3-7, renters 4-7, Blacks 5-7, Hispanics 6-7, definition A-14, B-9
- Women:** comparisons 2-9, owners 3-9, renters 4-9, Blacks 5-9, Hispanics 6-9, definition A-23
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- Wood stoves - see stoves**
- Woods or open space nearby:** vacant homes 1-6, comparisons 2-8, owners 3-8, renters 4-8, Blacks 5-8, Hispanics 6-8, definition A-15
- Wrap-around mortgage:** comparisons 2-19, owners 3-15, 3-19, Blacks 5-15, 5-19, Hispanics 6-15, 6-19, definition A-19
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- Year home acquired:** owners 3-14, Blacks 5-14, Hispanics 6-14, definition A-17
- Year last occupied:** vacant homes 1-1, definition A-7
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- Year round use:** vacant homes 1-1, definition A-5, A-7
- Years of school completed:** comparisons 2-9, owners 3-9, renters 4-9, Blacks 5-9, Hispanics 6-9, definition A-23
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## Selected Subareas for Publication for 1990

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### **ANAHEIM-SANTA ANA, CA PMSA**

Anaheim City  
Santa Ana City  
Garden Grove City

### **CINCINNATI, OH-KY-IN PMSA**

Cincinnati City, OH  
Balance of Hamilton Co., OH  
Kenton Co., KY

### **DENVER, CO CMSA**

Denver City  
Jefferson Co.  
Arapahoe Co.

### **KANSAS CITY, MO-KS CMSA**

Kansas City City, MO  
Kansas City City, KS  
Balance of Jackson Co., MO

### **MIAMI-FT. LAUDERDALE, FL CMSA**

Miami City  
Balance of Dade Co.  
Ft. Lauderdale

### **NEW ORLEANS, LA MSA**

New Orleans City  
Jefferson Parish  
St. Tammany Parish

### **PITTSBURGH, PA CMSA**

Pittsburgh City  
Balance of Allegheny  
Westmoreland Co.

### **PORTLAND, OR-WA CMSA**

Portland City  
Balance of Multnomah Co., OR  
Washington Co., OR

### **RIVERSIDE-SAN BERNARDINO-ONTARIO, CA PMSA**

Riverside City  
Balance of Riverside Co.  
San Bernardino City

### **ROCHESTER, NY MSA**

Rochester City  
Balance of Monroe Co.  
Ontario Co.

### **SAN ANTONIO, TX MSA**

San Antonio City  
Balance of Bexar Co.  
Guadalupe Co.

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NOTE: With each metropolitan area, subareas are listed in order of boxhead appearance from subarea 1 through subarea 3.