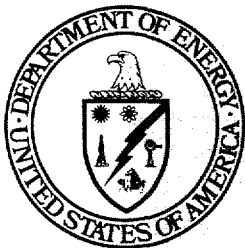


DOE/EIA-0207/3

Residential Energy Consumption Survey: Conservation

February 1980

U.S. Department of Energy
Energy Information Administration
Assistant Administrator for Program Development



Other NEICS Reports

Preliminary Conservation Tables from the National Interim Energy Consumption Survey, August 1979, DOE/EIA-0193/P

Characteristics of the Housing Stocks and Households: Preliminary Findings from the National Interim Energy Consumption Survey, October 1979, DOE/EIA-0199/P

The above reports are available from the following address:

U.S. Department of Energy
Technical Information Center
Attn: EIA Coordinator
P.O. Box 62
Oak Ridge, TN 37830

Residential Energy Consumption Survey: Characteristics of the Housing Stock and Households, DOE/EIA-0207/2, GPO Stock No. 061-003-00093-2; \$4.25

The above report and additional copies of this report, Residential Energy Consumption Survey: Conservation, GPO Stock No. 061-003-00087-8; \$6.00, are available from the following address:

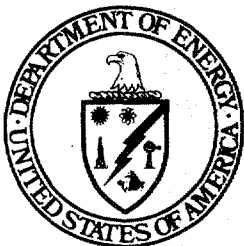
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Residential Energy Consumption Survey: Conservation

February 1980

U.S. Department of Energy
Energy Information Administration
Assistant Administrator for Program Development
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CONTENTS

	Page
Final Conservation Findings.....	1
Tables of Existing Energy Related Characteristics	
Table 1A Census Regions and Rural/Urban (Counts).....	5
Table 1B Census Regions and Rural/Urban (Percents).....	7
Table 2A Type of Primary Heating Fuel (Counts).....	9
Table 2B Type of Primary Heating Fuel (Percents).....	11
Table 3A Heating and Cooling Degree Days (Counts).....	13
Table 3B Heating and Cooling Degree Days (Percents)....	15
Table 4A Housing Structure and Number of Rooms (Counts).....	17
Table 4B Housing Structure and Number of Rooms (Percents).....	19
Table 5A Year House Built (Counts).....	21
Table 5B Year House Built (Percents).....	23
Table 6A Air-Conditioning (Counts).....	25
Table 6B Air-Conditioning (Percents).....	27
Table 7A 1977 Family Income (Counts).....	29
Table 7B 1977 Family Income (Percents).....	31
Table 8A Selected Demographic Characteristics (Counts).....	33
Table 8B Selected Demographic Characteristics (Percents).....	35
Tables of Conservation Efforts Undertaken by Census Regions and Rural/Urban	
Table 9A April 1977-December 1978 (Eligible for 1978 Tax Credit) (Counts).....	37
Table 9B April 1977-December 1978 (Eligible for 1978 Tax Credit) (Percents).....	39
Table 10A January-December 1978 (Counts).....	41
Table 10B January-December 1978 (Percents).....	43
Table 11A January-December 1977 (Counts).....	45
Table 11B January-December 1977 (Percents).....	47
Tables of Conservation Efforts Undertaken by Type of Primary Heating Fuel	
Table 12A April 1977-December 1978 (Counts).....	49
Table 12B April 1977-December 1978 (Percents).....	51
Table 13A January-December 1978 (Counts).....	53
Table 13B January-December 1978 (Percents).....	55
Table 14A January-December 1977 (Counts).....	57
Table 14B January-December 1977 (Percents).....	59
Tables of Conservation Efforts Undertaken by Heating and Cooling Degree Days	
Table 15A April 1977-December 1978 (Counts).....	61
Table 15B April 1977-December 1978 (Percents).....	63
Table 16A January-December 1978 (Counts).....	65
Table 16B January-December 1978 (Percents).....	67
Table 17A January-December 1977 (Counts).....	69
Table 17B January-December 1977 (Percents).....	71

Tables of Conservation Efforts Undertaken by Housing Structure and Number of Rooms	
Table 18A April 1977-December 1978 (Counts).....	73
Table 18B April 1977-December 1978 (Percents).....	75
Table 19A January-December 1978 (Counts).....	77
Table 19B January-December 1978 (Percents).....	79
Table 20A January-December 1977 (Counts).....	81
Table 20B January-December 1977 (Percents).....	83
Tables of Conservation Efforts Undertaken by Year House Built	
Table 21A April 1977-December 1978 (Counts).....	85
Table 21B April 1977-December 1978 (Percents).....	87
Table 22A January-December 1978 (Counts).....	89
Table 22B January-December 1978 (Percents).....	91
Table 23A January-December 1977 (Counts).....	93
Table 23B January-December 1977 (Percents).....	95
Tables of Conservation Efforts Undertaken by Air Conditioning	
Table 24A April 1977-December 1978 (Counts).....	97
Table 24B April 1977-December 1978 (Percents).....	99
Table 25A January-December 1978 (Counts).....	101
Table 25B January-December 1978 (Percents).....	103
Table 26A January-December 1977 (Counts).....	105
Table 26B January-December 1977 (Percents).....	107
Tables of Conservation Efforts Undertaken by 1977 Family Income	
Table 27A April 1977-December 1978 (Counts).....	109
Table 27B April 1977-December 1978 (Percents).....	111
Table 28A January-December 1978 (Counts).....	113
Table 28B January-December 1978 (Percents).....	115
Table 29A January-December 1977 (Counts).....	117
Table 29B January-December 1977 (Percents).....	119
Tables of Conservation Efforts Undertaken by Selected Demographic Characteristics	
Table 30A April 1977-December 1978 (Counts).....	121
Table 30B April 1977-December 1978 (Percents).....	123
Table 31A January-December 1978 (Counts).....	125
Table 31B January-December 1978 (Percents).....	127
Table 32A January-December 1977 (Counts).....	129
Table 32B January-December 1977 (Percents).....	131
United States Weather Zone Map.....	133
How the Survey was Conducted.....	135
Household Questionnaire.....	143
Glossary.....	177
Use of the Generalized Variance Tables.....	189

PREFACE

This is the fourth report of the Office of the Consumption Data System, Office of Program Development, Energy Information Administration, presenting final data from the National Interim Energy Consumption Survey (NIECS). The focus of this report is the conservation activities performed by households between January 1977 and December 1978, and the status of households with respect to insulation, storm windows, and other energy conserving characteristics. These tables are from the final data file that contains imputations for missing data and includes data from the mailed questionnaires.

Included in the report is a summary of findings, a description of how the survey was conducted, a copy of the questionnaire, generalized sampling errors, and a glossary of terms. This report supersedes the preliminary report (DOE/EIA-0193/P) dated August 1, 1979, for most purposes except where the user is interested in the extent of missing data.

The following EIA staff members have contributed to this project: Kenneth Vagts--Director, Office of the Consumption Data System; Lynda Carlson--manager for the residential sector; Wendel Thompson--NIECS survey manager; Lynn P. Handler--analysis; Bruce Egan and Leigh Carleton--table design and generation; Mike Maloney--systems design and data processing; Tom Woteki and Stuart Cohen--statistics; Diane M. Good, Cheryl D. Kozak, and Dotty Tate--secretarial and clerical work. The survey fieldwork was conducted by Response Analysis Corporation under the direction of Reuben Cohen and Dawn Day. The statistical design support was provided by Joseph Steinberg of Survey Design, Inc.

Final Conservation Findings

This report consists of four sets of conservation-related tables. The first set presents statistics on the presence of storm windows and doors and insulation in the housing inventory for the winter of 1978-79. The remaining three sets of tables are concerned with conservation additions made during three time periods: April 1977 through December 1978 (the period of eligibility for a 1978 energy tax credit), and the two calendar years of 1977 and 1978.

Each set consists of 16 tables. Conservation inventories and additions crossed by: census region (plus rural/urban), type of heating fuel, weather zones, type of building structure, year house built, type and presence of air conditioning, family income, and selected demographic characteristics. Each table is presented in two ways. The "A" series tables are given in weighted counts of housing units rounded to the nearest thousand. Series "B" tables are given in weighted column percentages. (Since each housing unit appears in more than one row, each subtotal in each column sums to 100 percent). Column percentages can only be used in making relative comparisons. Table 1B shows that 64 percent of the units in the Northeast have insulation materials covering all windows as compared to 62 percent in the North Central region. However, Table 1A shows that there are over three million more units in the North Central region with complete storm windows than in the Northeast. To make absolute comparisons, therefore, it is necessary to use the "A" series of tables.

The sample base for this report is 3,637. This figure includes all occupied residential buildings containing between one and four housing units in the National Interim Energy Consumption Survey (NIECS). Although buildings with five or more housing units were included in the survey, residents of these buildings were not asked about conservation additions or about the presence or absence of insulation. Therefore, they have been omitted from this report, but statistics on these units will be presented in other reports.

A series of weights was applied to the sample units to allow estimates to be made of the entire population. After weighting, the estimated population was equal to 76.6 million housing units. After excluding households in buildings with five or more units, the estimated population equalled 67.5 million housing units. The 100 percent figure given in the upper left hand corner in the "B" series tables represents this weighted number.

The results given in the preliminary version of this report¹ are slightly different from those presented here. The sample base has been increased by 189 households because data were obtained from a final follow-up effort using mail questionnaires. In addition, data items that were missing in the preliminary report have been imputed (see "How the Survey Was Conducted").

The first set of tables shows household inventories of conservation items. Displayed here are statistics on storm windows and doors; presence, type, and quantity of attic insulation; wall insulation; and whether or not rooms were closed off (left unheated) during the winter of 1977-78.

Forty-one percent (+2.6)² of the NIECS households had storm windows on all of their windows, 37 percent (+2.4) had storm doors, and 69 percent (+2.2) had some attic insulation. Approximately one-third of the households had closed off one or more rooms during the winter. Overall, 41 percent (+2.6) of the housing units had some or complete storm windows, storm doors, and attic insulation and 86 percent (+1.8) had at least one of these three types of insulating materials.³ The proportion of housing units having all three types of insulating materials varies substantially by region (Tables 1A and 1B). Units in the North Central region were three times more likely to contain storm windows, storm doors, and attic insulation than were units in the South. The proportion of housing units in the West having all these types of insulating materials was less than one-quarter of that found in the North Central region.

In housing units that utilized fuel oil or kerosene as their primary heating fuel, insulating materials were found more frequently than in units using other fuels (Tables 2A and 2B). Fifty-one percent (+5.8) of the fuel oil households had all 3 types of insulating materials and 93 percent (+3) had at least 1 type.⁴ All three types of insulating items were found more frequently in detached single-family houses than in other types of housing units (Tables 4A and 4B). For

¹Preliminary Conservation Tables From the National Interim Energy Consumption Survey, DOE/EIA-0193/P.

²Sampling errors are given for a 95 percent confidence level. For a discussion of sampling errors and a table for their computation, see page 189.

³Unless otherwise specified, for the purposes of this report, the terms "insulating items" and "insulating materials" refer to storm windows, storm doors, and attic insulation.

⁴For more detail on fuel oil households in the NIECS survey see Single Family Households: Fuel Oil Inventories and Expenditures, DOE/EIA-0207/1.

detached houses, the overall prevalence of insulating materials increased with the number of rooms in the house. Units that were either totally or partially air conditioned also tended to have more of these items than units without any air conditioning (Tables 6A and 6B).

Table 7B shows that, generally speaking, the presence of insulation went up as family income increased. Fifty-five percent (+6) of the households earning \$25,000 or more had storm windows, storm doors, and attic insulation while only 20 percent (+6.2) of the poor households (see Glossary) had all 3 types of these insulating materials. White respondents were twice as likely as black respondents to have all 3 types of insulating items, 43 percent (+2.8) versus 21 percent (+7.6), Table 8B. Households headed by married couples had significantly better insulated homes (46 percent (+3) had all 3 types) than unmarried household heads. Among those who were unmarried, there were no significant differences in the summary statistics between male and female heads of households.

The second set of tables gives statistics on conservation additions for the period of eligibility for an energy tax credit on Federal income taxes. In order to qualify for an energy tax credit, two criteria must be met. First, to be eligible, an addition had to have been made between April 20, 1977 and December 31, 1978. Second, additions were only considered to be eligible if they were made to houses built (or substantially completed) before April 20, 1977. The 16 tables in the second section give three classifications of eligibility. For this report, "eligible" additions were defined as those made during the appropriate time frame and to houses built in 1976 or earlier. "Ineligible" additions were made during the right time, but to houses built in 1977 or later.

Some sort of conservation-related equipment or insulating material was added to half, 50 percent (+2.8) of the eligible housing units. Most additions were relatively inexpensive. The most frequent additions were: caulking (25 percent), plastic covering (16 percent), and weatherstripping (15 percent). Of the eligible housing units, 41 percent (+2.6) of the households made an addition of this type. Expensive additions of insulating materials or any kind of equipment additions were undertaken by smaller numbers of respondents. At least one of the following types of insulation: storm doors, storm windows, and attic insulation was added by 17 percent (+2) of the eligible housing units. Eighteen percent (+2) of the households added expensive insulating material and/or expensive equipment. Half of the

households that added an expensive item also added an item from the category termed "inexpensive insulation."

The third and fourth sets of tables present statistics on conservation-related additions made during 1977 and 1978. In each of the two calendar years presented here, approximately one-third of the households added some sort of insulating material or equipment. Over two-thirds of the households making additions in each year added inexpensive items only. A large proportion of the additions made were in the category termed "inexpensive insulation". Twenty-nine percent (+2.4) of the households made an addition of this type in 1977 and 26 percent (+2.4) added "inexpensive insulation" in 1978. Within this category, the most popular additions included caulking, plastic coverings, and weatherstripping.

In each of the two years, approximately four percent (+1.2) of the households added either storm windows, storm doors, or attic insulation. In 1978, 10 percent (+1.6) of the households added at least one of these types of insulation and in 1977, the figure was 11 percent (+1.7). While there was some overlap, most of the households that added these types of insulating materials in 1978 were different households from those which added such items in 1977 (see the eligibility tables). In each of the two years, 11 percent (+1.7) added an expensive item of either equipment or insulation. While inexpensive modifications have predominated, approximately 10 percent of the households made at least one relatively expensive addition in each year.

TABLE 1A
EXISTING ENERGY-RELATED CHARACTERISTICS BY CENSUS REGIONS (WINTER 1978-79)
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	CENSUS REGIONS											
		NORTHEAST			NORTH CENTRAL			SOUTH			WEST		
		TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL
TOTAL HOUSING UNITS 1/	67,457	14,251	11,309	2,942	19,821	14,132	5,689	22,319	13,783	8,536	11,067	8,536	2,531
STORM WINDOWS													
ALL WINDOWS COVERED.....	27,463	9,130	7,292	1,837	12,380	8,612	3,768	4,404	2,416	1,989	1,550	669	881
SOME WINDOWS COVERED.....	13,687	3,784	2,759	1,026	5,395	4,063	1,332	3,155	1,917	1,238	1,352	643	709
NO WINDOWS COVERED.....	26,307	1,336	1,258	79	2,046	1,457	589	14,760	9,450	5,309	8,164	7,224	940
STORM DOORS													
ALL DOORS COVERED.....	25,003	6,810	5,254	1,556	12,086	8,566	3,520	4,860	2,480	2,380	1,247	740	507
SOME DOORS COVERED.....	16,362	4,285	3,140	1,145	4,747	3,399	1,349	5,612	3,603	2,009	1,717	1,048	669
NO DOORS COVERED.....	26,092	3,156	2,915	240	2,988	2,167	821	11,847	7,700	4,146	8,102	6,748	1,354
ATTIC INSULATION													
HAVE INSULATION.....	46,216	9,297	6,945	2,352	15,036	10,572	4,465	14,867	9,096	5,771	7,016	4,683	2,332
TYPE													
BATTS ONLY.....	21,724	5,391	3,755	1,636	6,980	4,986	1,994	6,553	3,746	2,308	2,800	1,506	1,294
LOOSE FILL ONLY.....	14,183	1,955	1,534	421	4,977	3,200	1,777	4,734	2,831	1,903	2,517	2,031	486
BATTS AND LOOSE.....	2,328	361	283	78	969	680	289	686	453	233	312	131	181
OTHER.....	750	61	31	31	181	93	88	293	205	88	215	115	100
TYPE UNKNOWN.....	7,231	1,528	1,342	187	1,930	1,613	317	2,601	1,861	740	1,172	901	271
QUANTITY													
LESS THAN 3 INCHES.....	1,781	385	342	43	426	399	27	520	360	150	449	247	202
3 TO 6 INCHES.....	21,919	4,095	2,863	1,231	7,324	4,925	2,399	7,369	4,056	3,313	3,151	1,819	1,312
MORE THAN 6 INCHES.....	6,637	1,366	956	410	2,857	1,736	1,121	1,463	913	551	951	551	299
QUANTITY UNKNOWN.....	15,879	3,451	2,784	668	4,429	3,511	918	5,514	3,766	1,747	2,485	1,966	519
NO INSULATION.....	13,023	2,751	2,241	510	2,800	1,931	869	4,962	2,871	2,090	2,511	2,378	134
DONT KNOW.....	8,218	2,203	2,123	80	1,985	1,530	355	2,491	1,816	675	1,540	1,475	65
HAVE WALL INSULATION													
YES.....	34,004	7,161	5,197	1,963	11,179	7,186	3,993	10,942	6,182	4,760	4,723	2,869	1,854
NO.....	18,549	3,586	2,959	627	4,539	3,486	1,053	6,667	4,021	2,646	3,756	3,207	549
DONT KNOW.....	14,904	3,504	3,153	351	4,104	3,461	643	4,709	3,580	1,129	2,588	2,460	127
ROOM(S) CLOSED OFF WINTER 1978-79													
YES.....	20,358	3,085	2,402	684	6,427	4,222	2,205	8,397	4,591	3,806	2,947	2,048	899
NO.....	39,186	9,337	7,286	2,051	11,445	8,493	2,952	11,486	7,379	4,111	6,918	5,531	1,387
DID NOT LIVE HERE LAST WINTER..	7,414	1,827	1,621	206	1,949	1,417	533	2,436	1,816	619	1,202	957	245

See footnotes at end of table.

TABLE 1A
EXISTING ENERGY-RELATED CHARACTERISTICS BY CENSUS REGIONS (WINTER 1978-79)-CONTINUED
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	CENSUS REGIONS											
		NORTHEAST			NORTH CENTRAL			SOUTH			WEST		
		TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL
UNITS WITH SOME OR ALL STORM WINDOWS, AND SOME OR ALL STORM DOORS, AND ATTIC OR ROOF INSULATION.....	27,469	7,793	5,599	2,194	13,107	9,327	3,780	4,958	2,756	2,202	1,610	748	862
UNITS WITH ONE OR MORE OF THESE TYPES OF INSULATION.....	57,725	13,630	10,709	2,921	19,087	13,567	5,519	17,407	10,676	6,730	7,601	5,166	2,435
UNITS WITH NONE OF THESE TYPES OF INSULATION.....	9,733	620	600	20	734	564	170	4,912	3,107	1,805	3,466	3,370	96

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "--" REPRESENTS OR ROUNDS TO ZERO.
SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 1B
EXISTING ENERGY-RELATED CHARACTERISTICS BY CENSUS REGIONS (WINTER 1978-79)
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	CENSUS REGIONS											
		NORTHEAST			NORTH CENTRAL			SOUTH			WEST		
		TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
STORM WINDOWS													
ALL WINDOWS COVERED.....	41	64	64	52	62	61	66	20	18	23	14	8	35
SOME WINDOWS COVERED.....	20	27	24	35	27	29	23	14	14	15	12	8	28
NO WINDOWS COVERED.....	39	9	11	3	10	10	10	66	69	62	74	85	37
STORM DOORS													
ALL DOORS COVERED.....	37	48	46	53	61	61	62	22	18	28	11	9	20
SOME DOORS COVERED.....	24	30	28	39	24	24	24	25	26	24	15	12	26
NO DOORS COVERED.....	39	22	26	8	15	15	14	53	56	49	73	79	54
ATTIC INSULATION													
HAVE INSULATION.....	69	65	61	80	76	75	78	67	66	68	63	55	92
TYPE													
BATTS ONLY.....	32	38	33	56	35	35	35	29	27	33	25	18	51
LOOSE FILL ONLY.....	21	14	14	14	25	23	31	21	21	22	23	24	19
BATTS AND LOOSE.....	3	3	3	3	5	5	5	3	3	3	3	2	7
OTHER.....	1	-	-	1	1	1	2	1	1	1	2	1	4
TYPE UNKNOWN.....	11	11	12	6	10	11	6	12	13	9	11	11	11
QUANTITY													
LESS THAN 3 INCHES.....	3	3	3	1	2	3	-	2	3	2	4	3	8
3 TO 6 INCHES.....	32	29	25	42	37	35	42	33	29	39	28	21	52
MORE THAN 6 INCHES.....	10	10	8	14	14	12	20	7	7	6	9	8	12
QUANTITY UNKNOWN.....	24	24	25	23	22	25	16	25	27	20	22	23	21
NO INSULATION.....	19	19	20	17	14	14	15	22	21	24	23	28	5
DONT KNOW.....	12	15	19	3	10	12	6	11	13	8	14	17	3
HAVE WALL INSULATION													
YES.....	50	50	46	67	56	51	70	49	45	56	43	34	73
NO.....	27	25	26	21	23	25	19	30	29	31	34	38	22
DONT KNOW.....	22	25	28	12	21	24	11	21	26	13	23	29	5
ROOM(S) CLOSED OFF WINTER 1978-79													
YES.....	31	22	21	23	32	30	39	38	33	45	27	24	36
NO.....	58	66	64	70	58	60	52	51	54	48	63	65	55
DID NOT LIVE HERE LAST WINTER..	11	13	14	7	10	10	9	11	13	7	11	11	10

See footnotes at end of table.

TABLE 1B
EXISTING ENERGY-RELATED CHARACTERISTICS BY CENSUS REGIONS (WINTER 1978-79)-CONTINUED
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	CENSUS REGIONS											
		NORTHEAST			NORTH CENTRAL			SOUTH			WEST		
		TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL
UNITS WITH SOME OR ALL STORM WINDOWS, AND SOME OR ALL STORM DOORS, AND ATTIC OR ROOF INSULATION.....	41	55	50	75	66	66	69	22	29	25	15	9	34
UNITS WITH ONE OR MORE OF THESE TYPES OF INSULATION.....	85	96	95	99	96	96	97	78	77	79	69	61	96
UNITS WITH NONE OF THESE TYPES OF INSULATION.....	14	4	5	1	4	4	3	22	23	21	51	39	4

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "--" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 2A
EXISTING ENERGY-RELATED CHARACTERISTICS BY PRIMARY HEATING FUEL (WINTER 1978-79)
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	TYPE OF PRIMARY HEATING FUEL					
		NATURAL GAS	FUEL OIL, KEROSENE	LP6	ELECTRIC	WOOD	OTHER, NONE
TOTAL HOUSING UNITS 1/.....	67,457	37,418	14,892	3,102	9,568	1,885	592
STORM WINDOWS							
ALL WINDOWS COVERED.....	27,463	14,444	7,637	820	4,238	292	33
SOME WINDOWS COVERED.....	13,687	7,324	4,109	424	1,396	331	103
NO WINDOWS COVERED.....	26,307	15,650	3,146	1,858	3,935	1,262	456
STORM DOORS							
ALL DOORS COVERED.....	25,003	14,157	6,916	394	2,513	418	107
SOME DOORS COVERED.....	16,362	8,589	4,354	493	2,375	398	153
NO DOORS COVERED.....	26,092	14,672	3,622	1,715	4,681	1,069	332
ATTIC INSULATION							
HAVE INSULATION.....	46,216	24,255	10,211	2,387	8,132	1,081	150
TYPE							
BATTS ONLY.....	21,724	11,231	5,323	1,250	3,059	779	83
LOOSE FILL ONLY.....	14,183	7,196	2,980	639	3,104	197	68
BATTS AND LOOSE.....	2,328	1,376	453	35	449	15	-
OTHER.....	750	313	193	18	205	21	-
TYPE UNKNOWN.....	7,231	4,139	1,262	445	1,314	69	-
QUANTITY							
LESS THAN 3 INCHES.....	1,781	1,160	201	39	278	103	-
3 TO 6 INCHES.....	21,919	11,025	5,601	1,205	3,400	621	67
MORE THAN 6 INCHES.....	6,637	2,997	1,421	245	1,851	91	33
QUANTITY UNKNOWN.....	15,879	9,073	2,989	398	2,603	266	50
NO INSULATION.....	13,023	7,830	2,999	610	588	564	331
DONT KNOW.....	8,218	5,333	1,632	104	843	140	110
HAVE WALL INSULATION							
YES.....	34,004	16,778	7,431	1,922	6,892	963	119
NO.....	18,549	11,075	4,220	911	1,211	894	337
DONT KNOW.....	14,904	9,565	3,241	370	1,465	128	136
ROOM(S) CLOSED OFF WINTER 1978-79							
YES.....	20,958	10,895	4,337	1,136	3,358	935	146
NO.....	39,136	22,882	8,993	1,535	4,611	800	363
DID NOT LIVE HERE LAST WINTER..	7,414	3,640	1,512	430	1,599	150	83

See footnotes at end of table.

TABLE 2A
 EXISTING ENERGY-RELATED CHARACTERISTICS BY PRIMARY HEATING FUEL (WINTER 1978-79)-CONTINUED
 (THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	TYPE OF PRIMARY HEATING FUEL					
		NATURAL GAS	FUEL OIL, KEROSENE	LPG	ELECTRIC	WOOD	OTHER, NONE
UNITS WITH SOME OR ALL STORM WINDOWS, AND SOME OR ALL STORM DOORS, AND ATTIC OR ROOF INSULATION.....	27,468	15,128	7,635	793	3,474	355	82
UNITS WITH ONE OR MORE OF THESE TYPES OF INSULATION.....	57,725	30,767	13,827	2,648	8,823	1,350	310
UNITS WITH NONE OF THESE TYPES OF INSULATION.....	9,733	6,651	1,065	454	745	536	281

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 2B
EXISTING ENERGY-RELATED CHARACTERISTICS BY PRIMARY HEATING FUEL (WINTER 1978-79)
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	TYPE OF PRIMARY HEATING FUEL					
		NATURAL GAS	FUEL OIL, KEROSENE	LPG	ELECTRIC	WOOD	OTHER, NONE
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%	100%
STORM WINDOWS							
ALL WINDOWS COVERED.....	41	39	51	26	44	15	6
SOME WINDOWS COVERED.....	20	20	28	14	15	18	17
NO WINDOWS COVERED.....	39	42	21	60	41	67	77
STORM DOORS							
ALL DOORS COVERED.....	37	38	46	29	26	22	18
SOME DOORS COVERED.....	24	23	29	16	25	21	26
NO DOORS COVERED.....	39	39	24	55	49	57	56
ATTIC INSULATION							
HAVE INSULATION.....	69	65	69	77	85	57	25
TYPE							
Batts ONLY.....	32	30	36	40	32	41	14
Loose fill ONLY.....	21	19	20	21	32	10	11
Batts and loose.....	3	4	3	1	5	1	-
Other.....	1	1	1	1	2	1	-
Type unknown.....	11	11	8	14	14	4	-
QUANTITY							
Less than 3 inches.....	3	3	1	1	3	5	-
3 to 6 inches.....	32	29	38	39	36	33	11
More than 6 inches.....	10	8	10	8	19	5	6
Quantity unknown.....	24	24	20	29	27	14	8
NO INSULATION.....	19	21	20	20	6	35	56
DONT KNOW.....	12	14	11	3	9	7	19
HAVE WALL INSULATION							
YES.....	50	45	50	62	72	46	20
NO.....	27	30	28	26	13	47	57
DONT KNOW.....	22	26	22	12	15	7	23
ROOM(S) CLOSED OFF WINTER 1978-79							
YES.....	31	29	29	37	35	50	25
NO.....	58	61	60	50	48	42	61
DID NOT LIVE HERE LAST WINTER..	11	10	10	14	17	8	14

See footnotes at end of table.

TABLE 2B
EXISTING ENERGY-RELATED CHARACTERISTICS BY PRIMARY HEATING FUEL (WINTER 1978-79)-CONTINUED
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	TYPE OF PRIMARY HEATING FUEL					
		NATURAL GAS	FUEL OIL, KEROSENE	LPG	ELECTRIC	WOOD	OTHER, NONE
UNITS WITH SOME OR ALL STORM WINDOWS, AND SOME OR ALL STORM DOORS, AND ATTIC OR ROOF INSULATION.....	41	40	51	25	36	19	14
UNITS WITH ONE OR MORE OF THESE TYPES OF INSULATION.....	86	82	93	85	92	72	52
UNITS WITH NONE OF THESE TYPES OF INSULATION.....	14	18	7	15	8	28	48

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

**TABLE 3A
EXISTING ENERGY-RELATED CHARACTERISTICS BY DEGREE DAYS (WINTER 1978-79)
(THOUSAND HOUSING UNITS)**

	TOTAL HOUSING UNITS	HEATING AND COOLING DEGREE DAYS				
		<2000 CDD AND >7000 HDD	<2000 CDD AND 5500-7000 HDD	<2000 CDD AND 4000-5499 HDD	<2000 CDD AND <4000 HDD	>2000 CDD AND <4000 HDD
TOTAL HOUSING UNITS 1/.....	67,457	5,766	19,605	17,397	14,520	10,169
STORM WINDOWS						
ALL WINDOWS COVERED.....	27,463	4,205	11,432	8,792	2,377	658
SOME WINDOWS COVERED.....	13,687	1,211	4,947	4,999	1,799	731
NO WINDOWS COVERED.....	26,307	350	3,226	3,606	10,344	8,780
STORM DOORS						
ALL DOORS COVERED.....	25,003	2,658	11,178	7,669	2,519	960
SOME DOORS COVERED.....	16,352	1,520	4,891	5,291	2,856	1,695
NO DOORS COVERED.....	26,032	1,488	3,517	4,437	9,136	7,514
ATTIC INSULATION						
HAVE INSULATION.....	46,216	4,642	15,056	11,282	9,079	6,157
TYPE						
BATTS ONLY.....	21,724	1,749	8,062	5,976	3,363	2,975
LOOSE FILL ONLY.....	14,183	1,958	3,758	2,994	3,505	1,959
BATTS AND LOOSE.....	2,323	255	990	572	296	316
OTHER.....	750	27	216	154	275	78
TYPE UNKNOWN.....	7,231	643	2,130	1,587	1,641	1,229
QUANTITY						
LESS THAN 3 INCHES.....	1,741	96	570	457	556	102
3 TO 6 INCHES.....	21,917	1,779	7,186	5,854	4,034	3,005
MORE THAN 6 INCHES.....	6,637	1,323	2,565	1,390	928	532
QUANTITY UNKNOWN.....	15,877	1,444	4,735	3,582	3,501	2,517
NO INSULATION.....	13,023	584	2,423	3,724	3,823	2,470
DONT KNOW.....	3,218	540	2,127	2,391	1,619	1,542
HAVE WALL INSULATION						
YES.....	34,004	3,759	11,261	8,544	6,537	3,903
NO.....	18,540	1,040	3,979	5,031	4,725	3,775
DONT KNOW.....	14,904	966	4,365	3,822	3,259	2,491
ROOM(S) CLOSED OFF WINTER 1978-79						
YES.....	20,858	1,410	5,023	5,631	5,708	3,091
NO.....	33,186	3,093	12,779	10,052	7,423	5,769
DID NOT LIVE HERE LAST WINTER.....	7,414	1,263	1,798	1,713	1,320	1,319

See footnotes at end of table.

TABLE 3A
 EXISTING ENERGY-RELATED CHARACTERISTICS BY DEGREE DAYS (WINTER 1978-79)-CONTINUED
 (THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	HEATING AND COOLING DEGREE DAYS				
		<2000 CDD AND >7000 HDD	<2000 CDD AND 5500-7000 HDD	<2000 CDD AND 4000-5499 HDD	<2000 CDD AND <4000 HDD	>2000 CDD AND <4000 HDD
UNITS WITH SOME OR ALL STORM WINDOWS, AND SOME OR ALL STORM DOORS, AND ATTIC OR ROOF INSULATION.....	27,449	3,316	12,213	8,503	2,747	688
UNITS WITH ONE OR MORE OF THESE TYPES OF INSULATION.....	57,725	5,710	18,721	16,126	10,297	6,971
UNITS WITH NONE OF THESE TYPES OF INSULATION.....	1,733	56	984	1,271	4,224	3,298

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 3B
EXISTING ENERGY-RELATED CHARACTERISTICS BY DEGREE DAYS (WINTER 1978-79)
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	HEATING AND COOLING DEGREE DAYS				
		<2000 CDD AND >7000 HDD	<2000 CDD AND 5500-7000 HDD	<2000 CDD AND 4000-5499 HDD	<2000 CDD AND <4000 HDD	>2000 CDD AND <4000 HDD
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%
STORM WINDOWS						
ALL WINDOWS COVERED.....	41	73	58	51	16	6
SOME WINDOWS COVERED.....	20	21	25	29	12	7
NO WINDOWS COVERED.....	39	6	16	21	71	86
STORM DOORS						
ALL DOORS COVERED.....	37	46	57	44	17	9
SOME DOORS COVERED.....	24	28	25	30	20	17
NO DOORS COVERED.....	39	26	18	26	63	74
ATTIC INSULATION						
HAVE INSULATION.....	69	81	77	65	63	61
TYPE						
BATTS ONLY.....	32	30	41	34	23	25
LOOSE FILL ONLY.....	21	34	19	17	24	19
BATTS AND LOOSE.....	5	4	5	3	2	3
OTHER.....	1	-	1	1	2	1
TYPE UNKNOWN.....	11	11	11	9	11	12
QUANTITY						
LESS THAN 3 INCHES.....	5	2	3	3	4	1
3 TO 6 INCHES.....	32	31	37	34	28	30
MORE THAN 6 INCHES.....	10	23	13	9	6	5
QUANTITY UNKNOWN.....	24	25	24	21	25	25
NO INSULATION.....	19	10	12	21	26	24
DONT KNOW.....	12	9	11	14	11	15
HAVE WALL INSULATION						
YES.....	50	65	57	49	45	38
NO.....	27	18	20	29	33	37
DONT KNOW.....	22	17	22	22	22	24
ROOM(S) CLOSED OFF WINTER 1978-79						
YES.....	31	24	26	32	39	30
NO.....	52	54	65	58	52	57
DID NOT LIVE HERE LAST WINTER.....	11	22	9	10	7	13

See footnotes at end of table.

TABLE 3B
EXISTING ENERGY-RELATED CHARACTERISTICS BY DEGREE DAYS (WINTER 1978-79)-CONTINUED
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	HEATING AND COOLING DEGREE DAYS				
		<2000 CDD AND >7000 HDD	<2000 CDD AND 5500-7000 HDD	<2000 CDD AND 4000-5499 HDD	<2000 CDD AND <4000 HDD	>2000 CDD AND <4000 HDD
UNITS WITH SOME OR ALL STORM WINDOWS, AND SOME OR ALL STORM DOORS, AND ATTIC OR ROOF INSULATION.....	41	58	62	49	19	7
UNITS WITH ONE OR MORE OF THESE TYPES OF INSULATION.....	86	99	95	73	71	68
UNITS WITH NONE OF THESE TYPES OF INSULATION.....	14	1	5	7	29	32

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

**TABLE 4A
EXISTING ENERGY-RELATED CHARACTERISTICS BY TYPE OF HOUSING STRUCTURE (WINTER 1978-79)
(THOUSAND HOUSING UNITS)**

	TOTAL HOUSING UNITS	SINGLE FAMILY DETACHED					SINGLE FAMILY ATTACHED	BUILDING WITH 2-4 UNITS	MOBILE HOME	OTHER
		TOTAL	1-4 ROOMS	5 ROOMS	6 ROOMS	7 OR MORE ROOMS				
TOTAL HOUSING UNITS 1/.....	67,457	48,547	8,768	12,696	11,850	15,233	3,128	10,749	4,805	228
STORM WINDOWS										
ALL WINDOWS COVERED.....	27,463	19,719	2,622	5,071	4,984	7,040	1,721	4,220	1,708	96
SOME WINDOWS COVERED.....	13,687	10,776	1,655	2,456	2,821	3,844	342	1,892	618	59
NO WINDOWS COVERED.....	26,307	18,053	4,491	5,169	4,045	4,349	1,066	4,637	2,478	73
STORM DOORS										
ALL DOORS COVERED.....	25,003	19,379	3,486	5,238	4,984	5,666	1,535	3,045	988	60
SOME DOORS COVERED.....	15,352	13,168	1,522	3,244	3,196	5,206	504	1,374	1,125	91
NO DOORS COVERED.....	26,092	15,999	3,760	4,214	3,665	4,360	992	6,332	2,691	78
ATTIC INSULATION										
HAVE INSULATION.....	46,216	37,419	5,129	9,632	9,440	13,210	1,648	3,775	3,242	141
TYPE										
BATTS ONLY.....	21,724	18,114	2,846	4,515	4,454	6,296	616	1,327	1,540	127
LOOSE FILL ONLY.....	14,133	12,007	1,295	3,080	3,087	4,545	674	1,214	274	14
BATTS AND LOOSE.....	2,328	2,265	199	677	591	798	15	31	17	-
OTHER.....	750	674	123	136	214	200	-	-	76	-
TYPE UNKNOWN.....	7,231	4,350	666	1,224	1,099	1,371	343	1,203	1,334	-
QUANTITY										
LESS THAN 3 INCHES.....	1,741	1,466	251	311	417	487	89	112	99	14
3 TO 6 INCHES.....	21,919	18,804	2,522	4,843	5,001	6,439	730	1,118	1,220	47
MORE THAN 6 INCHES.....	6,637	5,614	639	1,561	1,323	2,086	283	521	219	-
QUANTITY UNKNOWN.....	15,879	11,526	1,718	2,317	2,694	4,198	546	2,023	1,794	30
NO INSULATION.....	13,023	8,074	2,594	1,999	2,035	1,441	820	3,094	996	40
DONT KNOW.....	8,213	3,063	1,041	1,065	375	582	661	3,880	566	48
HAVE WALL INSULATION										
YES.....	34,004	26,106	3,513	6,753	6,689	9,151	1,374	3,060	3,390	74
NO.....	18,549	13,950	3,586	3,419	3,380	3,564	866	2,933	678	121
DONT KNOW.....	14,704	8,491	1,669	2,524	1,781	2,517	888	4,755	736	33
ROOM(S) CLOSED OFF WINTER 1978-79										
YES.....	20,848	17,371	2,812	4,268	4,542	5,749	718	1,539	1,206	25
NO.....	39,186	27,591	5,133	7,425	6,776	8,257	2,143	5,696	2,614	141
DID NOT LIVE HERE LAST WINTER..	7,414	3,585	823	1,003	531	1,227	267	2,515	985	62

See footnotes at end of table.

11/13/79
11/14/79
11/15/79

TABLE 4A
 EXISTING ENERGY-RELATED CHARACTERISTICS BY TYPE OF HOUSING STRUCTURE (WINTER 1978-79)-CONTINUED
 (THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	SINGLE FAMILY DETACHED					SINGLE FAMILY ATTACHED	BUILDING WITH 2-4 UNITS	MOBILE HOME	OTHER
		TOTAL	1-4 ROOMS	5 ROOMS	6 ROOMS	7 OR MORE ROOMS				
UNITS WITH SOME OR ALL STORM WINDOWS, AND SOME OR ALL STORM DOORS, AND ATTIC OR ROOF INSULATION.....	27,461	23,462	2,705	5,799	6,387	8,572	1,225	1,413	1,272	36
UNITS WITH ONE OR MORE OF THESE TYPES OF INSULATION.....	57,725	43,023	6,755	11,069	10,604	14,596	2,613	7,899	3,980	209
UNITS WITH NONE OF THESE TYPES OF INSULATION.....	9,733	5,524	2,014	1,528	1,246	636	515	2,850	824	29

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 4B
EXISTING ENERGY-RELATED CHARACTERISTICS BY TYPE OF HOUSING STRUCTURE (WINTER 1978-79)
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	SINGLE FAMILY DETACHED					SINGLE FAMILY ATTACHED	BUILDING WITH 2-4 UNITS	MOBILE HOME	OTHER
		TOTAL	1-4 ROOMS	5 ROOMS	6 ROOMS	7 OR MORE ROOMS				
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
STORM WINDOWS										
ALL WINDOWS COVERED.....	41	41	30	40	42	46	55	39	35	42
SOME WINDOWS COVERED.....	20	22	19	19	24	25	11	18	13	25
NO WINDOWS COVERED.....	39	37	51	41	34	29	34	43	52	32
STORM DOORS										
ALL DOORS COVERED.....	37	40	40	41	42	37	49	28	21	26
SOME DOORS COVERED.....	24	27	17	26	27	34	19	13	23	40
NO DOORS COVERED.....	39	33	43	33	31	29	32	59	56	34
ATTIC INSULATION										
HAVE INSULATION.....	69	77	58	76	80	87	53	35	67	62
TYPE										
BATTS ONLY.....	32	37	32	36	38	41	20	12	32	55
LOOSE FILL ONLY.....	21	25	15	24	26	30	22	11	6	6
BATTS AND LOOSE.....	3	5	2	5	5	5	-	-	-	-
OTHER.....	1	1	1	1	2	1	-	-	2	-
TYPE UNKNOWN.....	11	9	8	10	9	9	11	11	28	-
QUANTITY										
LESS THAN 3 INCHES.....	3	3	3	2	4	3	3	1	2	5
3 TO 6 INCHES.....	32	32	29	38	42	42	23	10	25	20
MORE THAN 6 INCHES.....	10	12	7	12	11	14	9	5	5	-
QUANTITY UNKNOWN.....	24	24	20	23	23	28	17	19	35	35
NO INSULATION.....	19	17	30	16	17	9	26	29	21	17
DONT KNOW.....	12	6	12	8	3	4	21	36	12	21
HAVE WALL INSULATION										
YES.....	50	54	40	53	56	60	44	28	71	32
NO.....	27	29	41	27	29	23	28	27	14	53
DONT KNOW.....	22	17	19	20	15	17	28	44	15	14
ROOM(S) CLOSED OFF WINTER 1978-79										
YES.....	31	35	32	34	38	38	23	14	25	11
NO.....	58	57	59	58	57	54	69	62	54	62
DID NOT LIVE HERE LAST WINTER..	11	7	9	8	4	8	9	23	20	27

See footnotes at end of table.

TABLE 4B
EXISTING ENERGY-RELATED CHARACTERISTICS BY TYPE OF HOUSING STRUCTURE (WINTER 1978-79)-CONTINUED
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	SINGLE FAMILY DETACHED					SINGLE FAMILY ATTACHED	BUILDING WITH 2-4 UNITS	MOBILE HOME	OTHER
		TOTAL	1-4 ROOMS	5 ROOMS	6 ROOMS	7 OR MORE ROOMS				
UNITS WITH SOME OR ALL STORM WINDOWS, AND SOME OR ALL STORM DOORS, AND ATTIC OR ROOF INSULATION.....	41	48	31	45	54	56	39	13	26	42
UNITS WITH ONE OR MORE OF THESE TYPES OF INSULATION.....	86	89	77	87	89	96	84	73	83	91
UNITS WITH NONE OF THESE TYPES OF INSULATION.....	14	11	23	13	11	4	16	27	17	9

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

**TABLE 5A
EXISTING ENERGY-RELATED CHARACTERISTICS BY YEAR HOUSE BUILT (WINTER 1978-79)
(THOUSAND HOUSING UNITS)**

	TOTAL HOUSING UNITS	YEAR HOUSE BUILT						
		1975 OR LATER	1970 TO 1974	1965 TO 1969	1960 TO 1964	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
		TOTAL HOUSING UNITS 1/.....	67,457	4,869	7,498	6,493	6,530	12,480
STORM WINDOWS								
ALL WINDOWS COVERED.....	27,463	2,853	3,372	2,253	2,284	4,954	2,723	9,024
SOME WINDOWS COVERED.....	13,687	374	890	371	1,302	2,617	1,525	6,009
NO WINDOWS COVERED.....	26,307	1,641	3,237	3,269	2,944	4,910	3,141	7,165
STORM DOORS								
ALL DOORS COVERED.....	25,003	1,060	1,954	1,475	2,129	5,766	3,159	9,460
SOME DOORS COVERED.....	16,362	999	1,743	1,726	1,738	3,230	1,723	4,953
NO DOORS COVERED.....	26,092	2,809	3,601	3,292	2,614	3,484	2,507	7,785
ATTIC INSULATION								
HAVE INSULATION.....	46,216	4,209	5,525	4,641	5,358	10,032	4,823	11,628
TYPE								
BATTS ONLY.....	21,724	1,494	2,425	2,085	2,339	5,498	2,438	5,445
LOOSE FILL ONLY.....	14,193	1,713	1,594	1,409	1,546	2,909	1,315	3,698
BATTS AND LOOSE.....	2,328	126	181	146	343	591	336	545
OTHER.....	750	74	62	75	138	118	65	217
TYPE UNKNOWN.....	7,231	742	1,262	326	991	916	670	1,723
QUANTITY								
LESS THAN 3 INCHES.....	1,791	126	104	117	307	506	168	453
3 TO 6 INCHES.....	21,919	1,264	2,375	2,216	2,239	5,295	2,667	5,862
MORE THAN 6 INCHES.....	6,637	1,402	1,120	548	720	1,374	354	1,119
QUANTITY UNKNOWN.....	15,879	1,417	1,926	1,760	2,091	2,857	1,635	4,194
NO INSULATION.....	13,023	250	777	906	674	1,630	1,464	7,322
DONT KNOW.....	8,218	410	1,196	346	499	818	1,102	3,248
HAVE WALL INSULATION								
YES.....	34,004	4,070	5,195	3,808	3,636	6,431	3,266	7,598
NO.....	19,549	279	882	1,037	1,341	3,708	2,179	9,123
DONT KNOW.....	14,304	520	1,422	1,648	1,553	2,341	1,943	5,477
ROOM(S) CLOSED OFF WINTER 1978-79								
YES.....	20,858	1,016	2,325	1,442	2,318	4,030	2,453	7,213
NO.....	39,186	2,486	4,080	4,002	3,759	7,746	4,264	12,849
DID NOT LIVE HERE LAST WINTER..	7,414	1,356	1,092	1,050	453	654	662	2,137

See footnotes at end of table.

TABLE 5A
EXISTING ENERGY-RELATED CHARACTERISTICS BY YEAR HOUSE BUILT (WINTER 1978-79)-CONTINUED
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	YEAR HOUSE BUILT						
		1975 OR LATER	1970 TO 1974	1965 TO 1969	1960 TO 1964	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
		UNITS WITH SOME OR ALL STORM WINDOWS, AND SOME OR ALL STORM DOORS, AND ATTIC OR ROOF INSULATION.....	27,462	1,646	2,777	1,975	2,801	6,559
UNITS WITH ONE OR MORE OF THESE TYPES OF INSULATION.....	57,725	4,482	6,350	5,582	5,863	11,099	6,092	18,255
UNITS WITH NONE OF THESE TYPES OF INSULATION.....	9,733	386	1,148	911	667	1,381	1,297	3,943

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "--" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 5B
EXISTING ENERGY-RELATED CHARACTERISTICS BY YEAR HOUSE BUILT (WINTER 1978-79)
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	YEAR HOUSE BUILT						
		1975 OR LATER	1970 TO 1974	1965 TO 1969	1960 TO 1964	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%	100%	100%
STORM WINDOWS								
ALL WINDOWS COVERED.....	41	59	45	35	35	40	37	41
SOME WINDOWS COVERED.....	20	8	12	15	20	21	21	27
NO WINDOWS COVERED.....	39	34	43	50	45	39	43	32
STORM DOORS								
ALL DOORS COVERED.....	37	22	26	23	33	46	43	43
SOME DOORS COVERED.....	24	21	26	27	27	25	23	22
NO DOORS COVERED.....	39	58	48	51	40	28	34	35
ATTIC INSULATION								
HAVE INSULATION.....	69	86	74	71	82	90	65	52
TYPE								
BATTS ONLY.....	32	31	32	32	36	44	33	25
LOOSE FILL ONLY.....	21	35	21	22	24	23	18	17
BATTS AND LOOSE.....	3	4	2	2	5	5	5	2
OTHER.....	1	?	1	1	2	1	1	1
TYPE UNKNOWN.....	11	15	17	14	15	7	9	8
QUANTITY								
LESS THAN 3 INCHES.....	3	3	1	2	5	4	2	2
3 TO 6 INCHES.....	32	26	32	34	34	42	36	26
MORE THAN 6 INCHES.....	10	29	15	8	11	11	5	5
QUANTITY UNKNOWN.....	24	29	26	27	32	23	22	19
NO INSULATION.....	19	5	10	14	10	13	20	33
DONT KNOW.....	12	8	16	15	8	7	15	15
HAVE WALL INSULATION								
YES.....	50	84	69	59	56	52	44	34
NO.....	27	6	12	16	21	30	29	41
DONT KNOW.....	23	11	19	25	24	19	26	25
ROOM(S) CLOSED OFF WINTER 1978-79								
YES.....	31	21	31	22	36	33	33	32
NO.....	58	51	54	62	58	62	58	58
DID NOT LIVE HERE LAST WINTER..	11	28	15	16	7	5	9	10

See footnotes at end of table.

TABLE 5B
EXISTING ENERGY-RELATED CHARACTERISTICS BY YEAR HOUSE BUILT (WINTER 1978-79)-CONTINUED
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	YEAR HOUSE BUILT						
		1975 OR LATER	1970 TO 1974	1965 TO 1969	1960 TO 1964	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
		UNITS WITH SOME OR ALL STORM WINDOWS, AND SOME OR ALL STORM DOORS, AND ATTIC OR ROOF INSULATION.....	41	54	37	30	43	53
UNITS WITH ONE OR MORE OF THESE TYPES OF INSULATION.....	34	32	35	36	39	33	32	32
UNITS WITH NONE OF THESE TYPES OF INSULATION.....	14	8	15	14	10	11	12	18

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 6A
EXISTING ENERGY-RELATED CHARACTERISTICS BY TYPE OF AIR CONDITIONING (WINTER 1978-79)
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	NUMBER OF ROOMS WITH AIR CONDITIONING			CENTRAL AIR CONDITIONING ONLY	INDIVIDUAL ROOM UNITS ONLY	CENTRAL A/C AND ROOM UNITS
		NONE	SOME	ALL			
TOTAL HOUSING UNITS 1/.....	67,457	29,936	17,775	19,747	15,012	22,274	235
STORM WINDOWS							
ALL WINDOWS COVERED.....	27,463	11,309	8,246	7,909	6,484	9,589	81
SOME WINDOWS COVERED.....	13,697	6,218	4,249	3,220	2,317	5,067	85
NO WINDOWS COVERED.....	26,307	12,409	5,280	8,618	6,211	7,618	69
STORM DOORS							
ALL DOORS COVERED.....	25,003	10,363	8,184	6,457	4,974	9,587	80
SOME DOORS COVERED.....	16,362	6,358	4,616	5,387	4,176	5,745	82
NO DOORS COVERED.....	26,092	13,214	4,975	7,903	5,863	6,942	74
ATTIC INSULATION							
HAVE INSULATION.....	46,216	18,058	12,215	15,943	12,854	15,069	235
TYPE							
BATTS ONLY.....	21,724	9,714	6,077	6,933	5,140	7,732	138
LOOSE FILL ONLY.....	14,183	5,022	3,497	5,664	4,897	4,167	98
BATTS AND LOOSE.....	2,328	971	539	918	804	653	-
OTHER.....	750	332	179	240	149	269	-
TYPE UNKNOWN.....	7,231	3,119	1,923	2,188	1,864	2,247	-
QUANTITY							
LESS THAN 3 INCHES.....	1,781	777	532	472	324	642	38
3 TO 6 INCHES.....	21,919	8,663	5,726	7,530	6,031	7,113	112
MORE THAN 6 INCHES.....	6,637	2,738	1,375	2,525	2,260	1,574	65
QUANTITY UNKNOWN.....	15,879	5,880	4,583	5,416	4,239	5,740	19
NO INSULATION.....	13,023	7,904	3,557	1,561	756	4,364	-
DONT KNOW.....	8,218	3,974	2,001	2,243	1,402	2,842	-
HAVE WALL INSULATION							
YES.....	34,004	13,788	8,288	11,928	9,705	10,378	133
NO.....	19,549	9,237	5,490	3,322	2,588	6,689	35
DONT KNOW.....	14,904	6,910	3,996	3,997	2,718	5,208	68
ROOM(S) CLOSED OFF WINTER 1978-79							
YES.....	20,958	8,607	6,555	5,696	3,970	8,161	120
NO.....	39,186	17,406	10,069	11,712	9,294	12,346	100
DID NOT LIVE HERE LAST WINTER..	7,414	3,923	1,151	2,339	1,748	1,727	15

See footnotes at end of table.

TABLE 6A
 EXISTING ENERGY-RELATED CHARACTERISTICS BY TYPE OF AIR CONDITIONING (WINTER 1978-79)-CONTINUED
 (THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	NUMBER OF ROOMS WITH AIR CONDITIONING			CENTRAL AIR CONDITIONING ONLY	INDIVIDUAL ROOM UNITS ONLY	CENTRAL A/C AND ROOM UNITS
		NONE	SOME	ALL			
UNITS WITH SOME OR ALL STORM WINDOWS, AND SOME OR ALL STORM DOORS, AND ATTIC OR ROOF INSULATION.....	27,459	10,557	8,610	8,201	6,871	9,815	127
UNITS WITH ONE OR MORE OF THESE TYPES OF INSULATION.....	57,725	23,475	16,064	17,731	13,786	19,828	235
UNITS WITH NONE OF THESE TYPES OF INSULATION.....	7,733	6,060	1,706	1,966	1,226	2,446	-

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 6B
EXISTING ENERGY-RELATED CHARACTERISTICS BY TYPE OF AIR CONDITIONING (WINTER 1978-79)
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	NUMBER OF ROOMS WITH AIR CONDITIONING			CENTRAL AIR CONDITIONING	INDIVIDUAL ROOM UNITS ONLY
		NONE	SOME	ALL		
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%
STORM WINDOWS						
ALL WINDOWS COVERED.....	41	38	46	40	43	43
SOME WINDOWS COVERED.....	20	21	24	16	16	23
NO WINDOWS COVERED.....	39	41	30	44	41	34
STORM DOORS						
ALL DOORS COVERED.....	37	35	46	33	33	43
SOME DOORS COVERED.....	24	21	25	27	28	26
NO DOORS COVERED.....	39	44	29	40	39	31
ATTIC INSULATION						
HAVE INSULATION.....	69	60	69	81	86	68
TYPE						
BATTS ONLY.....	32	29	34	35	35	35
LOOSE FILL ONLY.....	21	17	20	29	33	19
BATTS AND LOOSE.....	3	3	3	5	5	3
OTHER.....	1	1	1	1	1	1
TYPE UNKNOWN.....	11	10	11	11	12	10
QUANTITY						
LESS THAN 3 INCHES.....	3	3	3	2	2	3
3 TO 5 INCHES.....	32	29	32	38	40	32
MORE THAN 6 INCHES.....	10	9	8	13	15	7
QUANTITY UNKNOWN.....	24	20	26	27	28	26
NO INSULATION.....	17	26	20	8	5	20
DONT KNOW.....	12	13	11	11	9	13
HAVE WALL INSULATION						
YES.....	50	46	47	60	65	47
NO.....	27	31	31	19	17	30
DONT KNOW.....	22	23	22	20	18	23
ROOM(S) CLOSED OFF WINTER 1978-79						
YES.....	31	29	37	29	27	37
NO.....	58	58	57	59	62	56
DID NOT LIVE HERE LAST WINTER..	11	13	6	12	12	8

See footnotes at end of table.

TABLE 6B
EXISTING ENERGY-RELATED CHARACTERISTICS BY TYPE OF AIR CONDITIONING (WINTER 1978-79)-CONTINUED
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	NUMBER OF ROOMS WITH AIR CONDITIONING			CENTRAL AIR CONDITIONING	INDIVIDUAL ROOM UNITS ONLY
		NONE	SOME	ALL		
UNITS WITH SOME OR ALL STORM WINDOWS, AND SOME OR ALL STORM DOORS, AND ATTIC OR ROOF INSULATION.....	41	30	48	42	46	44
UNITS WITH ONE OR MORE OF THESE TYPES OF INSULATION.....	86	80	90	90	92	89
UNITS WITH NONE OF THESE TYPES OF INSULATION.....	14	20	10	10	8	11

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 7A
EXISTING ENERGY-RELATED CHARACTERISTICS BY 1977 FAMILY INCOME (WINTER 1978-79)
(THOUSAND HOUSEHOLDS)

	TOTAL HOUSEHOLDS	1977 FAMILY INCOME						TOTAL POOR
		LESS THAN \$5,000	\$5,000 TO \$9,999	\$10,000 TO \$14,999	\$15,000 TO \$19,999	\$20,000 TO \$24,999	\$25,000 OR MORE	
TOTAL 1/.....	67,457	9,106	12,357	12,573	10,491	9,063	13,868	8,414
STORM WINDOWS								
ALL WINDOWS COVERED.....	27,463	2,698	4,210	4,873	5,047	3,932	6,704	2,442
SOME WINDOWS COVERED.....	13,687	1,702	2,419	2,346	1,900	2,250	3,070	1,470
NO WINDOWS COVERED.....	26,307	4,705	5,728	5,354	3,544	2,881	4,094	4,502
STORM DOORS								
ALL DOORS COVERED.....	25,003	2,734	4,653	4,576	4,335	3,537	5,168	2,434
SOME DOORS COVERED.....	16,362	1,624	2,678	2,694	2,598	2,400	4,369	1,373
NO DOORS COVERED.....	26,092	4,748	5,026	5,303	3,559	3,125	4,332	4,606
ATTIC INSULATION								
HAVE INSULATION.....	46,215	3,716	7,079	8,488	7,775	7,225	11,933	3,503
TYPE								
BATTS ONLY.....	21,724	1,541	3,246	4,354	3,538	3,323	5,723	1,505
LOOSE FILL ONLY.....	14,183	930	1,915	2,172	2,448	2,456	4,262	798
BATTS AND LOOSE.....	2,328	214	347	238	554	463	512	194
OTHER.....	750	129	45	133	124	74	246	72
TYPE UNKNOWN.....	7,231	902	1,527	1,590	1,112	909	1,190	933
QUANTITY								
LESS THAN 3 INCHES.....	1,781	69	258	298	260	435	460	64
3 TO 6 INCHES.....	21,919	1,480	3,315	4,346	3,798	3,555	5,425	1,568
MORE THAN 6 INCHES.....	6,637	122	743	879	1,199	1,194	2,500	167
QUANTITY UNKNOWN.....	15,879	2,044	2,763	2,964	2,519	2,040	3,549	1,704
NO INSULATION.....	13,023	3,386	3,628	2,334	1,612	854	1,209	3,205
DONT KNOW.....	8,218	2,004	1,649	1,752	1,104	983	726	1,706
HAVE WALL INSULATION								
YES.....	34,004	2,591	5,126	6,407	5,915	5,178	8,787	2,596
NO.....	18,549	4,024	4,238	3,143	2,578	2,109	2,457	3,703
DONT KNOW.....	14,904	2,490	2,993	3,023	1,998	1,776	2,623	2,115
ROOM(S) CLOSED OFF WINTER 1978-79								
YES.....	20,359	2,509	4,114	3,914	3,270	2,929	4,123	2,202
NO.....	39,186	5,403	6,808	7,085	6,379	5,178	8,333	5,181
DID NOT LIVE HERE LAST WINTER..	7,414	1,194	1,435	1,574	843	956	1,411	1,030

See footnotes at end of table.

TABLE 7A
 EXISTING ENERGY-RELATED CHARACTERISTICS BY 1977 FAMILY INCOME (WINTER 1978-79)-CONTINUED
 (THOUSAND HOUSEHOLDS)

	TOTAL HOUSEHOLDS	1977 FAMILY INCOME						TOTAL PCOR
		LESS THAN \$5,000	\$5,000 TO \$9,999	\$10,000 TO \$14,999	\$15,000 TO \$19,999	\$20,000 TO \$24,999	\$25,000 OR MORE	
UNITS WITH SOME OR ALL STORM WINDOWS, AND SOME OR ALL STORM DOORS, AND ATTIC OR ROOF INSULATION.....	27,469	2,000	5,728	4,574	8,169	8,726	7,653	1,589
UNITS WITH ONE OR MORE OF THESE TYPES OF INSULATION.....	57,725	6,297	10,174	10,607	9,511	8,226	12,910	5,763
UNITS WITH NONE OF THESE TYPES OF INSULATION.....	9,733	2,809	2,183	1,966	980	856	358	2,651

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 7B
EXISTING ENERGY-RELATED CHARACTERISTICS BY 1977 FAMILY INCOME (WINTER 1978-79)
(PERCENTAGE OF HOUSEHOLDS)

	TOTAL HOUSEHOLDS	1977 FAMILY INCOME						TOTAL POOR
		LESS THAN \$5,000	\$5,000 TO \$9,999	\$10,000 TO \$14,999	\$15,000 TO \$19,999	\$20,000 TO \$24,999	\$25,000 OR MORE	
TOTAL 1/.....	100%	100%	100%	100%	100%	100%	100%	100%
STORM WINDOWS								
ALL WINDOWS COVERED.....	41	30	34	39	48	43	48	29
SOME WINDOWS COVERED.....	20	19	20	19	18	25	22	17
NO WINDOWS COVERED.....	39	52	46	43	34	32	30	54
STORM DOORS								
ALL DOORS COVERED.....	37	30	38	36	41	39	37	27
SOME DOORS COVERED.....	24	18	22	21	25	25	31	16
NO DOORS COVERED.....	39	52	41	42	34	34	31	55
ATTIC INSULATION								
HAVE INSULATION.....	49	41	57	68	74	80	86	42
TYPE								
BATTS ONLY.....	32	17	26	35	34	37	41	18
LOOSE FILL ONLY.....	21	10	15	17	23	27	31	9
BATTS AND LOOSE.....	3	2	3	2	5	5	4	2
OTHER.....	1	1	-	1	1	1	2	1
TYPE UNKNOWN.....	11	10	12	13	11	10	9	11
QUANTITY								
LESS THAN 3 INCHES.....	3	1	2	2	2	5	3	1
3 TO 6 INCHES.....	32	16	27	35	36	39	39	19
MORE THAN 6 INCHES.....	10	1	6	7	11	13	18	2
QUANTITY UNKNOWN.....	24	22	22	24	24	23	26	20
NO INSULATION.....	19	37	29	19	15	9	9	38
DONT KNOW.....	12	22	13	14	11	11	5	20
HAVE WALL INSULATION								
YES.....	50	28	41	51	56	57	63	31
NO.....	27	44	34	25	25	23	18	44
DONT KNOW.....	22	27	24	24	19	20	19	25
ROOM(S) CLOSED OFF WINTER 1978-79								
YES.....	31	28	33	31	31	32	30	26
NO.....	58	59	55	56	61	57	60	62
DID NOT LIVE HERE LAST WINTER..	11	13	12	13	8	11	10	12

See footnotes at end of table.

TABLE 7B
EXISTING ENERGY-RELATED CHARACTERISTICS BY 1977 FAMILY INCOME (WINTER 1978-79)-CONTINUED
(PERCENTAGE OF HOUSEHOLDS)

	TOTAL HOUSEHOLDS	1977 FAMILY INCOME						TOTAL POOR
		LESS THAN \$5,000	\$5,000 TO \$9,999	\$10,000 TO \$14,999	\$15,000 TO \$19,999	\$20,000 TO \$24,999	\$25,000 OR MORE	
UNITS WITH SOME OR ALL STORM WINDOWS, AND SOME OR ALL STORM DOORS, AND ATTIC OR ROOF INSULATION.....	41	22	50	36	45	52	55	20
UNITS WITH ONE OR MORE OF THESE TYPES OF INSULATION.....	86	69	82	94	91	91	93	68
UNITS WITH NONE OF THESE TYPES OF INSULATION.....	14	31	18	16	9	9	7	32

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "--" REPRESENTS OR ROUNDS TO ZERO.
SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
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TABLE 8A
EXISTING ENERGY-RELATED CHARACTERISTICS
BY SELECTED DEMOGRAPHIC CHARACTERISTICS (WINTER 1978-79)
(THOUSAND HOUSEHOLDS)

	TOTAL HOUSEHOLDS	AGE OF HEAD			RACE		EDUCATION OF HEAD (IN YEARS)			MARITAL STATUS OF HEAD		
		35 OR LESS	36 TO 59	60 AND OVER	WHITE OTHER	BLACK	8 OR LESS	9 TO 12	13 AND OVER	MARRIED	NOT MARRIED	
											FEMALE HEAD	MALE HEAD
TOTAL 1/.....	67,457	20,012	27,552	18,994	61,060	6,398	11,510	31,755	24,193	47,696	13,965	5,797
STORM WINDOWS												
ALL WINDOWS COVERED.....	27,463	7,992	11,604	7,468	25,966	1,497	3,756	13,753	9,955	20,614	4,790	2,059
SOME WINDOWS COVERED.....	13,687	3,900	5,753	4,035	12,569	1,118	2,195	6,571	4,321	9,950	2,552	1,085
NO WINDOWS COVERED.....	26,307	9,020	10,195	7,091	22,524	3,782	5,559	11,431	9,317	17,131	6,523	2,653
STORM DOORS												
ALL DOORS COVERED.....	25,003	6,220	10,373	8,410	23,315	1,688	4,312	12,745	7,947	18,239	4,762	2,002
SOME DOORS COVERED.....	16,362	4,814	7,382	4,166	15,394	968	1,996	7,867	6,499	12,216	3,176	970
NO DOORS COVERED.....	26,092	9,878	9,797	6,418	22,351	3,741	5,202	11,143	9,747	17,240	6,027	2,826
ATTIC INSULATION												
HAVE INSULATION.....	46,216	12,813	21,109	12,294	43,681	2,535	6,132	22,007	18,077	35,879	7,075	3,262
TYPE												
BATTS ONLY.....	21,724	5,927	9,905	5,893	20,840	884	3,007	11,034	7,683	17,042	3,164	1,518
LOOSE FILL ONLY.....	14,183	3,775	6,751	3,657	13,487	696	1,641	6,457	6,095	11,566	1,585	1,032
BATTS AND LOOSE.....	2,328	346	1,242	740	2,295	33	331	957	1,040	1,965	212	151
OTHER.....	750	253	337	161	737	13	109	282	359	524	168	58
TYPE UNKNOWN.....	7,231	2,513	2,874	1,844	6,322	909	1,044	3,277	2,910	4,782	1,945	503
QUANTITY												
LESS THAN 3 INCHES.....	1,741	710	668	403	1,719	61	150	749	882	1,354	251	176
3 TO 6 INCHES.....	21,919	5,261	10,228	6,429	21,055	863	3,198	10,899	7,822	17,828	2,373	1,718
MORE THAN 6 INCHES.....	5,537	2,156	3,064	1,417	6,499	138	507	2,894	3,236	5,828	450	359
QUANTITY UNKNOWN.....	15,879	4,685	7,149	4,044	14,407	1,472	2,277	7,465	6,137	10,869	4,000	1,010
NO INSULATION.....	13,023	4,136	3,969	4,918	10,225	2,798	3,891	6,049	3,083	7,694	3,763	1,566
DONT KNOW.....	3,218	3,263	2,473	1,782	7,154	1,064	1,486	3,699	3,033	4,122	3,128	958
HAVE WALL INSULATION												
YES.....	34,004	9,630	15,421	8,353	32,292	1,712	4,776	16,209	13,020	26,822	4,749	2,434
NO.....	18,549	5,154	6,492	6,903	15,728	2,821	4,470	8,696	5,383	12,102	4,533	1,914
DONT KNOW.....	14,904	6,127	5,639	3,138	13,939	1,865	2,264	6,850	5,790	8,772	4,683	1,449
ROOM(S) CLOSED OFF WINTER 1978-79												
YES.....	20,854	5,366	8,632	6,860	19,261	1,597	3,541	9,552	7,765	14,911	4,007	1,941
NO.....	30,196	10,581	16,985	11,619	34,959	4,227	7,449	18,922	12,815	27,993	8,321	2,872
DID NOT LIVE HERE LAST WINTER...	7,414	4,064	1,935	515	6,840	574	519	3,281	3,613	4,791	1,538	984

See footnotes at end of table.

TABLE 8A
 EXISTING ENERGY-RELATED CHARACTERISTICS
 BY SELECTED DEMOGRAPHIC CHARACTERISTICS (WINTER 1978-79)-CONTINUED
 (THOUSAND HOUSEHOLDS)

	TOTAL HOUSEHOLDS	AGE OF HEAD			RACE		EDUCATION OF HEAD (IN YEARS)			MARITAL STATUS OF HEAD		
		35 OR LESS	36 TO 59	60 AND OVER	WHITE, OTHER	BLACK	8 OR LESS	9 TO 12	13 AND OVER	MARRIED	NOT MARRIED	
											FEMALE HEAD	MALE HEAD
UNITS WITH SOME OR ALL STORM WINDOWS, AND SOME OR ALL STORM DOORS, AND ATTIC OR ROOF INSULATION.....	27,459	6,688	12,823	7,759	26,144	1,325	5,604	15,712	10,152	21,810	3,750	1,699
UNITS WITH ONE OR MORE OF THESE TYPES OF INSULATION.....	57,725	17,139	24,400	16,186	53,761	3,964	8,583	27,780	21,362	42,324	10,870	4,511
UNITS WITH NONE OF THESE TYPES OF INSULATION.....	9,733	3,773	5,152	2,809	7,299	2,434	2,927	3,974	2,332	5,371	3,075	1,286

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 8B
EXISTING ENERGY-RELATED CHARACTERISTICS
BY SELECTED DEMOGRAPHIC CHARACTERISTICS (WINTER 1978-79)
(PERCENTAGE OF HOUSEHOLDS)

	TOTAL HOUSEHOLDS	AGE OF HEAD			RACE		EDUCATION OF HEAD (IN YEARS)			MARITAL STATUS OF HEAD		
		35 OR LESS	36 TO 59	60 AND OVER	WHITE, OTHER	BLACK	8 OR LESS	9 TO 12	13 AND OVER	MARRIED	NOT MARRIED	
											FEMALE HEAD	MALE HEAD
TOTAL 1/.....	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
STORM WINDOWS												
ALL WINDOWS COVERED.....	41	38	42	41	43	23	33	43	41	43	34	36
SOME WINDOWS COVERED.....	20	19	21	21	21	17	19	21	20	21	19	19
NO WINDOWS COVERED.....	39	43	37	37	37	59	48	36	39	36	47	46
STORM DOORS												
ALL DOORS COVERED.....	37	30	38	44	38	26	37	40	33	38	34	35
SOME DOORS COVERED.....	24	23	27	22	25	15	17	25	27	26	23	17
NO DOORS COVERED.....	39	47	36	34	37	58	45	35	40	36	43	49
ATTIC INSULATION												
HAVE INSULATION.....	69	61	77	65	72	40	53	69	75	75	51	56
TYPE												
BATTS ONLY.....	32	28	36	31	34	14	26	35	32	36	23	26
LOOSE FILL ONLY.....	21	18	25	19	22	11	14	20	25	24	11	18
BATTS AND LOOSE.....	3	2	5	4	4	1	3	3	4	4	2	3
OTHER.....	1	1	1	1	1	-	1	1	1	1	1	1
TYPE UNKNOWN.....	11	12	10	10	10	14	9	10	12	10	14	9
QUANTITY												
LESS THAN 3 INCHES.....	3	3	2	2	3	1	1	2	4	3	2	3
3 TO 6 INCHES.....	32	25	37	34	34	13	28	34	32	37	17	30
MORE THAN 6 INCHES.....	10	10	11	7	11	2	4	9	13	12	3	6
QUANTITY UNKNOWN.....	24	22	26	21	24	23	20	24	25	23	29	17
NO INSULATION.....	19	20	14	26	17	44	34	19	13	16	27	27
DONT KNOW.....	12	19	9	9	12	17	13	12	13	9	22	17
HAVE WALL INSULATION												
YES.....	50	46	56	47	53	27	41	51	54	56	34	42
NO.....	27	25	24	36	26	44	39	27	22	25	32	33
DONT KNOW.....	22	29	20	17	21	29	20	22	24	18	34	25
ROOM(S) CLOSED OFF WINTER 1978-79												
YES.....	31	26	31	36	32	25	31	30	32	31	29	33
NO.....	58	51	62	61	57	66	55	60	53	59	50	50
DID NOT LIVE HERE LAST WINTER....	11	24	7	3	11	9	5	10	15	10	12	17

See footnotes at end of table.

TABLE 88
 EXISTING ENERGY-RELATED CHARACTERISTICS
 BY SELECTED DEMOGRAPHIC CHARACTERISTICS (WINTER 1978-79)-CONTINUED
 (PERCENTAGE OF HOUSEHOLDS)

	TOTAL HOUSEHOLDS	AGE OF HEAD			RACE		EDUCATION OF HEAD (IN YEARS)			MARITAL STATUS OF HEAD		
		35 OR LESS	36 TO 59	60 AND OVER	WHITE, OTHER	BLACK	8 OR LESS	9 TO 12	13 AND OVER	MARRIED	NOT MARRIED	
											FEMALE HEAD	MALE HEAD
UNITS WITH SOME OR ALL STORM WINDOWS, AND SOME OR ALL STORM DOORS, AND ATTIC OR ROOF INSULATION.....	91	32	47	42	83	21	31	43	42	46	28	29
UNITS WITH ONE OR MORE OF THESE TYPES OF INSULATION.....	86	82	84	95	88	62	75	87	88	89	78	78
UNITS WITH NONE OF THESE TYPES OF INSULATION.....	14	18	11	15	12	33	25	13	12	11	22	22

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "--" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 9A
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY CENSUS REGIONS
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	CENSUS REGION											
		NORTH EAST			NORTH CENTRAL			SOUTH			WEST		
		TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL
TOTAL HOUSING UNITS 1/.....	67,457	14,251	11,309	2,942	19,821	14,132	5,689	22,319	13,783	8,536	11,067	8,536	2,531
TOTAL ELIGIBLE HOUSING UNITS.....	64,957	13,663	10,776	2,887	19,232	13,751	5,432	21,453	13,388	8,064	10,608	8,324	2,284
INSULATION ADDED (INEXPENSIVE)													
YES, ELIGIBLE.....	27,522	6,604	5,012	1,592	9,569	6,765	2,805	8,600	4,966	3,634	2,749	2,034	715
WEATHERSTRIPPING.....	10,175	2,294	1,695	599	4,030	2,887	1,143	2,754	1,724	1,030	1,117	799	318
AROUND HOT WATER PIPES.....	2,380	351	267	84	812	494	318	972	505	468	244	93	151
AROUND HOT WATER HEATER.....	797	115	80	36	211	154	57	333	209	124	138	80	58
CAULKING.....	17,048	4,774	3,757	1,017	6,631	4,956	1,775	4,049	2,428	1,620	1,594	1,186	408
PLASTIC COVERING.....	10,656	2,469	1,744	725	3,411	2,173	1,238	3,669	1,894	1,785	1,107	736	371
OTHER.....	1,176	267	159	108	430	285	145	368	253	115	110	67	43
YES, INELIGIBLE.....	874	79	25	54	367	239	128	265	97	168	163	31	132
NO.....	39,061	7,567	6,272	1,295	9,884	7,128	2,757	13,454	8,720	4,734	8,155	6,471	1,684
INSULATION ADDED (EXPENSIVE)													
YES, ELIGIBLE.....	7,373	1,965	1,410	554	2,674	1,789	385	1,760	874	886	974	770	204
ROOF OR ATTIC.....	4,934	1,151	864	287	1,902	1,265	536	1,264	677	587	618	543	74
BASEMENT OR CRAWL SPACE.....	1,771	622	349	273	671	436	235	316	116	200	162	83	79
OUTSIDE WALLS.....	2,711	683	497	184	1,139	689	450	575	227	348	314	242	73
YES, INELIGIBLE.....	575	25	25	-	240	151	89	170	59	132	139	12	127
NO.....	59,510	12,261	9,874	2,387	16,907	12,192	4,715	20,389	12,870	7,518	9,953	7,755	2,199
EQUIPMENT ADDED (INEXPENSIVE)													
YES, ELIGIBLE.....	8,677	1,690	1,369	312	3,090	2,423	667	3,027	2,032	996	877	665	215
CLOSEABLE SHUTTERS.....	460	25	25	-	180	148	32	118	103	15	139	121	17
STORM DOORS.....	4,584	880	658	222	1,726	1,305	420	1,647	1,021	625	332	204	127
AUTOMATIC OR CLOCK THERMOSTAT.....	1,258	332	236	96	455	384	71	355	246	109	125	112	15
NEW WATER HEATING EQUIPMENT.....	3,153	597	552	45	1,052	821	231	1,088	784	304	416	323	74
YES, INELIGIBLE.....	583	57	25	32	204	129	75	183	13	170	144	12	133
NO.....	58,143	12,513	9,816	2,597	16,527	11,580	4,948	19,109	11,738	7,371	10,043	7,860	2,183
EQUIPMENT ADDED (EXPENSIVE)													
YES, ELIGIBLE.....	6,434	1,686	1,244	402	2,097	1,453	643	2,103	1,204	900	599	389	209
STORM WINDOWS/INSULATING GLASS.....	4,974	1,354	1,039	315	1,566	1,072	494	1,688	898	791	366	193	173
ELECTRIC HEAT PUMP.....	96	19	19	-	32	32	-	35	35	-	-	-	-
NEW FURNACE.....	1,757	327	242	86	659	440	199	519	330	189	232	196	36
YES, INELIGIBLE.....	458	41	25	16	207	123	84	128	-	128	82	12	71
NO.....	60,515	12,524	10,090	2,524	17,517	12,556	4,961	20,088	12,579	7,509	10,386	8,135	2,251

See footnotes at end of table.

TABLE 9A
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY CENSUS REGIONS--CONTINUED
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	CENSUS REGION											
		NORTH EAST			NORTH CENTRAL			SOUTH			WEST		
		TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL
ANY EQUIPMENT OR INSULATION ADDED BY ELIGIBLE HOUSING UNITS													
YES.....	33,779	8,072	6,242	1,830	11,400	3,080	3,321	10,650	6,338	4,311	5,657	2,755	902
NO.....	31,178	5,592	4,530	1,059	7,832	5,671	2,161	10,803	7,050	3,753	6,951	5,569	1,382
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	5,555	1,484	1,045	440	2,046	1,410	637	1,174	591	582	831	663	168
ELIGIBLE UNITS THAT ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION.....	4,647	1,205	918	287	1,470	1,074	395	1,517	921	596	455	282	173
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1,437	480	366	115	627	379	248	586	283	304	143	107	36
ELIGIBLE UNITS THAT ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	21,759	4,902	3,913	988	7,257	5,216	2,041	7,372	4,543	2,830	2,228	1,703	524
ELIGIBLE UNITS THAT ADDED STORM WINDOWS, OR STORM DOORS, OR ATTIC OR ROOF INSULATION.....	11,369	2,775	2,089	686	3,995	2,827	1,168	3,399	2,015	1,384	1,200	869	331

17 EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "--" REPRESENTS OR ROUNDS TO ZERO.
SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 9B
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY CENSUS REGIONS
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	CENSUS REGION											
		NORTH EAST			NORTH CENTRAL			SOUTH			WEST		
		TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
TOTAL ELIGIBLE HOUSING UNITS.....	96	96	95	98	97	97	96	96	97	94	96	98	90
INSULATION ADDED (INEXPENSIVE)													
YES, ELIGIBLE.....	41	46	44	54	48	48	49	39	36	43	25	24	28
WEATHERSTRIPPING.....	15	16	15	20	20	20	20	12	13	12	10	9	13
AROUND HOT WATER PIPES.....	4	2	2	3	4	3	6	4	4	5	2	1	6
AROUND HOT WATER HEATER.....	1	1	1	1	1	1	1	1	2	1	1	1	2
CAULKING.....	25	34	33	35	33	34	31	18	18	19	14	14	16
PLASTIC COVERING.....	16	17	15	25	17	15	22	16	14	21	10	9	15
OTHER.....	2	2	1	4	2	2	3	2	2	1	1	1	2
YES, INELIGIBLE.....	1	1	-	2	2	2	2	1	1	2	1	-	5
NO.....	58	53	55	44	50	50	48	60	63	55	74	76	67
INSULATION ADDED (EXPENSIVE)													
YES, ELIGIBLE.....	11	14	12	19	13	13	16	8	6	10	9	9	8
ROOF OR ATTIC.....	7	8	8	10	10	9	11	6	5	7	6	6	3
BASEMENT OR CRAWL SPACE.....	3	4	3	9	3	3	4	1	1	2	1	1	3
OUTSIDE WALLS.....	4	5	4	6	6	5	8	3	2	4	3	3	3
YES, INELIGIBLE.....	1	-	-	-	1	1	2	1	-	2	1	-	5
NO.....	88	86	87	81	85	86	83	91	93	88	90	91	87
EQUIPMENT ADDED (INEXPENSIVE)													
YES, ELIGIBLE.....	15	12	12	11	16	17	12	14	15	12	8	8	8
CLOSEABLE SHUTTERS.....	1	-	-	-	1	1	1	1	1	-	1	1	1
STORM DOORS.....	7	6	6	8	9	9	7	7	7	7	3	2	5
AUTOMATIC OR CLOCK THERMOSTAT.....	2	2	2	3	2	3	1	2	2	1	1	1	1
NEW WATER HEATING EQUIPMENT.....	5	4	5	2	5	6	4	5	6	4	4	4	4
YES, INELIGIBLE.....	1	-	-	1	1	1	1	1	-	2	1	-	5
NO.....	86	88	88	88	83	82	87	86	85	86	91	92	86
EQUIPMENT ADDED (EXPENSIVE)													
YES, ELIGIBLE.....	10	12	11	14	11	10	11	9	9	11	5	5	8
STORM WINDOWS/INSULATING GLASS.....	7	10	9	11	8	8	9	8	7	9	3	2	7
ELECTRIC HEAT PUMP.....	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW FURNACE.....	3	2	2	3	3	3	3	2	2	2	2	2	1
YES, INELIGIBLE.....	1	-	-	1	1	1	1	1	-	1	1	-	3
NO.....	10	88	88	86	88	89	87	90	91	88	94	95	89

See footnotes at end of table.

TABLE 9B
 CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
 AND ELIGIBILITY FOR 1978 TAX CREDIT BY CENSUS REGIONS--CONTINUED
 (PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	CENSUS REGION											
		NORTH EAST			NORTH CENTRAL			SOUTH			WEST		
		TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL
ANY EQUIPMENT OR INSULATION ADDED BY ELIGIBLE HOUSING UNITS													
YES.....	50	57	55	62	58	57	58	48	46	51	33	32	35
NO.....	45	37	40	36	40	40	38	48	51	44	63	65	55
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	8	10	9	15	10	10	11	5	4	7	8	8	7
ELIGIBLE UNITS THAT ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION.....	7	8	8	10	7	8	7	7	7	7	9	3	7
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	3	3	3	4	3	3	4	3	2	4	1	1	1
ELIGIBLE UNITS THAT ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	32	34	35	34	37	37	36	33	33	33	20	20	21
ELIGIBLE UNITS THAT ADDED STORM WINDOWS, OR STORM DOORS, OR ATTIC OR ROOF INSULATION.....	17	19	19	23	20	20	21	15	15	16	11	10	13

17 EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 10A
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY CENSUS REGIONS
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	CENSUS REGION											
		NORTH EAST			NORTH CENTRAL			SOUTH			WEST		
		TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL
TOTAL HOUSING UNITS 1/.....	67,457	14,251	11,309	2,942	19,821	14,132	5,689	22,319	13,783	8,536	11,067	8,536	2,531
INSULATION ADDED (INEXPENSIVE)													
YES.....	17,632	4,348	3,223	1,125	6,561	4,595	1,967	5,137	3,022	2,116	1,585	1,082	503
WEATHERSTRIPPING.....	4,907	1,170	925	266	1,928	1,349	579	1,308	835	473	480	300	180
AROUND HOT WATER PIPES.....	1,286	177	158	19	423	242	181	545	335	209	141	52	89
AROUND HOT WATER HEATER.....	458	80	60	19	82	40	42	226	159	69	70	33	37
CAULKING.....	11,078	2,850	2,277	573	4,563	3,259	1,304	2,653	1,571	1,082	1,012	691	321
PLASTIC COVERING.....	5,456	1,561	1,054	507	1,743	1,117	625	1,654	907	747	498	277	222
OTHER.....	855	210	148	61	301	225	76	302	214	88	43	43	-
NO.....	49,826	9,903	8,087	1,816	13,260	9,537	3,723	17,181	10,761	6,420	9,482	7,454	2,028
INSULATION ADDED (EXPENSIVE)													
YES.....	4,226	922	656	266	1,592	1,102	490	1,029	505	524	682	549	133
ROOF OR ATTIC.....	2,843	574	428	146	1,039	716	323	766	421	345	464	352	112
BASEMENT OR CRAWL SPACE.....	1,271	436	263	173	432	328	105	254	72	182	149	83	66
OUTSIDE WALLS.....	1,478	294	189	105	682	430	252	264	80	183	232	193	46
NO.....	63,232	13,329	10,654	2,675	18,229	13,030	5,199	21,289	13,278	8,011	10,384	7,987	2,398
EQUIPMENT ADDED (INEXPENSIVE)													
YES.....	5,274	997	804	193	1,771	1,309	463	1,861	1,182	679	645	430	215
CLOSEABLE SHUTTERS.....	300	25	25	-	61	61	-	74	74	-	140	115	25
STORM DOORS.....	2,680	500	375	126	1,059	767	292	842	454	388	278	138	140
AUTOMATIC OR CLOCK THERMOSTAT.....	388	229	182	47	280	202	77	232	125	106	148	123	25
NEW WATER HEATING EQUIPMENT.....	2,132	341	321	20	702	482	219	824	608	216	265	166	99
NO.....	62,184	13,254	10,505	2,748	18,050	12,823	5,227	20,458	12,601	7,857	10,422	8,106	2,316
EQUIPMENT ADDED (EXPENSIVE)													
YES.....	3,504	948	714	234	1,269	872	397	908	436	472	379	268	111
STORM WINDOWS/INSULATING GLASS.....	2,672	743	560	183	995	700	295	748	307	442	185	117	69
ELECTRIC HEAT PUMP.....	67	19	19	-	20	-	20	17	-	17	12	12	-
NEW FURNACE.....	1,048	211	159	51	371	268	102	237	171	66	230	163	67
NO.....	63,953	13,303	10,596	2,707	18,552	13,260	5,292	21,411	13,347	8,064	10,588	8,268	2,420

See footnotes at end of table.

TABLE 10A
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY CENSUS REGIONS-CONTINUED
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	CENSUS REGION												
		NORTH EAST			NORTH CENTRAL			SOUTH			WEST			
		TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	
ADDED ANY INSULATION OR EQUIPMENT														
YES.....	22,578	5,303	4,049	1,254	8,050	5,657	2,394	6,737	4,037	2,700	2,488	1,790	497	
NO.....	44,877	8,948	7,261	1,687	11,771	8,475	3,296	15,582	9,746	5,836	8,577	6,746	1,833	
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	3,212	677	441	236	1,261	876	386	740	379	361	534	447	37	
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	2,490	703	499	204	938	646	293	619	310	309	231	166	65	
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1,014	245	215	30	331	226	104	290	126	163	148	103	46	
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	15,862	3,678	2,894	784	5,520	3,909	1,611	5,089	3,222	1,867	1,575	1,075	499	
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION.....	6,427	1,441	1,047	394	2,361	1,667	624	1,822	976	846	804	532	271	

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 108
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY CENSUS REGIONS
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	CENSUS REGION											
		NORTH EAST			NORTH CENTRAL			SOUTH			WEST		
		TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
INSULATION ADDED (INEXPENSIVE)													
YES.....	26	31	28	38	33	33	35	23	22	25	14	13	20
WEATHERSTRIPPING.....	7	8	8	9	10	10	10	6	6	6	4	4	7
AROUND HOT WATER PIPES.....	2	1	1	1	2	2	3	2	2	2	1	1	4
AROUND HOT WATER HEATER.....	1	1	1	1	-	-	1	1	1	1	1	-	1
CAULKING.....	16	20	20	19	23	23	23	12	11	13	9	8	13
PLASTIC COVERING.....	8	11	9	17	9	8	11	7	7	9	5	3	9
OTHER.....	1	1	1	2	2	2	1	1	2	1	-	1	-
NO.....	74	69	72	62	67	67	65	77	78	75	86	87	80
INSULATION ADDED (EXPENSIVE)													
YES.....	6	6	6	9	8	8	9	5	4	6	5	6	5
ROOF OR ATTIC.....	4	4	4	5	5	5	6	3	3	4	4	4	4
BASEMENT OR CRAWL SPACE.....	2	3	2	6	2	2	2	1	1	2	1	1	3
OUTSIDE WALLS.....	2	2	2	4	3	3	4	1	1	2	2	2	2
NO.....	94	94	94	91	92	92	91	95	96	94	94	94	95
EQUIPMENT ADDED (INEXPENSIVE)													
YES.....	8	7	7	7	9	9	8	8	9	8	6	5	8
CLOSEABLE SHUTTERS.....	-	-	-	-	-	-	-	-	1	-	1	1	1
STORM DOORS.....	4	4	3	4	5	5	5	4	3	5	3	2	6
AUTOMATIC OR CLOCK THERMOSTAT.....	1	2	2	2	1	1	1	1	1	1	1	1	1
NEW WATER HEATING EQUIPMENT.....	3	2	3	1	4	3	4	4	4	3	2	2	4
NO.....	92	93	93	93	91	91	92	92	91	92	94	95	92
EQUIPMENT ADDED (EXPENSIVE)													
YES.....	5	7	6	8	6	6	7	4	3	6	3	3	4
STORM WINDOWS/INSULATING GLASS.....	4	5	5	6	5	5	5	3	2	5	2	1	3
ELECTRIC HEAT PUMP.....	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW FURNACE.....	2	1	1	2	2	2	2	1	1	1	2	2	3
NO.....	95	93	94	92	94	94	93	96	97	94	97	97	96

See footnotes at end of table.

TABLE 106
 CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY CENSUS REGIONS-CONTINUED
 (PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	CENSUS REGION											
		NORTH EAST			NORTH CENTRAL			SOUTH			WEST		
		TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL
ADDED ANY INSULATION OR EQUIPMENT													
YES.....	35	37	36	45	41	40	42	50	29	32	22	21	28
NO.....	65	63	64	55	59	60	58	50	71	68	78	79	72
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	5	5	4	8	6	6	7	3	3	4	5	5	3
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	4	5	4	7	5	5	5	3	2	4	2	2	3
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	2	2	2	1	2	2	2	1	1	2	1	1	2
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	24	26	26	27	28	28	28	23	23	22	14	13	20
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	10	10	9	13	12	12	12	8	7	10	7	6	11

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 11A
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY CENSUS REGIONS
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	CENSUS REGION											
		NORTH EAST			NORTH CENTRAL			SOUTH			WEST		
		TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL
TOTAL HOUSING UNITS 1/.....	67,457	14,251	11,309	2,942	19,821	14,132	5,689	22,319	13,783	8,536	11,067	8,536	2,531
INSULATION ADDED (INEXPENSIVE)													
YES.....	19,579	4,738	3,432	1,306	6,618	4,646	1,972	5,919	3,346	2,574	2,304	1,657	647
WEATHERSTRIPPING.....	6,516	1,322	887	435	2,461	1,796	665	1,725	1,092	633	1,007	739	270
AROUND HOT WATER PIPES.....	1,502	233	168	65	527	375	152	565	245	320	176	65	112
AROUND HOT WATER HEATER.....	594	60	44	16	176	146	30	211	77	134	147	101	46
CAULKING.....	9,852	2,901	2,209	693	3,590	2,618	972	2,277	1,383	894	1,093	773	310
PLASTIC COVERING.....	8,683	1,940	1,271	669	2,810	1,817	993	2,904	1,458	1,447	1,029	707	322
OTHER.....	504	83	36	47	198	105	43	131	91	40	93	24	68
NO.....	47,878	9,513	7,877	1,636	13,203	9,486	3,717	16,400	10,437	5,962	8,762	6,879	1,883
INSULATION ADDED (EXPENSIVE)													
YES.....	4,545	1,232	897	334	1,624	1,039	584	1,149	566	582	542	320	222
ROOF OR ATTIC.....	3,921	729	541	188	1,124	751	373	810	410	400	358	266	92
BASEMENT OR CRAWL SPACE.....	959	288	188	100	377	212	165	204	60	144	91	11	79
OUTSIDE WALLS.....	1,729	432	335	97	701	428	273	414	160	254	183	85	98
NO.....	62,912	13,019	10,412	2,607	18,197	13,093	5,105	21,170	13,217	7,954	10,525	8,217	2,308
EQUIPMENT ADDED (INEXPENSIVE)													
YES.....	4,956	1,009	755	254	1,841	1,508	333	1,492	926	566	614	414	200
CLOSEABLE SHUTTERS.....	237	-	-	-	135	103	32	44	29	15	58	42	17
STORM DOORS.....	2,751	502	342	159	905	668	237	1,046	608	439	298	155	143
AUTOMATIC OR CLOCK THERMOSTAT.....	736	145	96	49	392	358	34	171	121	50	29	14	15
NEW WATER HEATING EQUIPMENT.....	1,624	410	334	76	591	520	71	338	217	120	286	221	65
NO.....	62,502	13,242	10,554	2,689	17,980	12,624	5,356	20,827	12,857	7,970	10,453	8,122	2,331
EQUIPMENT ADDED (EXPENSIVE)													
YES.....	4,002	923	674	249	1,261	844	417	1,411	812	599	408	173	234
STORM WINDOWS/INSULATING GLASS.....	3,078	709	526	184	896	544	352	1,125	636	490	348	128	220
ELECTRIC HEAT PUMP.....	144	31	-	31	64	64	-	49	35	14	-	-	-
NEW FURNACE.....	1,161	243	178	65	485	332	154	348	177	171	85	45	40
NO.....	63,455	13,328	10,635	2,693	18,561	13,288	5,272	20,908	12,971	7,937	10,659	8,363	2,296

See footnotes at end of table.

TABLE 11A
 CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY CENSUS REGIONS-CONTINUED
 (THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	CENSUS REGION												
		NORTH EAST			NORTH CENTRAL			SOUTH			WEST			
		TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	
ADDED ANY INSULATION OR EQUIPMENT														
YES.....	24,178	5,773	4,243	1,530	8,163	5,809	2,354	7,451	4,244	3,206	2,722	1,938	803	
NO.....	43,280	8,478	7,066	1,412	11,658	8,323	3,336	14,868	9,539	5,330	9,275	6,598	1,677	
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	3,663	1,032	767	265	1,291	874	417	838	439	399	502	320	182	
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	3,120	723	544	179	928	679	249	1,101	685	416	368	173	175	
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	883	200	130	70	333	165	164	511	127	183	40	-	40	
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	16,513	3,818	2,801	1,017	5,611	4,091	1,520	5,201	2,993	2,208	1,882	1,445	437	
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION.....	7,236	1,679	1,253	427	2,342	1,530	712	2,352	1,292	1,061	863	491	372	

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 11B
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY CENSUS REGIONS
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	CENSUS REGION											
		NORTH EAST			NORTH CENTRAL			SOUTH			WEST		
		TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
INSULATION ADDED (INEXPENSIVE)													
YES.....	29	33	30	44	33	33	35	27	24	50	21	19	26
WEATHERSTRIPPING.....	10	9	8	15	12	13	12	8	8	7	9	9	11
AROUND HOT WATER PIPES.....	2	2	1	2	3	3	3	3	2	4	2	1	4
AROUND HOT WATER HEATER.....	1	-	-	1	1	1	1	1	1	2	1	1	2
CAULKING.....	15	20	20	24	18	19	17	10	10	10	10	9	12
PLASTIC COVERING.....	13	14	11	23	14	13	17	13	11	17	9	8	13
OTHER.....	1	1	-	2	1	1	2	1	1	-	1	-	3
NO.....	71	67	70	56	67	67	65	73	76	70	79	81	74
INSULATION ADDED (EXPENSIVE)													
YES.....	7	9	9	11	8	7	10	5	4	7	5	4	9
ROOF OR ATTIC.....	4	5	5	6	6	5	7	4	3	5	3	3	4
BASEMENT OR CRAWL SPACE.....	1	2	2	3	2	1	3	1	-	2	1	-	3
OUTSIDE WALLS.....	3	3	3	3	4	3	5	2	1	3	2	1	4
NO.....	93	91	92	89	92	93	90	95	96	75	95	96	91
EQUIPMENT ADDED (INEXPENSIVE)													
YES.....	7	7	7	9	9	11	6	7	7	7	6	5	8
CLOSABLE SHUTTERS.....	-	-	-	-	1	1	1	-	-	-	1	-	1
STORM DOORS.....	4	4	3	5	5	5	4	5	4	5	3	2	5
AUTOMATIC OR CLOCK THERMOSTAT.....	1	1	1	2	2	3	1	1	1	1	-	-	1
NEW WATER HEATING EQUIPMENT.....	2	3	3	3	3	4	1	2	2	1	3	3	3
NO.....	93	93	93	91	91	89	94	93	93	93	94	95	92
EQUIPMENT ADDED (EXPENSIVE)													
YES.....	6	6	6	8	6	6	7	6	5	7	4	2	9
STORM WINDOWS/INSULATING GLASS.....	5	5	5	6	5	4	6	5	5	6	3	2	9
ELECTRIC HEAT PUMP.....	-	-	-	1	-	-	-	-	-	-	-	-	-
NEW FURNACE.....	2	2	2	2	2	2	3	2	1	2	1	1	2
NO.....	94	94	94	92	94	94	93	94	94	93	95	98	91

See footnotes at end of table.

TABLE 11B
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY CENSUS REGIONS-CONTINUED
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	CENSUS REGION											
		NORTH EAST			NORTH CENTRAL			SOUTH			WEST		
		TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL	TOTAL	URBAN	RURAL
ADDED ANY INSULATION OR EQUIPMENT													
YES.....	56	41	38	52	41	41	41	33	31	38	25	23	34
NO.....	54	59	62	48	59	59	59	67	69	62	75	77	66
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	5	7	7	4	7	6	7	4	3	5	5	4	7
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	5	5	5	6	5	5	4	5	5	5	3	2	8
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1	1	1	2	2	1	3	1	1	2	-	-	2
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	24	27	25	35	28	29	27	23	22	26	17	17	17
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	11	12	11	15	12	12	13	11	9	12	8	6	15

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1974 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 12A
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY PRIMARY HEATING FUEL
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	TYPE OF PRIMARY HEATING FUEL					
		NATURAL GAS	FUEL OIL, KEROSENE	LPG	ELECTRICITY	WOOD	OTHER, NONE
TOTAL HOUSING UNITS 1/.....	67,457	37,418	14,892	3,102	9,568	1,885	592
TOTAL ELIGIBLE HOUSING UNITS.....	64,957	36,462	14,810	2,930	8,377	1,785	592
INSULATION ADDED (INEXPENSIVE)							
YES, ELIGIBLE.....	27,522	14,431	7,130	1,340	3,458	820	283
WEATHERSTRIPPING.....	10,195	5,618	2,650	334	1,283	275	33
AROUND HOT WATER PIPES.....	2,380	1,082	575	151	442	130	-
AROUND HOT WATER HEATER.....	797	386	217	34	124	36	-
CAULKING.....	17,048	9,357	4,820	691	1,790	287	103
PLASTIC COVERING.....	10,656	4,896	2,965	792	1,251	554	197
OTHER.....	1,176	777	96	68	183	32	19
YES, INELIGIBLE.....	874	292	70	72	404	36	-
NO.....	39,061	22,694	7,633	1,690	5,706	1,030	308
INSULATION ADDED (EXPENSIVE)							
YES, ELIGIBLE.....	7,373	3,927	2,050	415	708	206	67
ROOF OR ATTIC.....	4,934	2,564	1,389	338	494	82	67
BASEMENT OR CRAWL SPACE.....	1,771	942	481	55	219	73	-
OUTSIDE WALLS.....	2,711	1,415	808	181	190	84	33
YES, INELIGIBLE.....	575	152	-	71	284	68	-
NO.....	59,510	33,339	12,843	2,616	8,576	1,612	524
EQUIPMENT ADDED (INEXPENSIVE)							
YES, ELIGIBLE.....	8,677	5,167	1,886	345	1,138	141	-
CLOSEABLE SHUTTERS.....	460	338	60	-	62	-	-
STORM DOORS.....	4,584	2,759	1,030	106	579	109	-
AUTOMATIC OR CLOCK THERMOSTAT.....	1,268	574	449	37	191	17	-
NEW WATER HEATING EQUIPMENT.....	3,153	1,855	670	201	411	15	-
YES, INELIGIBLE.....	588	115	45	37	359	32	-
NO.....	58,193	32,136	12,961	2,721	8,071	1,712	592
EQUIPMENT ADDED (EXPENSIVE)							
YES, ELIGIBLE.....	6,484	3,444	1,761	355	779	95	50
STORM WINDOWS/INSULATING GLASS.....	4,974	2,552	1,434	266	632	57	33
ELECTRIC HEAT PUMP.....	86	-	19	-	67	-	-
NEW FURNACE.....	1,737	1,032	341	105	205	38	17
YES, INELIGIBLE.....	458	127	41	37	254	-	-
NO.....	60,515	33,847	13,090	2,711	8,536	1,790	542

See footnotes at end of table.

TABLE 12A
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY PRIMARY HEATING FUEL-CONTINUED
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	TYPE OF PRIMARY HEATING FUEL					
		NATURAL GAS	FUEL OIL, KEROSENE	LPG	ELECTRICITY	WOOD	OTHER, NONE
ANY EQUIPMENT OR INSULATION ADDED BY ELIGIBLE HOUSING UNITS							
YES.....	33,779	18,315	8,422	1,656	4,144	941	300
NO.....	31,178	18,147	6,388	1,274	4,233	344	291
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	5,535	3,020	1,535	322	440	184	34
ELIGIBLE UNITS THAT ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION.....	4,647	2,537	1,247	262	511	74	17
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1,837	907	514	93	268	21	33
ELIGIBLE UNITS THAT ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	21,759	11,850	5,126	979	2,926	662	216
ELIGIBLE UNITS THAT ADDED STORM WINDOWS, OR STORM DOORS, OR ATTIC OR ROOF INSULATION....	11,369	6,213	3,091	533	1,237	227	67

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 12B
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY PRIMARY HEATING FUEL
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	TYPE OF PRIMARY HEATING FUEL					
		NATURAL GAS	FUEL OIL, KEROSENE	LPG	ELECTRICITY	WOOD	OTHER, NONE
TOTAL HOUSING UNITS <u>1/</u>	100%	100%	100%	100%	100%	100%	100%
TOTAL ELIGIBLE HOUSING UNITS.....	96	97	99	94	88	95	100
INSULATION ADDED (INEXPENSIVE)							
YES, ELIGIBLE.....	41	39	48	43	36	43	48
WEATHERSTRIPPING.....	15	15	13	11	13	15	6
AROUND HOT WATER PIPES.....	4	3	4	5	5	7	-
AROUND HOT WATER HEATER.....	1	1	1	1	1	2	-
CAULKING.....	25	25	32	22	19	15	17
PLASTIC COVERING.....	16	13	20	26	13	29	33
OTHER.....	2	2	1	2	2	2	3
YES, INELIGIBLE.....	1	1	-	2	4	2	-
NO.....	58	61	51	54	60	55	52
INSULATION ADDED (EXPENSIVE)							
YES, ELIGIBLE.....	11	10	14	13	7	11	11
ROOF OR ATTIC.....	7	7	9	11	5	4	11
BASEMENT OR CRAWL SPACE.....	3	3	3	2	2	4	-
OUTSIDE WALLS.....	4	4	5	6	2	4	6
YES, INELIGIBLE.....	1	-	-	2	3	4	-
NO.....	88	89	86	84	90	85	89
EQUIPMENT ADDED (INEXPENSIVE)							
YES, ELIGIBLE.....	13	14	13	11	12	7	-
CLOSEABLE SHUTTERS.....	1	1	-	-	1	-	-
STORM DOORS.....	7	7	7	3	6	6	-
AUTOMATIC OR CLOCK THERMOSTAT.....	2	2	3	1	2	1	-
NEW WATER HEATING EQUIPMENT.....	5	5	4	6	4	1	-
YES, INELIGIBLE.....	1	-	-	1	4	2	-
NO.....	86	86	87	88	84	91	100
EQUIPMENT ADDED (EXPENSIVE)							
YES, ELIGIBLE.....	10	9	12	11	8	5	8
STORM WINDOWS/INSULATING GLASS.....	7	7	10	9	7	3	6
ELECTRIC HEAT PUMP.....	-	-	-	-	1	-	-
NEW FURNACE.....	3	3	2	3	2	2	3
YES, INELIGIBLE.....	1	-	-	1	3	-	-
NO.....	90	90	88	87	89	95	92

See footnotes at end of table.

TABLE 12B
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY PRIMARY HEATING FUEL-CONTINUED
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	TYPE OF PRIMARY HEATING FUEL					
		NATURAL GAS	FUEL OIL, KEROSENE	LP6	ELECTRICITY	WOOD	OTHER, NONE
ANY EQUIPMENT OR INSULATION ADDED BY ELIGIBLE HOUSING UNITS							
YES.....	50	49	57	53	43	50	51
NO.....	46	48	43	41	44	45	49
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	8	8	10	10	5	10	6
ELIGIBLE UNITS THAT ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION.....	7	7	8	8	5	4	3
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	3	2	5	5	3	1	6
ELIGIBLE UNITS THAT ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	32	32	34	32	31	35	37
ELIGIBLE UNITS THAT ADDED STORM WINDOWS, OR STORM DOORS, OR ATTIC OR ROOF INSULATION.....	17	17	21	17	13	12	11

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 13A
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY PRIMARY HEATING FUEL
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	TYPE OF PRIMARY HEATING FUEL					
		NATURAL GAS	FUEL OIL, KEROSENE	LPG	ELECTRICITY	WOOD	OTHER, NONE
TOTAL HOUSING UNITS 1/.....	67,457	37,418	14,892	3,102	9,568	1,885	592
INSULATION ADDED (INEXPENSIVE)							
YES.....	17,632	9,438	4,366	870	2,391	433	134
WEATHERSTRIPPING.....	4,907	2,737	1,209	135	672	153	-
AROUND HOT WATER PIPES.....	1,286	587	211	134	322	33	-
AROUND HOT WATER HEATER.....	458	179	63	51	150	15	-
CAULKING.....	11,078	6,141	2,873	426	1,385	168	86
PLASTIC COVERING.....	5,456	2,504	1,575	379	631	301	65
OTHER.....	855	556	48	52	183	17	-
NO.....	49,826	27,980	10,526	2,232	7,177	1,452	457
INSULATION ADDED (EXPENSIVE)							
YES.....	4,226	2,390	879	207	618	99	33
ROOF OR ATTIC.....	2,843	1,423	613	173	515	85	33
BASEMENT OR CRAWL SPACE.....	1,271	691	308	34	239	-	-
OUTSIDE WALLS.....	1,478	783	321	90	203	47	33
NO.....	63,232	35,028	14,013	2,896	8,950	1,786	558
EQUIPMENT ADDED (INEXPENSIVE)							
YES.....	5,274	2,932	1,103	248	893	98	-
CLOSEABLE SHUTTERS.....	300	219	29	-	52	-	-
STORM DOORS.....	2,680	1,631	503	56	440	50	-
AUTOMATIC OR CLOCK THERMOSTAT.....	888	399	247	43	183	17	-
NEW WATER HEATING EQUIPMENT.....	2,132	1,034	437	188	442	31	-
NO.....	62,184	34,486	13,790	2,854	8,675	1,787	592
EQUIPMENT ADDED (EXPENSIVE)							
YES.....	3,504	1,950	855	164	463	21	50
STORM WINDOWS/INSULATING GLASS.....	2,672	1,411	723	108	397	-	33
ELECTRIC HEAT PUMP.....	67	-	19	-	48	-	-
NEW FURNACE.....	1,048	680	113	73	144	21	17
NO.....	63,953	35,467	14,037	2,938	9,105	1,864	542

See footnotes at end of table.

TABLE 13A
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY PRIMARY HEATING FUEL-CONTINUED
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	TYPE OF PRIMARY HEATING FUEL					
		NATURAL GAS	FUEL OIL, KEROSENE	LPG	ELECTRICITY	WOOD	OTHER, NONE
ADDED ANY INSULATION OR EQUIPMENT							
YFS.....	22,578	12,475	5,178	1,166	3,091	517	151
ND.....	44,879	24,942	9,714	1,936	6,477	1,369	441
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	3,212	1,816	731	169	397	99	-
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	2,490	1,377	707	127	242	21	17
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1,014	574	148	37	221	-	33
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	15,862	8,709	3,593	833	2,231	396	101
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	6,427	3,494	1,530	262	972	135	33

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 13B
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY PRIMARY HEATING FUEL
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	TYPE OF PRIMARY HEATING FUEL					
		NATURAL GAS	FUEL OIL, KEROSENE	LPG	ELECTRICITY	WOOD	OTHER, NONE
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%	100%
INSULATION ADDED (INEXPENSIVE)							
YES.....	26	25	29	28	25	23	23
WEATHERSTRIPPING.....	7	7	8	4	7	8	-
AROUND HOT WATER PIPES.....	2	2	1	4	3	2	-
AROUND HOT WATER HEATER.....	1	-	-	2	2	1	-
CAULKING.....	16	16	19	14	14	9	14
PLASTIC COVERING.....	8	7	11	12	7	16	11
OTHER.....	1	1	-	2	2	1	-
NO.....	74	75	71	72	75	77	77
INSULATION ADDED (EXPENSIVE)							
YES.....	6	6	6	7	6	5	5
ROOF OR ATTIC.....	4	4	4	6	5	4	6
BASEMENT OR CRAWL SPACE.....	2	2	2	1	2	-	-
OUTSIDE WALLS.....	2	2	2	3	2	2	6
NO.....	94	94	94	93	94	95	94
EQUIPMENT ADDED (INEXPENSIVE)							
YES.....	8	8	7	8	9	5	-
CLOSEABLE SHUTTERS.....	-	1	-	-	1	-	-
STORM DOORS.....	4	4	3	2	5	3	-
AUTOMATIC OR CLOCK THERMOSTAT.....	1	1	2	1	2	1	-
NEW WATER HEATING EQUIPMENT.....	3	3	3	6	5	2	-
NO.....	92	92	93	92	91	95	100
EQUIPMENT ADDED (EXPENSIVE)							
YES.....	5	5	5	5	5	1	8
STORM WINDOWS/INSULATING GLASS.....	4	4	5	3	4	-	6
ELECTRIC HEAT PUMP.....	-	-	-	-	1	-	-
NEW FURNACE.....	2	2	1	2	2	1	3
NO.....	95	95	94	95	95	99	92

See footnotes at end of table.

TABLE 13B
 CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY PRIMARY HEATING FUEL-CONTINUED
 (PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	TYPE OF PRIMARY HEATING FUEL					
		NATURAL GAS	FUEL OIL, KEROSENE	LPG	ELECTRICITY	WOOD	OTHER, NONE
ADDED ANY INSULATION OR EQUIPMENT							
YES.....	33	33	35	38	32	27	20
NO.....	67	67	65	62	68	73	74
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	5	0	5	5	4	5	-
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	4	4	5	4	3	1	3
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	2	2	1	1	2	-	6
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	24	23	24	27	23	21	17
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	10	9	10	9	10	7	6

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

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SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

**TABLE 14A
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY PRIMARY HEATING FUEL
(THOUSAND HOUSING UNITS)**

	TOTAL HOUSING UNITS	TYPE OF PRIMARY HEATING FUEL					
		NATURAL GAS	FUEL OIL, KEROSENE	LPG	ELECTRICITY	WOOD	OTHER, NONE
TOTAL HOUSING UNITS 1/.....	67,457	37,418	14,892	3,102	9,568	1,885	592
INSULATION ADDED (INEXPENSIVE)							
YES.....	19,579	9,897	5,195	985	2,580	705	218
WEATHERSTRIPPING.....	6,516	3,552	1,606	219	948	158	33
AROUND HOT WATER PIPES.....	1,502	686	382	17	304	98	15
AROUND HOT WATER HEATER.....	594	266	154	17	137	21	-
CAULKING.....	9,852	5,180	2,847	422	1,131	239	33
PLASTIC COVERING.....	8,683	3,880	2,373	631	1,144	473	182
OTHER.....	504	265	101	16	86	15	19
NO.....	47,878	27,521	9,698	2,117	6,988	1,181	373
INSULATION ADDED (EXPENSIVE)							
YES.....	4,545	2,120	1,464	279	456	192	34
ROOF OR ATTIC.....	3,021	1,453	978	235	237	83	34
BASEMENT OR CRAWL SPACE.....	959	408	227	55	196	73	-
OUTSIDE WALLS.....	1,729	750	591	127	209	52	-
NO.....	62,912	35,298	13,428	2,823	9,112	1,693	558
EQUIPMENT ADDED (INEXPENSIVE)							
YES.....	4,956	2,815	1,142	205	718	75	-
CLOSEABLE SHUTTERS.....	237	144	31	-	62	-	-
STORM DOORS.....	2,751	1,367	624	142	559	58	-
AUTOMATIC OR CLOCK THERMOSTAT.....	736	334	219	14	153	17	-
NEW WATER HEATING EQUIPMENT.....	1,624	1,066	361	49	148	-	-
NO.....	62,502	34,602	13,751	2,897	8,850	1,810	592
EQUIPMENT ADDED (EXPENSIVE)							
YES.....	4,002	1,892	1,106	266	647	91	-
STORM WINDOWS/INSULATING GLASS.....	3,078	1,436	824	215	546	57	-
ELECTRIC HEAT PUMP.....	144	16	31	-	97	-	-
NEW FURNACE.....	1,161	505	315	87	220	34	-
NO.....	53,455	35,526	13,786	2,836	8,921	1,794	592

See footnotes at end of table.

TABLE 14A
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY PRIMARY HEATING FUEL-CONTINUED
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	TYPE OF PRIMARY HEATING FUEL					
		NATURAL GAS	FUEL OIL, KEROSENE	LPG	ELECTRICITY	WOOD	OTHER, NONE
ADDED ANY INSULATION OR EQUIPMENT							
YES.....	24,178	12,403	6,395	1,222	3,113	827	218
NO.....	43,280	25,015	8,437	1,880	6,456	1,058	373
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	3,663	1,834	1,163	241	199	192	34
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION....	3,120	1,606	804	228	398	91	-
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	883	286	302	38	257	-	-
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	16,513	8,677	4,127	715	2,266	544	184
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION.....	7,236	3,590	2,021	486	927	178	34

^{1/} EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCES: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 14B
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY PRIMARY HEATING FUEL
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	TYPE OF PRIMARY HEATING FUEL					
		NATURAL GAS	FUEL OIL, KEROSENE	LPG	ELECTRICITY	WOOD	OTHER, NONE
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%	100%
INSULATION ADDED (INEXPENSIVE)							
YES.....	29	26	35	32	27	37	37
WEATHERSTRIPPING.....	10	9	11	7	10	8	6
AROUND HOT WATER PIPES.....	2	2	3	1	3	5	3
AROUND HOT WATER HEATER.....	1	1	1	1	1	1	-
CAULKING.....	15	14	19	14	12	13	5
PLASTIC COVERING.....	13	10	16	20	12	25	31
OTHER.....	1	1	1	1	1	1	3
NO.....	71	74	65	68	73	63	63
INSULATION ADDED (EXPENSIVE)							
YES.....	7	6	10	9	5	10	6
ROOF OR ATTIC.....	4	4	7	8	2	4	6
BASEMENT OR CRAWL SPACE.....	1	1	2	2	2	4	-
OUTSIDE WALLS.....	3	2	4	4	2	3	-
NO.....	93	94	90	91	95	90	94
EQUIPMENT ADDED (INEXPENSIVE)							
YES.....	7	8	8	7	8	4	-
CLOSEABLE SHUTTERS.....	-	-	-	-	1	-	-
STORM DOORS.....	4	4	4	5	6	3	-
AUTOMATIC OR CLOCK THERMOSTAT.....	1	1	1	-	2	1	-
NEW WATER HEATING EQUIPMENT.....	2	3	2	2	2	-	-
NO.....	93	92	92	93	92	96	100
EQUIPMENT ADDED (EXPENSIVE)							
YES.....	4	5	7	9	7	5	-
STORM WINDOWS/INSULATING GLASS.....	5	4	6	7	6	3	-
ELECTRIC HEAT PUMP.....	-	-	-	-	1	-	-
NEW FURNACE.....	2	1	2	3	2	2	-
NO.....	94	95	93	91	93	95	100

See footnotes at end of table.

TABLE 14B
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY PRIMARY HEATING FUEL-CONTINUED
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	TYPE OF PRIMARY HEATING FUEL					
		NATURAL GAS	FUEL OIL, KEROSENE	LPG	ELECTRICITY	WOOD	OTHER, NONE
ADDED ANY INSULATION OR EQUIPMENT							
YES.....	36	33	43	57	35	44	37
NO.....	64	67	57	51	67	56	63
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	5	5	4	8	2	10	6
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION....	5	4	5	7	4	5	-
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1	1	2	1	3	-	-
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	24	23	24	23	24	29	31
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	11	10	14	16	10	7	6

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

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TABLE 15A
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY DEGREE DAYS
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	HEATING AND COOLING DEGREE DAYS				
		<2000 CDD AND >7000 HDD	<2000 CDD AND 5500-7000 HDD	<2000 CDD AND 4000-5499 HDD	<2000 CDD AND <4000 HDD	>2000 CDD AND <4000 HDD
TOTAL HOUSING UNITS 1/.....	67,457	5,766	19,605	17,397	14,520	10,169
TOTAL ELIGIBLE HOUSING UNITS.....	64,957	5,030	18,978	17,084	14,119	9,745
INSULATION ADDED (INEXPENSIVE)						
YES, ELIGIBLE.....	27,522	2,314	9,265	7,984	4,805	3,155
WEATHERSTRIPPING.....	10,195	1,022	3,664	2,991	1,254	1,264
AROUND HOT WATER PIPES.....	2,380	159	816	534	514	357
AROUND HOT WATER HEATER.....	797	63	208	215	167	145
CAULKING.....	17,048	1,474	6,290	5,483	2,339	1,462
PLASTIC COVERING.....	10,656	888	3,019	3,588	2,270	891
OTHER.....	1,176	119	445	258	241	112
YES, INELIGIBLE.....	874	145	234	274	148	73
NO.....	39,061	3,307	10,107	9,138	9,567	6,941
INSULATION ADDED (EXPENSIVE)						
YES, ELIGIBLE.....	7,373	875	2,787	1,992	1,181	539
ROOF OR ATTIC.....	4,934	540	1,855	1,292	727	521
BASEMENT OR CRAWL SPACE.....	1,771	250	823	473	191	34
OUTSIDE WALLS.....	2,711	376	875	896	477	86
YES, INELIGIBLE.....	575	62	176	212	52	73
NO.....	59,510	4,829	16,642	15,193	13,287	9,558
EQUIPMENT ADDED (INEXPENSIVE)						
YES, ELIGIBLE.....	8,677	621	2,972	2,202	1,621	1,261
CLOSEABLE SHUTTERS.....	460	-	226	30	130	74
STORM DOORS.....	4,584	474	1,613	1,271	787	439
AUTOMATIC OR CLOCK THERMOSTAT.....	1,268	68	490	362	151	197
NEW WATER HEATING EQUIPMENT.....	3,153	134	979	797	648	594
YES, INELIGIBLE.....	588	66	188	180	137	17
NO.....	58,193	5,079	16,444	15,014	12,763	8,892
EQUIPMENT ADDED (EXPENSIVE)						
YES, ELIGIBLE.....	6,484	604	2,009	2,128	1,201	543
STORM WINDOWS/INSULATING GLASS.....	4,974	479	1,585	1,727	876	307
ELECTRIC HEAT PUMP.....	86	-	-	51	-	35
NEW FURNACE.....	1,737	174	487	430	408	239
YES, INELIGIBLE.....	458	64	136	144	114	-
NO.....	60,515	5,098	17,460	15,125	13,206	9,626

See footnotes at end of table.

TABLE 15A
 CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
 AND ELIGIBILITY FOR 1978 TAX CREDIT BY DEGREE DAYS-CONTINUED
 (THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	HEATING AND COOLING DEGREE DAYS				
		<2000 CDD AND >7000 HDD	<2000 CDD AND 5500-7000 HDD	<2000 CDD AND 4000-5499 HDD	<2000 CDD AND <4000 HDD	>2000 CDD AND <4000 HDD
ANY EQUIPMENT OR INSULATION ADDED BY ELIGIBLE HOUSING UNITS						
YES.....	35,779	2,800	11,229	9,571	6,177	3,999
NO.....	31,178	2,222	7,749	7,513	7,942	5,751
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	5,535	673	2,200	1,385	849	423
ELIGIBLE UNITS THAT ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION.....	4,647	402	1,423	1,521	868	432
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1,837	201	586	607	352	111
ELIGIBLE UNITS THAT ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	21,752	1,531	7,020	6,058	4,127	3,023
ELIGIBLE UNITS THAT ADDED STORM WINDOWS, OR STORM DOORS, OR ATTIC OR ROOF INSULATION.....	11,369	1,243	3,971	3,524	1,400	1,031

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

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SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 15B
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY DEGREE DAYS
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	HEATING AND COOLING DEGREE DAYS				
		<2000 CDD AND >7000 HDD	<2000 CDD AND 5500-7000 HDD	<2000 CDD AND 4000-5499 HDD	<2000 CDD AND <4000 HDD	>2000 CDD AND <4000 HDD
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%
TOTAL ELIGIBLE HOUSING UNITS.....	96	87	97	98	97	96
INSULATION ADDED (INEXPENSIVE)						
YES, ELIGIBLE.....	41	40	47	46	33	31
WEATHERSTRIPPING.....	15	18	19	17	9	12
AROUND HOT WATER PIPES.....	4	3	4	3	4	4
AROUND HOT WATER HEATER.....	1	1	1	1	1	1
CAULKING.....	25	26	32	32	16	14
PLASTIC COVERING.....	16	15	15	21	16	9
OTHER.....	2	2	2	1	2	1
YES, INELIGIBLE.....	1	3	1	2	1	1
NO.....	58	57	52	53	66	68
INSULATION ADDED (EXPENSIVE)						
YES, ELIGIBLE.....	11	15	14	11	8	5
ROOF OR ATTIC.....	7	9	9	7	5	5
BASEMENT OR CRAWL SPACE.....	3	4	4	3	1	-
OUTSIDE WALLS.....	4	7	4	5	3	1
YES, INELIGIBLE.....	1	1	1	1	-	1
NO.....	88	84	85	87	92	94
EQUIPMENT ADDED (INEXPENSIVE)						
YES, ELIGIBLE.....	13	11	15	13	11	12
CLOSEABLE SHUTTERS.....	1	-	1	-	1	1
STORM DOORS.....	7	8	8	7	5	4
AUTOMATIC OR CLOCK THERMOSTAT.....	2	1	3	2	1	2
NEW WATER HEATING EQUIPMENT.....	5	2	5	5	4	6
YES, INELIGIBLE.....	1	1	1	1	1	-
NO.....	86	88	84	86	88	87
EQUIPMENT ADDED (EXPENSIVE)						
YES, ELIGIBLE.....	10	10	10	12	3	5
STORM WINDOWS/INSULATING GLASS.....	7	8	8	10	6	3
ELECTRIC HEAT PUMP.....	-	-	-	-	-	-
NEW FURNACE.....	3	3	2	2	3	2
YES, INELIGIBLE.....	1	1	1	1	1	-
NO.....	90	88	89	87	91	95

See footnotes at end of table.

TABLE 15B
 CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
 AND ELIGIBILITY FOR 1978 TAX CREDIT BY DEGREE DAYS-CONTINUED
 (PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	HEATING AND COOLING DEGREE DAYS				
		<2000 CDD AND >7000 HDD	<2000 CDD AND 5500-7000 HDD	<2000 CDD AND 4000-5499 HDD	<2000 CDD AND <4000 HDD	>2000 CDD AND <4000 HDD
ANY EQUIPMENT OR INSULATION ADDED BY ELIGIBLE HOUSING UNITS						
YES.....	50	49	57	55	43	39
NO.....	46	39	40	43	56	57
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	8	12	11	8	6	4
ELIGIBLE UNITS THAT ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION.....	7	7	7	9	6	4
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	3	3	3	3	2	1
ELIGIBLE UNITS THAT ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	32	27	36	35	28	30
ELIGIBLE UNITS THAT ADDED STORM WINDOWS, OR STORM DOORS, OR ATTIC OR ROOF INSULATION....	17	22	20	19	12	10

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 16A
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY DEGREE DAYS
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	HEATING AND COOLING DEGREE DAYS				
		<2000 CDD AND >7000 HDD	<2000 CDD AND 5500-7000 HDD	<2000 CDD AND 4000-5499 HDD	<2000 CDD AND <4000 HDD	>2000 CDD AND <4000 HDD
TOTAL HOUSING UNITS 1/.....	67,457	5,766	19,605	17,397	14,520	10,169
INSULATION ADDED (INEXPENSIVE)						
YES.....	17,632	1,490	6,217	5,230	2,875	1,820
WEATHERSTRIPPING.....	4,907	451	1,830	1,463	592	571
AROUND HOT WATER PIPES.....	1,286	76	424	281	280	224
AROUND HOT WATER HEATER.....	458	31	125	109	48	144
CAULKING.....	11,078	976	4,240	3,461	1,571	830
PLASTIC COVERING.....	5,456	381	1,496	2,052	1,093	434
OTHER.....	855	90	273	205	168	118
NO.....	49,826	4,276	13,388	12,167	11,645	9,350
INSULATION ADDED (EXPENSIVE)						
YES.....	4,226	393	1,684	1,070	728	350
ROOF OR ATTIC.....	2,843	222	1,047	767	494	313
BASEMENT OR CRAWL SPACE.....	1,271	167	555	372	127	51
OUTSIDE WALLS.....	1,478	157	624	385	276	36
NO.....	63,232	5,373	17,921	16,327	13,792	9,820
EQUIPMENT ADDED (INEXPENSIVE)						
YES.....	5,274	411	1,768	1,320	976	799
CLOSEABLE SHUTTERS.....	300	-	117	25	84	74
STORM DOORS.....	2,680	301	1,090	688	384	216
AUTOMATIC OR CLOCK THERMOSTAT.....	888	68	270	309	154	87
NEW WATER HEATING EQUIPMENT.....	2,132	128	573	573	393	465
NO.....	62,184	5,355	17,837	16,077	13,544	9,370
EQUIPMENT ADDED (EXPENSIVE)						
YES.....	3,504	347	1,069	1,248	668	172
STORM WINDOWS/INSULATING GLASS.....	2,672	287	815	1,024	446	99
ELECTRIC HEAT PUMP.....	67	-	31	19	17	-
NEW FURNACE.....	1,048	60	324	311	261	92
NO.....	63,953	5,418	18,537	16,149	13,852	9,997

See footnotes at end of table.

TABLE 15A
 CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY DEGREE DAYS-CONTINUED
 (THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	HEATING AND COOLING DEGREE DAYS				
		<2000 CDD AND >7000 HDD	<2000 CDD AND 5500-7000 HDD	<2000 CDD AND 4000-5499 HDD	<2000 CDD AND <4000 HDD	>2000 CDD AND <4000 HDD
ADDED ANY INSULATION OR EQUIPMENT						
YES.....	22,578	1,954	7,631	6,430	3,856	2,408
NO.....	44,879	3,812	11,974	10,767	10,555	7,542
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	3,212	359	1,350	699	510	294
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	2,490	313	734	877	450	116
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1,014	34	334	371	218	56
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	15,862	1,248	5,212	4,482	2,777	2,142
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	5,427	735	2,289	1,819	1,010	572

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 16B
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY DEGREE DAYS
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	HEATING AND COOLING DEGREE DAYS				
		<2000 CDD AND >7000 HDD	<2000 CDD AND 5500-7000 HDD	<2000 CDD AND 4000-5499 HDD	<2000 CDD AND <4000 HDD	>2000 CDD AND <4000 HDD
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%
INSULATION ADDED (INEXPENSIVE)						
YES.....	26	26	32	30	20	18
WEATHERSTRIPPING.....	7	8	9	8	4	6
AROUND HOT WATER PIPES.....	2	1	2	2	2	2
AROUND HOT WATER HEATER.....	1	1	1	1	-	1
CAULKING.....	16	17	22	20	11	8
PLASTIC COVERING.....	8	7	8	12	8	4
OTHER.....	1	2	1	1	1	1
NO.....	74	74	68	70	80	82
INSULATION ADDED (EXPENSIVE)						
YES.....	5	7	9	6	5	3
ROOF OR ATTIC.....	4	4	5	4	3	3
BASEMENT OR CRAWL SPACE.....	2	3	3	2	1	1
OUTSIDE WALLS.....	2	3	3	2	2	-
NO.....	94	93	91	94	95	97
EQUIPMENT ADDED (INEXPENSIVE)						
YES.....	8	7	9	8	7	8
CLOSEABLE SHUTTERS.....	-	-	1	-	1	1
STORM DOORS.....	4	5	6	4	3	2
AUTOMATIC OR CLOCK THERMOSTAT.....	1	1	1	2	1	1
NEW WATER HEATING EQUIPMENT.....	3	2	3	3	3	5
NO.....	92	93	91	92	93	92
EQUIPMENT ADDED (EXPENSIVE)						
YES.....	5	6	5	7	5	2
STORM WINDOWS/INSULATING GLASS.....	4	5	4	6	3	1
ELECTRIC HEAT PUMP.....	-	-	-	-	-	-
NEW FURNACE.....	2	1	2	2	2	1
NO.....	95	94	95	93	95	98

See footnotes at end of table.

TABLE 16B
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY DEGREE DAYS-CONTINUED
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	HEATING AND COOLING DEGREE DAYS				
		<2000 CDD AND >7000 HDD	<2000 CDD AND 5500-7000 HDD	<2000 CDD AND 4000-5499 HDD	<2000 CDD AND <4000 HDD	>2000 CDD AND <4000 HDD
ADDED ANY INSULATION OR EQUIPMENT						
YES.....	31	34	38	37	27	26
NO.....	67	66	61	63	73	74
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	5	6	7	5	9	5
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	4	5	4	5	5	1
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	2	1	2	2	2	1
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	24	22	27	26	19	21
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	10	13	12	10	7	6

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "--" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 17A
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY DEGREE DAYS
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	HEATING AND COOLING DEGREE DAYS				
		<2000 CDD AND >7000 HDD	<2000 CDD AND 5500-7000 HDD	<2000 CDD AND 4000-5499 HDD	<2000 CDD AND <4000 HDD	>2000 CDD AND <4000 HDD
TOTAL HOUSING UNITS 1/.....	67,457	5,766	19,605	17,397	14,520	10,169
INSULATION ADDED (INEXPENSIVE)						
YES.....	19,579	1,855	6,307	5,917	3,446	2,055
WEATHERSTRIPPING.....	5,516	721	2,221	1,898	924	753
AROUND HOT WATER PIPES.....	1,502	122	492	383	338	167
AROUND HOT WATER HEATER.....	594	32	134	181	213	34
CAULKING.....	9,852	988	3,380	3,343	1,344	796
PLASTIC COVERING.....	3,683	850	2,465	2,841	1,783	745
OTHER.....	504	73	222	79	99	31
NO.....	47,878	3,911	13,299	11,480	11,075	8,114
INSULATION ADDED (EXPENSIVE)						
YES.....	4,545	592	1,558	1,374	686	336
ROOF OR ATTIC.....	3,021	386	1,061	853	386	336
BASEMENT OR CRAWL SPACE.....	959	125	433	242	143	17
OUTSIDE WALLS.....	1,729	239	424	743	273	50
NO.....	62,912	5,174	18,047	16,023	13,834	9,833
EQUIPMENT ADDED (INEXPENSIVE)						
YES.....	4,356	358	1,764	1,378	943	512
CLOSEABLE SHUTTERS.....	237	-	121	46	71	-
STORM DOORS.....	2,751	282	797	818	597	257
AUTOMATIC OR CLOCK THERMOSTAT.....	736	34	324	224	28	126
NEW WATER HEATING EQUIPMENT.....	1,624	42	640	485	310	146
NO.....	62,502	5,408	17,841	16,019	13,578	9,657
EQUIPMENT ADDED (EXPENSIVE)						
YES.....	4,002	352	1,238	1,334	708	372
STORM WINDOWS/INSULATING GLASS.....	3,078	259	989	1,037	586	208
ELECTRIC HEAT PUMP.....	144	-	31	78	-	35
NEW FURNACE.....	1,161	162	298	354	182	165
NO.....	63,455	5,414	18,367	16,063	13,813	9,798

See footnotes at end of table.

TABLE 17A
 CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY DEGREE DAYS-CONTINUED
 (THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	HEATING AND COOLING DEGREE DAYS				
		<2000 CDD AND >7000 HDD	<2000 CDD AND 5500-7000 HDD	<2000 CDD AND 4000-5499 HDD	<2000 CDD AND <4000 HDD	>2000 CDD AND <4000 HDD
ADDED ANY INSULATION OR EQUIPMENT						
YES.....	24,178	2,170	7,893	7,259	4,536	2,520
NO.....	43,280	3,596	11,712	10,138	10,184	7,649
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	3,663	457	1,313	1,057	557	298
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	3,120	217	993	997	679	334
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	883	134	245	337	129	38
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	16,513	1,351	5,342	4,888	3,071	1,950
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	7,236	754	2,361	2,195	1,270	656

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 17B
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY DEGREE DAYS
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	HEATING AND COOLING DEGREE DAYS				
		<2000 CDD AND >7000 HDD	<2000 CDD AND 5500-7000 HDD	<2000 CDD AND 4000-5499 HDD	<2000 CDD AND <4000 HDD	>2000 CDD AND <4000 HDD
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%
INSULATION ADDED (INEXPENSIVE)						
YES.....	29	32	32	34	24	20
WEATHERSTRIPPING.....	10	12	11	11	6	7
AROUND HOT WATER PIPES.....	2	2	3	2	2	2
AROUND HOT WATER HEATER.....	1	1	1	1	1	-
CAULKING.....	15	17	17	19	9	8
PLASTIC COVERING.....	15	15	13	16	12	7
OTHER.....	1	1	1	-	1	-
NO.....	71	68	68	66	76	80
INSULATION ADDED (EXPENSIVE)						
YES.....	7	10	8	8	5	3
ROOF OR ATTIC.....	4	7	5	5	3	3
BASEMENT OR CRAWL SPACE.....	1	2	2	1	1	-
OUTSIDE WALLS.....	3	4	2	4	2	-
NO.....	93	90	92	92	95	97
EQUIPMENT ADDED (INEXPENSIVE)						
YES.....	7	6	9	8	6	5
CLOSEABLE SHUTTERS.....	-	-	1	-	-	-
STORM DOORS.....	4	5	4	5	4	3
AUTOMATIC OR CLOCK THERMOSTAT.....	1	1	2	1	-	1
NEW WATER HEATING EQUIPMENT.....	2	1	3	3	2	1
NO.....	93	94	91	92	94	95
EQUIPMENT ADDED (EXPENSIVE)						
YES.....	5	6	5	8	5	4
STORM WINDOWS/INSULATING GLASS.....	5	4	5	6	4	2
ELECTRIC HEAT PUMP.....	-	-	-	-	-	-
NEW FURNACE.....	2	3	2	2	1	2
NO.....	95	94	94	92	95	96

See footnotes at end of table.

TABLE 17B
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY DEGREE DAYS-CONTINUED
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	HEATING AND COOLING DEGREE DAYS				
		<2000 CDD AND >7000 HDD	<2000 CDD AND 5500-7000 HDD	<2000 CDD AND 7000-5499 HDD	<2000 CDD AND <4000 HDD	>2000 CDD AND <4000 HDD
ADDED ANY INSULATION OR EQUIPMENT						
YES.....	36	38	40	42	50	25
NO.....	64	62	60	58	70	75
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	5	8	7	6	4	3
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION....	5	4	5	6	4	3
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1	2	1	2	1	-
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	23	24	27	28	21	18
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION.....	11	13	12	13	9	6

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 18A
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY TYPE OF HOUSING STRUCTURE
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	SINGLE FAMILY DETACHED					SINGLE FAMILY ATTACHED	BUILDING WITH 2-4 UNITS	MOBILE HOME	OTHER
		TOTAL	1-4 ROOMS	5 ROOMS	6 ROOMS	7 OR MORE ROOMS				
TOTAL HOUSING UNITS 1/.....	67,457	48,547	8,768	12,696	11,850	15,233	3,128	10,749	4,805	228
TOTAL ELIGIBLE HOUSING UNITS.....	64,957	47,159	8,558	12,319	11,675	14,607	3,095	10,104	4,370	228
INSULATION ADDED (INEXPENSIVE)										
YES, ELIGIBLE.....	27,522	21,183	3,518	5,653	5,357	6,655	1,233	2,976	2,021	110
WEATHERSTRIPPING.....	10,195	8,076	1,146	2,127	1,880	2,921	246	1,307	526	-
AROUND HOT WATER PIPES.....	2,380	1,610	296	460	391	462	92	49	629	-
AROUND HOT WATER HEATER.....	797	676	105	155	135	280	-	-	121	-
CAULKING.....	17,048	13,815	1,999	3,656	3,755	4,405	706	1,629	634	63
PLASTIC COVERING.....	10,656	7,765	1,591	2,144	1,738	2,292	403	1,304	1,137	47
OTHER.....	1,176	958	158	305	185	310	45	33	90	50
YES, INELIGIBLE.....	874	728	125	142	77	385	-	20	126	-
NO.....	39,061	26,636	5,126	6,902	6,416	8,192	1,896	7,754	2,657	118
INSULATION ADDED (EXPENSIVE)										
YES, ELIGIBLE.....	7,373	6,324	757	1,682	1,632	2,254	232	422	395	-
ROOF OR ATTIC.....	4,934	4,461	529	1,137	1,255	1,540	93	208	173	-
BASEMENT OR CRAWL SPACE.....	1,771	1,409	110	395	260	644	75	52	236	-
OUTSIDE WALLS.....	2,711	2,306	397	496	716	697	65	227	113	-
YES, INELIGIBLE.....	575	526	138	56	34	298	-	-	49	-
NO.....	59,510	41,697	7,873	10,959	10,184	12,681	2,896	10,327	4,361	228
EQUIPMENT ADDED (INEXPENSIVE)										
YES, ELIGIBLE.....	8,677	6,819	1,002	1,847	1,828	2,142	332	1,090	405	31
CLOSEABLE SHUTTERS.....	460	396	27	80	142	147	20	29	15	-
STORM DOORS.....	4,584	3,862	551	1,269	848	1,194	134	410	178	-
AUTOMATIC OR CLOCK THERMOSTAT.....	1,268	950	101	220	357	272	-	212	76	31
NEW WATER HEATING EQUIPMENT.....	3,153	2,211	416	410	597	787	198	548	196	-
YES, INELIGIBLE.....	588	562	102	111	94	255	14	-	13	-
NO.....	58,193	41,166	7,664	10,738	9,928	12,835	2,783	9,659	4,397	198
EQUIPMENT ADDED (EXPENSIVE)										
YES, ELIGIBLE.....	6,484	5,088	593	1,231	1,453	1,811	290	813	293	-
STORM WINDOWS/INSULATING GLASS.....	4,974	3,923	508	928	1,115	1,373	189	601	261	-
ELECTRIC HEAT PUMP.....	86	73	-	-	51	22	14	-	-	-
NEW FURNACE.....	1,737	1,375	85	367	401	522	87	212	63	-
YES, INELIGIBLE.....	458	458	70	20	78	291	-	-	-	-
NO.....	60,515	43,001	8,105	11,445	10,319	13,131	2,839	9,936	4,512	228

See footnotes at end of table.

TABLE 18A
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY TYPE OF HOUSING STRUCTURE-CONTINUED
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	SINGLE FAMILY DETACHED					SINGLE FAMILY ATTACHED	BUILDING WITH 2-4 UNITS	MOBILE HOME	OTHER
		TOTAL	1-4 ROOMS	5 ROOMS	6 ROOMS	7 OR MORE ROOMS				
ANY EQUIPMENT OR INSULATION ADDED BY ELIGIBLE HOUSING UNITS										
YES.....	33,779	26,089	4,255	6,793	6,673	8,368	1,472	3,792	2,315	110
NO.....	31,179	21,070	4,303	5,526	5,002	6,239	1,623	6,312	2,054	118
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	5,535	4,710	607	1,270	1,154	1,680	178	327	321	-
ELIGIBLE UNITS THAT ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION.....	4,647	3,474	443	819	975	1,237	235	719	219	-
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1,937	1,614	150	412	478	574	55	95	74	-
ELIGIBLE UNITS THAT ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	21,759	16,290	3,055	4,292	4,067	4,878	1,004	2,652	1,702	110
ELIGIBLE UNITS THAT ADDED STORM WINDOWS, OR STORM DOORS, OR ATTIC OR ROOF INSULATION.....	11,362	5,448	1,196	2,507	2,517	3,269	376	1,017	486	-

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 18B
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY TYPE OF HOUSING STRUCTURE
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	SINGLE FAMILY DETACHED					SINGLE FAMILY ATTACHED	BUILDING WITH 2-4 UNITS	MOBILE HOME	OTHER
		TOTAL	1-4 ROOMS	5 ROOMS	6 ROOMS	7 OR MORE ROOMS				
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
TOTAL ELIGIBLE HOUSING UNITS.....	96	97	98	97	99	96	99	94	91	100
INSULATION ADDED (INEXPENSIVE)										
YES, ELIGIBLE.....	41	44	40	45	45	44	39	28	42	48
WEATHERSTRIPPING.....	15	17	13	17	16	19	9	12	11	-
AROUND HOT WATER PIPES.....	4	3	3	4	5	3	3	-	15	-
AROUND HOT WATER HEATER.....	1	1	1	1	1	2	-	-	3	-
CAULKING.....	25	28	23	29	32	29	29	15	13	28
PLASTIC COVERING.....	16	15	18	17	15	15	13	12	24	20
OTHER.....	2	2	2	2	2	2	1	-	2	22
YES, INELIGIBLE.....	1	1	1	1	1	3	-	-	3	-
NO.....	58	55	58	54	54	54	61	72	55	52
INSULATION ADDED (EXPENSIVE)										
YES, ELIGIBLE.....	11	13	9	13	14	15	7	4	8	-
ROOF OR ATTIC.....	7	9	6	9	11	10	3	2	4	-
BASEMENT OR CRAWL SPACE.....	3	3	1	3	2	4	2	-	5	-
OUTSIDE WALLS.....	4	5	5	4	6	5	2	2	2	-
YES, INELIGIBLE.....	1	1	2	-	-	2	-	-	1	-
NO.....	88	86	90	86	86	83	93	96	91	100
EQUIPMENT ADDED (INEXPENSIVE)										
YES, ELIGIBLE.....	13	14	11	15	15	14	11	10	8	13
CLOSEABLE SHUTTERS.....	1	1	-	1	1	1	1	-	-	-
STORM DOORS.....	7	8	6	10	7	8	4	4	4	-
AUTOMATIC OR CLOCK THERMOSTAT.....	2	2	1	2	3	2	-	2	2	13
NEW WATER HEATING EQUIPMENT.....	5	5	5	3	5	5	6	5	4	-
YES, INELIGIBLE.....	1	1	1	1	1	2	-	-	-	-
NO.....	86	85	87	85	84	84	89	90	91	87
EQUIPMENT ADDED (EXPENSIVE)										
YES, ELIGIBLE.....	10	10	7	10	12	12	7	8	5	-
STORM WINDOWS/INSULATING GLASS.....	7	8	6	7	9	9	6	6	5	-
ELECTRIC HEAT PUMP.....	-	-	-	-	-	-	-	-	-	-
NEW FURNACE.....	3	3	1	3	3	3	3	2	1	-
YES, INELIGIBLE.....	1	1	1	-	1	2	-	-	-	-
NO.....	90	89	92	90	87	86	91	92	94	100

See footnotes at end of table.

TABLE 18B
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY TYPE OF HOUSING STRUCTURE-CONTINUED
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	SINGLE FAMILY DETACHED					SINGLE FAMILY ATTACHED	BUILDINGS WITH 2-4 UNITS	MOBILE HOME	OTHER
		TOTAL	1-4 ROOMS	5 ROOMS	6 ROOMS	7 OR MORE ROOMS				
ANY EQUIPMENT OR INSULATION ADDED BY ELIGIBLE HOUSING UNITS										
YES.....	50	44	49	54	54	55	47	35	48	48
NO.....	46	43	49	44	42	41	52	59	45	52
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	2	10	7	10	10	11	6	3	7	-
ELIGIBLE UNITS THAT ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION.....	7	7	5	6	8	8	8	7	5	-
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	3	3	2	3	4	4	2	1	2	-
ELIGIBLE UNITS THAT ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	32	34	35	34	34	32	32	29	35	48
ELIGIBLE UNITS THAT ADDED STORM WINDOWS, OR STORM DOORS, OR ATTIC OR ROOF INSULATION....	17	20	14	20	21	21	12	9	10	-

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 19A
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY TYPE OF HOUSING STRUCTURE
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	SINGLE FAMILY DETACHED					SINGLE FAMILY ATTACHED	BUILDING WITH 2-4 UNITS	MOBILE HOME	OTHER
		TOTAL	1-4 ROOMS	5 ROOMS	6 ROOMS	7 OR MORE ROOMS				
TOTAL HOUSING UNITS 1/.....	67,457	48,547	8,768	12,696	11,850	15,233	3,128	10,749	4,805	228
INSULATION ADDED (INEXPENSIVE)										
YES.....	17,632	13,552	2,003	3,737	3,447	4,366	811	1,826	1,333	110
WEATHERSTRIPPING.....	4,307	3,737	562	898	1,007	1,270	166	708	296	-
AROUND HOT WATER PIPES.....	1,286	810	132	197	164	317	33	17	427	-
AROUND HOT WATER HEATER.....	458	370	17	113	50	190	-	-	88	-
CAULKING.....	11,078	9,057	1,116	2,515	2,513	2,913	576	946	436	63
PLASTIC COVERING.....	5,456	3,796	757	1,119	902	1,018	235	756	622	47
OTHER.....	855	679	101	184	139	256	22	33	91	31
NO.....	49,826	34,995	6,765	8,959	8,403	10,867	2,318	8,923	3,472	118
INSULATION ADDED (EXPENSIVE)										
YES.....	4,226	3,683	476	1,020	858	1,329	127	184	232	-
ROOF OR ATTIC.....	2,843	2,568	312	731	665	861	46	150	79	-
BASEMENT OR CRAWL SPACE.....	1,271	1,015	79	276	111	549	63	21	172	-
OUTSIDE WALLS.....	1,478	1,350	271	286	399	394	18	65	45	-
NO.....	63,232	44,864	8,292	11,676	10,991	13,904	3,001	10,565	4,573	228
EQUIPMENT ADDED (INEXPENSIVE)										
YES.....	5,274	4,066	654	1,032	1,034	1,346	170	737	270	31
CLOSEABLE SHUTTERS.....	300	250	37	17	70	126	20	29	-	-
STORM DOORS.....	2,680	2,234	369	756	391	717	60	261	125	-
AUTOMATIC OR CLOCK THERMOSTAT.....	888	717	75	179	276	186	-	110	30	31
NEW WATER HEATING EQUIPMENT.....	2,132	1,476	304	227	313	632	110	416	130	-
NO.....	62,184	44,481	8,114	11,664	10,816	13,887	2,959	10,012	4,534	198
EQUIPMENT ADDED (EXPENSIVE)										
YES.....	3,504	2,755	282	605	711	1,158	152	466	131	-
STORM WINDOWS/INSULATING GLASS.....	2,672	2,127	244	426	555	902	94	338	113	-
ELECTRIC HEAT PUMP.....	67	67	20	-	36	12	-	-	-	-
NEW FURNACE.....	1,048	843	63	197	170	414	59	128	17	-
NO.....	63,953	45,792	8,486	12,092	11,139	14,075	2,976	10,283	4,674	228

See footnotes at end of table.

TABLE 19A
 CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY TYPE OF HOUSING STRUCTURE-CONTINUED
 (THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	SINGLE FAMILY DETACHED					SINGLE FAMILY ATTACHED	BUILDING WITH 2-4 UNITS	MOBILE HOME	OTHER
		TOTAL	1-4 ROOMS	5 ROOMS	6 ROOMS	7 OR MORE ROOMS				
ADDED ANY INSULATION OR EQUIPMENT										
YES.....	22,578	17,409	2,654	4,741	4,420	5,613	1,041	2,515	1,504	110
NO.....	44,979	31,130	6,134	7,255	7,429	9,620	2,087	8,234	3,301	118
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	3,212	2,786	366	771	615	1,035	109	101	217	-
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	2,490	1,957	172	355	467	864	134	383	116	-
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1,314	898	110	249	244	294	18	83	15	-
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	15,962	11,968	1,987	3,366	3,095	3,420	780	1,948	1,156	110
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION.....	6,427	5,340	650	1,477	1,305	1,909	181	619	287	-

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "--" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

**TABLE 19B
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY TYPE OF HOUSING STRUCTURE
(PERCENTAGE OF HOUSING UNITS)**

	TOTAL HOUSING UNITS	SINGLE FAMILY DETACHED					SINGLE FAMILY ATTACHED	BUILDING WITH 2-4 UNITS	MOBILE HOME	OTHER
		TOTAL	1-4 ROOMS	5 ROOMS	6 ROOMS	7 OR MORE ROOMS				
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
INSULATION ADDED (INEXPENSIVE)										
YES.....	26	28	23	29	29	29	26	17	28	48
WEATHERSTRIPPING.....	7	8	6	7	9	8	5	7	6	-
AROUND HOT WATER PIPES.....	2	2	2	2	1	2	1	-	9	-
AROUND HOT WATER HEATER.....	1	1	-	1	-	1	-	-	2	-
CAULKING.....	16	19	13	20	21	19	18	9	9	28
PLASTIC COVERING.....	8	8	9	9	8	7	8	7	13	20
OTHER.....	1	1	1	1	1	2	1	-	2	13
NO.....	74	72	77	71	71	71	74	83	72	52
INSULATION ADDED (EXPENSIVE)										
YES.....	6	8	5	8	7	9	4	2	5	-
ROOF OR ATTIC.....	4	5	4	6	6	6	1	1	2	-
BASEMENT OR CRAWL SPACE.....	2	2	1	2	1	4	2	-	4	-
OUTSIDE WALLS.....	2	3	3	2	3	3	1	1	1	-
NO.....	94	92	95	92	93	91	96	98	95	100
EQUIPMENT ADDED (INEXPENSIVE)										
YES.....	8	8	7	8	9	9	5	7	6	13
CLOSEABLE SHUTTERS.....	-	1	-	-	1	1	1	-	-	-
STORM DOORS.....	4	5	4	6	3	5	2	2	3	-
AUTOMATIC OR CLOCK THERMOSTAT.....	1	1	1	1	2	1	-	1	1	13
NEW WATER HEATING EQUIPMENT.....	3	3	3	2	3	4	4	4	3	-
NO.....	92	92	93	92	91	91	95	93	94	87
EQUIPMENT ADDED (EXPENSIVE)										
YES.....	5	6	3	5	6	8	5	4	3	-
STORM WINDOWS/INSULATING GLASS.....	4	4	3	3	5	6	3	3	2	-
ELECTRIC HEAT PUMP.....	-	-	-	-	-	-	-	-	-	-
NEW FURNACE.....	2	2	1	2	1	3	2	1	-	-
NO.....	95	94	97	95	94	92	95	96	97	100

See footnotes at end of table.

TABLE 19B
 CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY TYPE OF HOUSING STRUCTURE-CONTINUED
 (PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	SINGLE FAMILY DETACHED					SINGLE FAMILY ATTACHED	BUILDING WITH 2-4 UNITS	MOBILE HOME	OTHER
		TOTAL	1-4 ROOMS	5 ROOMS	6 ROOMS	7 OR MORE ROOMS				
ADDED ANY INSULATION OR EQUIPMENT										
YES.....	33	36	30	37	37	37	33	23	31	48
NO.....	67	64	70	63	63	63	67	77	69	52
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	5	6	4	6	5	7	5	1	5	-
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	4	4	2	3	4	5	4	4	2	-
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	2	2	1	2	2	2	1	1	-	-
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	24	24	23	27	26	22	25	18	24	48
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	10	11	7	12	11	13	6	6	5	-

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 20A
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY TYPE OF HOUSING STRUCTURE
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	SINGLE FAMILY DETACHED					SINGLE FAMILY ATTACHED	BUILDING WITH 2-4 UNITS	MOBILE HOME	OTHER
		TOTAL	1-4 ROOMS	5 ROOMS	6 ROOMS	7 OR MORE ROOMS				
TOTAL HOUSING UNITS 1/.....	67,457	48,547	8,768	12,696	11,850	15,233	3,128	10,749	4,805	228
INSULATION ADDED (INEXPENSIVE)										
YES.....	19,579	15,308	2,731	3,698	3,811	5,068	950	1,987	1,268	66
WEATHERSTRIPPING.....	6,516	5,399	764	1,392	1,040	2,203	170	676	273	-
AROUND HOT WATER PIPES.....	1,502	1,161	214	382	278	287	59	32	249	-
AROUND HOT WATER HEATER.....	594	527	113	87	102	226	-	-	67	-
CAULKING.....	9,852	7,896	1,187	1,905	2,209	2,595	592	986	377	-
PLASTIC COVERING.....	8,683	6,628	1,456	1,700	1,424	2,048	355	869	784	47
OTHER.....	504	448	82	143	62	161	23	-	13	19
NO.....	47,878	33,239	6,037	8,999	8,039	10,164	2,178	8,762	3,537	162
INSULATION ADDED (EXPENSIVE)										
YES.....	4,545	3,935	590	881	994	1,470	114	284	212	-
ROOF OR ATTIC.....	3,021	2,733	436	549	707	1,041	56	104	128	-
BASEMENT OR CRAWL SPACE.....	959	796	56	164	165	412	11	54	98	-
OUTSIDE WALLS.....	1,729	1,437	271	243	390	533	47	163	83	-
NO.....	62,912	44,612	8,178	11,815	10,855	13,763	3,014	10,465	4,592	228
EQUIPMENT ADDED (INEXPENSIVE)										
YES.....	4,956	4,091	543	1,044	1,047	1,456	304	400	162	-
CLOSEABLE SHUTTERS.....	237	222	14	63	72	73	-	-	15	-
STORM DOORS.....	2,751	2,369	301	659	559	850	167	148	67	-
AUTOMATIC OR CLOCK THERMOSTAT.....	736	575	67	111	114	283	-	102	60	-
NEW WATER HEATING EQUIPMENT.....	1,624	1,272	198	256	399	419	136	150	65	-
NO.....	62,502	44,456	8,225	11,652	10,802	13,777	2,825	10,349	4,643	228
EQUIPMENT ADDED (EXPENSIVE)										
YES.....	4,002	3,279	426	717	934	1,201	191	370	162	-
STORM WINDOWS/INSULATING GLASS.....	3,078	2,496	379	546	691	880	149	286	148	-
ELECTRIC HEAT PUMP.....	144	130	-	-	32	98	14	-	-	-
NEW FURNACE.....	1,161	1,003	72	221	328	381	29	84	45	-
NO.....	63,455	45,268	8,342	11,979	10,915	14,032	2,937	10,379	4,642	228

See footnotes at end of table.

TABLE 20A
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY TYPE OF HOUSING STRUCTURE-CONTINUED
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	SINGLE FAMILY DETACHED					SINGLE FAMILY ATTACHED	BUILDING WITH 2-4 UNITS	MOBILE HOME	OTHER
		TOTAL	1-4 ROOMS	5 ROOMS	6 ROOMS	7 OR MORE ROOMS				
ADDED ANY INSULATION OR EQUIPMENT										
YES.....	24,178	19,165	3,294	4,525	4,881	6,466	1,122	2,329	1,496	66
NO.....	43,280	29,382	5,474	8,172	6,969	8,767	2,007	8,420	3,309	162
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	3,663	3,123	480	687	774	1,182	114	272	153	-
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION....	3,120	2,467	316	524	714	913	191	358	183	-
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	883	812	110	193	220	288	-	12	59	-
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	16,513	12,763	2,388	3,120	3,172	4,083	817	1,687	1,180	66
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	7,236	6,171	939	1,432	1,575	2,224	332	487	245	-

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 208
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY TYPE OF HOUSING STRUCTURE
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	SINGLE FAMILY DETACHED					SINGLE FAMILY ATTACHED	BUILDING WITH 2-4 UNITS	MOBILE HOME	OTHER
		TOTAL	1-4 ROOMS	5 ROOMS	6 ROOMS	7 OR MORE ROOMS				
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
INSULATION ADDED (INEXPENSIVE)										
YES.....	29	52	31	29	32	33	30	18	26	29
WEATHERSTRIPPING.....	10	11	9	11	9	14	5	6	5	-
AROUND HOT WATER PIPES.....	2	2	2	3	2	2	2	-	5	-
AROUND HOT WATER HEATER.....	1	1	1	1	1	1	-	-	1	-
CAULKING.....	15	15	14	15	13	17	19	9	8	-
PLASTIC COVERING.....	13	14	17	13	12	13	11	8	15	20
OTHER.....	1	1	1	1	1	1	1	-	-	9
NO.....	71	48	69	71	68	67	70	82	74	71
INSULATION ADDED (EXPENSIVE)										
YES.....	7	8	7	7	8	10	4	3	4	-
ROOF OR ATTIC.....	4	6	5	4	5	7	2	1	3	-
BASEMENT OR CRAWL SPACE.....	1	2	1	1	1	3	-	-	2	-
OUTSIDE WALLS.....	2	3	3	2	3	5	1	2	2	-
NO.....	93	92	93	93	92	90	96	97	96	100
EQUIPMENT ADDED (INEXPENSIVE)										
YES.....	7	8	6	8	9	10	10	4	3	-
CLOSEABLE SHUTTERS.....	-	-	-	-	1	-	-	-	-	-
STORM DOORS.....	4	5	3	5	5	5	5	1	1	-
AUTOMATIC OR CLOCK THERMOSTAT.....	1	1	1	1	1	2	-	1	1	-
NEW WATER HEATING EQUIPMENT.....	2	3	2	2	3	3	4	1	1	-
NO.....	93	92	94	92	91	90	90	96	97	100
EQUIPMENT ADDED (EXPENSIVE)										
YES.....	6	7	5	6	8	8	6	3	3	-
STORM WINDOWS/INSULATING GLASS.....	5	5	4	4	5	6	5	3	3	-
ELECTRIC HEAT PUMP.....	-	-	-	-	-	1	-	-	-	-
NEW FURNACE.....	2	2	1	2	3	3	1	1	1	-
NO.....	94	93	95	94	92	92	94	97	97	100

See footnotes at end of table.

TABLE 20B
 CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY TYPE OF HOUSING STRUCTURE-CONTINUED
 (PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	SINGLE FAMILY DETACHED					SINGLE FAMILY ATTACHED	BUILDING WITH 2-4 UNITS	MOBILE HOME	OTHER
		TOTAL	1-4 ROOMS	5 ROOMS	6 ROOMS	7 OR MORE ROOMS				
ADDED ANY INSULATION OR EQUIPMENT										
YES.....	56	30	70	36	41	42	36	22	31	29
NO.....	44	61	32	64	59	58	64	78	69	71
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	5	6	5	5	7	8	4	3	5	-
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	5	5	4	4	6	5	6	3	5	-
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1	2	1	2	2	2	-	-	1	-
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	24	26	27	25	27	27	26	16	25	29
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	11	13	11	11	13	15	11	5	5	-

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 21A
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY YEAR HOUSE BUILT
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	YEAR HOUSE BUILT						
		1975 OR LATER	1970 TO 1974	1965 TO 1969	1960 TO 1964	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
TOTAL HOUSING UNITS 1/.....	67,457	4,869	7,498	6,493	6,530	12,480	7,389	22,198
TOTAL ELIGIBLE HOUSING UNITS.....	64,957	2,368	7,498	6,493	6,530	12,480	7,389	22,198
INSULATION ADDED (INEXPENSIVE)								
YES, ELIGIBLE.....	27,522	736	3,012	1,933	3,202	5,688	3,275	9,677
WEATHERSTRIPPING.....	10,195	381	1,302	567	1,050	2,190	1,142	3,563
AROUND HOT WATER PIPES.....	2,380	85	554	144	353	353	256	634
AROUND HOT WATER HEATER.....	797	30	198	38	80	186	59	206
CAULKING.....	17,048	275	1,567	1,089	2,043	3,716	2,230	6,127
PLASTIC COVERING.....	10,656	255	1,060	728	1,002	1,729	1,296	4,587
OTHER.....	1,176	99	135	130	157	219	121	315
YES, INELIGIBLE.....	874	874	-	-	-	-	-	-
NO.....	39,061	3,259	4,487	4,561	3,328	6,792	4,114	12,521
INSULATION ADDED (EXPENSIVE)								
YES, ELIGIBLE.....	7,373	280	741	462	698	1,942	836	2,413
ROOF OR ATTIC.....	4,934	124	362	275	521	1,469	566	1,617
BASEMENT OR CRAWL SPACE.....	1,771	155	372	123	123	268	202	527
OUTSIDE WALLS.....	2,711	48	188	81	274	656	379	1,085
YES, INELIGIBLE.....	575	575	-	-	-	-	-	-
NO.....	59,510	4,014	6,757	6,032	5,832	10,538	6,553	19,785
EQUIPMENT ADDED (INEXPENSIVE)								
YES, ELIGIBLE.....	8,677	417	1,026	687	967	1,827	1,042	2,710
CLOSEABLE SHUTTERS.....	460	15	134	75	30	58	73	74
STORM DOORS.....	4,584	326	580	240	384	1,077	573	1,405
AUTOMATIC OR CLOCK THERMOSTAT.....	1,268	74	136	115	108	231	220	384
NEW WATER HEATING EQUIPMENT.....	3,153	64	257	296	507	547	293	1,188
YES, INELIGIBLE.....	588	588	-	-	-	-	-	-
NO.....	58,193	3,863	6,473	5,806	5,563	10,653	6,347	19,487
EQUIPMENT ADDED (EXPENSIVE)								
YES, ELIGIBLE.....	6,484	187	587	395	748	1,346	714	2,507
STORM WINDOWS/INSULATING GLASS.....	4,974	153	451	168	626	951	639	1,987
ELECTRIC HEAT PUMP.....	86	-	-	-	46	22	-	19
NEW FURNACE.....	1,737	65	136	227	172	409	113	617
YES, INELIGIBLE.....	458	458	-	-	-	-	-	-
NO.....	60,515	4,224	6,912	6,098	5,782	11,134	6,675	19,691

See footnotes at end of table.

TABLE 21A
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY YEAR HOUSE BUILT-CONTINUED
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	YEAR HOUSE BUILT						
		1975 OR LATER	1970 TO 1974	1965 TO 1969	1960 TO 1964	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
		ANY EQUIPMENT OR INSULATION ADDED BY ELIGIBLE HOUSING UNITS						
YES.....	33,779	920	3,663	2,414	3,921	7,205	4,074	11,502
NO.....	31,178	1,449	5,435	4,080	2,709	5,185	3,314	10,606
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	5,535	218	563	293	619	1,612	554	1,667
ELIGIBLE UNITS THAT ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION.....	4,647	125	408	233	668	1,016	436	1,761
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1,837	62	178	163	80	330	278	746
ELIGIBLE UNITS THAT ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	21,759	514	2,515	1,713	2,454	4,337	2,403	7,418
ELIGIBLE UNITS THAT ADDED STORM WINDOWS, OR STORM DOORS, OR ATTIC OR ROOF INSULATION.....	11,360	448	1,036	620	1,235	2,011	1,363	3,856

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "--" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 21B
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY YEAR HOUSE BUILT
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	YEAR HOUSE BUILT						
		1975 OR LATER	1970 TO 1974	1965 TO 1969	1960 TO 1964	1950 TO 1959	1940 TO 1949	1933 OR EARLIER
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%	100%	100%
TOTAL ELIGIBLE HOUSING UNITS.....	96	49	100	100	100	100	100	100
INSULATION ADDED (INEXPENSIVE)								
YES, ELIGIBLE.....	41	15	40	30	49	46	44	44
WEATHERSTRIPPING.....	15	8	17	9	16	18	15	15
AROUND HOT WATER PIPES.....	4	2	7	2	5	3	3	3
AROUND HOT WATER HEATER.....	1	1	3	1	1	1	1	1
CAULKING.....	25	6	21	17	31	30	30	28
PLASTIC COVERING.....	16	5	14	11	15	14	18	21
OTHER.....	2	2	2	2	2	2	2	1
YES, INELIGIBLE.....	1	18	-	-	-	-	-	-
NO.....	58	67	60	70	51	54	56	56
INSULATION ADDED (EXPENSIVE)								
YES, ELIGIBLE.....	11	6	10	7	11	15	11	11
ROOF OR ATTIC.....	7	3	5	4	8	12	8	7
BASEMENT OR CRAWL SPACE.....	3	3	5	2	2	2	3	2
OUTSIDE WALLS.....	4	1	3	1	4	5	5	5
YES, INELIGIBLE.....	1	12	-	-	-	-	-	-
NO.....	88	82	90	93	89	84	89	89
EQUIPMENT ADDED (INEXPENSIVE)								
YES, ELIGIBLE.....	13	9	14	11	15	15	14	12
CLOSEABLE SHUTTERS.....	1	-	2	1	-	-	1	-
STORM DOORS.....	7	7	8	4	6	9	8	6
AUTOMATIC OR CLOCK THERMOSTAT.....	2	2	2	2	2	2	3	2
NEW WATER HEATING EQUIPMENT.....	5	1	3	5	8	4	4	5
YES, INELIGIBLE.....	1	12	-	-	-	-	-	-
NO.....	86	79	86	89	85	85	86	88
EQUIPMENT ADDED (EXPENSIVE)								
YES, ELIGIBLE.....	10	4	8	6	11	11	10	11
STORM WINDOWS/INSULATING GLASS.....	7	3	6	3	10	3	9	9
ELECTRIC HEAT PUMP.....	-	-	-	-	1	-	-	-
NEW FURNACE.....	3	1	2	3	3	3	2	3
YES, INELIGIBLE.....	1	9	-	-	-	-	-	-
NO.....	90	87	92	94	89	89	90	89

See footnotes at end of table.

TABLE 21B
 CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
 AND ELIGIBILITY FOR 1978 TAX CREDIT BY YEAR HOUSE BUILT--CONTINUED
 (PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	YEAR HOUSE BUILT						
		1975 OR LATER	1970 TO 1974	1965 TO 1969	1960 TO 1964	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ANY EQUIPMENT OR INSULATION ADDED BY ELIGIBLE HOUSING UNITS								
YES.....	50	19	49	37	59	58	55	52
NO.....	46	30	51	63	41	42	45	48
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	8	4	8	5	9	13	8	8
ELIGIBLE UNITS THAT ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION.....	7	3	5	4	10	8	5	8
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	3	1	2	3	1	3	4	3
ELIGIBLE UNITS THAT ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	32	11	34	26	38	35	38	35
ELIGIBLE UNITS THAT ADDED STORM WINDOWS, OR STORM DOORS, OR ATTIC OR ROOF INSULATION....	17	9	14	10	19	23	18	17

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 22A
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY YEAR HOUSE BUILT
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	YEAR HOUSE BUILT						
		1975 OR LATER	1970 TO 1974	1965 TO 1969	1960 TO 1964	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
TOTAL HOUSING UNITS 1/.....	67,457	4,869	7,498	6,493	6,530	12,480	7,389	22,198
INSULATION ADDED (INEXPENSIVE)								
YES.....	17,632	1,152	1,914	1,065	1,865	3,334	2,123	6,180
WEATHERSTRIPPING.....	4,907	464	648	207	499	944	573	1,572
AROUND HOT WATER PIPES.....	1,286	186	369	79	212	112	83	245
AROUND HOT WATER HEATER.....	458	87	66	21	56	126	30	72
CAULKING.....	11,078	614	998	632	1,225	2,272	1,389	3,948
PLASTIC COVERING.....	5,456	119	513	289	452	825	689	2,569
OTHER.....	855	184	78	107	75	149	84	178
NO.....	49,826	3,717	5,585	5,428	4,666	9,146	5,266	16,018
INSULATION ADDED (EXPENSIVE)								
YES.....	4,226	551	412	209	279	1,034	500	1,240
ROOF OR ATTIC.....	2,843	406	172	128	169	847	333	788
BASEMENT OR CRAWL SPACE.....	1,271	328	208	17	44	175	114	386
OUTSIDE WALLS.....	1,478	282	58	65	106	297	187	483
NO.....	63,232	4,318	7,086	6,284	6,251	11,446	6,889	20,957
EQUIPMENT ADDED (INEXPENSIVE)								
YES.....	5,274	685	592	378	526	823	696	1,574
CLOSEABLE SHUTTERS.....	300	37	86	33	-	29	41	74
STORM DOORS.....	2,680	489	303	143	186	413	364	782
AUTOMATIC OR CLOCK THERMOSTAT.....	888	271	15	81	59	145	156	161
NEW WATER HEATING EQUIPMENT.....	2,132	283	207	148	281	251	203	759
NO.....	62,184	4,183	6,907	6,115	6,004	11,657	6,693	20,623
EQUIPMENT ADDED (EXPENSIVE)								
YES.....	3,504	414	300	247	250	629	338	1,326
STORM WINDOWS/INSULATING GLASS.....	2,672	393	241	78	209	437	294	1,019
ELECTRIC HEAT PUMP.....	67	48	-	-	-	-	-	19
NEW FURNACE.....	1,048	163	59	169	41	208	83	325
NO.....	63,953	4,455	7,198	6,247	6,280	11,851	7,051	20,872

See footnotes at end of table.

TABLE 22A
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY YEAR HOUSE BUILT—CONTINUED
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	YEAR HOUSE BUILT						
		1975 OR LATER	1970 TO 1974	1965 TO 1969	1960 TO 1964	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ADDED ANY INSULATION OR EQUIPMENT								
YES.....	22,578	1,553	2,480	1,466	2,262	9,450	2,698	7,670
NO.....	44,879	3,316	5,018	5,029	4,268	5,030	4,591	14,528
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	3,212	317	352	91	279	948	363	871
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION....	2,490	180	240	118	250	543	202	956
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1,014	233	60	129	-	86	137	370
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	15,862	822	1,828	1,138	1,732	2,874	1,996	5,473
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	6,427	862	568	306	550	1,445	736	1,960

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
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SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
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TABLE 22B
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY YEAR HOUSE BUILT
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	YEAR HOUSE BUILT						
		1975 OR LATER	1970 TO 1974	1965 TO 1969	1960 TO 1964	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%	100%	100%
INSULATION ADDED (INEXPENSIVE)								
YES.....	26	24	26	16	24	27	29	28
WEATHERSTRIPPING.....	7	10	9	3	8	8	8	7
AROUND HOT WATER PIPES.....	2	4	5	1	3	1	1	1
AROUND HOT WATER HEATER.....	1	2	1	-	1	1	-	-
CAULKING.....	16	13	13	10	19	18	19	18
PLASTIC COVERING.....	8	2	7	4	7	7	9	12
OTHER.....	1	4	1	2	1	1	1	1
NO.....	74	76	74	84	71	73	71	72
INSULATION ADDED (EXPENSIVE)								
YES.....	6	11	5	3	4	8	7	6
ROOF OR ATTIC.....	4	8	2	2	3	7	5	4
BASEMENT OR CRAWL SPACE.....	2	7	3	-	1	1	2	2
OUTSIDE WALLS.....	2	6	1	1	2	2	5	2
NO.....	94	89	95	97	96	92	93	94
EQUIPMENT ADDED (INEXPENSIVE)								
YES.....	9	14	9	6	8	7	6	7
CLOSEABLE SHUTTERS.....	-	1	1	1	-	-	1	-
STORM DOORS.....	4	10	4	2	3	3	5	4
AUTOMATIC OR CLOCK THERMOSTAT.....	1	6	-	1	1	1	2	1
NEW WATER HEATING EQUIPMENT.....	3	6	3	2	4	2	3	3
NO.....	92	86	92	94	92	93	91	93
EQUIPMENT ADDED (EXPENSIVE)								
YES.....	5	8	4	4	4	5	5	6
STORM WINDOWS/INSULATING GLASS.....	4	8	3	1	3	4	4	5
ELECTRIC HEAT PUMP.....	-	1	-	-	-	-	-	-
NEW FURNACE.....	2	3	1	3	1	2	1	1
NO.....	95	92	96	96	96	95	95	94

See footnotes at end of table.

TABLE 22B
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY YEAR HOUSE BUILT-CONTINUED
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	YEAR HOUSE BUILT						
		1975 OR LATER	1970 TO 1974	1965 TO 1969	1960 TO 1964	1950 TO 1959	1940 TO 1949	1930 OR EARLIER
ADDED ANY INSULATION OR EQUIPMENT								
YES.....	33	32	33	23	35	36	37	35
NO.....	67	68	67	77	65	64	63	65
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	5	7	5	1	4	9	5	4
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION....	4	4	3	2	4	4	3	4
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	2	5	1	2	-	1	2	2
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	24	17	24	18	27	23	27	25
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	10	18	9	5	8	12	10	9

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

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 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 23A
 CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY YEAR HOUSE BUILT
 (THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	YEAR HOUSE BUILT						
		1975 OR LATER	1970 TO 1974	1965 TO 1969	1960 TO 1964	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
TOTAL HOUSING UNITS 1/.....	67,457	4,869	7,498	6,493	6,530	12,480	7,389	22,198
INSULATION ADDED (INEXPENSIVE)								
YES.....	19,579	833	2,076	1,192	2,347	3,708	2,307	7,115
WEATHERSTRIPPING.....	6,516	456	739	408	687	1,433	618	2,175
AROUND HOT WATER PIPES.....	1,502	101	202	92	210	240	172	484
AROUND HOT WATER HEATER.....	594	102	131	69	50	60	48	135
CAULKING.....	9,852	253	888	516	1,340	2,012	1,203	3,640
PLASTIC COVERING.....	8,683	313	854	509	839	1,349	1,079	3,740
OTHER.....	504	54	57	23	82	99	37	152
NO.....	47,878	4,035	5,422	5,301	4,183	8,772	5,082	15,083
INSULATION ADDED (EXPENSIVE)								
YES.....	4,545	335	400	290	533	1,115	477	1,395
ROOF OR ATTIC.....	3,021	155	248	171	417	752	283	995
BASEMENT OR CRAWL SPACE.....	959	198	165	105	79	143	88	181
OUTSIDE WALLS.....	1,729	91	146	54	168	372	205	694
NO.....	62,912	4,534	7,098	6,204	5,997	11,365	6,912	20,803
EQUIPMENT ADDED (INEXPENSIVE)								
YES.....	4,956	428	587	417	470	1,169	424	1,460
CLOSEABLE SHUTTERS.....	237	31	48	67	30	29	32	-
STORM DOORS.....	2,751	374	335	137	198	722	256	729
AUTOMATIC OR CLOCK THERMOSTAT.....	736	66	137	34	78	103	64	254
NEW WATER HEATING EQUIPMENT....	1,624	84	99	179	244	392	120	506
NO.....	62,502	4,441	6,911	6,077	6,060	11,311	6,965	20,738
EQUIPMENT ADDED (EXPENSIVE)								
YES.....	4,002	248	397	174	510	825	421	1,427
STORM WINDOWS/INSULATING GLASS.....	3,078	169	320	103	416	578	360	1,132
ELECTRIC HEAT PUMP.....	144	46	-	-	46	22	-	31
NEW FURNACE.....	1,161	174	77	71	143	262	61	373
NO.....	63,455	4,621	7,101	6,319	6,020	11,655	6,968	20,771

See footnotes at end of table.

TABLE 23A
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY YEAR HOUSE BUILT-CONTINUED
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	YEAR HOUSE BUILT						
		1975 OR LATER	1970 TO 1974	1965 TO 1969	1960 TO 1964	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ADDED ANY INSULATION OR EQUIPMENT								
YES.....	24,178	1,113	2,440	1,517	2,707	4,801	2,859	8,740
NO.....	43,280	3,756	5,058	4,976	3,823	7,679	4,530	13,458
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	3,663	230	294	257	458	934	383	1,106
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	3,120	143	291	142	435	644	327	1,138
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	883	105	107	32	75	181	94	289
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	16,513	635	1,749	1,086	1,739	3,042	2,055	6,207
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	7,236	531	661	379	786	1,622	775	2,481

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

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SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
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TABLE 23B
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY YEAR HOUSE BUILT
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	YEAR HOUSE BUILT						
		1975 OR LATER	1970 TO 1974	1965 TO 1969	1960 TO 1964	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%	100%	100%
INSULATION ADDED (INEXPENSIVE)								
YES.....	29	17	28	18	36	30	31	32
WEATHERSTRIPPING.....	10	9	10	6	11	11	8	10
AROUND HOT WATER PIPES.....	2	2	3	1	3	2	2	2
AROUND HOT WATER HEATER.....	1	2	2	1	1	-	1	1
CAULKING.....	15	5	12	8	21	16	16	16
PLASTIC COVERING.....	13	6	11	8	13	11	15	17
OTHER.....	1	1	1	-	1	1	-	1
NO.....	71	83	72	82	64	70	69	68
INSULATION ADDED (EXPENSIVE)								
YES.....	7	7	5	4	8	9	6	6
ROOF OR ATTIC.....	4	3	3	3	6	6	4	4
BASEMENT OR CRAWL SPACE.....	1	4	2	2	1	1	1	1
OUTSIDE WALLS.....	3	2	2	1	3	3	3	3
NO.....	93	93	95	96	92	91	94	94
EQUIPMENT ADDED (INEXPENSIVE)								
YES.....	7	9	8	6	7	9	4	7
CLOSEABLE SHUTTERS.....	-	1	1	1	-	-	-	-
STORM DOORS.....	4	8	4	2	3	6	3	3
AUTOMATIC OR CLOCK THERMOSTAT.....	1	1	2	1	1	1	1	1
NEW WATER HEATING EQUIPMENT.....	2	2	1	3	4	3	2	2
NO.....	93	91	92	94	93	91	94	93
EQUIPMENT ADDED (EXPENSIVE)								
YES.....	6	5	5	3	8	7	6	6
STORM WINDOWS/INSULATING GLASS.....	5	3	4	2	6	5	5	5
ELECTRIC HEAT PUMP.....	-	1	-	-	1	-	-	-
NEW FURNACE.....	2	4	1	1	2	2	1	2
NO.....	94	95	95	97	92	93	94	94

See footnotes at end of table.

TABLE 23B
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY YEAR HOUSE BUILT--CONTINUED
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	YEAR HOUSE BUILT						
		1975 OR LATER	1970 TO 1974	1965 TO 1969	1960 TO 1964	1950 TO 1959	1940 TO 1949	1939 OR EARLIER
ADDED ANY INSULATION OR EQUIPMENT								
YES.....	36	23	33	23	41	38	39	39
NO.....	64	77	67	77	59	62	61	61
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	5	5	4	4	7	7	5	5
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	5	3	4	2	7	5	4	5
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1	2	1	1	1	1	1	1
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	24	13	23	17	27	24	28	28
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	11	11	9	6	12	13	10	11

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

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TABLE 24A
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY TYPE OF AIR CONDITIONING
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	NUMBER OF ROOMS WITH AIR CONDITIONING			CENTRAL AIR CONDITIONING ONLY	INDIVIDUAL ROOM UNITS ONLY	CENTRAL A/C AND ROOM UNITS
		NONE	SOME	ALL			
TOTAL HOUSING UNITS 1/.....	67,457	29,936	17,775	19,747	15,012	22,274	235
TOTAL ELIGIBLE HOUSING UNITS.....	64,957	28,720	17,652	18,585	13,918	22,183	235
INSULATION ADDED (INEXPENSIVE)							
YES, ELIGIBLE.....	27,522	11,671	8,426	7,425	5,311	10,404	136
WEATHERSTRIPPING.....	10,195	3,866	3,321	3,007	2,336	3,937	56
AROUND HOT WATER PIPES.....	2,380	1,139	565	676	424	817	-
AROUND HOT WATER HEATER.....	797	346	284	167	144	307	-
CAULKING.....	17,048	6,933	5,406	4,709	3,449	5,566	100
PLASTIC COVERING.....	10,656	5,263	3,138	2,255	1,284	4,062	46
OTHER.....	1,176	434	405	337	329	413	-
YES, INELIGIBLE.....	874	336	44	495	510	29	-
NO.....	39,061	17,928	9,305	11,827	9,192	11,842	99
INSULATION ADDED (EXPENSIVE)							
YES, ELIGIBLE.....	7,373	3,315	1,925	2,133	1,750	2,259	48
ROOF OR ATTIC.....	4,934	2,247	1,160	1,527	1,253	1,386	48
BASEMENT OR CRAWL SPACE.....	1,771	864	453	453	344	562	-
OUTSIDE WALLS.....	2,711	1,320	735	656	569	822	-
YES, INELIGIBLE.....	575	247	15	313	328	-	-
NO.....	59,510	26,373	15,835	17,302	12,935	20,015	187
EQUIPMENT ADDED (INEXPENSIVE)							
YES, ELIGIBLE.....	8,677	3,230	2,562	2,885	2,316	3,095	36
CLOSEABLE SHUTTERS.....	460	141	70	249	210	109	-
STORM DOORS.....	4,584	1,873	1,280	1,431	1,108	1,567	36
AUTOMATIC OR CLOCK THERMOSTAT.....	1,268	453	326	489	479	336	-
NEW WATER HEATING EQUIPMENT.....	3,153	1,125	1,058	970	773	1,255	-
YES, INELIGIBLE.....	588	257	43	289	317	14	-
NO.....	58,193	26,449	15,170	16,574	12,379	19,165	199
EQUIPMENT ADDED (EXPENSIVE)							
YES, ELIGIBLE.....	6,484	2,530	2,017	1,937	1,749	2,166	40
STORM WINDOWS/INSULATING GLASS.....	4,974	2,019	1,537	1,418	1,188	1,728	40
ELECTRIC HEAT PUMP.....	86	-	19	67	67	19	-
NEW FURNACE.....	1,737	573	508	656	663	483	18
YES, INELIGIBLE.....	458	146	-	312	312	-	-
NO.....	60,515	27,259	15,758	17,498	12,952	20,108	196

See footnotes at end of table.

TABLE 24A
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY TYPE OF AIR CONDITIONING-CONTINUED
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	NUMBER OF ROOMS WITH AIR CONDITIONING			CENTRAL AIR CONDITIONING ONLY	INDIVIDUAL ROOM UNITS ONLY	CENTRAL A/C AND ROOM UNITS
		NONE	SOME	ALL			
ANY EQUIPMENT OR INSULATION ADDED BY ELIGIBLE HOUSING UNITS							
YES.....	33,779	13,949	10,336	9,494	7,136	12,525	170
NO.....	31,178	14,771	7,316	9,091	6,683	7,658	66
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	5,535	2,459	1,511	1,565	1,249	1,797	30
ELIGIBLE UNITS THAT ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION.....	4,647	1,674	1,603	1,370	1,248	1,703	22
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1,837	856	414	567	500	463	18
ELIGIBLE UNITS THAT ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	21,759	8,960	6,808	5,991	4,137	8,562	100
ELIGIBLE UNITS THAT ADDED STORM WINDOWS, OR STORM DOORS, OR ATTIC OR ROOF INSULATION....	11,369	4,754	3,258	3,358	2,690	3,838	88

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "--" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 24B
 CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
 AND ELIGIBILITY FOR 1978 TAX CREDIT BY TYPE OF AIR CONDITIONING
 (PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	NUMBER OF ROOMS WITH AIR CONDITIONING			CENTRAL AIR CONDITIONING	INDIVIDUAL ROOM UNITS ONLY
		NONE	SOME	ALL		
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%
TOTAL ELIGIBLE HOUSING UNITS.....	96	96	99	94	92	100
INSULATION ADDED (INEXPENSIVE)						
YES, ELIGIBLE.....	41	39	47	38	36	47
WEATHERSTRIPPING.....	15	13	19	15	16	18
AROUND HOT WATER PIPES.....	4	4	3	3	3	4
AROUND HOT WATER HEATER.....	1	1	2	1	1	1
CAULKING.....	25	23	30	24	23	29
PLASTIC COVERING.....	16	18	18	11	9	18
OTHER.....	2	1	2	2	2	2
YES, INELIGIBLE.....	1	1	-	3	3	-
NO.....	58	60	52	60	61	53
INSULATION ADDED (EXPENSIVE)						
YES, ELIGIBLE.....	11	11	11	11	12	10
ROOF OR ATTIC.....	7	8	7	8	9	6
BASEMENT OR CRAWL SPACE.....	3	3	3	2	2	3
OUTSIDE WALLS.....	4	4	4	3	4	4
YES, INELIGIBLE.....	1	1	-	2	2	-
NO.....	88	88	89	88	86	90
EQUIPMENT ADDED (INEXPENSIVE)						
YES, ELIGIBLE.....	13	11	14	15	15	14
CLOSEABLE SHUTTERS.....	1	-	-	1	1	-
STORM DOORS.....	7	6	7	7	8	7
AUTOMATIC OR CLOCK THERMOSTAT.....	2	2	2	2	3	2
NEW WATER HEATING EQUIPMENT.....	5	4	6	5	5	6
YES, INELIGIBLE.....	1	1	-	1	2	-
NO.....	86	88	85	84	82	86
EQUIPMENT ADDED (EXPENSIVE)						
YES, ELIGIBLE.....	10	8	11	10	12	10
STORM WINDOWS/INSULATING GLASS.....	7	7	9	7	8	8
ELECTRIC HEAT PUMP.....	-	-	-	-	-	-
NEW FURNACE.....	3	2	3	3	4	2
YES, INELIGIBLE.....	1	-	-	2	2	-
NO.....	90	91	89	89	86	90

See footnotes at end of table.

TABLE 24B
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY TYPE OF AIR CONDITIONING-CONTINUED
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	NUMBER OF ROOMS WITH AIR CONDITIONING			CENTRAL AIR CONDITIONING	INDIVIDUAL ROOM UNITS ONLY
		NONE	SOME	ALL		
ANY EQUIPMENT OR INSULATION ADDED BY ELIGIBLE HOUSING UNITS						
YES.....	50	47	58	48	48	56
NO.....	46	49	41	46	44	43
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	8	8	9	8	8	8
ELIGIBLE UNITS THAT ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION.....	7	6	9	7	8	8
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	3	3	2	3	3	2
ELIGIBLE UNITS THAT ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	32	30	38	30	28	38
ELIGIBLE UNITS THAT ADDED STORM WINDOWS, OR STORM DOORS, OR ATTIC OR ROOF INSULATION.....	17	16	18	17	18	17

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 25A
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY TYPE OF AIR CONDITIONING
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	NUMBER OF ROOMS WITH AIR CONDITIONING			CENTRAL AIR CONDITIONING ONLY	INDIVIDUAL ROOM UNITS ONLY	CENTRAL A/C AND ROOM UNITS
		NONE	SOME	ALL			
TOTAL HOUSING UNITS 1/.....	67,457	29,936	17,775	19,747	15,012	22,274	235
INSULATION ADDED (INEXPENSIVE)							
YES.....	17,632	7,465	5,200	4,967	3,779	6,317	70
WEATHERSTRIPPING.....	4,907	1,980	1,473	1,454	1,076	1,410	41
AROUND HOT WATER PIPES.....	1,286	508	330	448	327	451	-
AROUND HOT WATER HEATER.....	458	205	117	135	114	159	-
CAULKING.....	11,078	4,469	3,479	3,131	2,431	4,128	51
PLASTIC COVERING.....	5,456	2,707	1,628	1,121	656	2,078	14
OTHER.....	855	249	240	366	354	252	-
NO.....	49,826	22,471	12,575	14,780	11,233	15,957	165
INSULATION ADDED (EXPENSIVE)							
YES.....	4,226	1,888	829	1,508	1,303	1,020	15
ROOF OR ATTIC.....	2,843	1,235	549	1,059	968	625	15
BASEMENT OR CRAWL SPACE.....	1,271	693	231	348	300	278	-
OUTSIDE WALLS.....	1,479	769	160	549	464	244	-
NO.....	63,232	28,047	15,945	18,239	13,710	21,254	220
EQUIPMENT ADDED (INEXPENSIVE)							
YES.....	5,274	1,961	1,476	1,837	1,603	1,692	18
CLOSEABLE SHUTTERS.....	300	58	54	188	149	93	-
STORM DOORS.....	2,640	1,174	636	870	753	735	18
AUTOMATIC OR CLOCK THERMOSTAT.....	888	320	200	367	345	223	-
NEW WATER HEATING EQUIPMENT.....	2,132	719	658	755	699	714	-
NO.....	62,184	27,975	16,299	17,910	13,410	20,582	217
EQUIPMENT ADDED (EXPENSIVE)							
YES.....	3,594	1,420	869	1,215	1,097	966	22
STORM WINDOWS/INSULATING GLASS.....	2,672	1,077	671	924	791	783	22
ELECTRIC HEAT PUMP.....	67	-	19	48	48	19	-
NEW FURNACE.....	1,048	393	179	476	474	181	-
NO.....	63,953	28,516	16,905	18,532	13,916	21,308	214

See footnotes at end of table.

TABLE 25A
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY TYPE OF AIR CONDITIONING-CONTINUED
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	NUMBER OF ROOMS WITH AIR CONDITIONING			CENTRAL AIR CONDITIONING ONLY	INDIVIDUAL ROOM UNITS ONLY	CENTRAL A/C AND ROOM UNITS
		NONE	SOME	ALL			
ADDED ANY INSULATION OR EQUIPMENT							
YES.....	22,578	9,297	6,510	6,771	5,396	7,781	104
NO.....	44,879	20,638	11,265	12,976	9,616	14,493	132
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	5,212	1,475	692	1,045	888	833	15
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	2,490	1,006	732	752	682	780	22
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1,014	413	138	463	414	186	-
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	15,862	6,403	4,949	4,511	3,411	5,982	67
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION.....	6,427	2,726	1,551	2,149	1,855	1,791	55

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 25B
 CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY TYPE OF AIR CONDITIONING
 (PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	NUMBER OF ROOMS WITH AIR CONDITIONING			CENTRAL AIR CONDITIONING	INDIVIDUAL ROOM UNITS ONLY
		NONE	SOME	ALL		
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%
INSULATION ADDED (INEXPENSIVE)						
YES.....	26	25	29	25	25	28
WEATHERSTRIPPING.....	7	7	8	7	7	8
AROUND HOT WATER PIPES.....	2	2	2	2	2	2
AROUND HOT WATER HEATER.....	1	1	1	1	1	1
CAULKING.....	16	15	20	16	16	17
PLASTIC COVERING.....	8	9	9	6	4	9
OTHER.....	1	1	1	2	2	1
NO.....	74	75	71	75	75	72
INSULATION ADDED (EXPENSIVE)						
YES.....	6	5	5	8	9	5
ROOF OR ATTIC.....	4	4	3	5	5	3
BASEMENT OR CRAWL SPACE.....	2	2	1	2	2	1
OUTSIDE WALLS.....	2	3	1	3	3	1
NO.....	94	94	95	92	91	95
EQUIPMENT ADDED (INEXPENSIVE)						
YES.....	8	7	8	9	11	8
CLOSEABLE SHUTTERS.....	-	-	-	1	1	-
STORM DOORS.....	4	4	4	4	5	3
AUTOMATIC OR CLOCK THERMOSTAT.....	1	1	1	2	2	1
NEW WATER HEATING EQUIPMENT.....	1	2	4	4	5	3
NO.....	92	93	92	91	89	92
EQUIPMENT ADDED (EXPENSIVE)						
YES.....	5	5	5	6	7	4
STORM WINDOWS/INSULATING GLASS.....	4	4	4	5	5	4
ELECTRIC HEAT PUMP.....	-	-	-	-	-	-
NEW FURNACE.....	2	1	1	2	3	1
NO.....	95	95	95	94	93	96

See footnotes at end of table.

TABLE 25B
 CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY TYPE OF AIR CONDITIONING--CONTINUED
 (PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	NUMBER OF ROOMS WITH AIR CONDITIONING			CENTRAL AIR CONDITIONING	INDIVIDUAL ROOM UNITS ONLY
		NONE	SOME	ALL		
ADDED ANY INSULATION OR EQUIPMENT						
YES.....	33	31	37	34	36	35
NO.....	67	69	63	66	64	65
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	5	5	4	5	6	4
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION....	4	3	4	4	5	4
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	2	1	1	2	3	1
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	24	21	28	23	23	27
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	10	9	9	11	13	8

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 26A
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY TYPE OF AIR CONDITIONING
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	NUMBER OF ROOMS WITH AIR CONDITIONING			CENTRAL AIR CONDITIONING ONLY	INDIVIDUAL ROOM UNITS ONLY	CENTRAL A/C AND ROOM UNITS
		NONE	SOME	ALL			
TOTAL HOUSING UNITS 1/.....	67,457	29,936	17,775	19,747	15,012	22,274	235
INSULATION ADDED (INEXPENSIVE)							
YES.....	19,579	8,428	5,923	5,229	3,900	7,149	102
WEATHERSTRIPPING.....	6,516	2,400	2,109	2,007	1,716	2,385	15
AROUND HOT WATER PIPES.....	1,502	776	304	421	279	447	-
AROUND HOT WATER HEATER.....	594	233	182	179	193	168	-
CAULKING.....	9,852	4,008	3,134	2,710	2,062	3,711	71
PLASTIC COVERING.....	8,583	4,435	2,394	1,853	1,053	3,148	46
OTHER.....	504	235	181	88	95	175	-
NO.....	47,878	21,508	11,852	14,518	11,112	15,125	134
INSULATION ADDED (EXPENSIVE)							
YES.....	4,545	1,972	1,211	1,363	1,018	1,523	33
ROOF OR ATTIC.....	3,021	1,376	661	984	709	902	33
BASEMENT OR CRAWL SPACE.....	959	367	273	320	260	333	-
OUTSIDE WALLS.....	1,729	770	602	357	315	645	-
NO.....	62,712	27,964	16,564	18,384	13,995	20,751	202
EQUIPMENT ADDED (INEXPENSIVE)							
YES.....	4,956	1,934	1,509	1,512	1,194	1,810	19
CLOSEABLE SHUTTERS.....	237	133	16	89	89	16	-
STORM DOORS.....	2,751	1,027	842	882	691	1,014	18
AUTOMATIC OR CLOCK THERMOSTAT.....	736	235	171	330	344	158	-
NEW WATER HEATING EQUIPMENT.....	1,424	669	550	404	262	692	-
NO.....	62,502	28,001	16,266	18,235	13,819	20,464	217
EQUIPMENT ADDED (EXPENSIVE)							
YES.....	4,002	1,464	1,378	1,161	1,075	1,445	18
STORM WINDOWS/INSULATING GLASS.....	3,078	1,174	1,015	889	776	1,110	18
ELECTRIC HEAT PUMP.....	144	-	31	113	113	31	-
NEW FURNACE.....	1,161	382	424	355	364	396	18
NO.....	63,455	28,472	16,397	18,586	13,937	20,829	217

See footnotes at end of table.

TABLE 26A
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY TYPE OF AIR CONDITIONING--CONTINUED
(THOUSAND HOUSING UNITS)

	TOTAL HOUSING UNITS	NUMBER OF ROOMS WITH AIR CONDITIONING			CENTRAL AIR CONDITIONING ONLY	INDIVIDUAL ROOM UNITS ONLY	CENTRAL A/C AND ROOM UNITS
		NONE	SOME	ALL			
ADDED ANY INSULATION OR EQUIPMENT							
YES.....	24,178	10,094	7,499	6,585	5,064	8,919	102
NO.....	43,280	19,842	10,275	13,162	9,949	13,355	134
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	3,663	1,575	988	1,100	799	1,274	15
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION....	3,120	1,067	1,155	898	857	1,197	-
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	883	397	223	263	219	249	18
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	16,513	7,055	5,134	4,324	3,199	6,200	68
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	7,236	2,878	2,199	2,159	1,720	2,605	33

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "--" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 26B
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY TYPE OF AIR CONDITIONING
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	NUMBER OF ROOMS WITH AIR CONDITIONING			CENTRAL AIR CONDITIONING	INDIVIDUAL ROOM UNITS ONLY
		NONE	SOME	ALL		
TOTAL HOUSING UNITS 1/.....	100%	100%	100%	100%	100%	100%
INSULATION ADDED (INEXPENSIVE)						
YES.....	29	28	33	26	26	32
WEATHERSTRIPPING.....	10	8	12	10	11	11
AROUND HOT WATER PIPES.....	2	3	2	2	2	2
AROUND HOT WATER HEATER.....	1	1	1	1	1	1
CAULKING.....	15	13	18	14	14	17
PLASTIC COVERING.....	13	13	13	9	7	14
OTHER.....	1	1	1	-	1	1
NO.....	71	72	67	74	74	68
INSULATION ADDED (EXPENSIVE)						
YES.....	7	7	7	7	7	7
ROOF OR ATTIC.....	4	5	4	5	5	4
BASEMENT OR CRAWL SPACE.....	1	1	2	2	2	1
OUTSIDE WALLS.....	3	3	3	2	2	3
NO.....	93	93	93	93	93	93
EQUIPMENT ADDED (INEXPENSIVE)						
YES.....	7	5	8	8	8	8
CLOSEABLE SHUTTERS.....	-	-	-	-	1	-
STORM DOORS.....	4	3	5	4	5	5
AUTOMATIC OR CLOCK THERMOSTAT.....	1	1	1	2	2	1
NEW WATER HEATING EQUIPMENT.....	2	2	3	2	2	3
NO.....	93	94	92	92	92	92
EQUIPMENT ADDED (EXPENSIVE)						
YES.....	6	5	8	6	7	6
STORM WINDOWS/INSULATING GLASS.....	5	4	6	5	5	5
ELECTRIC HEAT PUMP.....	-	-	-	1	1	-
NEW FURNACE.....	2	1	2	2	3	2
NO.....	94	95	92	94	93	94

See footnotes at end of table.

TABLE 26B
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY TYPE OF AIR CONDITIONING--CONTINUED
(PERCENTAGE OF HOUSING UNITS)

	TOTAL HOUSING UNITS	NUMBER OF ROOMS WITH AIR CONDITIONING			CENTRAL AIR CONDITIONING	INDIVIDUAL ROOM UNITS ONLY
		NONE	SOME	ALL		
ADDED ANY INSULATION OR EQUIPMENT						
YES.....	36	34	42	33	34	40
NO.....	54	66	58	67	66	60
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	5	5	6	6	5	6
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	5	4	6	5	6	5
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1	1	1	1	2	1
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	24	24	29	22	21	28
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	11	10	12	11	11	12

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "--" REPRESENTS OR ROUNDS TO ZERO. SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM, OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 27A
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY 1977 FAMILY INCOME
(THOUSAND HOUSEHOLDS)

601

	TOTAL HOUSEHOLDS	1977 FAMILY INCOME						TOTAL POOR
		LESS THAN \$5,000	\$5,000 TO \$9,999	\$10,000 TO \$14,999	\$15,000 TO \$19,999	\$20,000 TO \$24,999	\$25,000 OR MORE	
TOTAL 1/.....	67,457	9,105	12,357	12,573	10,491	9,053	13,863	9,414
TOTAL ELIGIBLE HOUSING UNITS.....	64,957	8,923	11,926	12,274	10,098	8,744	12,993	8,174
INSULATION ADDED (INEXPENSIVE)								
YES, ELIGIBLE.....	27,522	2,771	4,583	5,371	4,918	4,270	5,607	2,759
WEATHERSTRIPPING.....	10,135	765	1,204	2,192	1,741	1,685	2,505	979
AROUND HOT WATER PIPES.....	2,380	150	409	554	452	354	451	196
AROUND HOT WATER HEATER.....	797	18	116	108	128	166	261	58
CAULKING.....	17,048	1,216	2,563	3,148	3,255	2,971	3,895	1,165
PLASTIC COVERING.....	10,656	1,624	2,458	2,317	1,615	1,191	1,450	1,784
OTHER.....	1,176	190	76	206	237	261	205	74
YES, INELIGIBLE.....	874	-	155	44	225	86	364	20
NO.....	39,361	6,335	7,619	7,158	5,347	4,707	7,894	5,635
INSULATION ADDED (EXPENSIVE)								
YES, ELIGIBLE.....	7,373	492	982	1,380	1,268	1,199	2,051	501
ROOF OR ATTIC.....	4,934	304	671	855	826	753	1,525	317
BASEMENT OR CRAWL SPACE.....	1,771	63	171	351	294	514	379	89
OUTSIDE WALLS.....	2,711	271	311	623	478	357	672	244
YES, INELIGIBLE.....	575	-	87	32	145	79	232	-
NO.....	59,510	8,613	11,288	11,162	9,078	7,784	11,584	7,913
EQUIPMENT ADDED (INEXPENSIVE)								
YES, ELIGIBLE.....	8,677	510	1,179	1,560	1,531	1,368	2,528	534
CLOSEABLE SHUTTERS.....	460	-	47	59	77	116	161	17
STORM DOORS.....	4,534	288	572	931	810	631	1,352	297
AUTOMATIC OR CLOCK THERMOSTAT.....	1,268	86	189	205	209	183	397	86
NEW WATER HEATING EQUIPMENT.....	3,153	172	408	484	617	641	831	183
YES, INELIGIBLE.....	588	41	17	15	181	42	292	41
NO.....	58,123	8,555	11,161	10,997	8,779	7,552	11,048	7,839
EQUIPMENT ADDED (EXPENSIVE)								
YES, ELIGIBLE.....	6,484	447	906	1,156	1,201	991	1,784	516
STORM WINDOWS/INSULATING GLASS.....	4,774	382	593	919	983	797	1,299	456
ELECTRIC HEAT PUMP.....	86	-	19	-	14	-	54	19
NEW FURNACE.....	1,737	65	308	309	251	230	575	42
YES, INELIGIBLE.....	458	-	-	-	131	67	260	-
NO.....	60,515	8,659	11,451	11,418	9,159	8,005	11,823	7,897

See footnotes at end of table.

TABLE 27A
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY 1977 FAMILY INCOME-CONTINUED
(THOUSAND HOUSEHOLDS)

	TOTAL HOUSEHOLDS	1977 FAMILY INCOME						TOTAL POOR
		LESS THAN \$5,000	\$5,000 TO \$9,999	\$10,000 TO \$14,999	\$15,000 TO \$19,999	\$20,000 TO \$24,999	\$25,000 OR MORE	
ANY EQUIPMENT OR INSULATION ADDED BY ELIGIBLE HOUSING UNITS								
YES.....	33,779	3,244	5,762	6,475	6,048	4,923	7,327	3,194
NO.....	31,178	5,678	6,164	5,799	4,050	3,821	5,565	4,980
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	5,535	350	967	1,048	950	885	1,435	348
ELIGIBLE UNITS THAT ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION.....	4,647	304	790	825	883	677	1,168	364
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1,937	143	116	331	318	314	616	153
ELIGIBLE UNITS THAT ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	21,759	2,447	5,990	4,271	3,897	3,045	4,108	2,329
ELIGIBLE UNITS THAT ADDED STORM WINDOWS, OR STORM DOORS, OR ATTIC OR ROOF INSULATION....	11,367	738	1,631	2,140	1,979	1,678	3,207	756

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 27B
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY 1977 FAMILY INCOME
(PERCENTAGE OF HOUSEHOLDS)

	TOTAL HOUSEHOLDS	1977 FAMILY INCOME						TOTAL POOR
		LESS THAN \$5,000	\$5,000 TO \$9,999	\$10,000 TO \$14,999	\$15,000 TO \$19,999	\$20,000 TO \$24,999	\$25,000 OR MORE	
TOTAL 1/.....	100%	100%	100%	100%	100%	100%	100%	100%
TOTAL ELIGIBLE HOUSING UNITS.....	96	98	97	98	96	96	94	97
INSULATION ADDED (INEXPENSIVE)								
YES, ELIGIBLE.....	41	30	37	43	47	47	40	33
WEATHERSTRIPPING.....	15	8	10	17	17	19	19	12
AROUND HOT WATER PIPES.....	4	2	3	4	4	4	3	2
AROUND HOT WATER HEATER.....	1	-	1	1	1	2	2	1
CAULKING.....	25	13	21	25	31	33	28	14
PLASTIC COVERING.....	16	18	20	18	15	13	10	21
OTHER.....	2	2	1	2	2	3	1	1
YES, INELIGIBLE.....	1	-	1	-	2	1	3	-
NO.....	58	70	62	57	51	52	57	67
INSULATION ADDED (EXPENSIVE)								
YES, ELIGIBLE.....	11	5	8	11	12	13	15	6
ROOF OR ATTIC.....	7	3	5	7	8	8	11	4
BASEMENT OR CRAWL SPACE.....	3	1	1	3	3	6	3	1
OUTSIDE WALLS.....	4	3	3	5	5	4	5	3
YES, INELIGIBLE.....	1	-	1	-	1	1	2	-
NO.....	88	95	91	89	87	86	84	94
EQUIPMENT ADDED (INEXPENSIVE)								
YES, ELIGIBLE.....	13	6	10	12	15	15	18	6
CLOSABLE SHUTTERS.....	1	-	-	-	1	1	1	-
STORM DOORS.....	7	3	5	7	8	7	10	4
AUTOMATIC OR CLOCK THERMOSTAT.....	2	1	2	2	2	2	3	1
NEW WATER HEATING EQUIPMENT.....	5	2	3	4	6	7	6	2
YES, INELIGIBLE.....	1	-	-	-	2	-	2	-
NO.....	86	94	90	87	84	84	80	93
EQUIPMENT ADDED (EXPENSIVE)								
YES, ELIGIBLE.....	10	5	7	9	11	11	13	6
STORM WINDOWS/INSULATING GLASS.....	7	4	5	7	9	9	9	5
ELECTRIC HEAT PUMP.....	-	-	-	-	-	-	-	-
NEW FURNACE.....	3	1	2	2	2	3	4	-
YES, INELIGIBLE.....	1	-	-	-	1	1	2	-
NO.....	10	95	93	91	87	88	85	94

See footnotes at end of table.

111

TABLE 27B
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY 1977 FAMILY INCOME-CONTINUED
(PERCENTAGE OF HOUSEHOLDS)

	TOTAL HOUSEHOLDS	1977 FAMILY INCOME						TOTAL POOR
		LESS THAN \$5,000	\$5,000 TO \$9,999	\$10,000 TO \$14,999	\$15,000 TO \$19,999	\$20,000 TO \$24,999	\$25,000 OR MORE	
ANY EQUIPMENT OR INSULATION ADDED BY ELIGIBLE HOUSING UNITS								
YES.....	50	36	47	51	58	54	53	38
NO.....	46	62	50	46	39	42	41	59
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	8	4	7	8	9	10	10	4
ELIGIBLE UNITS THAT ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION.....	7	3	6	7	8	7	8	4
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	3	2	1	3	3	3	4	2
ELIGIBLE UNITS THAT ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	52	27	32	34	37	34	30	29
ELIGIBLE UNITS THAT ADDED STORM WINDOWS, OR STORM DOORS, OR ATTIC OR ROOF INSULATION....	17	8	13	17	19	17	23	9

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 28A
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY 1977 FAMILY INCOME
(THOUSAND HOUSEHOLDS)

	TOTAL HOUSEHOLDS	1977 FAMILY INCOME						TOTAL POOR
		LESS THAN \$5,000	\$5,000 TO \$9,999	\$10,000 TO \$14,999	\$15,000 TO \$19,999	\$20,000 TO \$24,999	\$25,000 OR MORE	
TOTAL 1/.....	67,457	9,106	12,357	12,573	10,491	9,063	13,868	8,414
INSULATION ADDED (INEXPENSIVE)								
YES.....	17,632	1,610	2,795	3,302	3,381	2,901	3,744	1,703
WEATHERSTRIPPING.....	4,207	337	535	1,114	614	928	1,378	476
AROUND HOT WATER PIPES.....	1,285	152	119	301	225	174	337	137
AROUND HOT WATER HEATER.....	458	19	157	44	96	19	144	58
CAULKING.....	11,078	729	1,621	1,835	2,273	2,032	2,589	812
PLASTIC COVERING.....	5,454	887	1,253	1,161	914	507	734	923
OTHER.....	355	104	49	116	191	223	173	51
NO.....	49,826	7,496	9,563	9,271	7,110	6,262	10,124	6,710
INSULATION ADDED (EXPENSIVE)								
YES.....	4,226	305	418	784	677	752	1,290	330
ROOF OR ATTIC.....	2,843	158	284	544	466	481	910	191
BASEMENT OR CRAWL SPACE.....	1,271	49	91	270	203	335	324	75
OUTSIDE WALLS.....	1,478	176	128	256	224	237	457	164
NO.....	63,232	8,801	11,939	11,789	9,814	8,310	12,578	8,084
EQUIPMENT ADDED (INEXPENSIVE)								
YES.....	5,274	380	449	874	884	993	1,693	429
CLOSEABLE SHUTTERS.....	500	-	17	-	62	93	127	17
STORM DOORS.....	2,680	189	246	527	411	414	893	248
AUTOMATIC OR CLOCK THERMOSTAT.....	898	67	80	130	174	129	307	86
NEW WATER HEATING EQUIPMENT.....	2,132	124	129	277	405	540	656	101
NO.....	62,184	8,726	11,908	11,699	9,607	8,069	12,174	7,985
EQUIPMENT ADDED (EXPENSIVE)								
YES.....	3,504	259	393	657	477	671	1,047	334
STORM WINDOWS/INSULATING GLASS.....	2,672	208	202	570	404	554	735	273
ELECTRIC HEAT PUMP.....	67	-	19	-	48	-	-	19
NEW FURNACE.....	1,348	51	173	128	84	195	418	42
NO.....	63,953	8,847	11,964	11,916	10,014	8,392	12,820	8,080

See footnotes at end of table.

TABLE 28A
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY 1977 FAMILY INCOME--CONTINUED
(THOUSAND HOUSEHOLDS)

	TOTAL HOUSEHOLDS	1977 FAMILY INCOME						TOTAL POOR
		LESS THAN \$5,000	\$5,000 TO \$9,999	\$10,000 TO \$14,999	\$15,000 TO \$19,999	\$20,000 TO \$24,999	\$25,000 OR MORE	
ADDED ANY INSULATION OR EQUIPMENT								
YES.....	22,578	2,009	3,465	4,184	4,122	3,543	5,255	2,133
NO.....	44,879	7,097	8,892	8,389	6,369	5,519	8,613	6,281
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	3,212	194	376	623	489	545	965	209
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	2,190	148	371	496	289	463	723	213
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1,014	111	22	161	187	208	325	121
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	15,862	1,556	2,676	2,904	3,156	2,328	3,242	1,590
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	6,427	398	656	1,350	967	1,115	1,940	491

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "--" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 28B
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY 1977 FAMILY INCOME
(PERCENTAGE OF HOUSEHOLDS)

	TOTAL HOUSEHOLDS	1977 FAMILY INCOME						TOTAL POOR
		LESS THAN \$5,000	\$5,000 TO \$9,999	\$10,000 TO \$14,999	\$15,000 TO \$19,999	\$20,000 TO \$24,999	\$25,000 OR MORE	
TOTAL 1/.....	100%	100%	100%	100%	100%	100%	100%	100%
INSULATION ADDED (INEXPENSIVE)								
YES.....	26	18	23	26	32	31	27	20
WEATHERSTRIPPING.....	7	4	4	9	6	10	10	6
AROUND HOT WATER PIPES.....	2	1	1	2	2	2	2	2
AROUND HOT WATER HEATER.....	1	-	1	-	1	-	1	1
CAULKING.....	16	8	13	15	22	22	19	10
PLASTIC COVERING.....	8	10	10	9	9	6	5	11
OTHER.....	1	1	-	1	2	2	1	1
NO.....	74	82	77	74	68	69	73	80
INSULATION ADDED (EXPENSIVE)								
YES.....	6	3	3	6	6	8	7	4
ROOF OR ATTIC.....	4	2	2	4	4	5	7	2
BASEMENT OR CRAWL SPACE.....	2	1	1	2	2	4	2	1
OUTSIDE WALLS.....	2	2	1	2	2	3	3	2
NO.....	94	97	97	94	94	92	91	96
EQUIPMENT ADDED (INEXPENSIVE)								
YES.....	8	4	4	7	8	11	12	5
CLOSEABLE SHUTTERS.....	-	-	-	-	1	1	1	-
STORM DOORS.....	4	2	2	4	4	5	6	3
AUTOMATIC OR CLOCK THERMOSTAT.....	1	1	1	1	2	1	2	1
NEW WATER HEATING EQUIPMENT.....	3	1	1	2	4	5	5	1
NO.....	92	96	96	93	92	89	88	95
EQUIPMENT ADDED (EXPENSIVE)								
YES.....	5	3	3	5	5	7	8	4
STORM WINDOWS/INSULATING GLASS.....	4	2	2	5	4	5	5	3
ELECTRIC HEAT PUMP.....	-	-	-	-	-	-	-	-
NEW FURNACE.....	2	1	1	1	1	2	3	-
NO.....	95	97	97	95	95	93	92	96

See footnotes at end of table.

TABLE 28B
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY 1977 FAMILY INCOME-CONTINUED
(PERCENTAGE OF HOUSEHOLDS)

	TOTAL HOUSEHOLDS	1977 FAMILY INCOME						TOTAL POOR
		LESS THAN \$5,000	\$5,000 TO \$9,999	\$10,000 TO \$14,999	\$15,000 TO \$19,999	\$20,000 TO \$24,999	\$25,000 OR MORE	
ADDED ANY INSULATION OR EQUIPMENT								
YES.....	55	22	28	33	39	39	58	25
NO.....	47	78	72	67	61	61	52	75
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	5	2	3	5	5	6	7	2
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	4	2	3	4	3	5	5	3
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	2	1	-	1	2	2	2	1
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	24	17	22	23	30	26	23	19
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	10	4	5	11	9	12	14	6

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

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 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 29A
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY 1977 FAMILY INCOME
(THOUSAND HOUSEHOLDS)

	TOTAL HOUSEHOLDS	1977 FAMILY INCOME						TOTAL POOR
		LESS THAN \$5,000	\$5,000 TO \$9,999	\$10,000 TO \$14,999	\$15,000 TO \$19,999	\$20,000 TO \$24,999	\$25,000 OR MORE	
TOTAL 1/.....	67,457	9,106	12,357	12,573	10,491	9,063	13,868	8,414
INSULATION ADDED (INEXPENSIVE)								
YES.....	19,579	1,987	3,299	3,780	3,525	2,941	4,047	1,921
WEATHERSTRIPPING.....	6,515	449	811	1,131	1,458	946	1,721	545
AROUND HOT WATER PIPES.....	1,502	29	359	355	256	219	284	96
AROUND HOT WATER HEATER.....	574	-	14	91	78	147	265	-
CAULKING.....	9,852	722	1,526	1,838	1,688	1,599	2,478	635
PLASTIC COVERING.....	8,683	1,343	1,820	1,878	1,474	1,007	1,161	1,434
OTHER.....	504	86	27	104	75	114	98	23
NO.....	47,878	7,119	9,058	8,793	6,966	6,122	9,821	6,492
INSULATION ADDED (EXPENSIVE)								
YES.....	4,545	223	717	753	840	793	1,219	187
ROOF OR ATTIC.....	3,021	147	510	412	550	474	929	126
BASMENT OR CRAWL SPACE.....	759	15	137	97	216	241	254	15
OUTSIDE WALLS.....	1,727	95	198	427	387	233	389	79
NO.....	62,912	8,883	11,640	11,820	9,651	8,269	12,649	8,227
EQUIPMENT ADDED (INEXPENSIVE)								
YES.....	4,756	235	782	894	1,029	688	1,327	197
CLOSEABLE SHUTTERS.....	237	-	30	59	26	48	74	-
STORM DOORS.....	2,751	140	326	486	655	320	823	91
AUTOMATIC OR CLOCK THERMOSTAT.....	734	19	141	74	131	139	231	-
NEW WATER HEATING EQUIPMENT.....	1,624	87	300	305	313	230	388	105
NO.....	62,502	8,871	11,575	11,679	9,462	8,374	12,540	8,217
EQUIPMENT ADDED (EXPENSIVE)								
YES.....	4,002	188	593	588	924	490	1,219	182
STORM WINDOWS/INSULATING GLASS.....	3,078	174	422	376	717	413	976	182
ELECTRIC HEAT PUMP.....	144	-	-	-	27	-	116	-
NEW FURNACE.....	1,161	14	185	231	278	77	376	-
NO.....	63,455	8,918	11,764	11,985	9,567	8,573	12,648	8,231

See footnotes at end of table.

TABLE 29A
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY 1977 FAMILY INCOME--CONTINUED
(THOUSAND HOUSEHOLDS)

	TOTAL HOUSEHOLDS	1977 FAMILY INCOME						TOTAL POOR
		LESS THAN \$5,000	\$5,000 TO \$9,999	\$10,000 TO \$14,999	\$15,000 TO \$19,999	\$20,000 TO \$24,999	\$25,000 OR MORE	
ADDED ANY INSULATION OR EQUIPMENT								
YES.....	24,178	2,229	4,216	4,568	4,315	3,511	5,338	2,135
NO.....	43,230	6,876	8,141	8,005	6,176	5,552	8,527	6,278
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	3,653	191	608	618	690	665	890	155
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	3,120	157	484	453	774	362	391	151
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	883	32	109	136	150	128	329	32
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	16,613	1,850	3,015	3,362	2,700	2,556	3,227	1,798
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	7,236	381	1,165	1,042	1,511	979	2,158	321

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "--" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 29B
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY 1977 FAMILY INCOME
(PERCENTAGE OF HOUSEHOLDS)

	TOTAL HOUSEHOLDS	1977 FAMILY INCOME						TOTAL POOR
		LESS THAN \$5,000	\$5,000 TO \$9,999	\$10,000 TO \$14,999	\$15,000 TO \$19,999	\$20,000 TO \$24,999	\$25,000 OR MORE	
TOTAL 1/.....	100%	100%	100%	100%	100%	100%	100%	100%
INSULATION ADDED (INEXPENSIVE)								
YES.....	29	22	27	30	34	32	29	25
WEATHERSTRIPPING.....	10	5	7	9	14	10	12	6
AROUND HOT WATER PIPES.....	2	-	3	3	2	2	2	1
AROUND HOT WATER HEATER.....	1	-	-	1	1	2	2	-
CAULKING.....	15	8	12	15	16	18	18	9
PLASTIC COVERING.....	13	15	15	15	14	11	8	17
OTHER.....	1	1	-	1	1	1	1	-
NO.....	71	78	73	70	66	68	71	77
INSULATION ADDED (EXPENSIVE)								
YES.....	7	2	6	6	8	9	9	2
ROOF OR ATTIC.....	4	2	4	3	5	5	7	2
BASEMENT OR CRAWL SPACE.....	1	-	1	1	2	3	2	-
OUTSIDE WALLS.....	3	1	2	3	4	3	3	1
NO.....	93	98	94	94	92	91	91	98
EQUIPMENT ADDED (INEXPENSIVE)								
YES.....	7	3	6	7	10	9	10	2
CLOSEABLE SHUTTERS.....	-	-	-	-	-	1	1	-
STORM DOORS.....	4	2	3	4	6	4	6	1
AUTOMATIC OR CLOCK THERMOSTAT.....	1	-	1	1	1	2	2	-
NEW WATER HEATING EQUIPMENT.....	2	1	2	2	3	3	3	1
NO.....	93	97	94	93	90	92	90	98
EQUIPMENT ADDED (EXPENSIVE)								
YES.....	6	2	5	5	9	5	9	2
STORM WINDOWS/INSULATING GLASS.....	5	2	3	3	7	5	7	2
ELECTRIC HEAT PUMP.....	-	-	-	-	-	-	1	-
NEW FURNACE.....	2	-	2	2	3	1	3	-
NO.....	94	98	95	95	91	95	91	98

See footnotes at end of table.

TABLE 29B
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY 1977 FAMILY INCOME—CONTINUED
(PERCENTAGE OF HOUSEHOLDS)

	TOTAL HOUSEHOLDS	1977 FAMILY INCOME						TOTAL POOR
		LESS THAN \$5,000	\$5,000 TO \$9,999	\$10,000 TO \$14,999	\$15,000 TO \$19,999	\$20,000 TO \$24,999	\$25,000 OR MORE	
ADDED ANY INSULATION OR EQUIPMENT								
YES.....	36	24	34	36	41	39	39	25
NO.....	64	76	66	64	59	61	62	75
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	5	2	5	5	7	7	5	2
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION....	5	2	4	4	7	4	6	2
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1	-	1	1	1	1	2	-
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	24	20	24	27	26	26	23	21
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	11	4	9	8	14	11	16	4

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 30A
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY SELECTED DEMOGRAPHIC CHARACTERISTICS
(THOUSAND HOUSEHOLDS)

	TOTAL HOUSEHOLDS	AGE OF HEAD			RACE		EDUCATION OF HEAD (IN YEARS)			MARITAL STATUS OF HEAD		
		35 OR LESS	36 TO 59	60 AND OVER	WHITE, OTHER	BLACK	8 OR LESS	9 TO 12	13 AND OVER	MARRIED	NOT MARRIED	
											FEMALE HEAD	MALE HEAD
TOTAL 1/.....	47,457	20,212	27,552	18,994	61,060	6,398	11,510	31,755	24,193	47,696	13,965	5,797
TOTAL ELIGIBLE HOUSING UNITS.....	64,957	19,687	26,607	18,662	58,689	6,268	11,237	30,963	22,757	45,723	13,621	5,613
INSULATION ADDED (INEXPENSIVE)												
YES, ELIGIBLE.....	27,522	8,366	12,434	6,722	25,539	1,984	3,937	14,076	9,510	21,333	4,512	1,677
WEATHERSTRIPPING.....	10,195	3,604	4,595	1,995	9,609	596	982	5,227	3,986	8,106	1,474	615
AROUND HOT WATER PIPES.....	2,390	983	1,035	362	2,308	72	155	1,305	920	1,310	369	201
AROUND HOT WATER HEATER.....	737	267	426	104	737	60	72	327	398	661	85	51
CAULKING.....	17,048	4,306	8,229	4,513	16,261	787	2,094	8,793	6,161	14,947	2,212	789
PLASTIC COVERING.....	10,656	3,935	4,285	2,436	9,582	1,074	2,075	5,653	2,928	7,810	2,155	691
OTHER.....	1,176	398	469	310	1,134	42	113	626	438	840	270	65
YES, INELIGIBLE.....	874	445	326	103	830	44	34	287	553	785	73	16
NO.....	39,061	12,101	14,791	12,169	34,691	4,370	7,539	17,392	14,130	25,578	9,379	4,104
INSULATION ADDED (EXPENSIVE)												
YES, ELIGIBLE.....	7,373	2,220	3,522	1,631	7,206	167	899	3,806	2,668	6,113	860	400
ROOF OR ATTIC.....	4,934	1,410	2,349	1,175	4,908	126	607	2,385	1,943	4,067	646	221
BASEMENT OR CRAWL SPACE.....	1,771	698	828	244	1,760	11	163	963	645	1,519	157	95
OUTSIDE WALLS.....	2,711	777	1,309	625	2,630	31	327	1,553	832	2,314	286	111
YES, INELIGIBLE.....	575	249	266	59	575	-	67	232	276	544	15	16
NO.....	59,510	18,442	23,764	17,304	53,279	6,231	10,544	27,717	21,249	41,039	13,090	5,381
EQUIPMENT ADDED (INEXPENSIVE)												
YES, ELIGIBLE.....	3,677	2,533	4,447	1,697	7,344	733	1,077	4,061	3,539	7,071	1,207	398
CLOSEABLE SHUTTERS.....	450	218	190	52	413	47	-	206	254	428	17	15
STORM DOORS.....	4,584	1,416	2,334	833	4,269	314	489	2,432	1,653	3,775	644	165
AUTOMATIC OR CLOCK THERMOSTAT.....	1,248	405	604	259	1,140	128	127	555	587	994	212	62
NEW WATER HEATING EQUIPMENT.....	3,153	752	1,669	732	2,969	283	461	1,205	1,487	2,507	450	196
YES, INELIGIBLE.....	589	253	268	66	544	44	74	205	309	528	44	16
NO.....	58,193	18,125	22,837	17,231	52,572	5,621	10,359	27,489	20,345	40,096	12,714	5,383
EQUIPMENT ADDED (EXPENSIVE)												
YES, ELIGIBLE.....	4,434	1,813	3,170	1,502	6,068	416	685	3,473	2,327	5,186	1,024	275
STORM WINDOWS/INSULATING GLASS.....	4,374	1,451	2,467	1,056	4,705	269	502	2,636	1,836	4,009	753	212
ELECTRIC HEAT PUMP.....	96	33	32	22	67	19	-	65	22	86	-	-
NEW FURNACE.....	1,757	439	825	473	1,609	128	197	1,031	510	1,382	292	63
YES, INELIGIBLE.....	454	196	237	25	414	44	17	141	300	398	44	16
NO.....	60,515	18,403	24,145	17,467	54,577	5,758	10,808	28,141	21,566	42,112	12,897	5,506

See footnotes at end of table.

TABLE 30A
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY SELECTED DEMOGRAPHIC CHARACTERISTICS-CONTINUED
(THOUSAND HOUSEHOLDS)

	TOTAL HOUSEHOLDS	AGE OF HEAD			RACE		EDUCATION OF HEAD (IN YEARS)			MARITAL STATUS OF HEAD		
		35 OR LESS	36 TO 59	60 AND OVER	WHITE, OTHER	BLACK	8 OR LESS	9 TO 12	13 AND OVER	MARRIED	NOT MARRIED	
											FEMALE HEAD	MALE HEAD
ANY EQUIPMENT OR INSULATION ADDED BY ELIGIBLE HOUSING UNITS												
YES.....	33,779	9,897	15,613	8,267	31,225	2,554	5,042	16,935	11,802	25,960	5,671	2,148
NO.....	31,178	9,790	10,995	10,393	27,464	3,714	6,194	14,028	10,955	19,762	7,951	3,465
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	5,535	1,800	2,437	1,298	5,424	112	775	2,773	1,988	4,468	667	400
ELIGIBLE UNITS THAT ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION.....	4,647	1,393	2,094	1,170	4,286	361	560	2,439	1,648	3,541	831	275
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1,837	420	1,086	332	1,782	55	125	1,033	679	1,644	193	-
ELIGIBLE UNITS THAT ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	21,759	6,285	10,006	5,468	19,733	2,026	3,583	10,690	7,486	16,306	3,979	1,473
ELIGIBLE UNITS THAT ADDED STORM WINDOWS, OR STORM DOORS, OR ATTIC OR ROOF INSULATION.....	11,362	3,373	5,553	2,442	10,751	618	1,321	5,723	4,325	9,144	1,666	559

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 30B
 CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
 AND ELIGIBILITY FOR 1978 TAX CREDIT BY SELECTED DEMOGRAPHIC CHARACTERISTICS
 (PERCENTAGE OF HOUSEHOLDS)

	TOTAL HOUSEHOLDS	AGE OF HEAD			RACE		EDUCATION OF HEAD (IN YEARS)			MARITAL STATUS OF HEAD		
		35 OR LESS	36 TO 59	60 AND OVER	WHITE, OTHER	BLACK	8 OR LESS	9 TO 12	13 AND OVER	MARRIED	NOT MARRIED	
											FEMALE HEAD	MALE HEAD
TOTAL 1/.....	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
TOTAL ELIGIBLE HOUSING UNITS.....	96	94	97	98	96	93	98	98	94	96	98	97
INSULATION ADDED (INEXPENSIVE)												
YES, ELIGIBLE.....	41	40	45	35	42	31	34	44	39	45	32	29
WEATHERSTRIPPING.....	15	17	17	11	16	9	9	15	16	17	11	11
AROUND HOT WATER PIPES.....	4	5	4	2	4	1	1	4	4	4	3	3
AROUND HOT WATER HEATER.....	1	1	2	1	1	1	1	1	2	1	1	1
CAULKING.....	25	21	30	24	27	12	18	28	25	29	16	14
PLASTIC COVERING.....	16	19	16	13	16	17	18	18	12	16	15	12
OTHER.....	2	2	2	2	2	1	1	2	2	2	2	1
YES, INELIGIBLE.....	1	2	1	1	1	1	-	1	2	2	1	-
NO.....	55	58	54	64	57	68	65	55	58	54	67	71
INSULATION ADDED (EXPENSIVE)												
YES, ELIGIBLE.....	11	11	13	9	12	3	8	12	11	13	6	7
ROOF OR ATTIC.....	7	7	9	6	8	2	5	8	8	9	5	4
BASEMENT OR CRAWL SPACE.....	3	3	3	1	3	-	1	3	3	3	1	2
OUTSIDE WALLS.....	1	4	5	3	4	1	3	5	3	5	2	2
YES, INELIGIBLE.....	1	1	1	-	1	-	1	1	1	1	-	-
NO.....	88	88	86	91	87	97	92	87	88	86	94	93
EQUIPMENT ADDED (INEXPENSIVE)												
YES, ELIGIBLE.....	13	12	16	9	13	11	9	13	15	15	9	7
CLOSEABLE SHUTTERS.....	1	1	1	-	1	1	-	1	1	1	-	-
STORM DOORS.....	7	7	8	4	7	5	4	8	7	8	5	3
AUTOMATIC OR CLOCK THERMOSTAT.....	2	2	2	1	2	2	1	2	2	2	2	1
NEW WATER HEATING EQUIPMENT.....	5	4	6	4	5	4	4	4	5	5	3	3
YES, INELIGIBLE.....	1	1	1	-	1	1	1	1	1	1	-	-
NO.....	86	87	83	91	86	88	90	87	84	84	71	93
EQUIPMENT ADDED (EXPENSIVE)												
YES, ELIGIBLE.....	10	9	12	8	10	7	6	11	10	11	7	5
STORM WINDOWS/INSULATING GLASS.....	7	7	9	5	9	4	4	8	8	8	5	4
ELECTRIC HEAT PUMP.....	-	-	-	-	-	-	-	-	-	-	-	-
NEW FURNACE.....	3	2	3	2	3	2	2	3	2	3	2	1
YES, INELIGIBLE.....	1	1	1	-	1	1	-	-	1	1	-	-
NO.....	89	90	88	92	89	93	94	89	89	88	92	95

See footnotes at end of table.

TABLE 30B
CONSERVATION EFFORTS UNDERTAKEN BETWEEN APRIL 1977 AND DECEMBER 1978
AND ELIGIBILITY FOR 1978 TAX CREDIT BY SELECTED DEMOGRAPHIC CHARACTERISTICS-CONTINUED
(PERCENTAGE OF HOUSEHOLDS)

	TOTAL HOUSEHOLDS	AGE OF HEAD			RACE		EDUCATION OF HEAD (IN YEARS)			MARITAL STATUS OF HEAD		
		35 OR LESS	36 TO 59	60 AND OVER	WHITE, OTHER	BLACK	8 OR LESS	9 TO 12	13 AND OVER	MARRIED	NOT MARRIED	
											FEMALE HEAD	MALE HEAD
ANY EQUIPMENT OR INSULATION ADDED BY ELIGIBLE HOUSING UNITS												
YES.....	50	47	57	44	51	40	44	53	49	54	41	37
NO.....	46	47	40	56	45	58	54	44	45	41	57	60
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	9	9	9	7	9	2	7	9	8	9	5	7
ELIGIBLE UNITS THAT ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION.....	7	7	8	6	7	6	5	8	7	7	6	5
ELIGIBLE UNITS THAT ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	3	2	4	2	3	1	1	3	3	3	1	-
ELIGIBLE UNITS THAT ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	32	30	36	29	32	32	31	34	31	34	28	25
ELIGIBLE UNITS THAT ADDED STORM WINDOWS, OR STORM DOORS, OR ATTIC OR ROOF INSULATION....	17	16	20	13	18	10	11	18	18	19	12	10

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

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SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 31A
 CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY SELECTED DEMOGRAPHIC CHARACTERISTICS
 (THOUSAND HOUSEHOLDS)

	TOTAL HOUSEHOLDS	AGE OF HEAD			RACE		EDUCATION OF HEAD (IN YEARS)			MARITAL STATUS OF HEAD		
		35 OR LESS	36 TO 59	60 AND OVER	WHITE OTHER	BLACK	8 OR LESS	9 TO 12	13 AND OVER	MARRIED	NOT MARRIED	
											FEMALE HEAD	MALE HEAD
TOTAL 1/.....	67,457	20,912	27,552	19,994	61,060	6,398	11,510	31,755	24,193	47,696	13,065	5,797
INSULATION ADDED (INEXPENSIVE)												
YES.....	17,632	5,868	7,900	3,864	16,435	1,196	2,317	8,727	6,588	13,835	2,664	1,132
WEATHERSTRIPPING.....	4,997	2,839	2,182	587	4,616	290	356	2,408	2,133	3,931	723	248
AROUND HOT WATER PIPES.....	1,236	687	464	135	1,286	-	51	678	558	923	224	131
AROUND HOT WATER HEATER.....	458	210	172	77	441	17	68	209	181	387	37	33
CAULKING.....	11,970	3,092	5,261	2,735	10,647	431	1,264	5,470	4,345	9,197	1,394	487
PLASTIC COVERING.....	5,456	2,011	2,155	1,290	4,873	583	1,130	2,846	1,480	3,946	1,035	475
OTHER.....	355	375	352	128	828	27	36	489	330	689	135	31
NO.....	49,826	15,044	19,652	15,130	44,625	5,201	9,193	23,028	17,605	33,860	11,301	4,665
INSULATION ADDED (EXPENSIVE)												
YES.....	4,226	1,848	1,940	738	4,119	107	443	2,095	1,688	3,521	485	221
ROOF OR ATTIC.....	2,843	950	1,399	494	2,736	107	303	1,333	1,208	2,390	331	123
BASEMENT OR CRAWL SPACE.....	1,271	528	549	194	1,271	-	110	705	456	1,080	109	82
OUTSIDE WALLS.....	1,479	520	698	260	1,426	52	175	847	456	1,255	175	48
NO.....	63,232	19,064	25,611	18,256	56,941	6,291	11,067	29,660	22,505	44,175	13,480	5,576
EQUIPMENT ADDED (INEXPENSIVE)												
YES.....	5,274	1,794	2,669	811	4,872	402	662	2,291	2,321	4,353	693	228
CLOSEABLE SHUTTERS.....	300	145	133	22	283	17	-	85	216	283	17	-
STORM DOORS.....	2,680	993	1,373	314	2,550	130	297	1,329	1,055	2,287	281	112
AUTOMATIC OR CLOCK THERMOSTAT.....	889	383	383	122	838	51	50	367	471	646	193	49
NEW WATER HEATING EQUIPMENT.....	2,132	544	1,124	464	1,928	204	314	797	1,020	1,712	295	125
NO.....	62,184	19,118	24,883	18,183	56,189	5,996	10,848	29,464	21,872	43,343	13,272	5,569
EQUIPMENT ADDED (EXPENSIVE)												
YES.....	3,504	1,300	1,773	431	3,254	250	337	1,826	1,341	2,699	612	193
STORM WINDOWS/INSULATING GLASS.....	2,677	1,053	1,386	223	2,498	174	258	1,301	1,113	2,081	423	163
ELECTRIC HEAT PUMP.....	67	55	12	-	48	19	-	55	12	67	-	-
NEW FURNACE.....	1,049	293	547	209	990	58	96	627	325	796	205	46
NO.....	63,953	19,612	25,779	18,562	57,806	6,147	11,173	29,929	22,852	44,997	13,353	5,604

See footnotes at end of table.

TABLE 31A
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY SELECTED DEMOGRAPHIC CHARACTERISTICS—CONTINUED
(THOUSAND HOUSEHOLDS)

	TOTAL HOUSEHOLDS	AGE OF HEAD			RACE		EDUCATION OF HEAD (IN YEARS)			MARITAL STATUS OF HEAD		
		35 OR LESS	36 TO 59	60 AND OVER	WHITE, OTHER	BLACK	8 OR LESS	9 TO 12	13 AND OVER	MARRIED	NOT MARRIED	
											FEMALE HEAD	MALE HEAD
ADDED ANY INSULATION OR EQUIPMENT												
YES.....	22,578	7,475	10,333	4,770	20,954	1,624	3,040	11,073	8,465	17,566	3,525	1,488
NO.....	44,879	13,437	17,219	14,223	40,105	4,774	9,470	20,682	15,728	30,130	10,440	4,309
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	3,212	1,230	1,349	633	3,131	81	377	1,496	1,339	2,663	344	205
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION....	2,490	982	1,192	327	2,266	225	270	1,227	993	1,841	472	177
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1,014	318	591	105	988	26	66	599	348	859	140	16
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	15,362	4,945	7,211	3,706	14,569	1,273	2,327	7,751	5,735	12,204	2,569	1,090
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	5,427	2,400	3,121	446	6,368	359	701	3,031	2,694	5,227	834	355

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "--" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 318
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY SELECTED DEMOGRAPHIC CHARACTERISTICS
(PERCENTAGE OF HOUSEHOLDS)

	TOTAL HOUSEHOLDS	AGE OF HEAD			RACE		EDUCATION OF HEAD (IN YEARS)			MARITAL STATUS OF HEAD		
		35 OR LESS	36 TO 59	60 AND OVER	WHITE OTHER	BLACK	8 OR LESS	9 TO 12	13 AND OVER	MARRIED	NOT MARRIED	
											FEMALE HEAD	MALE HEAD
TOTAL 1/.....	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
INSULATION ADDED (INEXPENSIVE)												
YES.....	26	28	29	20	27	19	20	27	27	29	19	20
WEATHERSTRIPPING.....	7	10	8	4	3	5	3	8	9	8	5	4
AROUND HOT WATER PIPES.....	2	3	2	1	2	-	-	2	2	2	2	2
AROUND HOT WATER HEATER.....	1	1	1	-	1	-	1	1	1	1	-	1
CAULKING.....	15	15	19	13	17	7	11	17	18	19	10	8
PLASTIC COVERING.....	8	10	8	7	8	9	10	9	6	8	7	8
OTHER.....	1	2	1	1	1	-	-	2	1	1	1	1
NO.....	74	72	71	80	73	81	80	73	73	71	81	80
INSULATION ADDED (EXPENSIVE)												
YES.....	6	7	7	4	7	2	4	7	7	7	3	4
ROOF OR ATTIC.....	4	5	5	3	4	2	3	4	5	5	2	2
BASEMENT OR CRAWL SPACE.....	2	3	2	1	2	-	1	2	2	2	1	1
OUTSIDE WALLS.....	2	2	3	1	2	1	2	3	2	3	1	1
NO.....	94	93	93	96	93	98	96	93	93	93	97	96
EQUIPMENT ADDED (INEXPENSIVE)												
YES.....	3	9	10	4	8	6	6	7	10	9	5	4
CLOSEABLE SHUTTERS.....	-	1	-	-	-	-	-	-	1	1	-	-
STORM DOORS.....	4	5	5	2	4	2	3	4	4	5	2	2
AUTOMATIC OR CLOCK THERMOSTAT.....	1	2	1	1	1	1	-	1	2	1	1	1
NEW WATER HEATING EQUIPMENT.....	3	3	4	2	3	3	3	3	4	4	2	2
NO.....	92	91	90	96	92	94	94	93	90	91	95	96
EQUIPMENT ADDED (EXPENSIVE)												
YES.....	5	6	6	2	5	4	3	6	6	6	4	3
STORM WINDOWS/INSULATING GLASS.....	4	5	5	1	4	3	2	4	5	4	3	3
ELECTRIC HEAT PUMP.....	-	-	-	-	-	-	-	-	-	-	-	-
NEW FURNACE.....	2	1	2	1	2	1	1	2	1	2	1	1
NO.....	95	94	94	98	95	96	97	94	94	94	96	97

See footnotes at end of table.

TABLE 31B
CONSERVATION EFFORTS UNDERTAKEN DURING 1978 BY SELECTED DEMOGRAPHIC CHARACTERISTICS-CONTINUED
(PERCENTAGE OF HOUSEHOLDS)

	TOTAL HOUSEHOLDS	AGE OF HEAD			RACE		EDUCATION OF HEAD (IN YEARS)			MARITAL STATUS OF HEAD		
		35 OR LESS	36 TO 59	60 AND OVER	WHITE, OTHER	BLACK	8 OR LESS	9 TO 12	13 AND OVER	MARRIED	NOT MARRIED	
											FEMALE HEAD	MALE HEAD
ADDED ANY INSULATION OR EQUIPMENT YES.....	33	35	38	25	34	25	26	35	35	37	25	26
NO.....	67	64	62	75	66	75	74	65	65	63	75	74
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	5	6	5	3	5	1	3	5	6	6	2	4
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION....	4	5	4	2	4	4	2	4	4	4	3	3
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	2	2	2	1	2	-	1	2	1	2	1	-
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	24	24	25	20	24	20	20	24	24	26	18	19
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	10	11	12	4	10	6	6	10	11	11	6	6

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 32A
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY SELECTED DEMOGRAPHIC CHARACTERISTICS
(THOUSAND HOUSEHOLDS)

	TOTAL HOUSEHOLDS	AGE OF HEAD			RACE		EDUCATION OF HEAD (IN YEARS)			MARITAL STATUS OF HEAD		
		35 OR LESS	36 TO 59	60 AND OVER	WHITE, OTHER	BLACK	8 OR LESS	9 TO 12	13 AND OVER	MARRIED	NOT MARRIED	
											FEMALE HEAD	MALE HEAD
TOTAL 1/	67,457	20,912	27,552	18,994	61,060	6,398	11,510	31,755	24,193	47,696	13,965	5,797
INSULATION ADDED (INEXPENSIVE)												
YES.....	19,579	5,492	9,080	5,017	18,188	1,392	2,987	9,946	6,646	15,113	3,249	1,218
WEATHERSTRIPPING.....	6,516	2,122	2,881	1,514	6,206	310	676	3,326	2,514	5,256	842	419
AROUND HOT WATER PIPES.....	1,502	460	728	313	1,397	105	197	724	581	1,183	212	107
AROUND HOT WATER HEATER.....	594	201	308	86	552	43	38	184	372	511	66	13
CAULKING.....	2,852	2,325	4,915	2,612	9,364	487	1,239	5,196	3,416	8,184	1,201	467
PLASTIC COVERING.....	8,683	3,071	3,634	1,977	7,920	853	1,784	4,410	2,489	6,468	1,695	520
OTHER.....	594	128	138	238	489	15	77	214	214	318	151	35
NO.....	47,878	15,420	18,471	13,977	42,872	5,006	8,523	21,809	17,547	32,583	10,716	4,579
INSULATION ADDED (EXPENSIVE)												
YES.....	4,545	1,297	2,133	1,116	4,468	77	664	2,227	1,655	3,877	457	211
ROOF OR ATTIC.....	3,021	852	1,327	842	2,984	36	448	1,375	1,197	2,543	347	130
BASEMENT OR CRAWL SPACE.....	959	354	498	107	348	11	109	452	393	884	47	29
OUTSIDE WALLS.....	1,729	480	813	436	1,700	29	198	958	573	1,492	157	80
NO.....	62,912	19,614	25,419	17,878	56,592	6,320	10,846	29,528	22,538	43,819	13,507	5,586
EQUIPMENT ADDED (INEXPENSIVE)												
YES.....	4,956	1,310	2,581	1,064	4,507	448	574	2,383	1,999	4,064	673	219
CLOSEABLE SHUTTERS.....	237	74	133	30	208	29	-	143	89	222	-	15
STORM DOORS.....	2,751	708	1,446	596	2,522	228	262	1,440	1,048	2,237	446	68
AUTOMATIC OR CLOCK THERMOSTAT.....	736	212	372	152	659	78	92	336	309	673	13	44
NEW WATER HEATING EQUIPMENT.....	1,624	391	878	355	1,431	143	220	659	745	1,311	208	104
NO.....	62,502	19,601	24,970	17,930	56,553	5,949	10,936	29,372	22,194	43,632	13,292	5,578
EQUIPMENT ADDED (EXPENSIVE)												
YES.....	4,002	935	1,901	1,166	3,774	229	421	2,162	1,419	3,382	477	144
STORM WINDOWS/INSULATING GLASS.....	3,078	705	1,464	910	2,939	139	285	1,682	1,111	2,594	389	96
ELECTRIC HEAT PUMP.....	144	58	64	22	144	-	-	59	84	128	-	16
NEW FURNACE.....	1,161	297	537	327	1,071	89	137	660	364	1,041	87	32
NO.....	63,455	19,977	25,650	17,828	57,286	6,169	11,088	29,593	22,774	44,314	13,488	5,653

See footnotes at end of table.

TABLE 32A
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY SELECTED DEMOGRAPHIC CHARACTERISTICS-CONTINUED
(THOUSAND HOUSEHOLDS)

	TOTAL HOUSEHOLDS	AGE OF HEAD			RACE		EDUCATION OF HEAD (IN YEARS)			MARITAL STATUS OF HEAD		
		35 OR LESS	36 TO 59	50 AND OVER	WHITE, OTHER	BLACK	8 OR LESS	9 TO 12	13 AND OVER	MARRIED	NOT MARRIED	
											FEMALE HEAD	MALE HEAD
ADDED ANY INSULATION OR EQUIPMENT												
YES.....	24,178	6,457	11,330	6,391	22,409	1,769	3,702	12,178	8,298	18,696	3,973	1,519
NO.....	43,280	14,455	16,222	12,603	38,651	4,629	7,808	19,577	15,875	29,010	9,972	4,278
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT.....	3,663	1,063	1,722	879	3,615	48	620	1,730	1,313	3,026	426	211
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION....	3,120	700	1,491	929	2,920	199	377	1,665	1,078	2,931	445	144
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	883	235	411	237	853	29	44	497	342	851	32	-
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	16,513	4,459	7,707	4,347	15,020	1,472	2,661	8,285	5,566	12,278	3,071	1,154
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION.....	7,236	1,896	3,420	1,921	6,873	363	887	3,639	2,710	5,928	1,032	277

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

TABLE 32B
CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY SELECTED DEMOGRAPHIC CHARACTERISTICS
(PERCENTAGE OF HOUSEHOLDS)

	TOTAL HOUSEHOLDS	AGE OF HEAD			RACE		EDUCATION OF HEAD (IN YEARS)			MARITAL STATUS OF HEAD		
		35 OR LESS	36 TO 59	60 AND OVER	WHITE, OTHER	BLACK	8 OR LESS	9 TO 12	13 AND OVER	MARRIED	NOT MARRIED	
											FEMALE HEAD	MALE HEAD
TOTAL 1/.....	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
INSULATION ADDED (INEXPENSIVE)												
YES.....	29	26	33	26	30	22	26	31	27	32	23	21
WEATHERSTRIPPING.....	10	10	10	8	10	5	6	10	10	11	6	7
AROUND HOT WATER PIPES.....	2	2	3	2	2	2	2	2	2	2	2	2
AROUND HOT WATER HEATER.....	1	1	1	-	1	1	-	1	2	1	-	-
CAULKING.....	15	11	18	14	15	8	11	16	14	17	9	8
PLASTIC COVERING.....	13	15	13	10	13	13	15	14	10	14	12	9
OTHER.....	1	1	1	1	1	-	1	1	1	1	1	1
NO.....	71	74	67	74	70	78	74	69	73	68	77	79
INSULATION ADDED (EXPENSIVE)												
YES.....	7	6	8	6	7	1	6	7	7	8	3	4
ROOF OR ATTIC.....	4	4	5	4	5	1	4	4	5	5	2	2
BASEMENT OR CRAWL SPACE.....	1	2	2	1	2	-	1	1	2	2	-	-
OUTSIDE WALLS.....	3	2	3	2	3	-	2	3	2	3	1	1
NO.....	93	94	92	94	93	99	94	93	93	92	97	96
EQUIPMENT ADDED (INEXPENSIVE)												
YES.....	7	6	9	6	7	7	5	8	8	9	5	4
CLOSEABLE SHUTTERS.....	-	-	-	-	-	-	-	-	-	-	-	-
STORM DOORS.....	4	3	5	3	4	4	2	5	4	5	3	1
AUTOMATIC OR CLOCK THERMOSTAT.....	1	1	1	1	1	1	1	1	1	1	-	1
NEW WATER HEATING EQUIPMENT.....	2	2	3	2	2	2	2	2	3	3	1	2
NO.....	93	94	91	94	93	93	95	92	92	91	95	96
EQUIPMENT ADDED (EXPENSIVE)												
YES.....	6	4	7	6	6	4	4	7	6	7	3	2
STORM WINDOWS/INSULATING GLASS.....	5	3	5	5	5	2	2	5	5	5	3	2
ELECTRIC HEAT PUMP.....	-	-	-	-	-	-	-	-	-	-	-	-
NEW FURNACE.....	2	1	2	2	2	1	1	2	2	2	1	1
NO.....	94	95	93	94	94	96	96	93	94	93	97	98

See footnotes at end of table.

TABLE 32B
 CONSERVATION EFFORTS UNDERTAKEN DURING 1977 BY SELECTED DEMOGRAPHIC CHARACTERISTICS-CONTINUED
 (PERCENTAGE OF HOUSEHOLDS)

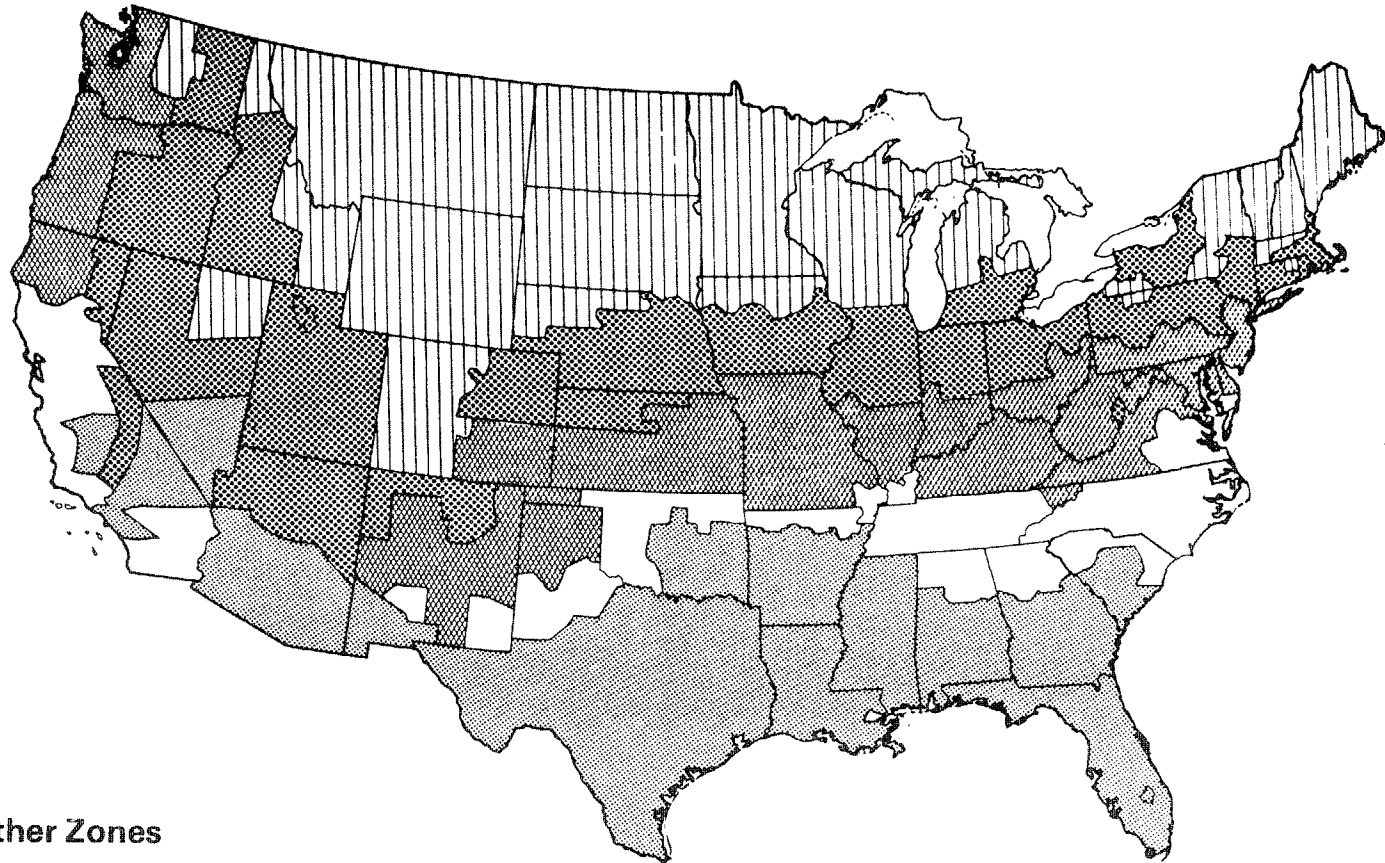
	TOTAL HOUSEHOLDS	AGE OF HEAD			RACE		EDUCATION OF HEAD (IN YEARS)			MARITAL STATUS OF HEAD		
		35 OR LESS	36 TO 59	60 AND OVER	WHITE, OTHER	BLACK	8 OR LESS	9 TO 12	13 AND OVER	MARRIED	NOT MARRIED	
											FEMALE HEAD	MALE HEAD
ADDED ANY INSULATION OR EQUIPMENT												
YES.....	35	31	41	34	37	29	32	33	34	39	23	26
NO.....	64	69	59	66	63	72	68	67	66	61	77	74
ADDED EXPENSIVE INSULATION BUT NOT EXPENSIVE EQUIPMENT....	5	5	6	5	6	1	5	5	5	6	3	4
ADDED EXPENSIVE EQUIPMENT BUT NOT EXPENSIVE INSULATION...	5	3	5	5	5	3	3	5	4	3	3	2
ADDED EXPENSIVE INSULATION AND EXPENSIVE EQUIPMENT.....	1	1	1	1	1	-	-	2	1	2	-	-
ADDED ONLY INEXPENSIVE INSULATION OR EQUIPMENT.....	24	21	28	23	25	23	23	26	23	26	22	20
ADDED STORM WINDOWS, STORM DOORS, OR ATTIC OR ROOF INSULATION....	11	9	12	10	11	6	8	11	11	12	7	5

1/ EXCLUDES BUILDINGS WITH FIVE OR MORE UNITS.

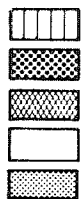
NOTE: DATA MAY NOT SUM TO TOTALS DUE TO ROUNDING. A DASH "-" REPRESENTS OR ROUNDS TO ZERO.
 SEE GLOSSARY FOR DEFINITIONS OF TERMS USED IN THIS TABLE.

SOURCE: THE 1978 NATIONAL INTERIM ENERGY CONSUMPTION SURVEY, OFFICE OF THE CONSUMPTION DATA SYSTEM,
 OFFICE OF PROGRAM DEVELOPMENT, ENERGY INFORMATION ADMINISTRATION.

United States Weather Zone Map of Heating Degree Days (HDD) and Cooling Degree Days (CDD)



Weather Zones



- Zone 1 is less than 2,000 CDD and greater than 7,000 HDD.
- Zone 2 is less than 2,000 CDD and 5,500 - 7,000 HDD.
- Zone 3 is less than 2,000 CDD and 4,000 - 5,499 HDD.
- Zone 4 is less than 2,000 CDD and greater than 4,000 HDD.
- Zone 5 is greater than 2,000 CDD and less than 4,000 HDD.

NATIONAL INTERIM ENERGY CONSUMPTION SURVEY:
HOW THE SURVEY WAS CONDUCTED

Introduction

The National Interim Energy Consumption Survey (NIECS)¹ was designed by the Energy Information Administration (EIA) to provide information related to energy consumption by the residential sector.² This survey, along with analogous studies for the commercial and industrial sectors, will enable the analysis of comprehensive consumption patterns for the United States.

Information on energy use in the residential sector was collected at the household level. A representative (national) sample of households was selected in the 48 contiguous States plus the District of Columbia. The data on actual energy consumption was obtained from fuel records maintained by the household's fuel suppliers. An inventory of motor vehicles used by the household was also included in the survey.

Data Collection

Response Analysis Corporation (RAC), of Princeton, New Jersey conducted the interviews. A total of 4,849 housing units were drawn in the original sample. Of these, 342 were ineligible for this survey because they were either vacant or seasonal units (the occupants did not live in them for more than half of the year). Of the 4,507 eligible units, interviews were obtained from 3,842 households, yielding an initial response rate of 85.2 percent. Subsequently, mail questionnaires were sent to the 665 households that were not interviewed. Completed mail questionnaires were received from 239 of the households. This additional effort increased the response rate by 5.3 percent.

Initial household contacts were begun in October 1978. The 44-minute interview covered: structural features related to energy, such as size, insulation, and openings; the heating and cooling systems and the fuels used in these systems; energy conservation efforts; information on household appliances and vehicles; and demographic data on household members. At the conclusion of the interview, respondents were asked to sign waivers authorizing Response Analysis Corporation (RAC) to obtain their records of fuel consumption from their fuel supplier.

¹Not to be confused with NEIC--the National Energy Information Center which is EIA's public information office.

²Form Number EIA-84; OMB 38S-780028

Most of the 327 interviewers employed by RAC had had previous survey experience. Training for NIECS was done by mail, using a 59-page instruction booklet. The booklet included specific procedures for conducting this survey and provided guidelines on how to handle various interpretations of questions. A practice interview and a quiz on the instructions were also parts of the training. An interviewer conducted about 12 interviews on the average. The most interviews conducted by a single interviewer was 47 while several interviewers completed as few as one. Twenty percent of the interviews were verified to insure that interviews were conducted in person.

Sample Design

The NIECS sample is a representative area probability sample consisting of 103 primary sampling units (PSU's). These PSU's were selected from approximately 1,140 PSU's that collectively form a mutually exclusive and exhaustive division of the contiguous United States. Each PSU is a well-defined geographic unit, usually consisting of one or more counties. Based on the 1970 Census, PSU sizes range from a population of 50,000 to approximately 3,300,000. Region, metropolitan status, and size classification were the primary considerations in the selection of the sampled PSU's.

Within each PSU, secondary sampling units (SSU's) were defined. Based upon 1970 Census counts, 400 SSU's were selected from the 103 PSU's. Each of these SSU's contained approximately 2,500 persons and consisted of one or more blocks in urban areas and one or more enumeration districts in the nonurban areas. An additional 56 SSU's were selected independently. These 56 SSU's comprised a probability selection of areas that had undergone substantial new construction since 1970. Independent sources (Reuben H. Donnelley address lists and county data) were used to update the population for these SSU's. This effort to locate areas of new construction was undertaken to control the variation in cluster size.

Within each SSU, subdivisions were made. Census block statistics and rough field counts were used to break up each SSU into segments. Interviewers listed all housing units in the segment, completing this phase of the survey in the summer of 1978. The segments were formed so that they ultimately contained about 25 households. Finally, a sample of 10 or 11 households was selected to be visited. Thus, within each SSU 10 or 11 households were sampled, within each PSU an average of 40 to 45 households were sampled, and nationally, about 4,500 units were sampled.

Survey Estimates

Weights were calculated for each sample household to: 1) compensate for differences in probabilities of selection, 2) adjust for differences in interview completion rate in individual sampling locations, and 3) expand data for sample households to estimates for the total universe (all households in the contiguous 48 States plus the District of Columbia).

In order to increase the precision of our estimates, a technique called ratio estimation was employed. Ratio estimation uses known distributions of the population. These adjustments took place in two stages for the NIECS. The first stage factor was a ratio of the total number of households in each region by fuel type to an estimate of the number of households in each category. Only the PSU's in our sample and their appropriate weights were used. The figures used in both the numerator and denominator were based on the 1970 Census. The implementation of this factor reduced the amount of variance due to the sampling of PSU's. The second stage factor adjusted data from the survey to independently derived current estimates of the number of households for specified groups. The ratio adjustment was calculated for each region by type of community. The second stage factor reduced both the between PSU variance, as in the first stage, and the within PSU variance.

Estimation for Nonresponse

When data was unattainable from a nonresponding household, the weights from the households in the final cluster were increased to make up for the nonresponding household.

Item nonresponse required a customized procedure for each data element. The data elements were divided into two categories: those with minimum nonresponse (about one percent), and those with more substantial nonresponse. The basic procedure attributed the most common response (modal value) to the first class of variables. In the second group where nonresponse was significant, a "hot deck" procedure was implemented. There were variations to this procedure depending on the importance of the data element, the inter-relationship of data elements, and the consistency of data. Some elements such as amount of attic insulation were not imputed at all and a "don't know" response was accepted. Square footage and transportation data were not imputed.

Minimizing Nonresponse

The Office of Federal Statistical Policy and Standards (OFSPS) encouraged an analysis of the effect of nonsampling error in the NIECS. An intensive effort to minimize non-response was the outcome of several meetings and memoranda dealing with the nonsampling error issue. Many of the following procedures were used to test the feasibility of a multi-wave, multicontact approach and may or may not be used in the larger Residential Energy Consumption Surveys (RECS). Most households received two letters in October 1978, prior to the interview. An EIA letter stressed the importance of the survey and a RAC letter announced the upcoming arrival of the interviewer.

To elicit rapport and cooperation, a \$2 incentive was given to the respondent before the interview. Over 99 percent of the respondents accepted the incentive. Interviewers made up to eight call-backs at different times of the day and week. They also queried neighbors as to the most opportune time to contact the respondent.

A second wave was conducted in December 1978 to contact households that were not available during the first wave and to convince the first-wave refusals to reconsider. A new set of letters preceded the second-wave interview. For the second wave, a different interviewer was assigned who endeavored to complete the interview by making up to five contacts.

A third wave followed in January 1979. This was an effort to reach nonrespondents in 14 sample locations that had low interview completion rates.

In a final attempt to complete an interview, an abbreviated version of the questionnaire, adapted for self-administration, was mailed to nonrespondents in February 1979. The \$2 incentive was included in the mailing.

In an attempt to evaluate the effects of a multi-wave, multicontact approach the following was noted:

- Eighty-seven percent of all responding households cooperated on the first wave, 12 percent on the second wave, and 1 percent were picked up at the third wave.
- Household and family characteristics such as income, age of head of household, education, and geographical location had little relation to the wave in which the respondent completed the interview.
- Thirty-seven percent of all responding households required only one contact.

Evaluation of Nonresponse

Basic information on all 4,507 households was obtained from the listing procedure. It was, therefore, possible to compare the responding households to the non-responding households.

Table 1 gives a percentage breakdown of respondents and non-respondents by structure type and SMSA classification.

TABLE 1

	<u>Respondents</u>	<u>Nonrespondents</u>
Single-Family Detached Structures Having 5 or More units	66	57
Other	11	16
	23	27
Large SMSA	39	54
Small SMSA	27	23
Outside SMSA	34	23

Response rates in large urban areas (where apartment buildings with five or more units are more common) were somewhat lower than in other geographic locations.

Our nonrespondents were classified into eight sub-categories including "not-at-home," "refused," "illness," "language barrier," "interview of wrong household," "security building," "moved after initial contact," and "other." Of the 426 non-respondents, 21 percent were not at home, 75 percent refused, and 4 percent were in the remaining categories.

TABLE 2

	<u>Nonrespondents</u>		<u>Respondents</u>
	<u>Not-at-home</u>	<u>Refusals</u>	
Single-Family Detached Structures Having 5 or More Units	43	62	66
Other	23	14	11
	34	24	23
Large SMSA	58	53	39

Table 2 shows that the distribution of structure type for refusals was more similar to the respondents than the not-at-home households. On the other hand, the geographic distribution indicated a somewhat different trend. Refusals and not-at-home households were distributed more like each other than to responding households.

Additional Survey Components

One purpose of the NIECS was to test the procedures and methodology for RECS. Three studies, in addition to the basic NIECS survey, are also being conducted. These studies will be used to determine what additions and modifications should be made for RECS.

When renters did not pay directly for their fuel costs, an interviewer contacted the apartment manager by telephone to ask what space and water heating fuels were used in the apartment building. These data have been incorporated into the NIECS data set, resulting in more accurate information about rental housing units.

A transportation panel consisting of a subset of the NIECS sample began in June 1979. Participating households are asked to keep a log of their fuel purchases and odometer readings for a two-month period. The panel consists of 500 to 1,000 households reporting each month. Separate tabulations of these data are planned.

Fifty NIECS households were selected to be part of an energy assessment study. Trained technicians analyzed the energy-related components of a house. Exact square footage, temperature distribution in various parts of the house, presence of insulation, and features of major appliances (including heating and cooling equipment) were surveyed. Detailed evaluations of this pretest are being developed.

Data From Non-household Sources (Fuel Suppliers)

Respondents in 95 percent of the interviewed households signed waivers to permit fuel suppliers to give Response Analysis Corporation the monthly record of their past year's fuel purchases. The data contained both the amount sold and the price of the fuel. The suppliers were contacted between March and May 1979 and were asked to supply fuel billing information for the previous 12-month period.

In order to attain the highest response rate possible, the following procedures were used:

- Letters were sent to each company after RAC located the person who would act on the request for fuel bills. Follow up telephone calls were made to insure the receipt of the letter and to help with any problems that may have arisen. Response Analysis Corporation also personally visited several companies to offer assistance.

- Some fuel oil and liquid petroleum gas (LPG) suppliers provided the fuel purchase information over the telephone. The telephone was adequate for these types of suppliers because each company supplied data for only a few customers and the fuel records were not as detailed as records for electricity and natural gas sales. About 600 of the approximately 800 fuel suppliers contacted in this survey were fuel oil or LPG distributors.

One unique aspect of this survey was the opportunity to obtain electricity and natural gas data for households that did not complete the interview or did not sign the waiver. Utilities would not supply individual household data without a waiver, but did supply aggregate data for groups of non-respondents. This information provides the ability to analyze the potential bias introduced by nonresponse and to improve the accuracy of consumption estimates in the residential sector.

Weather Data

The first type of temperature data used was the 45-year annual average heating degree days (HDD) and cooling degree days (CDD) for the National Oceanic and Atmospheric Administration (NOAA) weather division in which the household was located.

These data will aid in analyzing the effects of weather on personal decisions to make changes in basic housing structure or equipment. The second type of data used were HDD and CDD totals for each billing period. These data will allow more complete analysis of fuel consumption.

Weather conditions will be calculated for the appropriate billing period. For example, one household may be billed on the 1st of every month, while another may be billed on the 5th. Obviously, there will be different 30-day averages of HDD and CDD for each billing period.

Editing Completed Questionnaires

Interviewers mailed the completed questionnaires to Princeton, New Jersey, where they were reviewed for completeness and correct identifying information. This manual edit was segmented and each part was worked on separately.

A machine edit checked for reasonable values, proper skip patterns, and logical consistencies.

Telephone calls were made to individual households to clarify ambiguities in the data. Additional editing resolved discrepancies among the household interview, the rental agent survey, and the information from fuel suppliers. For example, information on the fuel used in apartment buildings was taken from the rental agent survey to correct the data from the household. In other cases, a fuel supplier reported supplying kerosene to a household not fuel oil as was reported by the household. The data, therefore, do not always represent the respondents' reports, exclusively.

All key punching was verified.

HOUSING UNIT RECORD SHEET

Location # _____ Housing Unit # _____

Address (or description) _____

Post Office (city or town) _____

State _____ Zip code _____

INTRODUCTION

Hello, I'm _____ from Response Analysis, a survey organization in Princeton, New Jersey. We are working on a national survey for the U.S. Department of Energy. May I speak to the head of the household?

CONTINUE WITH HEAD OF HOUSEHOLD, OR ONE OF HOUSEHOLD HEADS, OR SPOUSE

We would like to ask some questions about your home, about heating and air-conditioning, appliances, and related topics.

HAND PRIVACY ACT NOTICE TO RESPONDENT: This notice explains that information about your household is protected by the Privacy Act of 1974 and will remain confidential.

HAND PACKET OF TWO DOLLAR COINS TO RESPONDENT: As Response Analysis mentioned in the letter to your household, these coins are a token of appreciation for your participation in the survey.

CONTINUE WITH INTERVIEW

① INTERVIEWER OBSERVATION OF TYPE OF LIVING QUARTERS

01 MOBILE HOME OR TRAILER

02 ONE-FAMILY HOUSE

- DETACHED
 ATTACHED ON ONE SIDE (SEMI-DETACHED)
 ATTACHED ON TWO SIDES

03 HOUSE OR BUILDING WITH
2 - 4 HOUSING UNITS

- DETACHED
 ATTACHED ON ONE SIDE (SEMI-DETACHED)
 ATTACHED ON TWO SIDES

04 BUILDING WITH 5 OR MORE
UNITS

NUMBER OF UNITS: _____
NUMBER OF FLOORS (STORIES): _____

21 OTHER -- DESCRIBE IN DETAIL ANY STRUCTURE THAT DOES NOT FIT ONE OF THE ABOVE.

② TYPE OF OCCUPANCY OF HOUSING UNIT

- 1 YEAR-ROUND UNIT
- 2 SEASONAL UNIT
- 3 MIGRATORY UNIT

MARK ANSWER WHETHER HOUSING UNIT IS OCCUPIED OR VACANT -- SEE P. 10 OF INSTRUCTION BOOKLET FOR INTERVIEWERS.

③ RECORD OF VISITS TO HOUSING UNIT

Visit number	Time of day (include AM or PM)	Date	Day of week	Result or comments

④ USE THIS SPACE FOR ADDITIONAL NOTES OR COMMENTS ABOUT VISITS TO THIS HOUSEHOLD. DESCRIBE FULLY IF REFUSAL OR OTHER NONINTERVIEW.

⑤ GIFT TO HOUSEHOLD

MARK TO SHOW WHETHER TWO DOLLAR COIN PACKET WAS ACCEPTED

- 1 TWO DOLLAR COIN PACKET ACCEPTED BY HOUSEHOLD
- 0 NOT ACCEPTED

⑥ NAME AND PHONE NUMBER OF HEAD OF HOUSEHOLD (OR ONE OF HOUSEHOLD HEADS)

Name

Phone number

Area code ()

⑦ INTERVIEWER'S NAME AND I.D. NUMBER

Interviewer

I.D. number

1978 - 79

RESIDENTIAL ENERGY CONSUMPTION SURVEY

106-107:01

LOCATION # _____	HOUSING UNIT # _____	TIME INTERVIEW STARTED: _____
111-115	116-117	

1. In what year did your family move into this house (apartment)?

- 01 BEFORE 1940 121-
- 02 1940-1949 122
- 03 1950-1959
- 04 1960-1964
- 05 1965-1969
- 06 1970-1974
- 07 1975
- 08 1976
- 09 1977
- 10 1978
- 11 1979

IF "1977," "1978," OR "1979," ASK:

2. In which month did you move in? (SPECIFY MONTH AND ENTER LAST DIGIT OF YEAR.)

MONTH: 123-
124

YEAR: 125-
126

3. In what year was this house (building) built? Just your estimate.

- 01 BEFORE 1940 125-
- 02 1940-1949 126
- 03 1950-1959
- 04 1960-1964
- 05 1965-1969
- 06 1970-1974
- 07 1975
- 08 1976
- 09 1977
- 10 1978
- 11 1979

4. How many floors do you use as year-round living space here in your house (apartment)?

AREAS USED AS REGULAR YEAR-ROUND LIVING SPACE (FOR BEDROOM, KITCHEN, STUDY, ETC.) IN BASEMENT OR ATTIC SHOULD BE COUNTED.

DO NOT COUNT UNFINISHED AREAS USED FOR WORKROOMS, UTILITY ROOM, LAUNDRY ROOM, ETC.

- 1 ONE FLOOR 127
- 2 1-1/2 FLOORS
- 3 TWO FLOORS
- 4 2-1/2 FLOORS
- 5 THREE OR MORE FLOORS

5. Altogether (counting all areas that are used as year-round living space), how many rooms do you have in your living quarters? Do not count bathrooms, unheated porches, foyers, or hallways.

NUMBER OF ROOMS: 138-139

6. Do you have complete plumbing facilities in your living quarters, that is, hot and cold running water, a flush toilet, and a bathtub or shower?

- 1 YES 130
- 2 NO, HAVE SOME BUT NOT ALL PLUMBING FACILITIES
- 3 NO PLUMBING FACILITIES IN LIVING QUARTERS

IF "YES," ASK:

7. Are they for this household only or are they also used by another household?

- 1 FOR THIS HOUSEHOLD ONLY 131
- 2 ALSO USED BY ANOTHER HOUSEHOLD

8. How many complete bathrooms and how many half-bathrooms do you have? (A complete bathroom is a room with a flush toilet, bathtub or shower, and a sink/washbasin with running water. A half-bath has at least a flush toilet or bathtub or shower, but does not have all the facilities for a complete bathroom.) IF NONE, ENTER "0."

NUMBER OF COMPLETE BATHROOMS: 132

NUMBER OF HALF-BATHROOMS: 133

9. Do you happen to know how many square feet of living space you have here in your house (apartment)?

- 1 YES \longrightarrow How many square feet, just approximately? 134
- 0 NO \longrightarrow What would be your best guess about the number of square feet?

NUMBER OF SQUARE FEET: 135-137

HAVE NO IDEA

10. How about the largest room (living or family room) of your house (apartment) -- what is your estimate of the length and width in feet?

INTERVIEWER: PUT RESPONDENT'S ESTIMATE IN BOXES IN RECTANGULAR OR L-SHAPED SKETCH AT RIGHT, AS APPROPRIATE. IF RESPONDENT IS UNABLE TO MAKE ESTIMATE, PUT IN YOUR OWN BEST ESTIMATE.

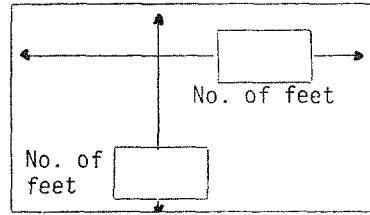
NOTE BELOW WHETHER LARGEST ROOM IS RECTANGULAR OR L-SHAPED, AND HOW ESTIMATE WAS MADE.

- 139 1 LARGEST ROOM IS RECTANGULAR: ENTER DIMENSIONS IN SKETCH #1
- 2 LARGEST ROOM IS L-SHAPED: ENTER DIMENSIONS IN SKETCH #2

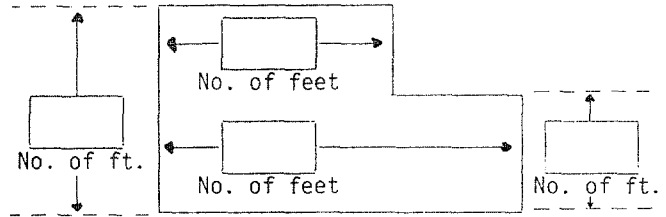
SOURCE OF ESTIMATE

- 1 ESTIMATE MADE BY RESPONDENT
- 140 2 ESTIMATE MADE BY INTERVIEWER
- 3 RESPONDENT/INTERVIEWER MEASURED

SKETCH #1



SKETCH #2



141-
152

HAND RESPONDENT EXHIBIT 11

11. What is the main heating equipment for your home?

CENTRAL HEATING SYSTEM

- 01 HOT WATER PIPES RUNNING THROUGH A SLAB FLOOR (RADIANT HEATING)
 02 STEAM OR HOT WATER SYSTEM WITH RADIATORS OR CONVECTORS
 03 CENTRAL WARM-AIR FURNACE WITH DUCTS TO INDIVIDUAL ROOMS
 (DO NOT COUNT ELECTRIC HEAT PUMP HERE)
 04 ELECTRIC HEAT PUMP
 05 BUILT-IN ELECTRIC UNITS (PERMANENTLY INSTALLED IN WALL, CEILING, OR BASEBOARD)
 06 FLOOR, WALL, OR PIPELESS FURNACE

153-
156

HEAT ONLY IN INDIVIDUAL ROOMS

- 11 ROOM HEATERS WITH FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE
 12 ROOM HEATERS WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE (NOT PORTABLE)
 13 FIREPLACES OR HEATING STOVES
 14 PORTABLE ROOM OR SPACE HEATERS

 21 OTHER (SPECIFY): _____
 96 DON'T KNOW
 00 NO HEATING EQUIPMENT USED -- SKIP TO Q. 19

TAKE BACK EXHIBIT 11

IF ONE-FAMILY HOUSE, MOBILE HOME, OR TRAILER, SKIP TO Q. 13.

12. Is your home heated by a central system for your building (or group of buildings) or is the main heating equipment for your living quarters only?

- 1 CENTRAL SYSTEM FOR BUILDING
 2 MAIN HEATING EQUIPMENT FOR THESE LIVING QUARTERS ONLY

155

HAND RESPONDENT EXHIBIT 13

13. Which fuel is used by the main heating equipment for your house (apartment)?

- 01 GAS FROM UNDERGROUND PIPES SERVING THE NEIGHBORHOOD
 02 GAS, LPG (BOTTLED OR TANK GAS)
 03 FUEL OIL
 04 KEROSENE OR COAL OIL
 05 ELECTRICITY
 06 COAL OR COKE
 07 WOOD
 08 SOLAR COLLECTORS
 21 OTHER (SPECIFY): _____

156-
157

TAKE BACK EXHIBIT 13

14. Do you have a thermostat, radiator valve, or other control to adjust the temperature in your house (apartment) in the winter? 158
- 1 YES
0 NO

IF "YES," ASK:

15. Which do you have? (MARK ALL THAT APPLY.)
- THERMOSTAT(S) 159
 RADIATOR VALVE(S) 160
 OTHER CONTROL(S) 161
(SPECIFY): _____

HAND RESPONDENT EXHIBIT 16

16. You have already mentioned your main heating equipment. Are any of these types of equipment used in your home in addition to your main equipment? 162
- 1 YES
0 NO -- TAKE BACK EXHIBIT 16

IF "YES," ASK:

17. What type do you use? (IF MORE THAN ONE TYPE IS MENTIONED, MARK ONLY THE ONE USED MOST.)

CENTRAL HEATING SYSTEM

- 01 HOT WATER PIPES RUNNING THROUGH A SLAB FLOOR (RADIANT HEATING)
02 STEAM OR HOT WATER SYSTEM WITH RADIATORS OR CONVECTORS
03 CENTRAL WARM-AIR FURNACE WITH DUCTS TO INDIVIDUAL ROOMS
(DO NOT COUNT ELECTRIC HEAT PUMP HERE)
04 ELECTRIC HEAT PUMP
05 BUILT-IN ELECTRIC UNITS (PERMANENTLY INSTALLED IN WALL, CEILING, OR BASEBOARD)
06 FLOOR, WALL, OR PIPELESS FURNACE

163-
164

HEAT ONLY IN INDIVIDUAL ROOMS

- 11 ROOM HEATERS WITH FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE
12 ROOM HEATERS WITHOUT FLUE OR VENT, BURNING GAS, OIL, OR KEROSENE (NOT PORTABLE)
13 FIREPLACES OR HEATING STOVES
14 PORTABLE ROOM OR SPACE HEATERS

21 OTHER (SPECIFY): _____

96 DON'T KNOW

TAKE BACK EXHIBIT 16; HAND RESPONDENT EXHIBIT 18

18. Which fuel is used by this additional equipment? (MARK ONLY ONE FUEL FOR THE TYPE OF ADDITIONAL EQUIPMENT USED MOST.)
- 01 GAS FROM UNDERGROUND PIPES SERVING THE NEIGHBORHOOD
02 GAS, LPG (BOTTLED OR TANK GAS)
03 FUEL OIL
04 KEROSENE OR COAL OIL 165-
05 ELECTRICITY 166
06 COAL OR COKE
07 WOOD
08 SOLAR COLLECTORS
21 OTHER (SPECIFY): _____

TAKE BACK EXHIBIT 18

19. Do you have air-conditioning, either a central system or individual window or wall units? (MARK ALL THAT APPLY.)
- YES, CENTRAL SYSTEM 167
- YES, INDIVIDUAL (WINDOW/WALL) UNITS 168
- NO -- SKIP TO Q. 26

20. How many rooms in your house (apartment) are air-conditioned?
- NUMBER OF ROOMS: 169-170
- 95 ENTIRE HOUSE OR APARTMENT

IF "INDIVIDUAL (WINDOW/WALL) UNITS" ON Q. 19, ASK:

21. How many window or wall units do you have in your house (apartment)?
- NUMBER OF (WINDOW/WALL) UNITS: 171-172

IF "CENTRAL SYSTEM" ON Q. 19, ASK:

22. Does the central air-conditioning system use gas or electricity?
- 1 GAS
- 2 ELECTRICITY 173
- 6 DON'T KNOW

IF ONE-FAMILY HOUSE, MOBILE HOME, OR TRAILER, SKIP TO Q. 24.

23. Is it a central air-conditioning system for your building (or group of buildings) or is the main air-conditioning equipment for your living quarters only?
- 1 CENTRAL SYSTEM FOR BUILDING
- 2 AIR-CONDITIONING IS FOR THESE LIVING QUARTERS ONLY 174

24. Do you have a thermostat, high-low switch, or other control to adjust the air conditioning level in the summer?
- 1 YES 175
- 0 NO

IF "YES," ASK:

25. Which do you have? (MARK ALL THAT APPLY.)
- THERMOSTAT(S) 176
- HIGH-LOW SWITCH(ES) 177
- OTHER CONTROL(S) (SPECIFY): _____ 178
- _____

HAND RESPONDENT EXHIBIT 26

206-207:02

26. Please look at this diagram of different kinds of windows and sliding glass doors. How many of each of these types of windows or doors are there in your home?

Please include basement, attic, garage, and porch windows only if those areas are heated.
 (EACH WINDOW THAT OPENS SEPARATELY SHOULD BE COUNTED AS ONE WINDOW. ALSO COUNT WINDOWS THAT ARE FIXED IN PLACE. IF NO WINDOWS OF A PARTICULAR TYPE, ENTER "00.")

	NUMBER OF WINDOWS	NUMBER WITH STORM WINDOWS OR INSULATING GLASS	
SINGLE OR DOUBLE HUNG			211-214
CASEMENT.			215-218
HORIZONTAL SLIDING			219-222
PICTURE (FIXED IN PLACE).			223-226
TILTING OR AWNING TYPE.			227-230
JALOUSIE.			231-234
SLIDING GLASS DOOR			235-238
OTHER (SPECIFY TYPE BELOW):			239-242

FOR EACH TYPE OF WINDOW IN THE HOME, ASK:

27. How many of the _____ windows (and sliding glass doors) have storm windows (and storm doors) or insulating glass? (WINDOWS [AND SLIDING GLASS DOORS] MADE OF DOUBLE GLASS AND OTHER TYPES OF INSULATING GLASS SHOULD BE COUNTED THE SAME AS STORM WINDOWS. IF NO STORM WINDOWS OR INSULATING GLASS FOR A PARTICULAR TYPE, ENTER "00.")

TAKE BACK EXHIBIT 26

28. (Other than the sliding glass doors you mentioned) How many doors do you have that go outside or to an unheated area? (INCLUDE DOORS THAT GO TO AN UNHEATED PORCH OR GARAGE. DO NOT INCLUDE DOORS TO A HEATED HALLWAY IN AN APARTMENT BUILDING OR DOORS THAT ARE PERMANENTLY SEALED SHUT.)

NUMBER OF DOORS OPENING OUTSIDE: 243-244
 00 [] NONE

IF ONE OR MORE, ASK:

29. How many of your doors to the outside have storm doors or double glass, or some other kind of insulating glass?

NUMBER OF OUTSIDE DOORS WITH PROTECTION: 245-246
 00 [] NONE

30. Last winter, in the winter of 1977-78, did you completely close off one or more rooms for a week or longer?

1 YES
 0 NO -- SKIP TO Q. 32 247
 5 DID NOT LIVE HERE
 LAST WINTER -- SKIP TO Q. 32

IF "YES," ASK:

HAND RESPONDENT EXHIBIT 31

31. Why was the room closed off? (MARK ALL THAT APPLY.)

TO SAVE ON FUEL COSTS 248
 FUEL UNAVAILABLE IN THIS AREA 249
 COULD NOT KEEP ROOM(S) WARM 250
 ROOM(S) NOT BEING USED 251
 OTHER (SPECIFY): _____ 252

TAKE BACK EXHIBIT 31

HAND RESPONDENT EXHIBIT 32

32. Which fuel is used most for heating water?

01 GAS FROM UNDERGROUND PIPES
 SERVING THE NEIGHBORHOOD
 02 GAS, LPG (BOTTLED OR TANK)
 03 FUEL OIL
 04 KEROSENE OR COAL OIL 253-
 05 ELECTRICITY 254
 06 COAL OR COKE
 07 WOOD
 08 SOLAR COLLECTORS
 21 OTHER (SPECIFY): _____

TAKE BACK EXHIBIT 32

33. Do you have hot running water in your home?

1 YES 255
 0 NO -- SKIP TO Q. 36

IF ONE-FAMILY HOUSE, MOBILE HOME, OR TRAILER, SKIP TO Q. 35.

34. Is your hot water supplied by a central system for your building (or group of buildings) or is the water heater for your living quarters only?

1 CENTRAL SYSTEM FOR BUILDING --
 SKIP TO Q. 36 256
 2 FOR THESE LIVING QUARTERS
 ONLY -- ASK Q. 35

35. Is the water heater part of the furnace that heats your home, or is the water heater separate?

1 PART OF FURNACE
 2 SEPARATE 257
 6 DON'T KNOW

HAND RESPONDENT EXHIBIT 41

41. Please look at this list and tell me which items, if any, you have added or installed in your home since January 1, 1977.

MARK "YES," "NO," OR "IN PROCESS" FOR EACH ITEM. COUNT AS "IN PROCESS" ANY WORK STARTED BUT NOT YET COMPLETED. DO NOT COUNT ANY CHANGES MADE BEFORE THIS HOUSEHOLD MOVED IN.

	ADDED OR INSTALLED IN PAST TWO YEARS			MONTH: _____ YEAR: 197__ [] IN PROCESS	306-307:03
	1 YES	2 IN PROCESS	0 NO		
a. Storm windows or windows with insulating glass (double glazed)	1 []	2 []	0 []	MONTH: _____ YEAR: 197__ [] IN PROCESS	317-319
b. Closeable shutters	1 []	2 []	0 []	MONTH: _____ YEAR: 197__ [] IN PROCESS	318-321
c. Storm doors on doors to the outside or doors with insulating glass	1 []	2 []	0 []	MONTH: _____ YEAR: 197__ [] IN PROCESS	319-321
d. Weatherstripping around outside doors or windows	1 []	2 []	0 []	MONTH: _____ YEAR: 197__ [] IN PROCESS	322-323
e. An automatic or clock thermostat	1 []	2 []	0 []	MONTH: _____ YEAR: 197__ [] IN PROCESS	324-325
f. Roof or attic insulation	1 []	2 []	0 []	MONTH: _____ YEAR: 197__ [] IN PROCESS	326-328
g. Insulation in the outside walls	1 []	2 []	0 []	MONTH: _____ YEAR: 197__ [] IN PROCESS	329-330
h. Insulation in basement or crawl space below floor of house	1 []	2 []	0 []	MONTH: _____ YEAR: 197__ [] IN PROCESS	331-332
i. Insulation around hot water pipes	1 []	2 []	0 []	MONTH: _____ YEAR: 197__ [] IN PROCESS	333-334
j. Insulation around the hot water heater	1 []	2 []	0 []	MONTH: _____ YEAR: 197__ [] IN PROCESS	335-336
k. Any insulation other than already mentioned: (SPECIFY) _____	1 []	2 []	0 []	MONTH: _____ YEAR: 197__ [] IN PROCESS	337-338
l. Electric heat pump	1 []	2 []	0 []	MONTH: _____ YEAR: 197__ [] IN PROCESS	339-340
m. New water heating equipment	1 []	2 []	0 []	MONTH: _____ YEAR: 197__ [] IN PROCESS	341-342
n. New furnace	1 []	2 []	0 []	MONTH: _____ YEAR: 197__ [] IN PROCESS	343-344

FOR EACH "YES" ANSWER TO Q. 41, ASK:

42. In what month and year was that completed?
(ENTER MONTH AND LAST DIGIT OF YEAR.) _____

TAKE BACK EXHIBIT 41

43. Since January 1, 1977, have you added any caulking around your windows or doors that lead to the outside?

- 1 YES
 0 NO -- SKIP TO Q. 46

411

IF "YES," ASK:

44. Have you done this on one occasion, or on more than one occasion since January 1, 1977?

- 1 ONE OCCASION
 2 MORE THAN ONE OCCASION

412

45. In what month(s) and year(s) was that done? (LIST MONTH AND ENTER LAST DIGIT OF YEAR FOR EACH OCCASION.)

IN PROCESS

MONTH: YEAR: 197 413-
415

MONTH: YEAR: 197 416-
418

MONTH: YEAR: 197 419-
421

46. Since January 1, 1977, have you put plastic coverings over your windows or doors?

- 1 YES
 0 NO -- SKIP TO Q. 49

422

IF "YES," ASK:

47. Have you done this on one occasion, or on more than one occasion since January 1, 1977?

- 1 ONE OCCASION
 2 MORE THAN ONE OCCASION

423

48. In what month(s) and year(s) was that done? (LIST MONTH AND ENTER LAST DIGIT OF YEAR FOR EACH OCCASION.)

IN PROCESS

MONTH: YEAR: 197 424-
426

MONTH: YEAR: 197 427-
429

MONTH: YEAR: 197 430-
432

49. Do you have a refrigerator in your home?

- 1 YES
 0 NO -- SKIP TO Q. 55

433

IF "YES," ASK:

50. Do you have one refrigerator, or more than one that is presently in use?

- 1 ONE
 2 TWO
 3 THREE OR MORE

434

ASK FOR EACH REFRIGERATOR ...

ASK FIRST ABOUT REFRIGERATOR USED MOST:

51. Is it electric or gas?

REFRIGERATOR #1	REFRIGERATOR #2
435	443
1 <input type="checkbox"/> ELECTRIC	1 <input type="checkbox"/> ELECTRIC
2 <input type="checkbox"/> GAS	2 <input type="checkbox"/> GAS

HAND RESPONDENT EXHIBIT 52

52. Which of these best describes your refrigerator?

- Freezer section (or ice cube section) must be defrosted periodically
- Freezer section defrosts automatically after frost builds up (catch pan must be emptied)
- Full frost-free (frost does not build up)

436	444
1 <input type="checkbox"/>	1 <input type="checkbox"/>
2 <input type="checkbox"/>	2 <input type="checkbox"/>
3 <input type="checkbox"/>	3 <input type="checkbox"/>

TAKE BACK EXHIBIT 52

53. Can the freezer compartment be opened without opening the refrigerator section?

437	445
1 <input type="checkbox"/> YES	1 <input type="checkbox"/> YES
0 <input type="checkbox"/> NO	0 <input type="checkbox"/> NO

54. Which of the following features does your refrigerator have? (MARK "YES" OR "NO" FOR EACH ONE.)

- Temperature control
- Automatic ice-maker
- Automatic ice-water dispenser
- Energy saver switch (anti-sweat)
- Extra insulation in walls or doors

438	446
1 <input type="checkbox"/> YES	1 <input type="checkbox"/> YES
0 <input type="checkbox"/> NO	0 <input type="checkbox"/> NO
6 <input type="checkbox"/> DON'T KNOW	6 <input type="checkbox"/> DON'T KNOW
1 <input type="checkbox"/> YES	1 <input type="checkbox"/> YES
0 <input type="checkbox"/> NO	0 <input type="checkbox"/> NO
6 <input type="checkbox"/> DON'T KNOW	6 <input type="checkbox"/> DON'T KNOW
1 <input type="checkbox"/> YES	1 <input type="checkbox"/> YES
0 <input type="checkbox"/> NO	0 <input type="checkbox"/> NO
6 <input type="checkbox"/> DON'T KNOW	6 <input type="checkbox"/> DON'T KNOW
1 <input type="checkbox"/> YES	1 <input type="checkbox"/> YES
0 <input type="checkbox"/> NO	0 <input type="checkbox"/> NO
6 <input type="checkbox"/> DON'T KNOW	6 <input type="checkbox"/> DON'T KNOW
442	450
1 <input type="checkbox"/> YES	1 <input type="checkbox"/> YES
0 <input type="checkbox"/> NO	0 <input type="checkbox"/> NO
6 <input type="checkbox"/> DON'T KNOW	6 <input type="checkbox"/> DON'T KNOW

HAND RESPONDENT EXHIBIT 55

55. Please look at this list, and tell me which is used at least occasionally for cooking in your household. (MARK ALL THAT APPLY.)

- SMALL ELECTRIC APPLIANCES SUCH AS TOASTER OVEN OR FRY PAN 452
- MICROWAVE OVEN 452
- ELECTRIC OVEN 453
- GAS OVEN 454
- ELECTRIC RANGE (STOVE-TOP OR BURNERS) 455
- GAS RANGE (STOVE-TOP OR BURNERS) 456
- OUTDOOR GAS GRILL 457
- NONE -- SKIP TO Q. 61

TAKE BACK EXHIBIT 55

IF "ELECTRIC OVEN" OTHER THAN MICROWAVE OVEN, ASK:

56. Do you use one electric oven or more than one?

- 1 ONE OVEN 458
- 2 MORE THAN ONE

ASK ABOUT MOST-USED ELECTRIC OVEN FIRST:

57. Does your oven have a self-cleaning or continuous cleaning feature?

	OVEN #1	OVEN #2
	459	460
SELF-CLEANING	1 <input type="checkbox"/>	1 <input type="checkbox"/>
CONTINUOUS CLEANING	2 <input type="checkbox"/>	2 <input type="checkbox"/>
NEITHER OF THESE	0 <input type="checkbox"/>	0 <input type="checkbox"/>

IF "GAS OVEN," ASK:

58. Do you use one gas oven or more than one?

- 1 ONE OVEN 461
- 2 MORE THAN ONE

ASK ABOUT MOST-USED GAS OVEN FIRST:

59. Does your oven have a self-cleaning or continuous cleaning feature?

	OVEN #1	OVEN #2
	462	463
SELF-CLEANING	1 <input type="checkbox"/>	1 <input type="checkbox"/>
CONTINUOUS CLEANING	2 <input type="checkbox"/>	2 <input type="checkbox"/>
NEITHER OF THESE	0 <input type="checkbox"/>	0 <input type="checkbox"/>

HAND RESPONDENT EXHIBIT 60

60. Thinking of all the different kinds of cooking done here, which fuel is used most?

- 01 GAS FROM UNDERGROUND PIPES SERVING THE NEIGHBORHOOD
- 02 GAS, LPG (BOTTLED OR TANK GAS)
- 03 FUEL OIL
- 04 KEROSENE OR COAL OIL 464-
- 05 ELECTRICITY 465
- 06 COAL OR COKE
- 07 WOOD OR CHARCOAL
- 21 OTHER (SPECIFY): _____

TAKE BACK EXHIBIT 60

HAND RESPONDENT EXHIBIT 61

61. Which of these do you use here in your home?

AUTOMATIC WASHING MACHINE	1	<input type="checkbox"/>	YES	0	<input type="checkbox"/>	NO	463
WRINGER WASHING MACHINE (ELECTRIC)	1	<input type="checkbox"/>	YES	0	<input type="checkbox"/>	NO	467
ELECTRIC DISHWASHER	1	<input type="checkbox"/>	YES	0	<input type="checkbox"/>	NO	463
FOOD FREEZER SEPARATE FROM REFRIGERATOR	1	<input type="checkbox"/>	YES	0	<input type="checkbox"/>	NO	462
ELECTRIC CLOTHES DRYER	1	<input type="checkbox"/>	YES	0	<input type="checkbox"/>	NO	472
GAS CLOTHES DRYER	1	<input type="checkbox"/>	YES	0	<input type="checkbox"/>	NO	472
OUTDOOR GAS LIGHT	1	<input type="checkbox"/>	YES	0	<input type="checkbox"/>	NO	472

TAKE BACK EXHIBIT 61

Now let's talk about transportation ...

HAND RESPONDENT EXHIBIT 62/64

506-507:05

62. Do you or other members of your household own or have the regular use of any cars, trucks, vans, motorcycles, mopeds, or similar vehicles? 1 YES 511
0 NO -- SKIP TO Q. 85 --
TAKE BACK EXHIBIT 62/64
63. How many do you have? 01 ONE
02 TWO
03 THREE
04 FOUR 512-
05 FIVE 513
06 SIX
07 SEVEN
08 EIGHT OR MORE

606-607:06 706-707:07 806-807:08

VEHICLE NUMBER

64. Which type(s) do you have? (IF HOUSEHOLD HAS MORE THAN FOUR VEHICLES, MARK ANSWERS FOR THE FOUR VEHICLES USED MOST.)
- STATION WAGON
 - AUTOMOBILE
 - JEEP OR SIMILAR VEHICLE
 - PASSENGER VAN OR MINIBUS
 - CARGO VAN
 - PICKUP TRUCK
 - OTHER TRUCK
 - MOTOR HOME
 - MOTORCYCLE
 - MOPED/MOTORIZED BICYCLE
 - OTHER (SPECIFY):

	1	2	3	4
	514-515	614-615	714-715	814-815
STATION WAGON	01 <input type="checkbox"/>	01 <input type="checkbox"/>	01 <input type="checkbox"/>	01 <input type="checkbox"/>
AUTOMOBILE	02 <input type="checkbox"/>	02 <input type="checkbox"/>	02 <input type="checkbox"/>	02 <input type="checkbox"/>
JEEP OR SIMILAR VEHICLE	03 <input type="checkbox"/>	03 <input type="checkbox"/>	03 <input type="checkbox"/>	03 <input type="checkbox"/>
PASSENGER VAN OR MINIBUS	04 <input type="checkbox"/>	04 <input type="checkbox"/>	04 <input type="checkbox"/>	04 <input type="checkbox"/>
CARGO VAN	05 <input type="checkbox"/>	05 <input type="checkbox"/>	05 <input type="checkbox"/>	05 <input type="checkbox"/>
PICKUP TRUCK	06 <input type="checkbox"/>	06 <input type="checkbox"/>	06 <input type="checkbox"/>	06 <input type="checkbox"/>
OTHER TRUCK	07 <input type="checkbox"/>	07 <input type="checkbox"/>	07 <input type="checkbox"/>	07 <input type="checkbox"/>
MOTOR HOME	08 <input type="checkbox"/>	08 <input type="checkbox"/>	08 <input type="checkbox"/>	08 <input type="checkbox"/>
MOTORCYCLE	09 <input type="checkbox"/>	09 <input type="checkbox"/>	09 <input type="checkbox"/>	09 <input type="checkbox"/>
MOPED/MOTORIZED BICYCLE	10 <input type="checkbox"/>	10 <input type="checkbox"/>	10 <input type="checkbox"/>	10 <input type="checkbox"/>
OTHER (SPECIFY):	21 <input type="checkbox"/>	21 <input type="checkbox"/>	21 <input type="checkbox"/>	21 <input type="checkbox"/>
<hr/>				
	516-517	616-617	716-717	816-817
<hr/>				
65. Please tell me the make and model year (of each one). (ENTER LAST TWO DIGITS OF MODEL YEAR.)				
MAKE	518-519	618-619	718-719	818-819
MODEL YEAR	19_____	19_____	19_____	19_____
<hr/>				
	520-521	620-621	720-721	820-821
<hr/>				
66. What is the model name (of each one)?				
MODEL NAME				

TAKE BACK EXHIBIT 62/64

ALL HOUSEHOLDS WITH ONE OR MORE VEHICLES ON Q's. 62-63

ASK Q's. 67-84 FIRST ABOUT FIRST VEHICLE, THEN SECOND, THIRD, AND FOURTH.

These next questions are about your (first/second/third/fourth) vehicle.

67. Did you get this vehicle within the past 12 months or did you have it before that?

WITHIN PAST 12 MONTHS

HAD IT MORE THAN 12 MONTHS -- SKIP TO Q. 73

IF "WITHIN PAST 12 MONTHS," ASK:

68. In what month and year did you get it?

MONTH

YEAR

69. How many miles has it been driven since you have had it?

MILES

DON'T KNOW

70. About how many miles were driven on a highway (that is, with relatively little "stop and go" driving)?

MILES

NOT USED ON HIGHWAY

DON'T KNOW

71. Is it used on-the-job, that is, for any reason other than for going to or from work, by anyone in your household?

YES

NO

IF "YES," ASK:

72. About how many miles were driven on-the-job since you have had it?

MILES

DON'T KNOW

VEHICLE NUMBER			
1	2	3	4
522	622	722	822
1 <input type="checkbox"/>	1 <input type="checkbox"/>	1 <input type="checkbox"/>	1 <input type="checkbox"/>
2 <input type="checkbox"/>	2 <input type="checkbox"/>	2 <input type="checkbox"/>	2 <input type="checkbox"/>
523-525	623-625	723-725	823-825
197__	197__	197__	197__
526-530	626-630	726-730	826-830
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
531-535	631-635	731-735	831-835
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
536	636	736	836
1 <input type="checkbox"/>	1 <input type="checkbox"/>	1 <input type="checkbox"/>	1 <input type="checkbox"/>
0 <input type="checkbox"/>	0 <input type="checkbox"/>	0 <input type="checkbox"/>	0 <input type="checkbox"/>
537-641	637-641	737-741	837-841
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ALL HOUSEHOLDS WITH ONE OR MORE VEHICLES ON Q's. 62-63

IF USED FOR HIGHWAY DRIVING ON Q. 70 OR Q. 75, ASK:

78. How many miles per gallon does it get in highway driving, just approximately? MILES PER GALLON
DON'T KNOW

79. How many miles per gallon does it get in local driving, just approximately? MILES PER GALLON
DON'T KNOW

IF MILES PER GALLON GIVEN, ASK:

80. Has someone actually figured out the miles per gallon, or is it more a general impression? ACTUAL
IMPRESSION

IF NOT USED FOR HIGHWAY DRIVING ON Q. 70 OR Q. 75, ASK:

81. For the kind of driving for which it is used, how many miles per gallon does it get, just approximately? MILES PER GALLON
DON'T KNOW

IF MILES PER GALLON GIVEN, ASK:

82. Has someone actually figured out the miles per gallon, or is it more a general impression? ACTUAL
IMPRESSION

VEHICLE NUMBER			
1	2	3	4
560-561	660-661	760-761	860-861
[]	[]	[]	[]
562-563	662-663	762-763	862-863
[]	[]	[]	[]
564	664	764	864
1 []	1 []	1 []	1 []
2 []	2 []	2 []	2 []
565-566	665-666	765-766	865-866
[]	[]	[]	[]
567	667	767	867
1 []	1 []	1 []	1 []
2 []	2 []	2 []	2 []

ALL HOUSEHOLDS WITH ONE OR MORE VEHICLES ON Q's. 62-63

VEHICLE NUMBER

HAND RESPONDENT EXHIBIT 83

83. What kind of fuel is used most frequently?

	1	2	3	4
UNLEADED REGULAR GASOLINE	01 <input type="checkbox"/>	01 <input type="checkbox"/>	01 <input type="checkbox"/>	01 <input type="checkbox"/>
UNLEADED PREMIUM GASOLINE	02 <input type="checkbox"/>	02 <input type="checkbox"/>	02 <input type="checkbox"/>	02 <input type="checkbox"/>
REGULAR GASOLINE	03 <input type="checkbox"/>	03 <input type="checkbox"/>	03 <input type="checkbox"/>	03 <input type="checkbox"/>
PREMIUM OR HIGH TEST GASOLINE	04 <input type="checkbox"/>	04 <input type="checkbox"/>	04 <input type="checkbox"/>	04 <input type="checkbox"/>
DIESEL	05 <input type="checkbox"/>	05 <input type="checkbox"/>	05 <input type="checkbox"/>	05 <input type="checkbox"/>
ELECTRICITY	06 <input type="checkbox"/>	06 <input type="checkbox"/>	06 <input type="checkbox"/>	06 <input type="checkbox"/>
OTHER (SPECIFY):	21 <input type="checkbox"/>	21 <input type="checkbox"/>	21 <input type="checkbox"/>	21 <input type="checkbox"/>

TAKE BACK EXHIBIT 83

DON'T KNOW 96 96 96 96

HAND RESPONDENT EXHIBIT 84

84. What type of engine does it have?

	1	2	3	4
1-CYLINDER	01 <input type="checkbox"/>	01 <input type="checkbox"/>	01 <input type="checkbox"/>	01 <input type="checkbox"/>
2-CYLINDER	02 <input type="checkbox"/>	02 <input type="checkbox"/>	02 <input type="checkbox"/>	02 <input type="checkbox"/>
3-CYLINDER	03 <input type="checkbox"/>	03 <input type="checkbox"/>	03 <input type="checkbox"/>	03 <input type="checkbox"/>
4-CYLINDER	04 <input type="checkbox"/>	04 <input type="checkbox"/>	04 <input type="checkbox"/>	04 <input type="checkbox"/>
5-CYLINDER	05 <input type="checkbox"/>	05 <input type="checkbox"/>	05 <input type="checkbox"/>	05 <input type="checkbox"/>
6-CYLINDER	06 <input type="checkbox"/>	06 <input type="checkbox"/>	06 <input type="checkbox"/>	06 <input type="checkbox"/>
8-CYLINDER	08 <input type="checkbox"/>	08 <input type="checkbox"/>	08 <input type="checkbox"/>	08 <input type="checkbox"/>
ROTARY	11 <input type="checkbox"/>	11 <input type="checkbox"/>	11 <input type="checkbox"/>	11 <input type="checkbox"/>
ELECTRIC	12 <input type="checkbox"/>	12 <input type="checkbox"/>	12 <input type="checkbox"/>	12 <input type="checkbox"/>
OTHER (SPECIFY):	21 <input type="checkbox"/>	21 <input type="checkbox"/>	21 <input type="checkbox"/>	21 <input type="checkbox"/>

TAKE BACK EXHIBIT 84

DON'T KNOW 96 96 96 96

ASK EVERYONE

HAND RESPONDENT EXHIBIT 85/87

306-907-09

85. Did you or other members of your household own or have the regular use of any vehicles a year ago -- or anytime in the past 12 months -- that you don't have now (that you traded or sold or disposed of in some other way) -- such as cars, trucks, vans, motorcycles, mopeds, or similar vehicles?

- 1 YES 811
- 0 NO -- SKIP TO Q. 95 --
TAKE BACK EXHIBIT 85/87

IF "YES," ASK:

86. How many vehicles did you or other members of your household have in the past 12 months that you don't have now?

- 1 ONE 812
- 2 TWO
- 3 THREE OR MORE

87. Which type(s) did you have?
(IF HOUSEHOLD HAD MORE THAN TWO VEHICLES, MARK ANSWERS FOR THE TWO USED MOST.)

	VEHICLE NUMBER	
	1	2
	913-914	943-946
STATION WAGON	01 <input type="checkbox"/>	01 <input type="checkbox"/>
AUTOMOBILE	02 <input type="checkbox"/>	02 <input type="checkbox"/>
JEEP OR SIMILAR VEHICLE	03 <input type="checkbox"/>	03 <input type="checkbox"/>
PASSENGER VAN OR MINIBUS	04 <input type="checkbox"/>	04 <input type="checkbox"/>
CARGO VAN	05 <input type="checkbox"/>	05 <input type="checkbox"/>
PICKUP TRUCK	06 <input type="checkbox"/>	06 <input type="checkbox"/>
OTHER TRUCK	07 <input type="checkbox"/>	07 <input type="checkbox"/>
MOTOR HOME	08 <input type="checkbox"/>	08 <input type="checkbox"/>
MOTORCYCLE	09 <input type="checkbox"/>	09 <input type="checkbox"/>
MOPED/MOTORIZED BICYCLE	10 <input type="checkbox"/>	10 <input type="checkbox"/>
OTHER (SPECIFY):	21 <input type="checkbox"/>	21 <input type="checkbox"/>

88. Please tell me the make and model year (of each one). (ENTER LAST TWO DIGITS OF MODEL YEAR.)

	915-916	945-946
MAKE		
	917-918	947-948
MODEL YEAR	19 _____	19 _____
	919-920	949-950
MODEL NAME		

89. What was the model name?

TAKE BACK EXHIBIT 85/87

IF "YES" ON Q. 85 (CONTINUED):

ASK Q's. 90-94 FIRST ABOUT FIRST VEHICLE, THEN SECOND.

90. How many miles per gallon did it get in local driving, just approximately?

MILES PER GALLON
DON'T KNOW

91. In what month and year did you dispose of it?

MONTH
YEAR

92. Just approximately, how many miles was it driven between this time a year ago and the time you disposed of it?

MILES
DON'T KNOW

93. Was it used on-the-job, that is, for any reason other than for going to or from work by anyone in your household?

YES
NO

IF "YES," ASK:

94. About how many miles were driven on-the-job between this time a year ago and the time you disposed of it?

MILES
DON'T KNOW

VEHICLE NUMBER

	1	2
	921-922	951-952
	[]	[]
	923-925	953-955
	197__	197__
	926-930	956-960
	[]	[]
	931	961
	1 []	1 []
	0 []	0 []
	932-936	962-966
	[]	[]

95. Now I have some questions about the people who live here. Please tell me who they are, just in relation to you (if they are related to you), and their ages on their last birthdays. Please begin with yourself.

1006-1007:10

RELATIONSHIP TO RESPONDENT	SEX		AGE	Q.100-EMPLOYMENT (AGE 14+)			
	FEMALE	MALE		FULL TIME	PART TIME	NOT EMPLOYED	
RESPONDENT	1 <input type="checkbox"/>	2 <input type="checkbox"/>		1 <input type="checkbox"/>	2 <input type="checkbox"/>	0 <input type="checkbox"/>	1011-1016
	1 <input type="checkbox"/>	2 <input type="checkbox"/>		1 <input type="checkbox"/>	2 <input type="checkbox"/>	0 <input type="checkbox"/>	1021-1026
	1 <input type="checkbox"/>	2 <input type="checkbox"/>		1 <input type="checkbox"/>	2 <input type="checkbox"/>	0 <input type="checkbox"/>	1031-1036
	1 <input type="checkbox"/>	2 <input type="checkbox"/>		1 <input type="checkbox"/>	2 <input type="checkbox"/>	0 <input type="checkbox"/>	1041-1046
	1 <input type="checkbox"/>	2 <input type="checkbox"/>		1 <input type="checkbox"/>	2 <input type="checkbox"/>	0 <input type="checkbox"/>	1051-1056
	1 <input type="checkbox"/>	2 <input type="checkbox"/>		1 <input type="checkbox"/>	2 <input type="checkbox"/>	0 <input type="checkbox"/>	1061-1066
	1 <input type="checkbox"/>	2 <input type="checkbox"/>		1 <input type="checkbox"/>	2 <input type="checkbox"/>	0 <input type="checkbox"/>	1071-1076
	1 <input type="checkbox"/>	2 <input type="checkbox"/>		1 <input type="checkbox"/>	2 <input type="checkbox"/>	0 <input type="checkbox"/>	1106-1107:11 1111-1116
	1 <input type="checkbox"/>	2 <input type="checkbox"/>		1 <input type="checkbox"/>	2 <input type="checkbox"/>	0 <input type="checkbox"/>	1121-1126
	1 <input type="checkbox"/>	2 <input type="checkbox"/>		1 <input type="checkbox"/>	2 <input type="checkbox"/>	0 <input type="checkbox"/>	1131-1136
	1 <input type="checkbox"/>	2 <input type="checkbox"/>		1 <input type="checkbox"/>	2 <input type="checkbox"/>	0 <input type="checkbox"/>	1141-1146
	1 <input type="checkbox"/>	2 <input type="checkbox"/>		1 <input type="checkbox"/>	2 <input type="checkbox"/>	0 <input type="checkbox"/>	1151-1156

I have listed (READ RELATIONSHIPS FROM Q. 95 ABOVE).
Have I missed ...

1157-1158

96. Any babies or small children? YES (ADD TO LISTING)
 NO
97. Any lodgers, boarders, or persons in your employ who live here? YES (ADD TO LISTING)
 NO
98. Anyone who usually lives here but is away traveling or in the hospital? (PERSONS WHO ARE NORMALLY MEMBERS OF THE HOUSEHOLD BUT WHO ARE NOW LIVING AWAY FROM HOME [E.G., COLLEGE STUDENTS OR MEMBERS OF THE ARMED FORCES] SHOULD NOT BE LISTED.) YES (ADD TO LISTING)
 NO
99. Anyone else staying here who does not have a regular residence elsewhere? YES (ADD TO LISTING)
 NO

FOR EACH PERSON 14 YEARS OLD OR OLDER, ASK:

100. Is he/she employed full time (30 hours or more per week), part time, or not employed?

MARK ANSWER; ASK IF NECESSARY.

101. Are you now married, widowed, divorced, separated, or have you never been married? 1 NOW MARRIED
 2 WIDOWED 1159
 3 DIVORCED OR SEPARATED
 4 NEVER MARRIED
102. What is your race? 1 WHITE
 2 BLACK OR NEGRO 1160
 5 OTHER (SPECIFY):

103. Does another family share your home here with you? 1 YES 1161
 0 NO

INTERVIEWER: IF ANOTHER FAMILY SHARES THE SAME HOUSING UNIT, MEMBERS SHOULD BE LISTED IN HOUSEHOLD COMPOSITION TABLE ON PRECEDING PAGE.

IF ANOTHER FAMILY HAS A SEPARATE APARTMENT THAT IS DEFINED BY OUR RULES AS A SEPARATE HOUSING UNIT, THE ADDITIONAL HOUSING UNIT SHOULD BE LISTED ON YOUR HOUSING UNIT ADDRESS LIST FOR THIS LOCATION. SEE SAMPLING INSTRUCTIONS TO SEE WHETHER AN ADDITIONAL INTERVIEW SHOULD BE COMPLETED.

104. How many members of your household can drive a car? NUMBER OF DRIVERS: 1162-
 00 NONE 1163

I have just a few questions for background statistical purposes.

105. What is the highest grade (or year) you attended in school?

- 00 NEVER ATTENDED SCHOOL
- 01 FIRST 07 SEVENTH
- 02 SECOND 08 EIGHTH
- 03 THIRD 09 NINTH
- 04 FOURTH 10 TENTH
- 05 FIFTH 11 ELEVENTH
- 06 SIXTH 12 TWELFTH
- 1164-
1165
- COLLEGE (ACADEMIC YEARS)
- 13 C1 16 C4
- 14 C2 17 C5
- 15 C3 18 C6 OR MORE

106. Did you finish that grade (or year)?

- 1 YES
- 0 NO
- 1166

IF RESPONDENT IS MARRIED, ASK:

107. What is the highest grade (or year) that your (husband/wife) attended in school?

- 00 NEVER ATTENDED SCHOOL
- 01 FIRST 07 SEVENTH
- 02 SECOND 08 EIGHTH
- 03 THIRD 09 NINTH
- 04 FOURTH 10 TENTH
- 05 FIFTH 11 ELEVENTH
- 06 SIXTH 12 TWELFTH
- 1167-
1168
- COLLEGE (ACADEMIC YEARS)
- 13 C1 16 C4
- 14 C2 17 C5
- 15 C3 18 C6 OR MORE

108. Did (he/she) finish that grade (or year)?

- 1 YES
- 0 NO
- 1169

HAND RESPONDENT EXHIBIT 109

109. Now let's look at this list of income groups. Please tell me which group letter best describes the total combined income in 1977 of all members of your family living here, from all sources -- wages, dividends, social security, and so forth -- before taxes and deductions.

CIRCLE LETTER FOR INCOME GROUP

01 - A UNDER \$3,000	09 - I \$25,000 - \$29,999
02 - B \$3,000 - \$4,999	10 - J \$30,000 - \$34,999
03 - C \$5,000 - \$7,999	11 - K \$35,000 - \$39,999
04 - D \$8,000 - \$9,999	12 - L \$40,000 - \$44,999
05 - E \$10,000 - \$11,999	13 - M \$45,000 - \$49,999
06 - F \$12,000 - \$14,999	14 - N \$50,000 OR OVER
07 - G \$15,000 - \$19,999	96 <input type="checkbox"/> DON'T KNOW
08 - H \$20,000 - \$24,999	97 <input type="checkbox"/> REFUSED

1170-
1171TAKE BACK EXHIBIT 109

110. Do you or members of your household own your home here or do you rent?

1 OWN (BUYING)
2 RENT 1172
3 OCCUPIED WITHOUT PAYMENT OF RENT

IF "OWN (BUYING)," ASK:

111. Is this house (apartment) part of a condominium or cooperative building or development?

1 YES, CONDOMINIUM
2 YES, COOPERATIVE 1173
0 NO

HAND RESPONDENT EXHIBIT 112

112. How much do you think this property, that is, (house and lot/condominium/cooperative) would sell for on today's market? Just give me the letter.

CIRCLE LETTER FOR GROUP

01 - A LESS THAN \$10,000	07 - G \$80,000 - \$99,999
02 - B \$10,000 - \$19,999	08 - H \$100,000 - \$149,999
03 - C \$20,000 - \$29,999	09 - I \$150,000 - \$199,999
04 - D \$30,000 - \$39,999	10 - J \$200,000 - \$249,999
05 - E \$40,000 - \$59,999	11 - K \$250,000 OR MORE
06 - F \$60,000 - \$79,999	96 <input type="checkbox"/> DON'T KNOW
	97 <input type="checkbox"/> REFUSED

1174-
1175TAKE BACK EXHIBIT 112IF "RENT" ON Q. 110, ASK:

113. What is the monthly rent of your house/apartment? \$ _____ .00 PER MONTH 1176-
1179
 OCCUPIED WITHOUT PAYMENT

IF RENT IS NOT PAID BY THE MONTH, NOTE IN THE SPACE BELOW THE TIME PERIOD COVERED, AND THE AMOUNT PAID PER TIME PERIOD.

TIME PERIOD COVERED: _____

AMOUNT PAID PER TIME PERIOD: \$ _____ .00

114. We may have covered some of these points before, but just to be sure, please look at this exhibit and tell me whether these fuels are used here in your household.

	USED	NOT USED	PAID BY HOUSEHOLD	INCLUDED IN RENT	OTHER (SPECIFY)	
<u>ELECTRICITY</u>						
a. FOR LIGHTING AND OTHER APPLIANCES	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1211-1212
b. FOR COOKING	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1213-1214
c. FOR HOT WATER	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1215-1216
d. FOR HEATING YOUR HOME	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1217-1218
e. FOR AIR-CONDITIONING (CENTRAL OR WINDOW/WALL UNITS)	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1219-1220
<u>GAS FROM UNDERGROUND PIPES SERVING YOUR NEIGHBORHOOD</u>						
f. FOR COOKING	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1221-1222
g. FOR OTHER APPLIANCES (INCLUDE OUTSIDE GAS LIGHT HERE)	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1223-1224
h. FOR HOT WATER	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1225-1226
i. FOR HEATING YOUR HOME	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1227-1228
j. FOR CENTRAL AIR-CONDITIONING	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1229-1230
<u>GAS, LPG (BOTTLED OR TANK GAS)</u>						
k. FOR COOKING	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1231-1232
l. FOR OTHER APPLIANCES	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1233-1234
m. FOR HOT WATER	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1235-1236
n. FOR HEATING YOUR HOME	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1237-1238
o. FOR CENTRAL AIR-CONDITIONING	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1239-1240
<u>FUEL OIL</u>						
p. FOR HOT WATER	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1241-1242
q. FOR HEATING YOUR HOME	1 <input type="checkbox"/>	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	5 <input type="checkbox"/>	1243-1244

FOR EACH USE OF EACH FUEL, ASK:

115. Is that paid for by your household, included in your rent, or do you get it some other way? _____

IF ANY FUEL BILLS ARE PAID BY HOUSEHOLD, ASK:

116. Do any of your household fuel bills include charges for fuel used for purposes other than for your own living quarters? For example, do any of your fuel bills include fuel used for farm equipment, or for a business of any kind, or for the living quarters of another household?

1 YES 1245
0 NO

IF "YES," ASK:

117. What is included in the household bills? (DESCRIBE IN DETAIL.)

1246-1247

IF HOUSEHOLD PAYS FOR FUEL OIL, ASK:

118. About how many deliveries of fuel oil does your household usually get in a year? NUMBER OF FUEL OIL DELIVERIES: 1258-1259
 LIVED HERE LESS THAN 1 YEAR
119. Did you buy fuel oil for this house (apartment) in the past 12 months from one company, or from more than one company? 1 ONE COMPANY 1260
 2 MORE THAN ONE COMPANY
- IF "MORE THAN ONE," ASK:
120. How many different companies? 2 TWO
 3 THREE 1261
 4 FOUR OR MORE

IF HOUSEHOLD PAYS FOR LPG, ASK:

121. About how many deliveries of LPG does your household usually get in a year? NUMBER OF LPG DELIVERIES: 1262-1263
 LIVED HERE LESS THAN 1 YEAR
122. Did you buy LPG for this house (apartment) in the past 12 months from one company, or from more than one company? 1 ONE COMPANY 1264
 2 MORE THAN ONE COMPANY
- IF "MORE THAN ONE," ASK:
123. How many different companies? 2 TWO
 3 THREE 1265
 4 FOUR OR MORE

IF HOUSEHOLD PAYS FOR ELECTRICITY AND/OR GAS AND/OR FUEL OIL

124. In addition to the types of fuel you use, we are interested in the quantities used, and in the amount that people pay for electricity, gas, and fuel oil in different parts of the United States.

I have a form that would authorize the companies that supply your household to provide that information to Response Analysis Corporation.

Since this study is being done nationwide, it will give a good picture of the differences in fuel cost and use all over the country. The information is needed to help establish important national energy policies.

INTERVIEWER: REMOVE PERFORATED FORM AND HAND TO RESPONDENT. EITHER YOU OR RESPONDENT SHOULD FILL IN THE NAMES OF COMPANIES. IF MORE THAN ONE LPG OR FUEL OIL COMPANY HAS BEEN USED SINCE OCTOBER 1, 1977, FILL IN ADDITIONAL COMPANY NAMES ON OTHER SIDE OF FORM. PLEASE PRINT.

- 1 AUTHORIZATION FORM COMPLETED
 0 AUTHORIZATION FORM NOT COMPLETED -- INTERVIEWER, EXPLAIN BELOW:

1266

CONTINUE ON INSIDE BACK COVER TO COMPLETE INTERVIEW.

--	--



U.S. DEPARTMENT OF ENERGY SURVEY

**Authorization Form for
Residential Energy Consumption Survey**

I hereby give permission to the company (companies) below to provide information to Response Analysis Corporation for confidential use in connection with their survey for the U.S. Department of Energy.

This authorization covers use of fuels (electricity, natural gas or LPG, or fuel oil) by my household from October 1, 1977 through March 31, 1979, including:

- 1) the total amount of fuels used by my household.
- 2) the total price charged for fuels used by my household.

Companies are authorized to provide this information by monthly periods or by delivery date, whichever applies.

A photocopy of this authorization may be accepted with the same authority as the original.

Signature: _____

Date: _____

PLEASE PRINT

YOUR NAME		
ADDRESS		APT. NO.
CITY OR POST OFFICE	STATE	ZIP CODE
TELEPHONE		
AREA CODE: _____		NUMBER: _____

**PLEASE COMPLETE ONE BLOCK BELOW FOR EACH FUEL USED BY YOUR HOUSEHOLD
(IF MORE THAN ONE SUPPLIER OF A PARTICULAR FUEL, USE THE OTHER SIDE OF THIS SHEET)**

ELECTRICITY →

PRINT FULL NAME OF ELECTRIC COMPANY	
LOCATION OF COMPANY (IF KNOWN) - CITY AND STATE	
TELEPHONE	
AREA CODE: _____	NUMBER: _____

GAS →

from underground pipes
or LPG (bottled or tank gas)

PRINT FULL NAME OF GAS COMPANY	
LOCATION OF COMPANY (IF KNOWN) - CITY AND STATE	
TELEPHONE	
AREA CODE: _____	NUMBER: _____

FUEL OIL →

PRINT FULL NAME OF OIL COMPANY	
LOCATION OF COMPANY (IF KNOWN) - CITY AND STATE	
TELEPHONE	
AREA CODE: _____	NUMBER: _____

REMOVE FROM CATEGORY OF CONFIDENTIAL

GAS
LPG (bottled
or tank gas)

SECOND GAS COMPANY

PRINT FULL NAME OF GAS COMPANY
LOCATION OF COMPANY (IF KNOWN) -- CITY AND STATE
TELEPHONE AREA CODE: _____ NUMBER: _____

THIRD GAS COMPANY

PRINT FULL NAME OF GAS COMPANY
LOCATION OF COMPANY (IF KNOWN) -- CITY AND STATE
TELEPHONE AREA CODE: _____ NUMBER: _____

FUEL OIL

SECOND FUEL OIL COMPANY

PRINT FULL NAME OF OIL COMPANY
LOCATION OF COMPANY (IF KNOWN) -- CITY AND STATE
TELEPHONE AREA CODE: _____ NUMBER: _____

THIRD FUEL OIL COMPANY

PRINT FULL NAME OF OIL COMPANY
LOCATION OF COMPANY (IF KNOWN) -- CITY AND STATE
TELEPHONE AREA CODE: _____ NUMBER: _____

INTERVIEWER: SEE Q's. 114-115. IF COST OF ANY FUEL(S) USED BY HOUSEHOLD IS INCLUDED IN RENT,
ASK Q. 125.

125. We may be getting some additional information about fuels used in this building (house). May I have the name of the person or company to whom you pay rent?

NAME: _____

TELEPHONE NUMBER: (AREA CODE: _____) _____

STREET ADDRESS: _____

CITY OR TOWN/STATE/ZIP CODE: _____

ASK EVERYONE

126. For interview verification purposes, may I have your name and phone number, please?

RESPONDENT'S NAME: _____

TELEPHONE NUMBER: (AREA CODE: _____) _____

Thank you very much for your help.

TIME INTERVIEW COMPLETED: _____	LENGTH OF INTERVIEW: _____ MINUTES
---------------------------------	------------------------------------

INTERVIEWER'S SIGNATURE: _____ DATE: _____

GLOSSARY

Air Conditioning is cooling air by a refrigeration unit. It does not include fans, blowers, or evaporative cooling systems which are not connected to a refrigeration unit.

Air conditioning units which are not currently in working condition or not used, but are in place in the housing unit, are included.

Billing Period refers to the time between meter readings. It does not refer to the time the bill was sent or when the payment was to have been received. In some cases, the billing period is the same as the billing cycle which corresponds closely (within several days) to meter reading dates. For fuel oil and LPG, the billing period is the number of days between fuel deliveries.

Building with 5 or More Housing Units contains living quarters for 5 or more separate households or families.

Built-in Electric Units. Individual resistance electric heating units are permanently installed in the floors, walls, ceilings, or baseboards, and are part of the electrical installation of the building. Electric heating devices that are plugged into an electric socket or outlet are not considered built-in.

Caulking around windows or doors whether in a heated part of the house or an unheated part, such as an attic or basement. Caulking can be done from the inside or outside of the house. Caulking done by the previous owner or caulking done to the respondent's previous home is not included.

Central Warm Air Furnace with Ducts to Individual Rooms. A central furnace provides warm forced air through ducts leading to various rooms. Electric heat pumps are not included in this category.

Condominium Ownership. A condominium is a type of ownership that enables a person to own an apartment or house in a project of similar units. The owner has his or her own deed and, very likely, has a mortgage on the unit. The owner also holds common or joint ownership in all common areas such as hallways, entrances, and elevators.

Condominium ownership may cover single-family houses, row houses, townhouses, as well as apartments.

Conservation Efforts undertaken by respondents or respondent's family in the housing unit the family occupies. Efforts undertaken by a landlord are not included. Changes made before the respondent moved in are not included.

Continuous Cleaning Oven has a system that automatically dissolves any buildup as it occurs.

Cooling Degree Days are the number of degrees the daily average temperature is above 65 degrees Fahrenheit. Normally cooling is not required in a building when the outdoor average daily temperature is below 65 degrees. Cooling degree days are determined by subtracting the base of 65 from the daily average temperature. For example, a day with an average temperature of 85 degrees has 20 cooling degree days ($85-65=20$), while one with an average temperature of 65 degrees or lower has none.

Doors that go outside or to an unheated area, such as an unheated porch, garage, attic, or basement, are included. Doors to a heated hallway in an apartment building or permanently sealed doors are not included. Double doors are counted as one door.

Education--Highest Grade Attended includes attendance at graded public, private, or parochial schools, colleges, universities, or professional schools, whether day or night school. Only schooling which advances a person toward an elementary or high school diploma, or a college, university, or professional school degree is included. Other schooling is included only if the credits obtained are acceptable in the regular school system.

Persons who have attended "post graduate" high school courses after completing high school, but have not attended college, are considered to be "Twelfth" grade graduates.

Persons who have attended more than four years of college, or who have attended professional schools (law, medicine, or dentistry, for example) are considered to have a college education plus graduate or professional schooling after completion of four years of college.

The equivalent grade of the regular American school system is assumed for a person who obtained his formal education through other systems.

For persons who skip or repeat grades, the highest grade attended is accepted.

Electric Heat Pump (Reverse Cycle System). A heat pump is a year-round heating-air-conditioning system in which refrigeration equipment supplies both heating and cooling through ducts leading to individual rooms. It generally consists of a compressor, both indoor and outdoor coils, and a thermostat. Heat pumps using any fuel other than electricity are excluded.

Electricity refers to electric power supplied by a central utility to a residence via underground or above ground power lines. It does not refer to electricity generated on site for the exclusive use of the residence. In this case, the fuel used for the generator will be indicated.

Eligibility for Tax Credit. A household was eligible if the house was substantially completed prior to April 20, 1977, and the items were installed on or after April 20, 1977.

Estimated Bill is calculated by the fuel supplier when the meter is not read. The estimate may be based on one or more of the following factors: past usage of the household, usage of similar households, weather data.

Family Income includes wages, salaries, tips, commissions, social security, pensions, interest, dividends, rent, public assistance, unemployment insurance benefits, and the like. Income is calculated before taxes and deductions. Income is obtained for all members of the family who lived in the household in 1977, regardless of whether they were living there at the time of the interview. Income of nonfamily members of the household is not included.

Fireplaces or Heating Stoves that burn wood or coal are included.

Floor, Wall, or Pipeless Furnace. A floor furnace is located below the floor and delivers heated air to the room immediately above or, if under a partition, to the room on each side.

A wall furnace is installed in a partition or in an outside wall and delivers heated air to the rooms on one or both sides of the wall.

A pipeless furnace is installed in a basement and delivers heated air through a large register in the floor of the room or hallway immediately above.

Fuels refers to primary delivered fuel at the residential site. It may be converted at the site to some other energy form.

Fuel Oil is any grade fuel oil which might be burned by the dwelling for space heating or water heating purposes.

Head of Household. If the respondent was married and living with his or her spouse, the male was considered to be the head of the household. Otherwise, the respondent was the head of the household.

Heating Degree Days are the number of degrees the daily average temperature is below 65 degrees Fahrenheit. Normally, heating is not required in a building when the outdoor average daily temperature is above 65 degrees. Heating degree days are determined by subtracting the average daily temperature below 65 degrees from the base 65. For example, a day with an average temperature of 50 degrees has 15 heating degree days ($65-50=15$), while one with an average temperature of 65 or higher has none.

Home-Owner/Renter. Own means the owner or co-owner is a household member of the unit, even if the unit is mortgaged or not fully paid for. Own/rent refers to the structure itself, not the land on which it is located.

Hot Water Pipes Running Through a Slab Floor. A central radiant system supplies hot water to pipes inlaid in concrete.

House or Building with Two to Four Housing Units is divided into living quarters for two, three, or four families or households. This category also includes houses originally intended for occupancy by one family or for some other use, but have since been converted to a separate dwelling for two to four families. Typical arrangements in these types of living quarters are separate apartments, downstairs and upstairs, or one apartment on each of three or four floors.

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

Household Appliances. The following appliances are included if they are used in the home: refrigerator, cooking appliances (small electric appliances, oven, range, or grill), washing machine, dishwasher, freezer, dryer, outdoor gas-light. Air conditioning units are included whether or not they are used or are in working order.

Housing Unit is a structure or part of a structure where a household (family or individual) lives or could live. It has a separate entrance from the outside or from a common hall or lobby, or it has cooking facilities for the exclusive use of the occupants. Housing units do not include group quarters such as prisons, hospitals, dormitories, nursing homes, fraternity houses or convents. Hotel rooms, motel, mobile homes, or trailers are considered housing units if occupied.

Insulation is any material which, when placed between the interior of the dwelling and the outdoor environment, reduces the rate of heat (cold) loss to the environment.

Blankets or Batts--Rolls or Pieces are nailed or stapled between the roof rafters.

Foam is initially a liquid that solidifies after being sprayed on a surface or poured into a cavity to be insulated.

Loose Fill or Blown Material is loose insulation which is poured between the attic floor joists (beams) or blown into open spaces.

Plastic Foam Boards are rigid boards (such as styrofoam), that can be cut to size and either edged, nailed, or glued in place.

Insulation Added, Equipment Added does not include additions that were in the process of being completed but were not completed at the time of the survey.

Kerosene is a distilled product of oil or coal with the generic name kerosene and used for space heating, water heating, cooking, or lighting.

LPG or Liquid Petroleum Gas is any fuel gas supplied to a residence in liquid form. It is usually delivered by tank truck and stored near the residence in a tank or cylinder until used. Propane and butane are liquified petroleum gases.

Metropolitan refers to locations within Standard Metropolitan Statistical Areas as defined in the 1970 Census.

Migratory Housing Unit is intended for occupancy by migratory workers employed in farm work during the crop season.

Mobile Home or Trailer is a structure which has all the facilities of a dwelling unit, but is built on a movable chassis. It may be placed on a permanent or temporary foundation and contain one or more rooms. Even if additional rooms are added to the structure, it is still considered a mobile home.

Monthly Rent is rent paid for the sample unit only. If the rent actually paid by the household includes rent for a business unit or for living quarters occupied by others, that part of the total rent which the respondent estimates to be for his/her own unit only is reported.

The rent paid or scheduled to be paid to the landlord or rental agent is reported, without deduction for any payments received from lodgers or roomers, or for the cost of any furniture, utilities, or service provided by the landlord. Any part of the rent that may be paid by friends or relatives living elsewhere, a church, Government agency, or similar organizations is not deducted.

Natural Gas is utility gas supplied by pipeline to individual housing units by a central utility company. It does not refer to privately owned gas wells operated by the household.

Number of Floors includes floors for all areas used as year-round living space. Unfinished areas used for workrooms, utility rooms, or laundry rooms are not included. Finished attics or basements are included. If the attic or basement is partially finished and the finished part is used as living space on a year-round basis, the area is counted as one-half floor. The basement level of an apartment building is not counted. Any level of a house that is more than one-half the length and width of the house is one floor. Any level that is less, is one-half floor.

Number of Rooms. Whole rooms are rooms such as living rooms, dining rooms, bedrooms, kitchens, lodger's rooms, finished basements, or attic rooms, recreation rooms, and permanently enclosed sun porches which are used year-round. Rooms used for offices by a person living in the unit are included.

Bathrooms, halls, foyers, or vestibules, balconies, closets, alcoves, pantries, strip or pullman kitchens, laundry or furnace rooms, unfinished attics or basements, open porches and unfinished space used for storage are not included.

A partially divided room, such as a dinette next to a kitchen or living room, is a separate room only if there is a partition from floor to ceiling, but not if the partition consists solely of shelves or cabinets. If a room is used by occupants of more than one unit, the room is included with the unit from which it is most easily reached.

Rooms are counted as year-round living space if they are completely enclosed from the outside with permanently installed walls, windows, and roof and can be heated.

Occupied Housing Unit is occupied if someone was living in it as his or her usual or permanent place of residence at the time of the first field contact.

Plastic Coverings are placed over the doors or windows on either the outside or inside of the house. Plastic coverings installed by previous occupants of the housing unit or installed in the respondent's previous home are not included.

Poor. The following definition of poor was used based on family income and the number of persons in the household.

<u>Household Size</u>	<u>Income Range</u>
1	less than \$ 3,000
2	less than \$ 4,999
3	less than \$ 4,999
4	less than \$ 7,999
5	less than \$ 7,999
6	less than \$ 9,999
7 or more	less than \$11,999

Portable Room or Space Heaters can be picked up and moved. Included are electric heaters that get current through a cord plugged into an electrical wall outlet.

Property Value for Owned Property consists of the entire building in which the owner lives, the land on which it stands, and any additional buildings such as garages on the same plot of land. The value of the land is included whether or not the land is on the same plot owned or owned jointly.

Race. The interviewer determines the race of the respondent by observation only.

Refrigerator. A "temperature control" is usually a dial with a range such as 1 to 10 which designates the temperature range one can select inside the refrigerator.

Automatic Defrost--defrosts automatically after the frost builds up (catch pan must be emptied).

Automatic Ice Maker is a device in the freezer section of the refrigerator which is connected to the household water supply. It has a valve which regulates the amount of water taken in to be made into ice cubes.

Automatic Ice-Water Dispenser is connected to the household water supply. It has a valve which regulates the amount of water taken in for a constant supply of cold water.

Energy Saver Switch (anti-sweat) is a control which raises the temperature inside the refrigerator. It saves energy when the humidity is high and water is condensing on the inside walls of the refrigerator.

Extra Insulation in Walls or Doors is featured in some new refrigerators. The extra insulation retains the cold air and makes the refrigerator more energy efficient.

Full Frost-Free--frost does not build up.

Manual Defrost--freezer section or ice cube section must be defrosted periodically.

Room Heaters with Flue or Vent. Circulating heaters, convectors, radiant gas heaters, other nonportable room heaters that burn gas, oil, kerosene, or other liquid fuel, and are connected to a flue, vent, or chimney to remove smoke and fumes.

Room Heaters without Flue. Nonportable room heaters that burn gas, oil, or kerosene which are not connected to a flue, vent, or chimney.

Room(s) Closed Off During Winter includes households that completely close off one or more rooms for a week or longer. A room is closed off if the door to the room is closed and the heat in that room is turned down, regardless of whether any heat from surrounding rooms can be felt.

Rural refers to nonurban areas.

Seasonal Housing Unit is intended for occupancy only at certain seasons of the year. Seasonal units include those intended for recreational use, for example, beach cottages and hunting cabins that have not been converted to year-round use.

Self-Cleaning Oven has a cleaning cycle that can be turned on when desired.

Single Family Housing Unit provides living space for one household or family. The structure may be detached, attached on one side (semi-detached), or attached on two sides. Attached houses are considered single family houses as long as the house itself is not divided into more than one housing unit and has an independent, outside entrance.

Solar Collectors refer to active, thermal, concentrating collectors using either air or liquid as the working fluid. They do not refer to passive collection of solar thermal energy.

Square Feet refers to the living space in the housing unit. If the respondent does not know the square footage of living space, the respondent is asked for his/her best guess. If the respondent is unable to answer, an answer is obtained, when possible, from any knowledgeable household member present at the time of the interview.

Living space includes living rooms, dining rooms, bedrooms, kitchens, lodger's rooms, finished basement and attic rooms, recreation rooms, permanently enclosed sun porches which are used year-round, bathrooms, hallways, and closets located in the living quarters. The living space does not include hallways connecting one housing unit to another or unfinished areas used for work rooms, or laundries. Rooms used by occupants of more than one unit are included in the square footage of the unit from which the room(s) is most easily reached.

Steam or Hot Water System with Radiators or Convectors. A central heating system supplying steam or hot water to conventional radiators, baseboard radiators, heating pipes embedded in the walls or ceilings, or heating coils or equipment which are part of a combined heating-ventilating or heating-air-conditioning system.

Storm Doors are made of double glass or insulating glass such as thermopane. Glass or plexiglass placed over a sliding glass door on either the exterior or interior is counted as a storm door. A plastic sheet covering the door is not a storm door.

Storm Windows are windows added to the exterior of existing windows. Windows made of double glass or insulating glass, such as thermopane, are storm windows. Glass or plexiglass placed over windows on either the exterior or interior side are included. Plastic sheets covering windows are not included.

Urban includes housing in areas of 2,500 inhabitants or more as defined in the 1970 Census.

Vacant Housing Unit is vacant if it was not occupied at the time of the first field contact. An occupied seasonal or migratory housing unit is classified as vacant at the time of the first field contact when all persons had a usual place of residence elsewhere.

Vehicles are automobiles, station wagons, passenger vans, cargo vans, motor homes, pickup trucks, other trucks, jeeps or similar vehicles, motorcycles, mopeds, and motorized bicycles.

Any motorized vehicle which is owned (being bought) by one or more members of the household is included. Company cars, trucks, taxicabs, and other motorized vehicles which are not owned by household members, but are regularly available to household members for their personal use and are ordinarily kept at home are included.

Vehicles of all members of the household, including lodgers or other nonrelatives living in the house (apartment) are included. Cars rented or leased for one month or more are included.

Not included are motorized vehicles used solely for business purposes, such as police cars or other Government-owned vehicles. Dismantled or dilapidated vehicles in an early stage or being junked, or immobile vehicles used only as a source of power for some piece of machinery are not included. Vehicles used primarily for competition or display purposes such as racing cars, stock cars, or antique cars not used as passenger automobiles are not included.

Vehicle Types. Passenger vans or minibuses which are equipped for carrying passengers and have a seating capacity of from 5 to 15 passengers.

Pickup trucks include cars with an open load area (for example, a Ford El Rancho).

A jeep or similar vehicle has 4-wheel drive and is capable of off-road operation.

The miscellaneous category contains vehicles that do not fit into any of the designated categories.

Weatherstripping around outside doors or windows.

Windows to the Outside. All windows to the outside found in year-round living space are included. Windows in the basement, attic, garage, or porch are included if those areas are heated. Each window that opens separately is counted as one window. Windows fixed in place are included. Windows in doors are not included.

Year-Round Housing Unit is occupied or intended for occupancy at any time during the year. Mobile homes or trailers are considered year-round units if they also satisfy this condition.

USE OF THE GENERALIZED VARIANCE TABLES

The following tables allow the user to estimate the standard error of estimates calculated on the National Interim Energy Consumption Survey (NIECS) data.

Standard Error of Estimated Percentages. (To be used with the "B" series of tables.) The estimated standard error or reliability of a percentage depends upon both the percentage and the base upon which the percent was calculated.

In order to use Table 1:

- o Determine how many households in the sample belong to the base that are to be considered for the characteristic. (This will be illustrated in the second example.) The appropriate row in the table is now available.
- o Using the table of estimates, determine what percentage was estimated for this characteristic. The appropriate entry in the table is now located.
- o Since these tables are based on one standard deviation, a 95 percent confidence interval (two standard deviations) would equal twice the value in the table.

Two examples follow:

- o Suppose that of the 67.5 million households, 37 percent have all doors covered with storm doors. Using the Standard Error of Percentages Table (see Table 1), the 67.5 row and 50 percent column yield a table value of 1.3 (which is an overestimate since our percent is less than 50).¹ This means that the 95 percent confidence interval is 34.4 to 39.6 (37 +2(1.3)).

¹If one wishes to obtain a more precise estimate of sampling error, interpolation of table values can be employed. The following method would be used to interpolate a value for 37 percent on a base of 67.5 million which would be between 1.1 and 1.3

$$\frac{(37-25) (1.3-1.1)}{(50-25)} + 1.1 = 1.2$$

- Now, suppose that an estimate of the percent of households in the South that have all the doors covered with storm doors is desired. The base is all households in the South, 22.3 million, and the estimated percentage is 22 percent. The proper entry in the table is 1.8 which belongs in the 25.0 million row and the 25 percent column. Our 95 percent confidence interval now is 18.4 to 25.6 (22 ± 2(1.8)).

Table 1. Standard Error of Percentages Table
(68 Chances Out of 100)

Base of Percentage (000)	Estimated Percentage									
	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	25 or 75	50			
1,000	2.1	3.0	4.6	6.3	7.5	9.2	10.6			
5,000	.9	1.3	2.1	2.8	3.4	4.1	4.7			
10,000	.7	.9	1.5	2.0	2.4	2.9	3.3			
25,000	.4	.6	.9	1.3	1.5	1.8	2.1			
50,000	.3	.4	.7	.9	1.1	1.3	1.5			
67,500	.3	.4	.6	.8	.9	1.1	1.3			

Standard Error of Estimated Counts. Linear interpolation should be used for counts not specifically shown in Table 2. An example follows:

- If the estimated count is 48,000,000, then the estimate of the standard error can be computed by linear interpolation as follows:

$$\frac{(48-45)}{(50-45)} (.76-.81) + .81 = .78$$

Standard Errors of Ratio. For ratios of the form (100) (x/y) where x is not a subclass of y, an approximation to the standard error of the ratio is given by:

$$100 \left(\frac{x}{y}\right) \sqrt{\left(\frac{\sigma_x^2}{x}\right) + \left(\frac{\sigma_y^2}{y}\right)}$$

Where x = the numerator of the ratio
 y = the denominator of the ratio
 σ_x = the standard error of the numerator
 σ_y = the standard error of the denominator

Standard Errors of Differences. The standard error of a difference between estimates is approximately equal to the square root of the sum of the squares of the standard errors considered separately.

Table 2. Standard Error of Estimated Counts

(68 Chances Out of 100)

Size of Estimate (in millions)	Standard Error (in millions)
1	.20
5	.44
10	.62
15	.71
20	.79
25	.83
30	.86
35	.86
40	.85
45	.81
50	.76
55	.67
60	.54
65	.30
67.5	.20

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