

DOE/EIA-0321/2(81)

Residential Energy  
Consumption Survey

**Energy Information Administration**  
Washington, D.C.

November 1983

# Consumption and Expenditures, April 1981 Through March 1982



Part 2:  
Regional Data



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Residential Energy  
Consumption Survey:

# Consumption and Expenditures, April 1981 Through March 1982



Part 2:  
Regional Data

Prepared by:  
Bruce Egan

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

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## Contacts

General information about EIA data on energy consumption may be obtained from David Montgomery, Director, Office of Energy Markets and End Use (202-252-1617); Lynda T. Carlson, Acting Director, Energy End Use Division (202-252-1112); and Gerald Peabody, Acting Chief, Residential and Commercial Branch (202-252-1114).

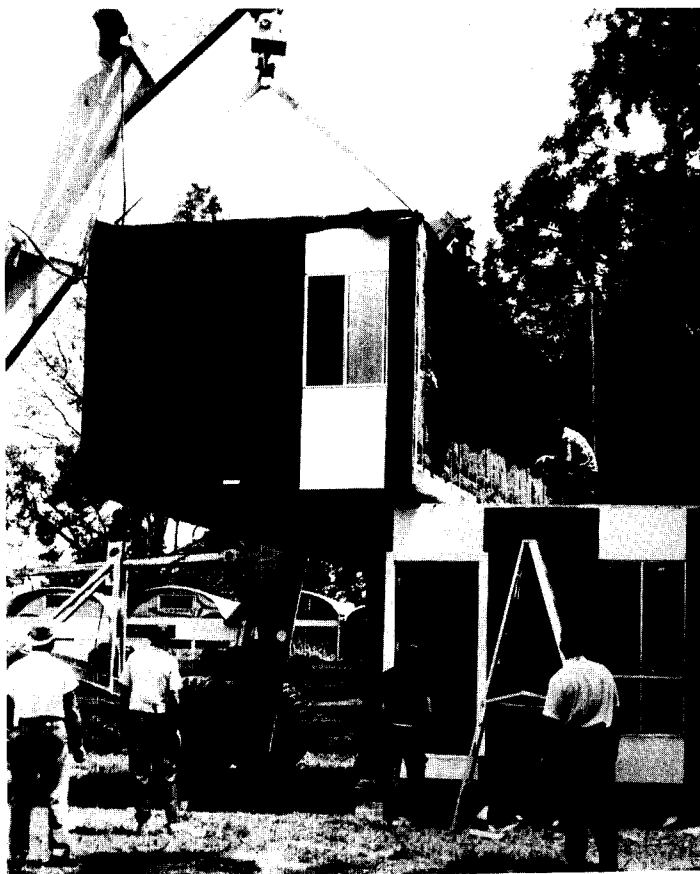
Questions concerning the contents of this report may be referred to the following people:

Report Production:	Bruce Egan	(202) 252-1129
Consultation:	Wendel Thompson	(202) 252-1119
Sampling Errors and Missing Data Imputations:	Robert Latta	(202) 252-1121
Sample Design:	Dwight French	(202) 252-1126

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For information regarding additional copies of this report, contact:

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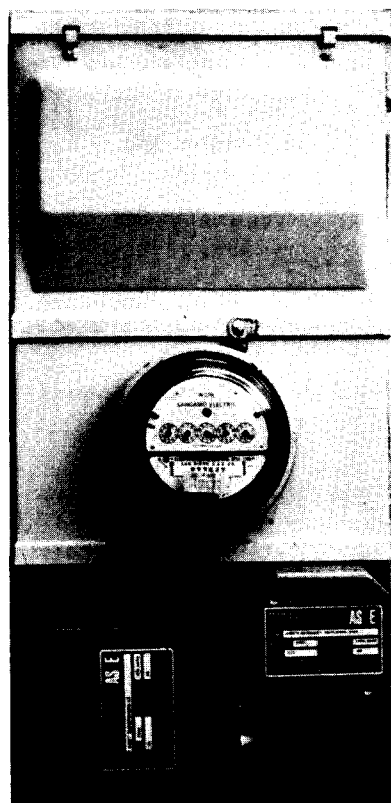
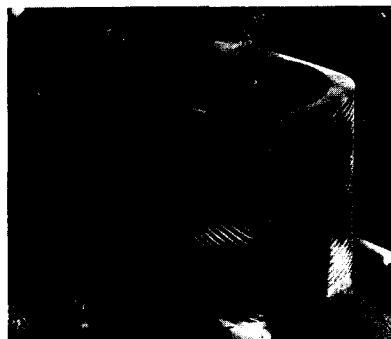
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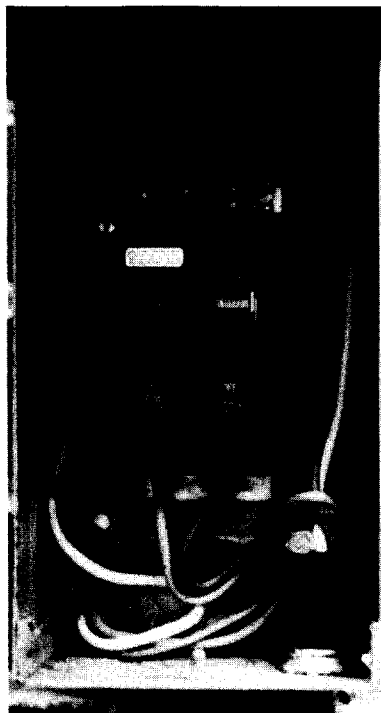
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# Summary of Findings

## Introduction



This is the third report on the 1981 Residential Energy Consumption Survey, which covers the period April 1981 through March 1982. It contains regional data on residential energy consumption and expenditures in the United States. Previous reports include Residential Energy Consumption Survey: Housing Characteristics, 1981 and Residential Energy Consumption Survey: Consumption and Expenditures, April 1981 Through March 1982, Part 1: National Data.

The 1981 survey is the latest in a series of surveys of residential energy use. The series provides a detailed 4-year record of residential energy use patterns for 1978 through 1981.<sup>1</sup> Each survey is based on a different sample of households.

This report contains data for the four Census regions and the nine Census divisions. Total and average consumption and expenditures of total and specific fuels are classified by significant energy-related characteristics of the households.

The previous report, which covered the entire United States, showed that the average household consumed about the same amount of energy in 1981 as in the preceding year. Consumption of fuel oil and kerosene continued to decline nationwide, while the consumption of electricity, natural gas, and liquefied petroleum gas remained stable.

The regional tables presented identify the type and quantity of energy consumption and expenditures in different parts of the Nation in 1981. In particular, it is interesting to note the differences, if any, within a region as well as between regions. Energy consumption and expenditure data for the three to five weather zones in each region are also included in the tables.

Due to the quantity of information contained in the tables, a selection of summary figures is presented to give the reader an overview of trends across geographic regions and weather zones. Figures 1 and 2 highlight total and average household consumption and expenditures in each of the nine Census divisions. Figures 3 through 6 present average household energy consumption and expenditures by fuel type and Census division. Figures 7 and 8 summarize average household energy consumption and expenditures by Census region and weather zone.

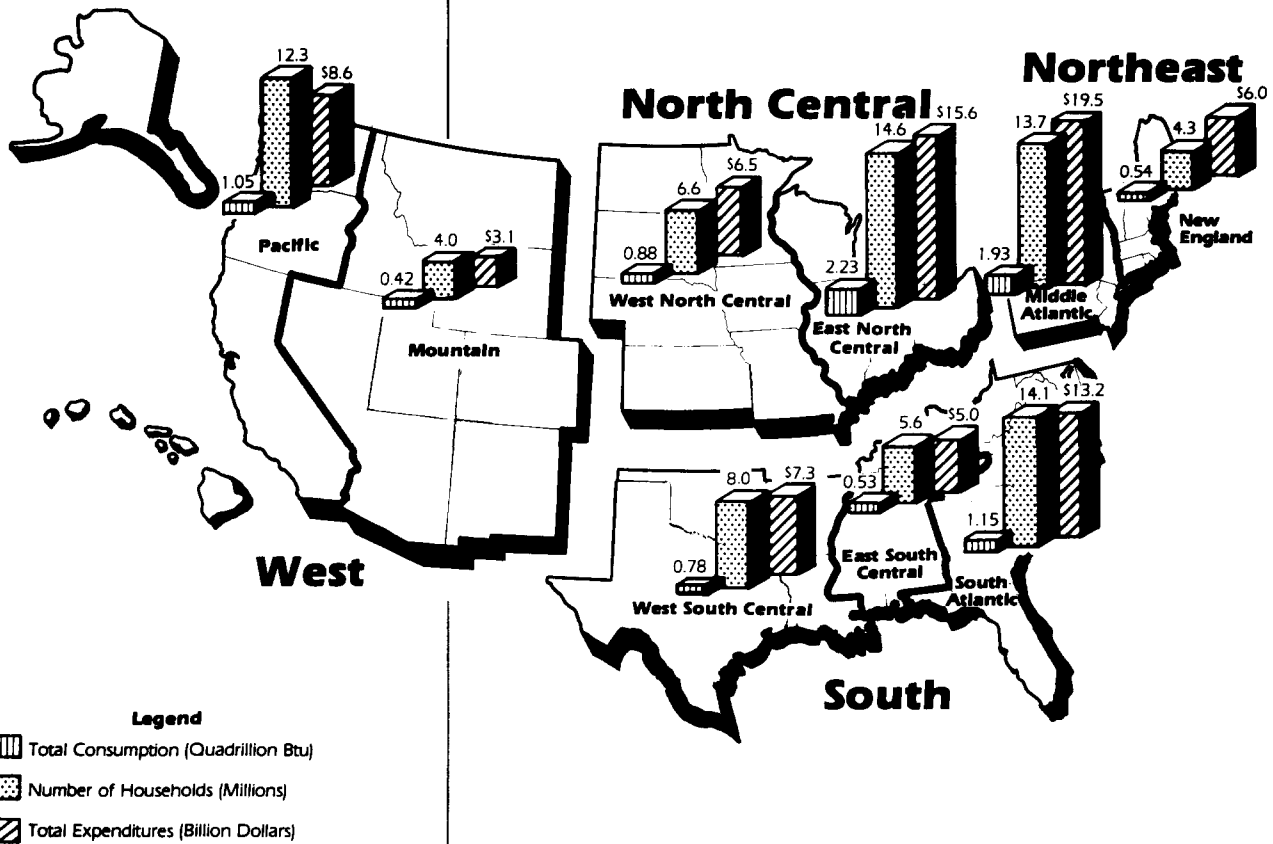
All the data shown in the figures are presented in the tables as well. Tables 1 through 3 present summary total and average consumption and expenditures for all fuels and for specific fuels. Tables 4 through 7 address each fuel individually and show consumption and expenditure data for all households using a particular fuel and for households using the fuel as their main heating fuel. These fuels and energy sources include natural gas, electricity, fuel oil or kerosene, and liquefied petroleum gas (LPG). Tables 1 through 7 are presented for the United States as a whole, for the four Census regions, and for the nine Census divisions. Table 8 presents consumption and expenditures data for wood, which, in 1980 and 1981, replaced LPG as the fourth most-used heating fuel in the Nation. Due to statistical limitations, the wood data are presented only for the United States and the four Census regions. In addition, actual relative standard errors for the wood data are presented (see Appendix C, Table C10) along with the generalized variance estimation procedures given for the other data presented in the report.

<sup>1</sup>Unless otherwise noted, 1978 refers to the period of April 1978 through March 1979, and subsequent years refer to corresponding periods.



# Summary of Findings

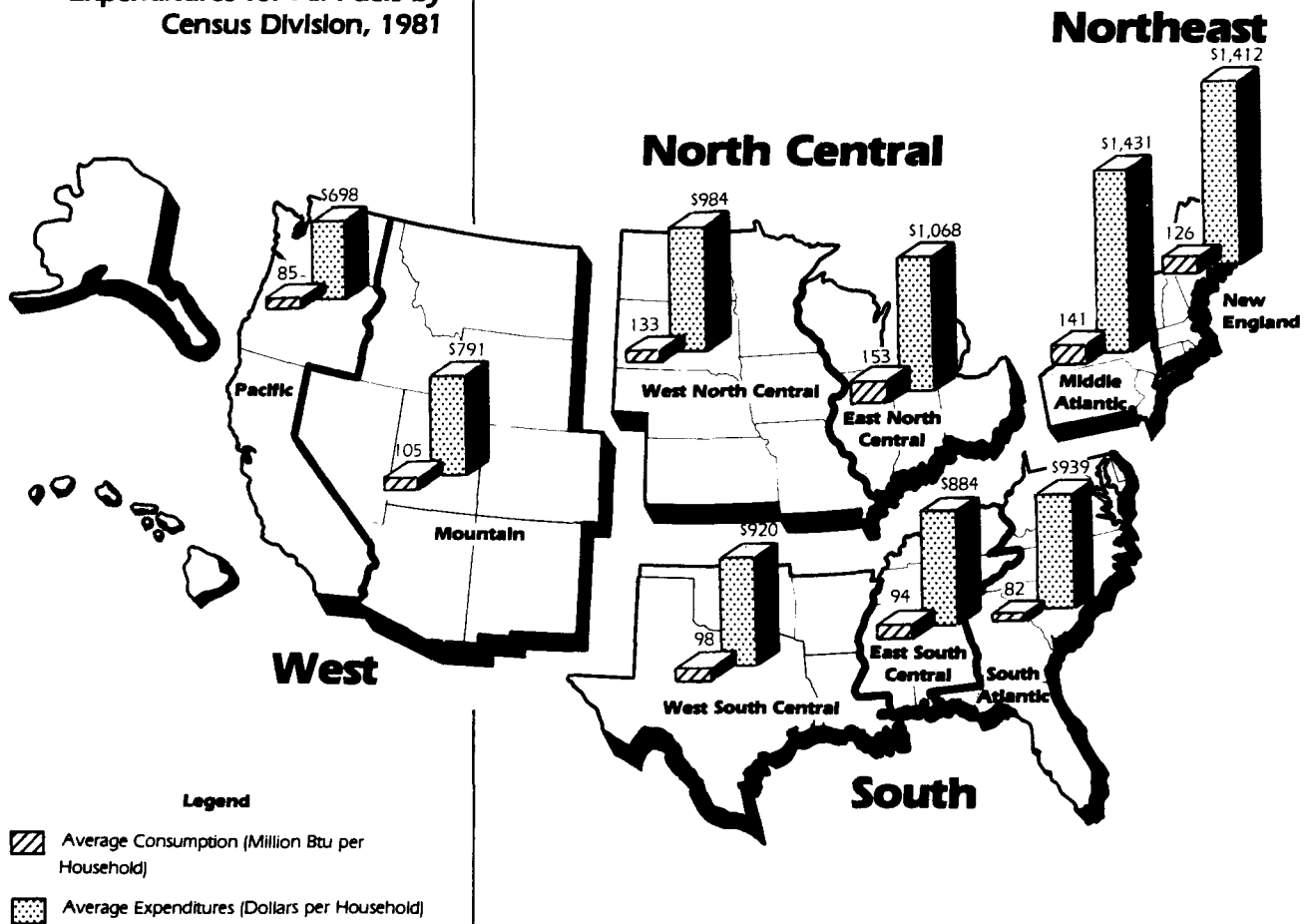
**Figure 1. Total Residential Energy Consumption and Expenditures for All Fuels by Census Division, 1981**





# Summary of Findings

**Figure 2. Average Household Energy Consumption and Expenditures for All Fuels by Census Division, 1981**

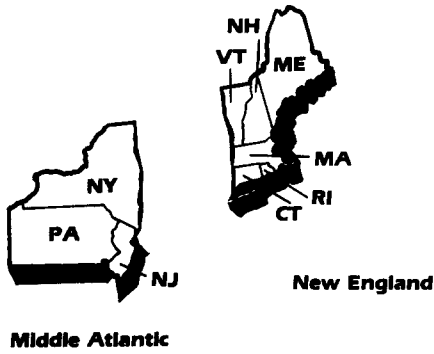
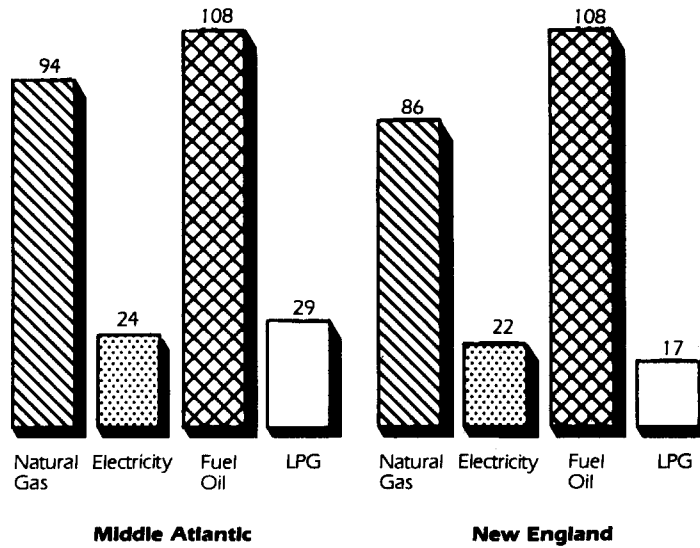




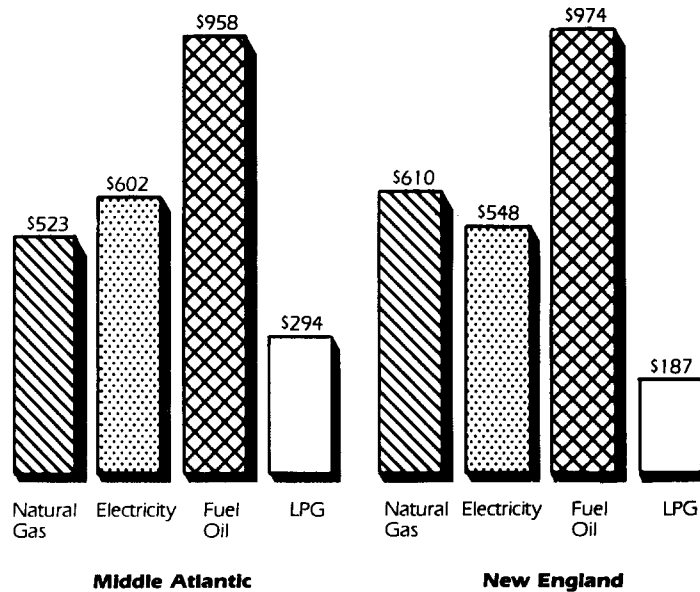
# Summary of Findings

**Figure 3. Northeast: Average Household Energy Consumption and Expenditures by Fuel Type and Census Division, 1981**

Average Consumption  
(Million Btu) per Household



Average Expenditures  
(\$ per Household)

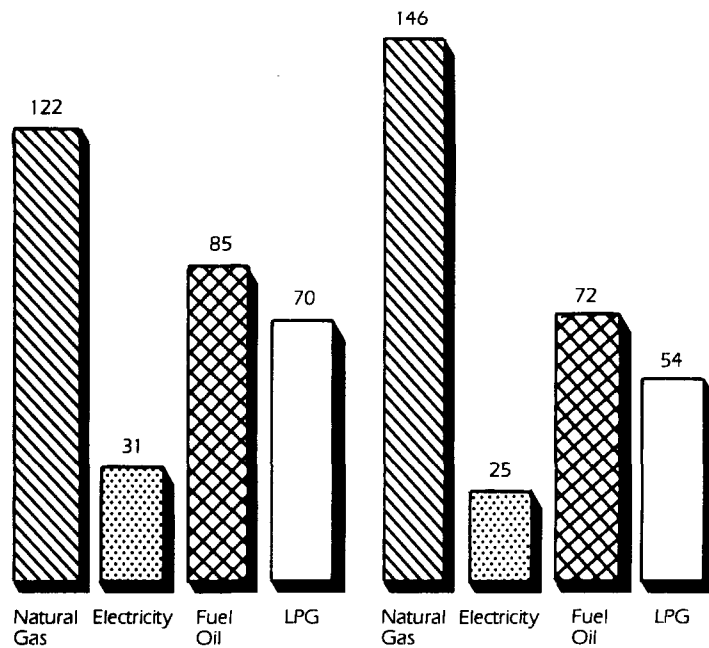




# Summary of Findings

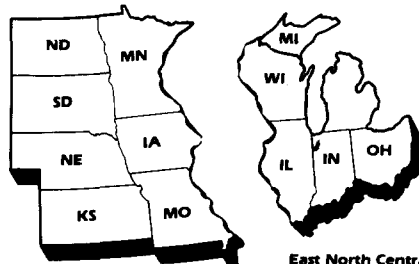
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Average Consumption  
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West North Central

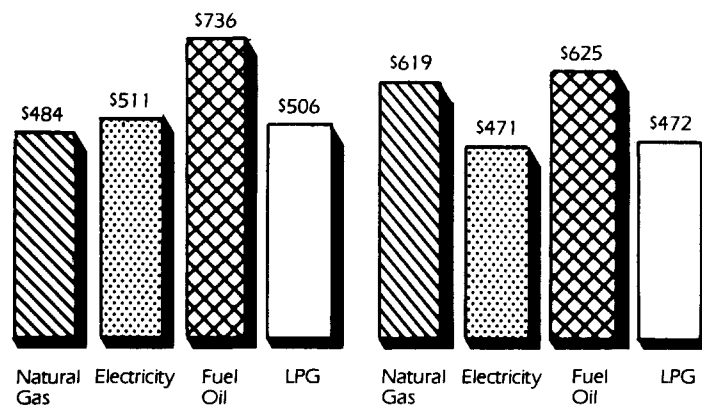
East North Central



West North Central

East North Central

Average Expenditures  
(\$) per Household



West North Central

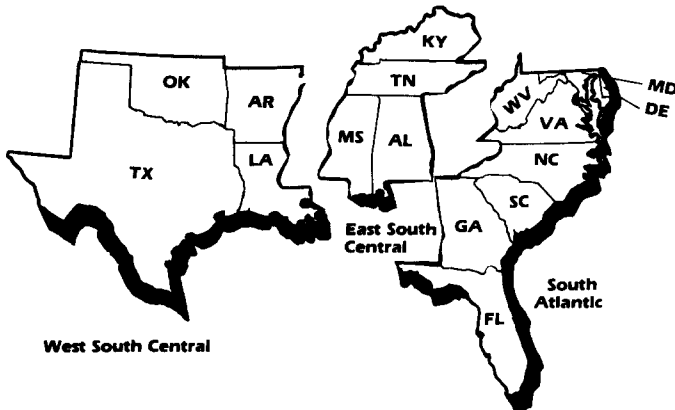
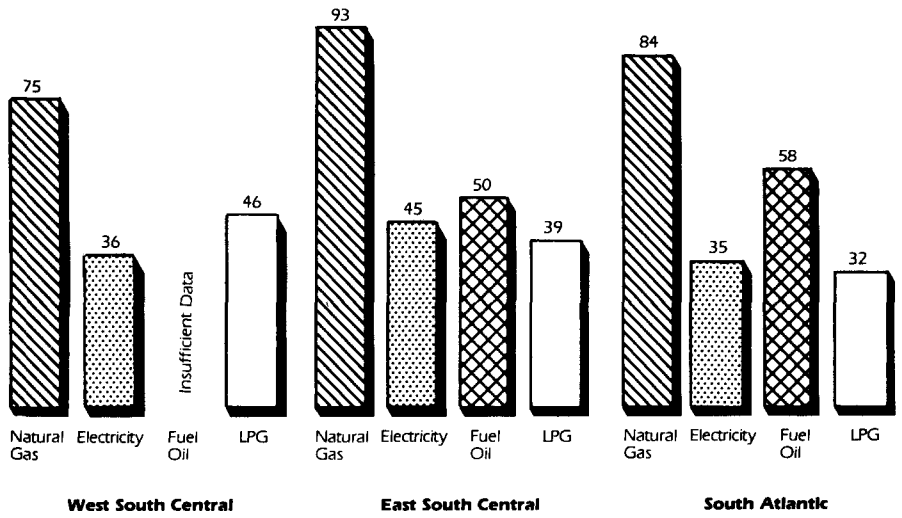
East North Central



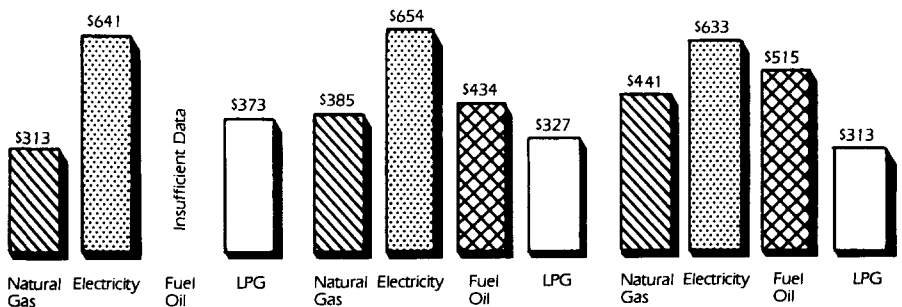
# Summary of Findings

**Figure 5. South: Average Household Energy Consumption and Expenditures by Fuel Type and Census Division, 1981**

Average Consumption (Million Btu) per Household



Average Expenditures (\$) per Household



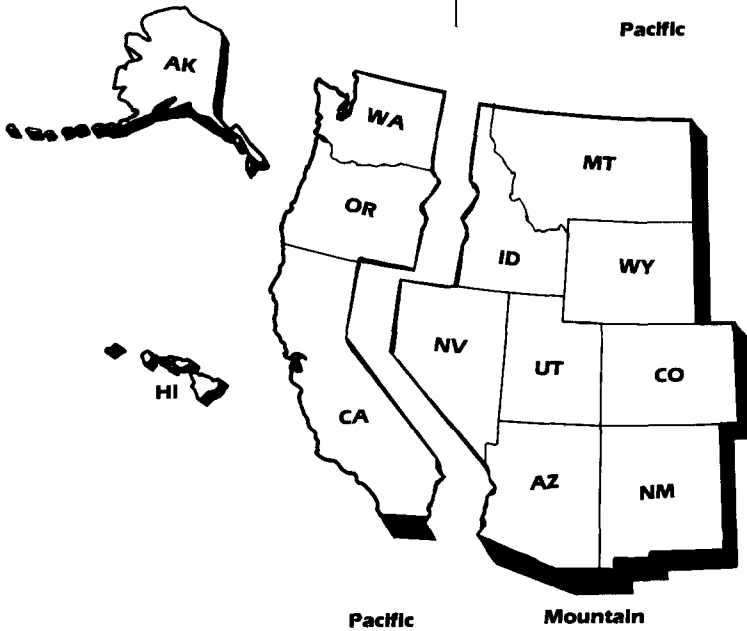
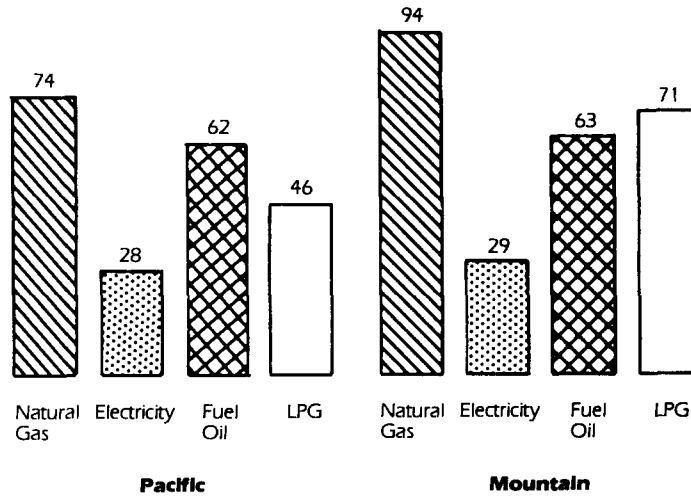




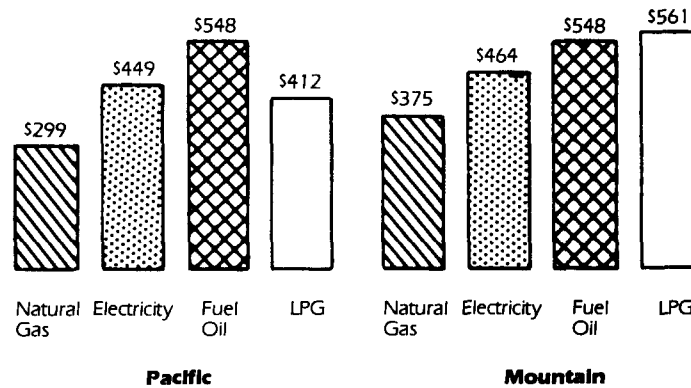
# Summary of Findings

**Figure 6. West: Average Household Energy Consumption and Expenditures by Fuel Type and Census Division, 1981**

Average Consumption (Million Btu) per Household



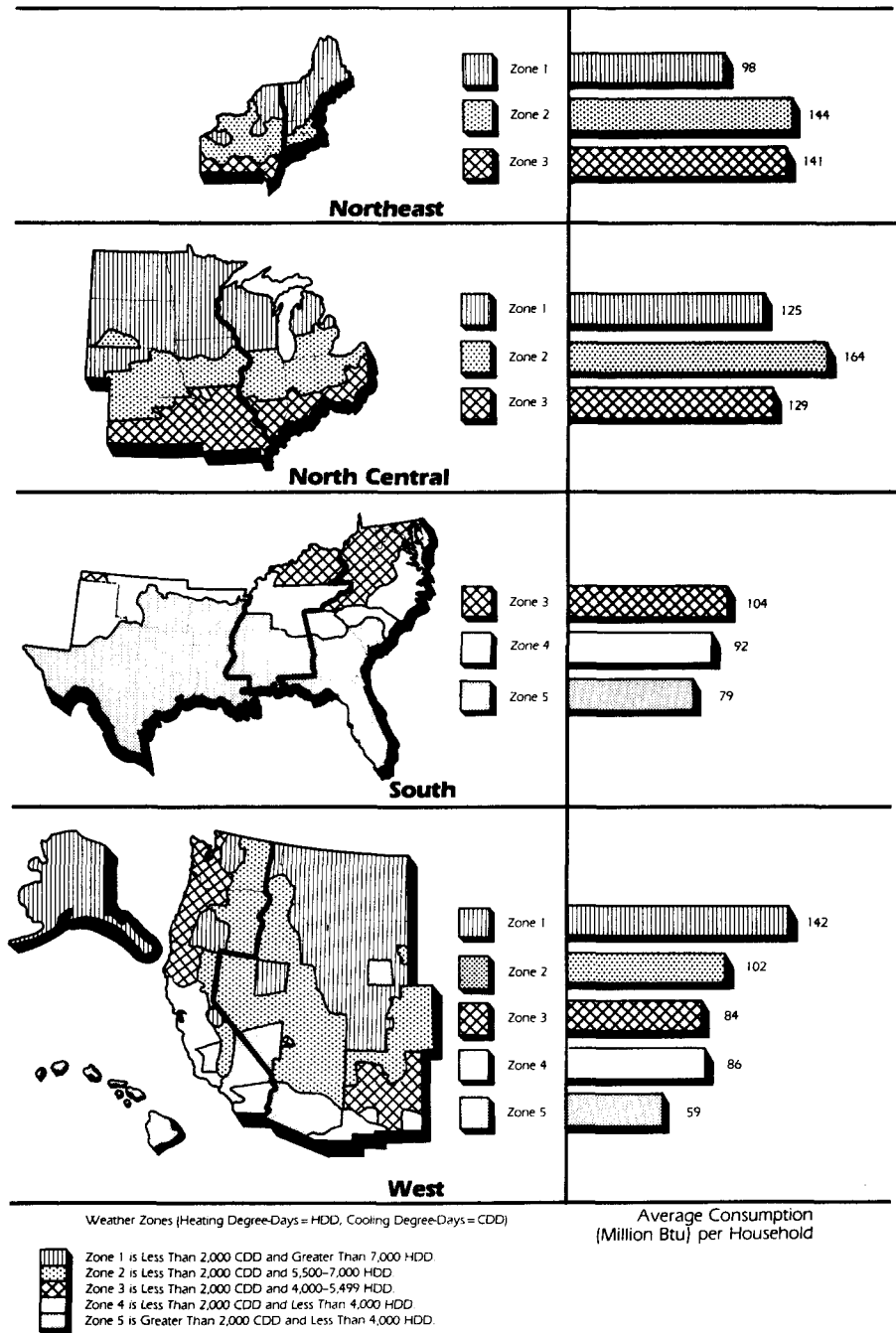
Average Expenditures (\$) per Household





# Summary of Findings

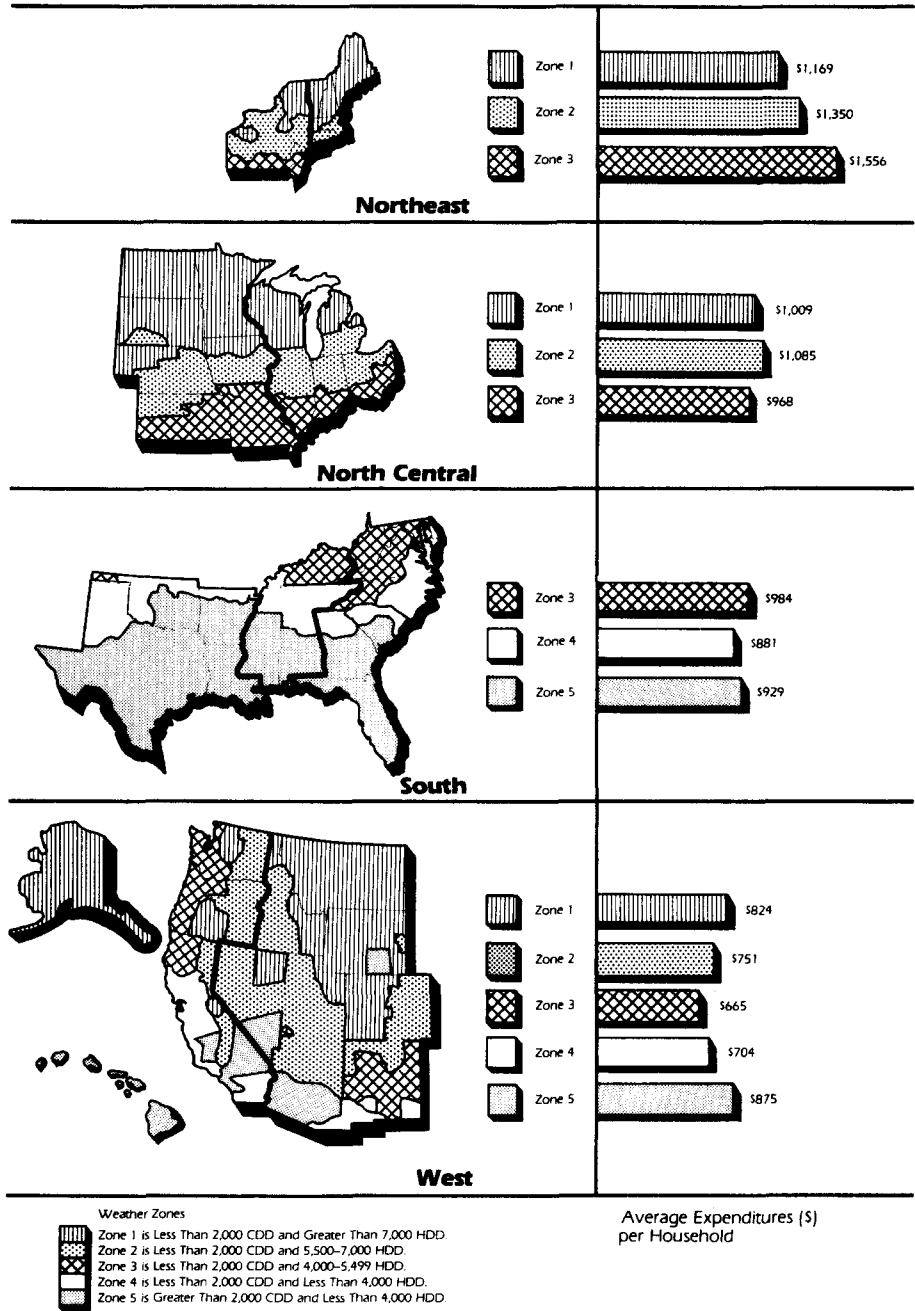
**Figure 7. Average Household Energy Consumption by Census Region and Weather Zone, 1981**





# Summary of Findings

**Figure 8. Average Household Energy Expenditures by Census Region and Weather Zone, 1981**







# Total Residential Consumption and Expenditures

**Table 1. U.S. Total Residential Energy Consumption and Expenditures—April 1981 Through March 1982, United States**

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
TOTAL HOUSEHOLDS.....	83.1	9.51	85.0	5.39	24.5	2.48	45.9	1.33	11.8	0.31	2.7
AREA TYPE											
URBAN.....	57.3	6.93	58.6	4.45	20.5	1.53	29.6	.91	8.1	.04	.3
RURAL.....	25.9	2.58	26.4	.94	4.0	.95	16.3	.42	3.7	.28	2.4
SMSA											
SMSA.....	56.6	6.75	59.5	4.10	18.9	1.60	31.2	.97	8.6	.08	.8
NON-SMSA.....	26.5	2.76	25.4	1.29	5.6	.88	14.7	.36	3.2	.23	2.0
UTILITIES PAID BY HOUSEHOLD											
ALL PAID BY HOUSEHOLD.....	69.6	8.12	71.6	4.67	20.7	2.23	40.1	.93	8.3	.30	2.6
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	13.5	1.39	13.4	.72	3.8	.25	5.8	.40	3.6	.02	.1
TYPE OF HOUSING STRUCTURE											
SINGLE FAMILY OR MOBILE HOME..	61.8	7.58	66.0	4.37	19.2	2.01	36.2	.89	7.9	.31	2.7
2 OR MORE UNITS.....	21.4	1.93	19.0	1.02	5.3	.47	9.7	.44	3.9	.01	.1
NUMBER OF ROOMS											
1 TO 3.....	10.2	.73	7.4	.34	1.7	.19	3.9	.19	1.7	.02	.2
4 TO 5.....	36.7	3.57	32.5	1.99	9.1	.97	18.0	.47	4.2	.14	1.2
6 OR MORE.....	36.2	5.21	45.0	3.06	13.7	1.31	24.0	.67	6.0	.16	1.4
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED											
ALL.....	30.7	3.42	32.5	1.91	8.4	1.21	21.4	.21	1.9	.09	.8
SOME.....	17.7	2.33	20.5	1.33	6.3	.47	9.5	.44	4.0	.08	.7
NONE.....	34.7	3.76	32.0	2.15	9.8	.80	14.9	.67	6.0	.15	1.3
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)											
LESS THAN 999.....	28.9	2.38	22.7	1.23	5.8	0.63	12.3	0.43	3.8	0.09	0.8
1,000 TO 1,999.....	35.8	4.05	36.6	2.31	10.5	1.12	20.6	.47	4.1	.16	1.4
2,000 OR MORE.....	18.4	3.08	25.7	1.85	8.2	.72	13.0	.44	3.9	.07	.5
YEAR HOUSE BUILT											
1939 OR EARLIER.....	24.2	3.23	26.4	1.95	9.2	.53	10.6	.61	5.5	.14	1.2
1940 TO 1959.....	20.4	2.40	20.1	1.47	6.4	.55	10.3	.35	3.1	.04	.3
1960 OR LATER.....	38.5	3.88	38.4	1.97	8.9	1.40	25.0	.37	3.3	.14	1.2
OWN/RENT											
OWN.....	55.1	6.96	60.7	4.03	17.9	1.81	32.9	.87	7.7	.25	2.2
RENT.....	28.0	2.55	24.2	1.36	6.6	.67	13.0	.46	4.1	.06	.5
1980 FAMILY INCOME											
LESS THAN \$10,000.....	23.3	2.26	19.7	1.30	6.0	.51	9.8	.34	3.0	.10	.9
\$10,000 TO \$19,999.....	23.2	2.49	22.5	1.36	6.2	.67	12.2	.37	3.3	.09	.8
\$20,000 TO \$34,999.....	24.0	2.89	25.9	1.66	7.5	.79	14.5	.36	3.2	.08	.7
\$35,000 OR MORE.....	12.6	1.87	16.8	1.07	4.8	.50	9.4	.26	2.3	.05	.4
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	11.0	1.05	9.1	.63	2.9	.25	4.7	.12	1.1	.05	.4
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	15.8	1.53	13.3	.91	4.2	.35	6.7	.19	1.7	.08	.7
AGE OF HOUSEHOLD HEAD											
UNDER 35 YEARS.....	27.6	2.76	24.8	1.62	7.4	.80	14.4	.27	2.4	.07	.6
35 TO 59 YEARS.....	33.0	4.30	39.0	2.38	10.8	1.14	21.2	.64	5.7	.14	1.2
60 YEARS AND OVER.....	22.5	2.45	21.2	1.38	6.3	.54	10.3	.42	3.8	.10	.9

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued) United States

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
<b>HOUSEHOLD MEMBERS</b>											
1.....	15.4	1.35	11.8	0.77	3.6	0.29	5.6	0.26	2.3	0.03	0.3
2.....	27.7	2.95	26.5	1.63	7.4	.77	14.3	.43	3.8	.11	1.0
3 OR MORE.....	40.1	5.21	46.7	2.99	13.5	1.42	26.0	.64	5.7	.17	1.5
<b>MAIN HEATING FUEL</b>											
NATURAL GAS.....	46.2	6.30	44.6	5.17	23.1	1.11	21.3	.02	.2	Q	Q
ELECTRICITY.....	14.2	.83	12.5	.06	.3	.76	12.1	Q	Q	.01	.1
FUEL OIL OR KEROSENE.....	12.2	1.67	19.0	.10	.9	.30	6.8	1.25	11.1	.02	.2
OTHER.....	10.5	.71	8.9	.05	.3	.32	5.7	.05	.4	.29	2.5
<b>HOT WATER FUEL</b>											
NATURAL GAS.....	45.6	6.14	44.2	4.94	22.1	1.04	20.8	.15	1.4	Q	Q
ELECTRICITY.....	27.1	2.10	26.0	.39	1.8	1.23	19.8	.38	3.3	.11	1.0
FUEL OIL OR KEROSENE.....	6.1	.92	10.6	.06	.5	.11	3.2	.75	6.7	Q	Q
OTHER.....	4.4	.35	4.2	.01	.1	.10	2.0	.05	.4	.20	1.7
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>											
<2,000 CDD AND >7,000 HDD.....	8.8	1.07	8.9	.56	2.4	.23	4.1	.22	1.9	.06	.5
<2,000 CDD AND 5,500 TO 7,000 HDD.....	21.0	3.17	24.2	2.16	9.5	.55	10.6	.39	3.5	.07	.6
<2,000 CDD AND 4,000 TO 5,499 HDD.....	21.6	2.59	24.9	1.24	6.4	.64	12.2	.65	5.7	.06	.5
<2,000 CDD AND <4,000 HDD.....	19.5	1.74	15.6	1.02	4.2	.59	10.3	.06	.5	.07	.6
>2,000 CDD AND <4,000 HDD.....	12.2	.94	11.3	.42	2.0	.46	8.7	.02	.2	.05	.5

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Region: Northeast

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
TOTAL HOUSEHOLDS.....	17.9	2.47	25.6	1.06	6.1	0.42	10.6	0.96	8.6	0.03	0.3
AREA TYPE											
URBAN.....	13.7	2.00	20.2	.95	5.6	.28	7.7	.77	6.9	Q	Q
RURAL.....	4.2	.47	5.4	.11	.5	.14	2.9	.19	1.7	.03	.3
SMSA											
SMSA.....	14.1	2.01	21.0	.87	5.2	.31	8.3	.82	7.3	.02	.2
NON-SMSA.....	3.8	.46	4.6	.19	.9	.11	2.3	.15	1.3	.01	.1
UTILITIES PAID BY HOUSEHOLD											
ALL PAID BY HOUSEHOLD.....	12.3	1.77	17.9	.82	4.5	.33	7.8	.60	5.3	.02	.3
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	5.7	.69	7.7	.24	1.6	.08	2.8	.37	3.3	Q	Q
TYPE OF HOUSING STRUCTURE											
SINGLE FAMILY OR MOBILE HOME..	10.5	1.58	16.0	.70	3.8	.29	6.9	.57	5.1	.02	.2
2 OR MORE UNITS.....	7.4	.89	9.6	.36	2.3	.13	3.7	.40	3.5	.01	.1
NUMBER OF ROOMS											
1 TO 3 .....	2.8	.29	3.3	.09	.6	.04	1.3	.15	1.4	Q	Q
4 TO 5.....	6.7	.79	8.4	.32	1.9	.13	3.4	.34	3.0	.01	.1
6 OR MORE.....	8.5	1.39	13.9	.65	3.5	.25	5.9	.48	4.3	.02	.2
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED											
ALL.....	3.2	.43	4.8	.20	1.1	.10	2.6	.13	1.1	Q	Q
SOME.....	5.5	.84	8.6	.37	2.2	.12	3.4	.34	3.0	.01	.1
NONE.....	9.2	1.20	12.1	.49	2.8	.19	4.7	.50	4.4	.02	.2
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)											
LESS THAN 999.....	6.1	0.67	7.5	0.22	1.5	0.11	3.0	0.33	2.9	0.01	0.1
1,000 TO 1,999.....	6.8	.94	9.4	.45	2.6	.16	3.9	.31	2.8	.02	.2
2,000 OR MORE.....	5.0	.86	8.6	.38	2.0	.15	3.7	.32	2.9	Q	Q
YEAR HOUSE BUILT											
1939 OR EARLIER.....	8.1	1.18	11.5	.54	3.2	.14	3.8	.48	4.3	.02	.2
1940 TO 1959.....	3.3	.49	5.0	.18	1.0	.08	2.0	.23	2.0	Q	Q
1960 OR LATER.....	6.5	.80	9.1	.34	1.9	.20	4.8	.25	2.3	.01	.1
OWN/RENT											
OWN.....	11.1	1.65	16.7	.76	4.2	.29	7.1	.58	5.2	.02	.2
RENT.....	6.8	.81	8.9	.30	2.0	.12	3.5	.38	3.4	.01	.1
1980 FAMILY INCOME											
LESS THAN \$10,000.....	4.2	.51	5.2	.21	1.3	.07	1.9	.23	2.0	Q	Q
\$10,000 TO \$19,999.....	5.3	.69	7.2	.30	1.7	.13	3.0	.26	2.3	.01	.1
\$20,000 TO \$34,999.....	5.5	.76	7.8	.34	1.9	.13	3.3	.28	2.5	.01	.1
\$35,000 OR MORE.....	2.9	.50	5.4	.21	1.2	.09	2.4	.20	1.8	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.6	.21	2.1	.09	.6	.03	.8	.08	.7	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.6	.32	3.2	.15	.9	.04	1.2	.13	1.1	Q	Q
AGE OF HOUSEHOLD HEAD											
UNDER 35 YEARS.....	5.4	.65	6.8	.32	1.8	.13	3.1	.20	1.8	.01	.1
35 TO 59 YEARS.....	7.7	1.19	12.5	.49	2.8	.20	5.2	.49	4.4	.01	.1
60 YEARS AND OVER.....	4.8	.62	6.2	.25	1.5	.09	2.3	.27	2.4	Q	.1

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Region: Northeast

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
<b>HOUSEHOLD MEMBERS</b>											
1.....	3.4	0.38	3.9	0.15	0.9	0.05	1.4	0.18	1.6	Q	Q
2.....	5.4	.70	7.2	.30	1.7	.11	2.9	.29	2.6	0.01	0.1
3 OR MORE.....	9.1	1.39	14.4	.61	3.5	.26	6.3	.50	4.4	.02	.2
<b>MAIN HEATING FUEL</b>											
NATURAL GAS.....	7.0	1.09	8.8	.95	5.2	.13	3.5	.01	.1	Q	Q
ELECTRICITY.....	1.5	.11	1.9	Q	Q	.10	1.9	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	7.9	1.17	13.5	.09	.8	.15	4.4	.92	8.2	.01	.1
OTHER.....	1.5	.10	1.4	.01	Q	.04	.8	.03	.3	.02	.2
<b>HOT WATER FUEL</b>											
NATURAL GAS.....	8.0	1.22	10.4	.96	5.4	.15	4.0	.12	1.0	Q	Q
ELECTRICITY.....	3.6	.34	4.6	.04	.2	.17	3.3	.12	1.1	.01	.1
FUEL OIL OR KEROSENE.....	5.7	.87	10.0	.05	.5	.10	3.1	.71	6.4	Q	Q
OTHER.....	.5	.04	.5	Q	Q	.01	.2	.01	.1	.02	.2
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>											
<2,000 CDD AND >7,000 HDD.....	1.9	.18	2.2	.02	.1	.06	1.1	.10	.9	.01	.1
<2,000 CDD AND 5,500 TO 7,000 HDD.....	7.8	1.12	10.5	.58	3.1	.19	4.2	.34	3.0	.02	.2
<2,000 CDD AND 4,000 TO 5,499 HDD.....	8.3	1.16	12.9	.46	2.9	.18	5.3	.53	4.7	Q	Q
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.





# Total Residential Consumption and Expenditures

**Table 1. (Continued)**  
**Census Division: New England**

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
TOTAL HOUSEHOLDS.....	4.3	0.54	6.0	0.17	1.2	0.09	2.3	0.27	2.4	0.01	0.1
AREA TYPE											
URBAN.....	3.2	.43	4.5	.16	1.2	.06	1.5	.20	1.8	Q	Q
RURAL.....	1.1	.11	1.5	.01	.1	.03	.8	.07	.6	.01	.1
SMSA											
SMSA.....	3.1	.42	4.6	.17	1.2	.07	1.7	.18	1.6	Q	Q
NON-SMSA.....	1.2	.12	1.5	.01	Q	.03	.6	.08	.7	.01	.1
UTILITIES PAID BY HOUSEHOLD											
ALL PAID BY HOUSEHOLD.....	3.3	.43	4.8	.14	1.0	.08	1.9	.21	1.8	.01	.1
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	1.0	.10	1.2	.03	.2	.02	.4	.06	.5	Q	Q
TYPE OF HOUSING STRUCTURE											
SINGLE FAMILY OR MOBILE HOME..	2.5	.33	3.8	.09	.6	.06	1.5	.17	1.5	.01	.1
2 OR MORE UNITS.....	1.8	.21	2.2	.08	.6	.03	.8	.10	.9	Q	Q
NUMBER OF ROOMS											
1 TO 3.....	.5	.04	.5	.02	.1	.01	.2	.02	.2	Q	Q
4 TO 5.....	1.9	.21	2.4	.07	.5	.04	.9	.10	.9	Q	Q
6 OR MORE.....	1.9	.29	3.1	.09	.6	.05	1.2	.15	1.3	Q	Q
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED											
ALL.....	.5	.05	.6	.02	.1	.01	.3	.02	.2	Q	Q
SOME.....	1.3	.18	2.0	.05	.4	.03	.8	.09	.8	Q	Q
NONE.....	2.5	.31	3.4	.10	.7	.05	1.2	.16	1.4	.01	.1
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)											
LESS THAN 999.....	1.6	0.16	1.8	0.05	0.4	0.03	0.7	0.08	0.7	Q	Q
1,000 TO 1,999.....	1.6	.20	2.2	.07	.5	.03	.8	.09	.8	Q	Q
2,000 OR MORE.....	1.1	.17	1.9	.05	.3	.03	.8	.09	.9	Q	Q
YEAR HOUSE BUILT											
1939 OR EARLIER.....	2.1	.28	2.9	.11	.8	.04	.9	.13	1.2	Q	Q
1940 TO 1959.....	.8	.10	1.2	.02	.2	.02	.5	.06	.5	Q	Q
1960 OR LATER.....	1.4	.16	1.9	.04	.3	.04	.9	.07	.7	Q	Q
OWN/RENT											
OWN.....	2.7	.36	4.0	.11	.7	.07	1.6	.18	1.6	0.01	0.1
RENT.....	1.6	.18	2.0	.06	.5	.03	.7	.09	.8	Q	Q
1980 FAMILY INCOME											
LESS THAN \$10,000.....	1.0	.12	1.3	.04	.3	.02	.4	.06	.6	Q	Q
\$10,000 TO \$19,999.....	1.4	.16	1.8	.06	.4	.03	.7	.07	.6	Q	Q
\$20,000 TO \$34,999.....	1.2	.15	1.7	.04	.3	.03	.7	.08	.7	Q	Q
\$35,000 OR MORE.....	.6	.10	1.2	.02	.2	.02	.5	.06	.5	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.4	.05	.5	.02	.2	.01	.1	.02	.2	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.6	.07	.7	.03	.2	.01	.2	.03	.3	Q	Q
AGE OF HOUSEHOLD HEAD											
UNDER 35 YEARS.....	1.3	.13	1.5	.04	.3	.03	.7	.06	.5	Q	Q
35 TO 59 YEARS.....	1.9	.27	3.0	.09	.6	.05	1.1	.14	1.2	Q	Q
60 YEARS AND OVER.....	1.1	.14	1.5	.04	.3	.02	.5	.07	.7	Q	Q

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Division: New  
England

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
<b>HOUSEHOLD MEMBERS</b>											
1.....	0.8	0.08	0.9	0.03	0.2	0.01	0.3	0.04	0.4	Q	Q
2.....	1.3	.16	1.8	.05	.3	.03	.7	.08	.8	Q	Q
3 OR MORE.....	2.1	.30	3.3	.10	.7	.06	1.4	.14	1.3	Q	Q
<b>MAIN HEATING FUEL</b>											
NATURAL GAS.....	1.2	.17	1.5	.15	1.0	.02	.5	Q	Q	Q	Q
ELECTRICITY.....	.4	.02	.5	Q	Q	.02	.5	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	2.1	.32	3.5	.02	.2	.04	1.1	.25	2.3	Q	Q
OTHER.....	.6	.03	.5	Q	Q	.01	.3	.01	.1	0.01	0.1
<b>HOT WATER FUEL</b>											
NATURAL GAS.....	1.6	.22	2.1	.16	1.1	.02	.7	.03	.3	Q	Q
ELECTRICITY.....	.9	.08	1.2	.01	Q	.04	.8	.04	.3	Q	Q
FUEL OIL OR KEROSENE.....	1.5	.23	2.5	.01	.1	.03	.7	.19	1.7	Q	Q
OTHER.....	.3	.02	.2	Q	Q	Q	.1	.01	.1	.01	.1
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>											
<2,000 CDD AND >7,000 HDD.....	1.1	.12	1.3	.02	.1	.02	.6	.06	.6	.01	.1
<2,000 CDD AND 5,500 TO 7,000 HDD.....	3.2	.42	4.7	.15	1.1	.07	1.8	.20	1.8	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	-	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Division: Middle Atlantic

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
TOTAL HOUSEHOLDS.....	13.7	1.93	19.5	0.88	4.9	0.32	8.2	0.70	6.2	0.02	0.2
AREA TYPE											
URBAN.....	10.6	1.57	15.7	.78	4.4	.22	6.2	.57	5.1	Q	Q
RURAL.....	3.1	.36	3.9	.10	.5	.11	2.1	.13	1.2	.02	.2
SMSA											
SMSA.....	11.0	1.59	16.4	.70	4.0	.24	6.6	.63	5.6	.02	.2
NON-SMSA.....	2.6	.34	3.1	.18	.8	.09	1.7	.07	.6	Q	Q
UTILITIES PAID BY HOUSEHOLD											
ALL PAID BY HOUSEHOLD.....	9.0	1.34	13.0	.67	3.5	.26	5.9	.39	3.5	.02	.2
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	4.7	.59	6.5	.21	1.4	.07	2.3	.31	2.7	Q	Q
TYPE OF HOUSING STRUCTURE											
SINGLE FAMILY OR MOBILE HOME..	8.1	1.25	12.2	.61	3.1	.23	5.4	.40	3.5	.02	.2
2 OR MORE UNITS.....	5.6	.68	7.4	.28	1.8	.09	2.9	.30	2.7	Q	Q
NUMBER OF ROOMS											
1 TO 3.....	2.3	.24	2.8	.08	.5	.03	1.0	.14	1.2	Q	Q
4 TO 5.....	4.7	.58	6.1	.25	1.5	.09	2.5	.23	2.1	Q	Q
6 OR MORE.....	6.7	1.10	10.7	.56	2.9	.20	4.7	.33	2.9	.02	.2
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED											
ALL.....	2.8	.38	4.2	.18	1.0	.09	2.2	.11	1.0	Q	Q
SOME.....	4.3	.66	6.7	.32	1.8	.09	2.6	.25	2.2	.01	.1
NONE.....	6.6	.89	8.7	.39	2.1	.14	3.4	.34	3.0	.01	.1
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)											
LESS THAN 999.....	4.5	0.51	5.7	0.17	1.1	0.08	2.3	0.25	2.2	Q	Q
1,000 TO 1,999.....	5.2	.74	7.2	.38	2.1	.12	3.0	.22	1.9	0.01	0.1
2,000 OR MORE.....	3.9	.69	6.6	.33	1.7	.12	2.9	.23	2.0	Q	Q
YEAR HOUSE BUILT											
1939 OR EARLIER.....	6.0	.90	8.5	.43	2.4	.11	2.8	.35	3.1	.01	.1
1940 TO 1959.....	2.6	.39	3.8	.16	.8	.06	1.5	.17	1.5	Q	Q
1960 OR LATER.....	5.1	.65	7.2	.30	1.6	.16	3.9	.18	1.6	.01	.1
OWN/RENT											
OWN.....	8.4	1.29	12.6	.65	3.4	.23	5.5	.41	3.6	.01	.1
RENT.....	5.3	.63	6.9	.24	1.5	.10	2.8	.29	2.6	.01	.1
1980 FAMILY INCOME											
LESS THAN \$10,000.....	3.2	.39	3.9	.17	1.0	.05	1.5	.16	1.5	Q	Q
\$10,000 TO \$19,999.....	4.0	.53	5.4	.23	1.3	.10	2.3	.19	1.7	.01	.1
\$20,000 TO \$34,999.....	4.3	.61	6.0	.30	1.6	.11	2.6	.20	1.8	.01	.1
\$35,000 OR MORE.....	2.2	.40	4.2	.18	1.0	.07	1.9	.14	1.3	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.3	.16	1.6	.07	.4	.02	.6	.07	.6	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.0	.25	2.5	.12	.7	.04	.9	.09	.8	Q	Q
AGE OF HOUSEHOLD HEAD											
UNDER 35 YEARS.....	4.2	.53	5.3	.28	1.5	.10	2.4	.14	1.3	.01	.1
35 TO 59 YEARS.....	5.9	.92	9.5	.40	2.2	.16	4.1	.36	3.2	.01	.1
60 YEARS AND OVER.....	3.6	.48	4.7	.21	1.1	.07	1.8	.20	1.8	Q	Q

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Division: Middle Atlantic

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
<b>HOUSEHOLD MEMBERS</b>											
1.....	2.6	0.30	3.0	0.12	0.7	0.04	1.1	0.14	1.2	Q	Q
2.....	4.1	.54	5.4	.25	1.4	.08	2.2	.20	1.8	Q	Q
3 OR MORE.....	6.9	1.09	11.1	.52	2.8	.20	4.9	.36	3.2	0.02	0.2
<b>MAIN HEATING FUEL</b>											
NATURAL GAS.....	5.9	.93	7.3	.80	4.2	.11	3.0	.01	.1	Q	Q
ELECTRICITY.....	1.1	.08	1.5	Q	Q	.08	1.4	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	5.8	.85	9.9	.07	.6	.11	3.3	.67	5.9	Q	Q
OTHER.....	.9	.07	.9	.01	Q	.03	.5	.02	.2	.02	.2
<b>HOT WATER FUEL</b>											
NATURAL GAS.....	6.4	1.01	8.3	.80	4.3	.12	3.3	.08	.7	Q	Q
ELECTRICITY.....	2.7	.26	3.4	.03	.1	.13	2.4	.09	.8	.01	.1
FUEL OIL OR KEROSENE.....	4.2	.64	7.5	.05	.5	.07	2.3	.52	4.6	Q	Q
OTHER.....	.3	.02	.3	Q	Q	.01	.1	Q	Q	.01	.1
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>											
<2,000 CDD AND >7,000 HDD.....	.8	.07	.9	Q	Q	.03	.5	.03	.3	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	4.6	.70	5.8	.43	2.0	.12	2.4	.14	1.2	.02	.2
<2,000 CDD AND 4,000 TO 5,499 HDD.....	8.3	1.16	12.9	.46	2.9	.18	5.3	.53	4.7	Q	Q
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Region: North Central

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
TOTAL HOUSEHOLDS.....	21.2	3.12	22.1	2.24	9.3	0.57	10.3	0.17	1.5	0.13	1.0
AREA TYPE											
URBAN.....	14.2	2.19	14.3	1.79	7.6	.34	6.2	.05	.4	.01	.1
RURAL.....	7.0	.93	7.9	.45	1.8	.23	4.1	.13	1.1	.12	.9
SMSA											
SMSA.....	13.9	2.14	14.5	1.70	7.1	.36	6.7	.06	.5	.02	.2
NON-SMSA.....	7.4	.97	7.6	.54	2.2	.21	3.6	.12	1.0	.10	.8
UTILITIES PAID BY HOUSEHOLD											
ALL PAID BY HOUSEHOLD.....	18.1	2.79	19.7	2.00	8.2	.51	9.1	.16	1.4	.12	1.0
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	3.2	.32	2.4	.25	1.1	.06	1.2	.02	.2	Q	Q
TYPE OF HOUSING STRUCTURE											
SINGLE FAMILY OR MOBILE HOME..	16.3	2.62	18.4	1.87	7.6	.47	8.4	.16	1.4	.13	1.0
2 OR MORE UNITS.....	4.9	.49	3.7	.38	1.7	.10	1.9	.02	.2	Q	Q
NUMBER OF ROOMS											
1 TO 3.....	2.4	.18	1.5	.11	.5	.05	.8	.02	.2	.01	.1
4 TO 5.....	9.2	1.14	8.2	.84	3.6	.20	3.8	.05	.5	.05	.4
6 OR MORE.....	9.7	1.79	12.4	1.29	5.3	.32	5.7	.10	.9	.07	.6
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED											
ALL.....	7.8	1.14	8.2	.82	3.3	.25	4.4	.03	.3	.03	.2
SOME.....	5.1	.83	5.8	.61	2.5	.14	2.6	.05	.4	.03	.3
NONE.....	8.4	1.14	8.1	.81	3.5	.18	3.3	.09	.8	.06	.5
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)											
LESS THAN 999.....	6.8	0.65	4.9	0.45	1.9	0.13	2.4	0.04	0.3	0.03	0.2
1,000 TO 1,999.....	7.9	1.16	8.3	.82	3.4	.21	3.8	.07	.6	.06	.5
2,000 OR MORE.....	6.6	1.31	8.9	.97	4.0	.23	4.1	.07	.6	.04	.3
YEAR HOUSE BUILT											
1939 OR EARLIER.....	7.7	1.27	8.5	.94	3.9	.19	3.4	.08	.7	.07	.5
1940 TO 1959.....	5.5	.81	5.6	.61	2.6	.13	2.5	.06	.5	.01	.1
1960 OR LATER.....	8.0	1.04	8.0	.69	2.9	.25	4.4	.04	.4	.05	.4
OWN/RENT											
OWN.....	15.0	2.45	17.1	1.76	7.2	.43	7.7	.15	1.3	.11	.9
RENT.....	6.2	.66	5.0	.48	2.1	.14	2.5	.03	.2	.01	.1
1980 FAMILY INCOME											
LESS THAN \$10,000.....	6.3	.80	5.6	.59	2.5	.12	2.3	.05	.4	.03	.3
\$10,000 TO \$19,999.....	6.1	.81	6.0	.55	2.3	.16	2.9	.05	.5	.04	.3
\$20,000 TO \$34,999.....	6.2	.95	6.8	.70	2.9	.19	3.3	.04	.3	.03	.2
\$35,000 OR MORE.....	2.7	.56	3.8	.40	1.6	.10	1.7	.03	.3	.02	.2
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	2.7	.35	2.4	.27	1.2	.05	1.0	.02	.1	.01	.1
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	4.0	.52	3.6	.39	1.7	.08	1.5	.03	.2	.02	.2
AGE OF HOUSEHOLD HEAD											
UNDER 35 YEARS.....	6.9	.87	6.3	.64	2.7	.18	3.1	.03	.3	.03	.2
35 TO 59 YEARS.....	8.1	1.37	9.8	.97	4.0	.26	4.7	.08	.7	.06	.5
60 YEARS AND OVER.....	6.2	.87	6.0	.63	2.6	.13	2.5	.07	.6	.04	.3

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Region: North Central

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
<b>HOUSEHOLD MEMBERS</b>											
1.....	4.3	0.47	3.2	0.36	1.5	0.07	1.4	0.03	0.3	0.01	0.1
2.....	7.0	.99	7.1	.70	2.9	.18	3.2	.07	.6	.04	.3
3 OR MORE.....	10.0	1.66	11.8	1.19	4.9	.32	5.7	.07	.6	.07	.6
<b>MAIN HEATING FUEL</b>											
NATURAL GAS.....	15.4	2.58	15.9	2.22	9.2	.35	6.7	.01	.1	Q	Q
ELECTRICITY.....	1.6	.09	1.4	Q	Q	.09	1.3	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	1.7	.23	2.5	.01	Q	.06	1.0	.16	1.4	.01	.1
OTHER.....	2.5	.21	2.4	.01	.1	.07	1.3	.01	.1	.12	1.0
<b>HOT WATER FUEL</b>											
NATURAL GAS.....	14.5	2.41	14.8	2.07	8.5	.32	6.1	.02	.1	Q	Q
ELECTRICITY.....	5.2	.56	5.7	.17	.7	.22	3.5	.13	1.1	.04	.3
FUEL OIL OR KEROSENE.....	.1	.01	.1	Q	Q	Q	Q	.01	.1	Q	Q
OTHER.....	1.5	.14	1.5	.01	Q	.03	.6	.02	.2	.09	.7
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>											
<2,000 CDD AND >7,000 HDD.....	5.6	.70	5.7	.39	1.8	.15	2.5	.12	1.0	.05	.4
<2,000 CDD AND 5,500 TO 7,000 HDD.....	11.5	1.88	12.5	1.49	6.1	.30	5.5	.05	.4	.04	.3
<2,000 CDD AND 4,000 TO 5,499 HDD.....	4.2	.54	4.0	.36	1.4	.13	2.2	.01	.1	.04	.3
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Division: East North  
Central

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
TOTAL HOUSEHOLDS.....	14.6	2.23	15.6	1.67	7.1	0.37	6.9	0.13	1.1	0.06	0.6
AREA TYPE											
URBAN.....	10.2	1.62	10.4	1.36	5.8	.22	4.3	.03	.3	.01	.1
RURAL.....	4.4	.61	5.2	.32	1.3	.15	2.6	.09	.8	.06	.5
SMSA											
SMSA.....	10.6	1.70	11.3	1.38	5.8	.26	5.0	.04	.4	.02	.2
NON-SMSA.....	4.1	.53	4.3	.29	1.3	.11	1.9	.08	.7	.05	.4
UTILITIES PAID BY HOUSEHOLD											
ALL PAID BY HOUSEHOLD.....	12.5	2.00	14.0	1.48	6.2	.33	6.1	.12	1.1	.06	.5
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	2.1	.23	1.6	.19	.9	.04	.8	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE											
SINGLE FAMILY OR MOBILE HOME..	11.2	1.87	13.0	1.37	5.7	.31	5.6	.12	1.1	.06	.5
2 OR MORE UNITS.....	3.4	.37	2.6	.30	1.3	.06	1.2	Q	Q	Q	Q
NUMBER OF ROOMS											
1 TO 3.....	1.5	.12	1.0	.07	.3	.03	.5	.01	.1	Q	Q
4 TO 5.....	6.3	.81	5.8	.62	2.7	.13	2.5	.04	.3	.02	.2
6 OR MORE.....	6.8	1.30	8.9	.98	4.1	.21	3.8	.07	.7	.04	.3
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED											
ALL.....	4.4	.69	4.9	.52	2.2	.13	2.4	.02	.2	.01	.1
SOME.....	3.6	.60	4.2	.46	1.9	.10	1.8	.03	.3	.01	.1
NONE.....	6.6	.94	6.6	.69	3.0	.14	2.6	.07	.6	.04	.4
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)											
LESS THAN 999.....	4.5	0.46	3.4	0.33	1.5	0.09	1.6	0.03	0.2	0.02	0.1
1,000 TO 1,999.....	5.6	.85	6.1	.62	2.6	.14	2.6	.06	.5	.03	.3
2,000 OR MORE.....	4.5	.92	6.1	.72	3.0	.15	2.7	.04	.4	.01	.1
YEAR HOUSE BUILT											
1939 OR EARLIER.....	5.4	.91	6.1	.70	2.9	.13	2.4	.05	.5	.04	.3
1940 TO 1959.....	3.8	.61	4.1	.47	2.0	.09	1.7	.05	.4	Q	Q
1960 OR LATER.....	5.4	.71	5.4	.50	2.1	.16	2.8	.03	.2	.03	.2
OWN/RENT											
OWN.....	10.3	1.75	12.1	1.30	5.4	.28	5.1	.12	1.0	.06	.5
RENT.....	4.3	.48	3.6	.37	1.7	.09	1.7	.01	.1	.01	.1
1980 FAMILY INCOME											
LESS THAN \$10,000.....	4.6	.62	4.2	.48	2.1	.08	1.7	.04	.3	.02	.1
\$10,000 TO \$19,999.....	4.1	.59	4.3	.42	1.8	.11	2.0	.04	.3	.02	.2
\$20,000 TO \$34,999.....	4.2	.65	4.7	.49	2.1	.12	2.2	.03	.2	.01	.1
\$35,000 OR MORE.....	1.7	.37	2.4	.29	1.1	.05	1.0	.02	.2	.01	.1
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	2.0	.28	1.9	.23	1.0	.04	.8	.01	.1	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	3.0	.42	2.9	.33	1.4	.06	1.2	.02	.2	.01	.1
AGE OF HOUSEHOLD HEAD											
UNDER 35 YEARS.....	4.6	.60	4.3	.46	2.0	.11	2.1	.02	.2	.01	.1
35 TO 59 YEARS.....	5.4	.97	6.8	.72	3.0	.17	3.1	.05	.4	.03	.3
60 YEARS AND OVER.....	4.6	.66	4.5	.50	2.1	.09	1.7	.06	.5	.02	.2

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Division: East North  
Central

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
<b>HOUSEHOLD MEMBERS</b>											
1.....	2.9	0.34	2.3	0.27	1.2	0.04	0.9	0.02	0.2	0.01	Q
2.....	4.7	.71	5.0	.52	2.2	.12	2.1	.06	.5	.02	0.2
3 OR MORE.....	6.9	1.18	8.3	.88	3.7	.21	3.9	.05	.4	.04	.3
<b>MAIN HEATING FUEL</b>											
NATURAL GAS.....	11.2	1.91	11.8	1.67	7.0	.24	4.7	Q	Q	Q	Q
ELECTRICITY.....	.8	.05	.8	Q	Q	.05	.8	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	1.2	.16	1.8	Q	Q	.04	.7	.11	1.0	Q	Q
OTHER.....	1.3	.11	1.3	Q	Q	.04	.7	.01	.1	.06	.5
<b>HOT WATER FUEL</b>											
NATURAL GAS.....	10.3	1.76	10.9	1.54	6.5	.22	4.3	.01	.1	Q	Q
ELECTRICITY.....	3.5	.39	3.9	.13	.6	.14	2.3	.10	.8	.02	.2
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.7	.07	.8	Q	Q	.01	.3	.02	.2	.04	.4
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>											
<2,000 CDD AND >7,000 HDD.....	3.2	.39	3.2	.20	1.0	.08	1.4	.08	.7	.03	.3
<2,000 CDD AND 5,500 TO 7,000 HDD.....	10.2	1.66	11.0	1.34	5.6	.25	4.9	.04	.4	.02	.2
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.2	.18	1.4	.13	.5	.04	.7	.01	Q	.01	.1
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.





# Total Residential Consumption and Expenditures

**Table 1. (Continued)**  
**Census Division: West North Central**

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
TOTAL HOUSEHOLDS.....	6.6	0.88	6.5	0.57	2.3	0.20	3.4	0.05	0.4	0.06	0.5
AREA TYPE											
URBAN.....	4.0	.57	3.8	.44	1.8	.11	1.9	.01	.1	Q	Q
RURAL.....	2.6	.32	2.7	.13	.4	.09	1.5	.04	.3	.06	.4
SMSA											
SMSA.....	3.3	.45	3.2	.32	1.4	.10	1.7	.02	.1	.01	Q
NON-SMSA.....	3.3	.44	3.3	.25	.9	.10	1.7	.03	.3	.06	.4
UTILITIES PAID BY HOUSEHOLD											
ALL PAID BY HOUSEHOLD.....	5.6	.79	5.7	.51	2.0	.18	3.0	.03	.3	.06	.4
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	1.0	.09	.8	.05	.2	.02	.4	.01	.1	Q	Q
TYPE OF HOUSING STRUCTURE											
SINGLE FAMILY OR MOBILE HOME..	5.1	.75	5.4	.49	1.9	.17	2.7	.03	.3	.06	.5
2 OR MORE UNITS.....	1.5	.13	1.1	.08	.4	.04	.6	.02	.1	Q	Q
NUMBER OF ROOMS											
1 TO 3.....	.8	.06	.6	.03	.1	.02	.3	.01	.1	Q	Q
4 TO 5.....	2.9	.33	2.4	.22	.9	.07	1.2	.01	.1	.02	.2
6 OR MORE.....	2.8	.49	3.5	.31	1.2	.11	1.8	.03	.2	.04	.3
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED											
ALL.....	3.4	.45	3.4	.30	1.2	.12	1.9	.01	.1	.02	.2
SOME.....	1.5	.23	1.6	.15	.6	.04	.7	.02	.2	.02	.1
NONE.....	1.8	.20	1.6	.12	.5	.04	.7	.02	.2	.02	.2
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)											
LESS THAN 999.....	2.2	0.19	1.5	0.12	0.5	0.05	0.8	0.01	0.1	0.01	0.1
1,000 TO 1,999.....	2.3	.31	2.2	.20	.8	.07	1.2	.01	.1	.02	.2
2,000 OR MORE.....	2.1	.38	2.8	.25	1.0	.09	1.4	.02	.2	.03	.2
YEAR HOUSE BUILT											
1939 OR EARLIER.....	2.3	.36	2.4	.24	.9	.06	1.0	.02	.2	.03	.2
1940 TO 1959.....	1.7	.20	1.5	.14	.6	.05	.8	.01	.1	.01	Q
1960 OR LATER.....	2.6	.32	2.6	.19	.8	.10	1.6	.01	.1	.02	.2
OWN/RENT											
OWN.....	4.7	.71	5.1	.46	1.8	.16	2.6	.03	.3	.06	.4
RENT.....	1.9	.18	1.5	.11	.5	.05	.8	.02	.1	.01	Q
1980 FAMILY INCOME											
LESS THAN \$10,000.....	1.7	.18	1.3	.11	.4	.04	.7	.01	.1	.02	.1
\$10,000 TO \$19,999.....	1.9	.22	1.7	.14	.5	.06	.9	.01	.1	.02	.1
\$20,000 TO \$34,999.....	2.0	.30	2.1	.21	.8	.06	1.1	.01	.1	.02	.1
\$35,000 OR MORE.....	1.0	.18	1.4	.12	.5	.05	.7	.01	.1	.01	.1
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.7	.07	.5	.04	.2	.01	.2	.01	.1	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.0	.09	.7	.05	.2	.02	.3	.01	.1	.01	.1
AGE OF HOUSEHOLD HEAD											
UNDER 35 YEARS.....	2.3	.27	2.0	.18	.7	.06	1.1	.01	.1	.01	.1
35 TO 59 YEARS.....	2.6	.41	3.0	.25	1.0	.10	1.6	.03	.2	.03	.2
60 YEARS AND OVER.....	1.7	.21	1.5	.13	.5	.04	.7	.01	.1	.02	.1

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Division: West North Central

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
<b>HOUSEHOLD MEMBERS</b>											
1.....	1.3	0.13	1.0	0.08	0.3	0.03	0.5	0.01	0.1	0.01	Q
2.....	2.3	.27	2.0	.17	.7	.06	1.0	.02	.1	.03	0.2
3 OR MORE.....	3.0	.48	3.5	.31	1.2	.11	1.8	.02	.2	.03	.2
<b>MAIN HEATING FUEL</b>											
NATURAL GAS.....	4.2	.67	4.1	.55	2.2	.11	2.0	Q	Q	Q	Q
ELECTRICITY.....	.8	.04	.6	Q	Q	.04	.6	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	.4	.07	.7	Q	Q	.02	.3	.04	.4	Q	Q
OTHER.....	1.2	.11	1.1	.01	.1	.03	.6	Q	Q	.06	.4
<b>HOT WATER FUEL</b>											
NATURAL GAS.....	4.1	.64	4.0	.53	2.1	.11	1.8	.01	.1	Q	Q
ELECTRICITY.....	1.7	.17	1.8	.03	.1	.08	1.2	.03	.3	.02	.1
FUEL OIL OR KEROSENE.....	Q	.01	.1	Q	Q	Q	Q	.01	Q	Q	Q
OTHER.....	.8	.07	.7	.01	Q	.02	.3	Q	Q	.05	.3
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>											
<2,000 CDD AND >7,000 HDD.....	2.4	.31	2.4	.19	.8	.07	1.1	.04	.3	.02	.1
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.3	.22	1.4	.15	.5	.04	.7	.01	.1	.02	.1
<2,000 CDD AND 4,000 TO 5,499 HDD.....	3.0	.35	2.7	.23	.9	.09	1.6	Q	Q	.03	.2
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Region: South

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
TOTAL HOUSEHOLDS.....	27.7	2.46	25.5	1.16	5.3	1.03	17.7	0.16	1.4	0.12	1.1
AREA TYPE											
URBAN.....	16.3	1.57	15.1	.90	4.1	.58	10.2	.07	.6	.02	.2
RURAL.....	11.4	.90	10.4	.26	1.2	.45	7.5	.09	.8	.10	.9
SMSA											
SMSA.....	15.8	1.44	15.0	.74	3.3	.61	10.7	.07	.6	.03	.3
NON-SMSA.....	11.9	1.02	10.6	.42	2.0	.42	7.0	.09	.8	.09	.8
UTILITIES PAID BY HOUSEHOLD											
ALL PAID BY HOUSEHOLD.....	25.2	2.26	23.6	1.03	4.7	.96	16.5	.14	1.3	.12	1.1
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	2.5	.21	2.0	.13	.6	.06	1.2	.01	.1	Q	Q
TYPE OF HOUSING STRUCTURE											
SINGLE FAMILY OR MOBILE HOME..	22.6	2.14	21.7	1.02	4.6	.86	14.8	.14	1.2	.12	1.1
2 OR MORE UNITS.....	5.1	.32	3.8	.14	.7	.16	3.0	.02	.2	Q	Q
NUMBER OF ROOMS											
1 TO 3.....	2.9	.15	1.7	.06	.3	.06	1.2	.01	.1	.01	.1
4 TO 5.....	13.6	1.07	11.3	.48	2.2	.45	7.9	.07	.6	.07	.6
6 OR MORE.....	11.2	1.25	12.5	.61	2.8	.51	8.6	.08	.7	.05	.4
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED											
ALL.....	16.1	1.50	16.2	.69	3.2	.71	12.2	.05	.4	.04	.4
SOME.....	5.1	.50	4.8	.25	1.1	.17	2.9	.05	.5	.03	.3
NONE.....	6.5	.47	4.5	.22	.9	.15	2.7	.05	.5	.05	.4
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)											
LESS THAN 999.....	10.1	0.68	7.1	0.31	1.4	0.27	4.8	0.05	0.5	0.04	0.4
1,000 TO 1,999.....	13.4	1.24	13.0	.58	2.6	.53	9.1	.07	.6	.07	.6
2,000 OR MORE.....	4.2	.55	5.4	.27	1.3	.23	3.7	.04	.3	.01	.1
YEAR HOUSE BUILT											
1939 OR EARLIER.....	4.8	.46	4.1	.26	1.2	.12	2.1	.04	.3	.04	.4
1940 TO 1959.....	7.0	.67	6.2	.38	1.7	.22	3.9	.05	.4	.02	.2
1960 OR LATER.....	15.8	1.33	15.3	.52	2.4	.68	11.7	.07	.6	.06	.5
OWN/RENT											
OWN.....	19.0	1.82	18.7	.86	3.9	.76	13.0	.11	1.0	.09	.8
RENT.....	8.7	.64	6.8	.30	1.4	.27	4.7	.04	.4	.03	.3
1980 FAMILY INCOME											
LESS THAN \$10,000.....	8.8	.64	6.5	.30	1.4	.23	4.1	.06	.5	.06	.5
\$10,000 TO \$19,999.....	7.7	.65	6.7	.30	1.4	.27	4.7	.04	.4	.03	.3
\$20,000 TO \$34,999.....	7.3	.72	7.6	.34	1.6	.31	5.4	.04	.3	.02	.2
\$35,000 OR MORE.....	3.9	.45	4.7	.22	1.0	.21	3.5	.02	.2	.01	.1
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	4.7	.34	3.5	.16	.8	.12	2.2	.02	.2	.03	.3
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	6.3	.46	4.7	.22	1.0	.16	2.9	.03	.3	.04	.4
AGE OF HOUSEHOLD HEAD											
UNDER 35 YEARS.....	8.8	.72	7.7	.34	1.6	.32	5.6	.03	.3	.03	.2
35 TO 59 YEARS.....	10.8	1.07	11.1	.50	2.3	.47	7.8	.06	.6	.04	.4
60 YEARS AND OVER.....	8.1	.67	6.8	.32	1.4	.24	4.3	.07	.6	.05	.5

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Region: South

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
<b>HOUSEHOLD MEMBERS</b>											
1.....	5.0	0.33	3.3	0.16	0.7	0.11	2.1	0.04	0.4	0.02	0.2
2.....	9.6	.80	8.4	.35	1.6	.33	5.8	.06	.5	.05	.5
3 OR MORE.....	13.1	1.34	13.8	.65	3.0	.58	9.8	.06	.5	.05	.5
<b>MAIN HEATING FUEL</b>											
NATURAL GAS.....	13.0	1.53	12.1	1.12	5.1	.41	6.9	Q	Q	Q	Q
ELECTRICITY.....	7.7	.43	7.0	.02	.1	.40	6.9	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	2.2	.23	2.7	Q	Q	.07	1.3	.15	1.3	.01	.1
OTHER.....	4.8	.28	3.7	.01	.1	.15	2.6	.01	Q	.11	1.0
<b>HOT WATER FUEL</b>											
NATURAL GAS.....	11.9	1.38	11.0	1.02	4.6	.35	6.2	.02	.2	Q	Q
ELECTRICITY.....	13.9	.92	12.7	.14	.7	.63	10.6	.09	.8	.06	.6
FUEL OIL OR KEROSENE.....	.3	.04	.4	Q	Q	.01	.1	.03	.3	Q	Q
OTHER.....	1.6	.12	1.4	Q	Q	.04	.8	.01	.1	.06	.5
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>											
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 5,500 TO 7,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 4,000 TO 5,499 HDD.....	5.9	.62	5.8	.32	1.5	.19	3.4	.09	.8	.02	.2
<2,000 CDD AND <4,000 HDD.....	10.5	.96	9.2	.45	1.9	.40	6.3	.06	.5	.05	.5
>2,000 CDD AND <4,000 HDD.....	11.3	.89	10.5	.39	1.8	.43	8.0	.02	.2	.05	.4

See footnotes at end of table.



# Total Residential Consumption and Expenditures

**Table 1. (Continued)**  
**Census Division: South Atlantic**

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
TOTAL HOUSEHOLDS.....	14.1	1.15	13.2	0.45	2.4	0.49	8.9	0.14	1.3	0.07	0.7
AREA TYPE											
URBAN.....	7.8	.69	7.5	.34	1.8	.26	4.9	.07	.6	.02	.2
RURAL.....	6.3	.47	5.8	.11	.5	.23	4.1	.08	.7	.05	.5
SMSA											
SMSA.....	8.2	.66	7.9	.28	1.5	.30	5.6	.06	.6	.02	.2
NON-SMSA.....	6.0	.49	5.3	.17	.9	.19	3.3	.08	.7	.05	.5
UTILITIES PAID BY HOUSEHOLD											
ALL PAID BY HOUSEHOLD.....	12.6	1.03	12.1	.37	1.9	.46	8.3	.13	1.2	.07	.7
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	1.5	.13	1.2	.08	.4	.03	.6	.01	.1	Q	Q
TYPE OF HOUSING STRUCTURE											
SINGLE FAMILY OR MOBILE HOME..	10.8	.95	10.7	.37	1.9	.39	7.0	.12	1.1	.07	.7
2 OR MORE UNITS.....	3.4	.20	2.5	.08	.5	.10	1.9	.02	.2	Q	Q
NUMBER OF ROOMS											
1 TO 3.....	1.6	.07	.9	.03	.2	.03	.7	.01	.1	Q	Q
4 TO 5.....	6.8	.46	5.7	.14	.8	.22	4.0	.06	.6	.04	.4
6 OR MORE.....	5.8	.61	6.6	.28	1.5	.24	4.2	.07	.6	.03	.3
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED											
ALL.....	7.3	.62	7.4	.25	1.3	.30	5.5	.04	.4	.02	.2
SOME.....	2.6	.26	2.7	.10	.5	.08	1.5	.05	.4	.02	.2
NONE.....	4.2	.28	3.2	.10	.5	.11	1.9	.05	.4	.03	.3
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)											
LESS THAN 999.....	5.4	0.32	3.9	0.11	0.6	0.14	2.6	0.05	0.4	0.02	0.2
1,000 TO 1,999.....	6.6	.55	6.5	.20	1.1	.25	4.5	.06	.5	.04	.4
2,000 OR MORE.....	2.2	.28	2.9	.14	.7	.10	1.8	.03	.3	.01	.1
YEAR HOUSE BUILT											
1939 OR EARLIER.....	2.6	.25	2.4	.12	.6	.07	1.2	.04	.3	.03	.3
1940 TO 1959.....	3.1	.26	2.7	.12	.6	.09	1.6	.04	.4	.01	.1
1960 OR LATER.....	8.5	.64	8.1	.21	1.1	.33	6.1	.06	.6	.03	.3
OWN/RENT											
OWN.....	9.0	.80	9.2	.31	1.6	.34	6.1	.10	.9	.05	.5
RENT.....	5.1	.35	4.1	.14	.7	.15	2.8	.04	.4	.02	.2
1980 FAMILY INCOME											
LESS THAN \$10,000.....	4.4	.28	3.3	.09	.5	.11	2.1	.05	.5	.03	.3
\$10,000 TO \$19,999.....	4.0	.30	3.5	.10	.5	.14	2.5	.04	.4	.02	.2
\$20,000 TO \$34,999.....	3.8	.36	4.1	.15	.8	.15	2.8	.03	.3	.01	.2
\$35,000 OR MORE.....	1.9	.21	2.3	.11	.6	.08	1.5	.02	.1	.01	.1
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	2.4	.15	1.8	.06	.3	.06	1.1	.02	.2	.02	.2
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	3.1	.20	2.4	.07	.4	.08	1.5	.03	.3	.02	.2
AGE OF HOUSEHOLD HEAD											
UNDER 35 YEARS.....	4.4	.33	3.9	.13	.7	.16	2.9	.03	.3	.02	.1
35 TO 59 YEARS.....	5.5	.51	5.6	.21	1.1	.22	3.8	.05	.5	.02	.2
60 YEARS AND OVER.....	4.3	.32	3.7	.11	.6	.12	2.3	.06	.5	.03	.3

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Division: South Atlantic

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
<b>HOUSEHOLD MEMBERS</b>											
1.....	2.6	0.16	1.8	0.06	0.3	0.05	1.0	0.04	0.3	0.01	0.1
2.....	5.0	.38	4.5	.13	.7	.16	3.1	.05	.5	.03	.3
3 OR MORE.....	6.5	.62	7.0	.26	1.4	.28	4.9	.05	.5	.03	.3
<b>MAIN HEATING FUEL</b>											
NATURAL GAS.....	4.8	.57	4.6	.44	2.3	.13	2.3	Q	Q	Q	Q
ELECTRICITY.....	4.4	.22	4.0	.01	Q	.21	3.9	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	2.0	.20	2.4	Q	Q	.06	1.1	.13	1.2	.01	.1
OTHER.....	2.9	.16	2.2	Q	Q	.09	1.6	.01	Q	.06	.6
<b>HOT WATER FUEL</b>											
NATURAL GAS.....	4.1	.50	3.9	.38	2.0	.10	1.8	.02	.2	Q	Q
ELECTRICITY.....	8.8	.55	8.0	.07	.4	.36	6.5	.08	.7	.04	.4
FUEL OIL OR KEROSENE.....	.3	.04	.4	Q	Q	.01	.1	.03	.3	Q	Q
OTHER.....	.9	.06	.8	Q	Q	.02	.4	.01	.1	.03	.3
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>											
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 5,500 TO 7,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 4,000 TO 5,499 HDD.....	4.5	.46	4.5	.23	1.2	.14	2.5	.08	.7	.02	.2
<2,000 CDD AND <4,000 HDD.....	5.6	.48	5.1	.20	1.0	.20	3.3	.05	.5	.03	.3
>2,000 CDD AND <4,000 HDD.....	4.1	.22	3.7	.03	.2	.16	3.2	.02	.2	.02	.2

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Division: East South  
Central

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
TOTAL HOUSEHOLDS.....	5.6	0.53	5.0	0.24	1.0	0.25	3.7	0.01	0.1	0.02	0.2
AREA TYPE											
URBAN.....	2.7	.29	2.4	.17	.7	.11	1.6	Q	Q	Q	Q
RURAL.....	2.9	.24	2.6	.07	.3	.14	2.0	.01	.1	.02	.2
SMSA											
SMSA.....	2.3	.25	2.1	.13	.5	.11	1.5	Q	Q	Q	Q
NON-SMSA.....	3.3	.28	2.8	.11	.4	.15	2.2	.01	.1	.02	.2
UTILITIES PAID BY HOUSEHOLD											
ALL PAID BY HOUSEHOLD.....	5.4	.51	4.8	.22	.9	.25	3.6	.01	.1	.02	.2
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	.2	.02	.1	.01	.1	.01	.1	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE											
SINGLE FAMILY OR MOBILE HOME..	5.0	.49	4.6	.22	.9	.23	3.3	.01	.1	.02	.2
2 OR MORE UNITS.....	.6	.04	.4	.02	.1	.02	.3	Q	Q	Q	Q
NUMBER OF ROOMS											
1 TO 3.....	.5	.03	.3	.01	Q	.01	.2	Q	Q	Q	Q
4 TO 5.....	2.6	.21	2.0	.10	.4	.10	1.4	Q	Q	.01	.1
6 OR MORE.....	2.5	.29	2.7	.13	.5	.14	2.0	.01	.1	.01	.1
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED											
ALL.....	3.7	.37	3.5	.16	.7	.19	2.7	.01	.1	.01	.1
SOME.....	1.0	.09	.8	.04	.2	.04	.6	Q	Q	Q	Q
NONE.....	.9	.06	.6	.03	.1	.02	.4	Q	Q	.01	.1
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)											
LESS THAN 999.....	1.8	0.12	1.2	0.05	0.2	0.06	0.8	Q	Q	0.01	0.1
1,000 TO 1,999.....	2.7	.26	2.5	.12	.5	.13	1.8	Q	Q	.01	.1
2,000 OR MORE.....	1.1	.15	1.3	.07	.3	.07	1.0	Q	Q	Q	Q
YEAR HOUSE BUILT											
1939 OR EARLIER.....	.8	.07	.6	.04	.2	.02	.3	Q	Q	Q	Q
1940 TO 1959.....	1.6	.17	1.4	.09	.4	.06	.9	0.01	0.1	.01	.1
1960 OR LATER.....	3.2	.28	3.0	.10	.4	.17	2.4	Q	Q	.01	.1
OWN/RENT											
OWN.....	4.4	.44	4.1	.19	.8	.21	3.1	.01	.1	.02	.2
RENT.....	1.2	.09	.8	.05	.2	.04	.6	Q	Q	Q	Q
1980 FAMILY INCOME											
LESS THAN \$10,000.....	1.9	.15	1.4	.07	.3	.07	1.0	.01	Q	.01	.1
\$10,000 TO \$19,999.....	1.6	.15	1.3	.07	.3	.06	1.0	Q	Q	Q	Q
\$20,000 TO \$34,999.....	1.3	.12	1.2	.05	.2	.06	.9	Q	Q	.01	Q
\$35,000 OR MORE.....	.9	.11	1.0	.05	.2	.06	.8	Q	Q	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.0	.07	.7	.03	.1	.03	.5	Q	Q	.01	.1
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.3	.10	.9	.04	.2	.04	.6	Q	Q	.01	.1
AGE OF HOUSEHOLD HEAD											
UNDER 35 YEARS.....	1.6	.13	1.3	.07	.3	.06	1.0	Q	Q	Q	Q
35 TO 59 YEARS.....	2.5	.25	2.4	.10	.4	.13	1.8	.01	.1	.01	.1
60 YEARS AND OVER.....	1.6	.14	1.3	.07	.3	.06	.9	Q	Q	.01	.1

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Division: East South  
Central

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
<b>HOUSEHOLD MEMBERS</b>											
1.....	1.0	0.07	0.6	0.04	0.1	0.03	0.4	Q	Q	Q	Q
2.....	1.9	.17	1.6	.08	.3	.08	1.2	0.01	Q	0.01	0.1
3 OR MORE.....	2.8	.28	2.7	.12	.5	.15	2.1	Q	Q	.01	.1
<b>MAIN HEATING FUEL</b>											
NATURAL GAS.....	2.5	.32	2.3	.23	1.0	.09	1.3	Q	Q	Q	Q
ELECTRICITY.....	1.8	.11	1.6	Q	Q	.11	1.6	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	.2	.02	.2	Q	Q	.01	.1	.01	0.1	Q	Q
OTHER.....	1.1	.07	.8	Q	Q	.04	.7	Q	Q	.02	.2
<b>HOT WATER FUEL</b>											
NATURAL GAS.....	1.9	.25	1.8	.19	.8	.06	1.0	Q	Q	Q	Q
ELECTRICITY.....	3.5	.26	3.0	.05	.2	.18	2.6	.01	.1	.01	.1
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.2	.01	.2	Q	Q	.01	.1	Q	Q	.01	.1
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>											
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 5,500 TO 7,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.5	.16	1.3	.09	.3	.06	.9	.01	.1	Q	Q
<2,000 CDD AND <4,000 HDD.....	3.2	.28	2.8	.10	.5	.16	2.2	Q	Q	.01	.1
>2,000 CDD AND <4,000 HDD.....	1.0	.09	.8	.05	.2	.04	.6	Q	Q	Q	Q

See footnotes at end of table.





# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Division: West South  
Central

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
TOTAL HOUSEHOLDS.....	8.0	0.78	7.3	0.47	2.0	0.28	5.1	Q	Q	0.03	0.2
AREA TYPE											
URBAN.....	5.8	.59	5.3	.38	1.6	.21	3.7	Q	Q	Q	Q
RURAL.....	2.1	.19	2.0	.09	.4	.08	1.4	Q	Q	.03	.2
SMSA											
SMSA.....	5.3	.54	4.9	.33	1.3	.20	3.5	Q	Q	.01	.1
NON-SMSA.....	2.6	.25	2.4	.14	.7	.08	1.6	Q	Q	.02	.2
UTILITIES PAID BY HOUSEHOLD											
ALL PAID BY HOUSEHOLD.....	7.2	.72	6.7	.44	1.8	.26	4.6	Q	Q	.03	.2
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	.8	.06	.6	.03	.1	.03	.5	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE											
SINGLE FAMILY OR MOBILE HOME..	6.9	.71	6.4	.43	1.8	.24	4.4	Q	Q	.03	.2
2 OR MORE UNITS.....	1.1	.08	.9	.04	.2	.04	.7	Q	Q	Q	Q
NUMBER OF ROOMS											
1 TO 3.....	.8	.05	.5	.03	.1	.02	.3	Q	Q	Q	Q
4 TO 5.....	4.3	.39	3.6	.24	1.0	.14	2.5	Q	Q	.02	.1
6 OR MORE.....	2.9	.34	3.3	.20	.8	.13	2.3	Q	Q	.01	.1
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED											
ALL.....	5.1	.51	5.2	.28	1.2	.22	3.9	Q	Q	.01	.1
SOME.....	1.5	.15	1.3	.10	.4	.04	.8	Q	Q	.01	.1
NONE.....	1.4	.12	.8	.09	.3	.02	.4	Q	Q	.01	.1
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)											
LESS THAN 999.....	3.0	0.24	2.1	0.15	0.6	0.07	1.4	Q	Q	0.01	0.1
1,000 TO 1,999.....	4.1	.43	4.0	.26	1.1	.15	2.8	Q	Q	.02	.2
2,000 OR MORE.....	.9	.12	1.2	.06	.3	.06	.9	Q	Q	Q	Q
YEAR HOUSE BUILT											
1939 OR EARLIER.....	1.5	.14	1.1	.09	.4	.03	.6	Q	Q	.01	.1
1940 TO 1959.....	2.4	.25	2.0	.17	.7	.07	1.3	Q	Q	Q	Q
1960 OR LATER.....	4.1	.40	4.2	.21	.9	.18	3.2	Q	Q	.01	.1
OWN/RENT											
OWN.....	5.6	.58	5.4	.35	1.5	.21	3.8	Q	Q	.02	.2
RENT.....	2.4	.20	1.9	.11	.5	.07	1.3	Q	Q	.01	.1
1980 FAMILY INCOME											
LESS THAN \$10,000.....	2.5	.21	1.8	.14	.6	.06	1.1	Q	Q	.01	.1
\$10,000 TO \$19,999.....	2.1	.21	1.8	.13	.5	.07	1.2	Q	Q	.01	.1
\$20,000 TO \$34,999.....	2.2	.24	2.3	.14	.6	.10	1.7	Q	Q	Q	Q
\$35,000 OR MORE.....	1.1	.13	1.4	.06	.3	.07	1.1	Q	Q	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.4	.11	1.0	.08	.4	.03	.6	Q	Q	.01	.1
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.9	.16	1.4	.11	.5	.04	.8	Q	Q	.01	.1
AGE OF HOUSEHOLD HEAD											
UNDER 35 YEARS.....	2.8	.26	2.5	.15	.6	.10	1.8	Q	Q	.01	.1
35 TO 59 YEARS.....	2.9	.32	3.0	.19	.8	.12	2.2	Q	Q	.01	.1
60 YEARS AND OVER.....	2.2	.21	1.8	.14	.6	.06	1.1	Q	Q	.01	.1

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Division: West South  
Central

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
<b>HOUSEHOLD MEMBERS</b>											
1.....	1.5	0.10	0.9	0.06	0.3	0.03	0.6	Q	Q	Q	Q
2.....	2.6	.25	2.3	.14	.6	.09	1.6	Q	Q	0.01	0.1
3 OR MORE.....	3.8	.44	4.1	.26	1.1	.16	2.9	Q	Q	.01	.1
<b>MAIN HEATING FUEL</b>											
NATURAL GAS.....	5.7	.63	5.2	.45	1.9	.18	3.3	Q	Q	Q	Q
ELECTRICITY.....	1.5	.10	1.4	.02	.1	.08	1.4	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.8	.06	.6	.01	Q	.02	.4	Q	Q	.03	.2
<b>HOT WATER FUEL</b>											
NATURAL GAS.....	5.9	.63	5.3	.45	1.9	.19	3.4	Q	Q	Q	Q
ELECTRICITY.....	1.6	.11	1.6	.02	.1	.09	1.5	Q	Q	.01	Q
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.5	.04	.4	Q	Q	.01	.2	Q	Q	.02	.2
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>											
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND >7,000 CDD.....	-	-	-	-	-	-	-	-	-	-	-
5,500 TO 7,000 HDD.....	-	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND >7,000 CDD.....	-	-	-	-	-	-	-	-	-	-	-
4,000 TO 5,499 HDD.....	-	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND <4,000 HDD.....	1.7	.20	1.4	.15	.5	.05	.8	Q	Q	.01	Q
>2,000 CDD AND <4,000 HDD.....	6.2	.58	6.0	.32	1.5	.24	4.3	Q	Q	.03	.2

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Region: West

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
TOTAL HOUSEHOLDS.....	16.3	1.47	11.7	0.93	3.8	0.46	7.4	0.03	0.3	0.04	0.3
AREA TYPE											
URBAN.....	13.0	1.18	9.0	.82	3.3	.33	5.5	.02	.2	Q	Q
RURAL.....	3.3	.29	2.7	.12	.5	.13	1.8	.01	.1	.04	.3
SMSA											
SMSA.....	12.8	1.15	9.1	.80	3.2	.32	5.6	.03	.2	.01	.1
NON-SMSA.....	3.5	.31	2.6	.14	.5	.14	1.8	.01	.1	.03	.2
UTILITIES PAID BY HOUSEHOLD											
ALL PAID BY HOUSEHOLD.....	14.1	1.30	10.5	.82	3.3	.42	6.6	.03	.3	.03	.3
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	2.2	.16	1.3	.12	.4	.04	.7	Q	Q	.01	.1
TYPE OF HOUSING STRUCTURE											
SINGLE FAMILY OR MOBILE HOME..	12.3	1.24	9.9	.78	3.2	.38	6.1	.03	.3	.04	.3
2 OR MORE UNITS.....	4.0	.23	1.8	.15	.6	.08	1.2	Q	Q	Q	Q
NUMBER OF ROOMS											
1 TO 3.....	2.2	.12	.9	.08	.3	.04	.6	Q	Q	Q	Q
4 TO 5.....	7.3	.57	4.5	.35	1.4	.19	2.9	.01	.1	.01	.1
6 OR MORE.....	6.9	.78	6.3	.51	2.1	.23	3.8	.02	.2	.02	.2
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED											
ALL.....	3.6	.35	3.3	.20	.8	.14	2.4	Q	Q	.01	.1
SOME.....	1.9	.16	1.2	.11	.4	.05	.8	Q	Q	Q	Q
NONE.....	10.7	.96	7.2	.63	2.5	.28	4.2	.03	.2	.02	.2
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)											
LESS THAN 999.....	6.0	0.38	3.1	0.24	1.0	0.13	2.0	0.01	0.1	0.01	0.1
1,000 TO 1,999.....	7.8	.72	5.9	.45	1.8	.23	3.8	.02	.1	.02	.1
2,000 OR MORE.....	2.5	.36	2.7	.24	1.0	.10	1.6	.01	.1	.01	.1
YEAR HOUSE BUILT											
1939 OR EARLIER.....	3.6	.33	2.4	.23	.9	.08	1.3	.01	.1	.01	.1
1940 TO 1959.....	4.5	.43	3.3	.29	1.1	.12	1.9	.02	.1	.01	.1
1960 OR LATER.....	8.2	.71	6.1	.42	1.7	.26	4.2	.01	Q	.02	.2
OWN/RENT											
OWN.....	10.0	1.03	8.3	.65	2.6	.32	5.1	.03	.2	.03	.3
RENT.....	6.2	.44	3.5	.28	1.1	.14	2.2	.01	.1	.01	Q
1980 FAMILY INCOME											
LESS THAN \$10,000.....	4.0	.31	2.4	.21	.8	.09	1.5	.01	.1	.01	.1
\$10,000 TO \$19,999.....	4.1	.33	2.6	.21	.8	.11	1.6	.01	.1	.01	.1
\$20,000 TO \$34,999.....	5.0	.46	3.8	.28	1.1	.16	2.5	.01	.1	.01	.1
\$35,000 OR MORE.....	3.2	.37	2.9	.24	1.0	.10	1.8	.01	.1	.01	.1
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.9	.15	1.2	.10	.4	.04	.7	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.9	.23	1.8	.15	.6	.07	1.1	Q	Q	.01	.1
AGE OF HOUSEHOLD HEAD											
UNDER 35 YEARS.....	6.5	.51	4.0	.33	1.3	.17	2.5	Q	Q	.01	.1
35 TO 59 YEARS.....	6.4	.66	5.6	.42	1.7	.21	3.6	.01	.1	.02	.2
60 YEARS AND OVER.....	3.4	.29	2.2	.18	.7	.08	1.3	.02	.1	.01	.1

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Region: West

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
<b>HOUSEHOLD MEMBERS</b>											
1.....	2.6	0.17	1.3	0.11	0.5	0.05	0.8	0.01	0.1	Q	Q
2.....	5.7	.46	3.7	.29	1.1	.15	2.4	.01	.1	0.01	0.1
3 OR MORE.....	8.0	.83	6.7	.53	2.2	.26	4.2	.01	.1	.02	.2
<b>MAIN HEATING FUEL</b>											
NATURAL GAS.....	10.8	1.10	7.8	.88	3.5	.22	4.3	Q	Q	Q	Q
ELECTRICITY.....	3.4	.20	2.2	.03	.1	.17	2.0	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	.4	.05	.4	Q	Q	.02	.1	.03	.3	Q	Q
OTHER.....	1.7	.11	1.4	.02	.1	.05	1.0	Q	Q	.04	.3
<b>HOT WATER FUEL</b>											
NATURAL GAS.....	11.2	1.12	8.0	.89	3.5	.22	4.5	Q	Q	Q	Q
ELECTRICITY.....	4.3	.29	3.0	.04	.2	.22	2.4	.03	.2	.01	Q
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.7	.05	.7	Q	Q	.02	.5	Q	Q	.03	.3
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>											
<2,000 CDD AND >7,000 HDD.....	1.3	.19	1.1	.15	.5	.03	.5	Q	Q	.01	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.7	.17	1.3	.09	.3	.07	.8	Q	Q	.01	.1
<2,000 CDD AND 4,000 TO 5,499 HDD.....	3.3	.27	2.2	.10	.5	.14	1.4	.02	.2	Q	Q
<2,000 CDD AND <4,000 HDD.....	9.1	.78	6.4	.57	2.2	.19	4.0	Q	Q	.02	.2
>2,000 CDD AND <4,000 HDD.....	.9	.06	.8	.03	.1	.03	.7	Q	Q	Q	Q

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Division: Mountain

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
TOTAL HOUSEHOLDS.....	4.0	0.42	3.1	0.28	1.1	0.11	1.8	0.01	Q	0.02	0.1
AREA TYPE											
URBAN.....	2.8	.30	2.2	.23	.9	.07	1.3	Q	Q	Q	Q
RURAL.....	1.1	.11	.9	.06	.2	.04	.5	Q	Q	.02	.1
SMSA											
SMSA.....	2.4	.25	1.9	.19	.8	.06	1.1	Q	Q	Q	Q
NON-SMSA.....	1.6	.16	1.2	.09	.4	.06	.7	Q	Q	.02	.1
UTILITIES PAID BY HOUSEHOLD											
ALL PAID BY HOUSEHOLD.....	3.3	.36	2.7	.24	1.0	.10	1.6	.01	Q	.01	.1
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	.6	.06	.5	.04	.2	.01	.3	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE											
SINGLE FAMILY OR MOBILE HOME..	3.3	.36	2.7	.24	1.0	.10	1.6	.01	Q	.02	.1
2 OR MORE UNITS.....	.7	.05	.4	.04	.2	.01	.2	Q	Q	Q	Q
NUMBER OF ROOMS											
1 TO 3.....	.5	.04	.3	.03	.1	.01	.2	Q	Q	Q	Q
4 TO 5.....	1.9	.18	1.4	.12	.5	.05	.8	Q	Q	.01	.1
6 OR MORE.....	1.5	.20	1.4	.13	.5	.05	.9	Q	Q	.01	.1
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED											
ALL.....	.9	.09	.9	.04	.2	.04	.7	Q	Q	Q	Q
SOME.....	.4	.04	.3	.03	.1	.01	.2	Q	Q	Q	Q
NONE.....	2.6	.29	2.0	.21	.8	.06	1.0	Q	Q	.01	.1
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)											
LESS THAN 999.....	1.5	0.13	0.9	0.09	0.4	0.03	0.5	Q	Q	0.01	Q
1,000 TO 1,999.....	1.7	.17	1.4	.11	.5	.06	.9	Q	Q	Q	Q
2,000 OR MORE.....	.7	.12	.8	.08	.3	.03	.4	Q	Q	.01	Q
YEAR HOUSE BUILT											
1939 OR EARLIER.....	.7	.08	.5	.05	.2	.01	.2	Q	Q	.01	Q
1940 TO 1959.....	1.0	.11	.7	.08	.3	.02	.4	Q	Q	Q	Q
1960 OR LATER.....	2.3	.23	1.9	.14	.6	.08	1.2	Q	Q	.01	0.1
OWN/RENT											
OWN.....	2.7	.30	2.3	.20	.8	.08	1.3	Q	Q	.01	.1
RENT.....	1.2	.11	.8	.08	.3	.03	.5	Q	Q	Q	Q
1980 FAMILY INCOME											
LESS THAN \$10,000.....	1.2	.11	.9	.08	.3	.03	.5	Q	Q	Q	Q
\$10,000 TO \$19,999.....	1.3	.13	.9	.08	.3	.03	.5	Q	Q	.01	Q
\$20,000 TO \$34,999.....	1.0	.12	.9	.08	.3	.03	.5	Q	Q	.01	Q
\$35,000 OR MORE.....	.4	.06	.5	.04	.2	.02	.3	Q	Q	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.5	.05	.4	.04	.2	.01	.2	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.8	.08	.6	.05	.2	.02	.3	Q	Q	Q	Q
AGE OF HOUSEHOLD HEAD											
UNDER 35 YEARS.....	1.8	.17	1.2	.12	.5	.05	.7	Q	Q	.01	Q
35 TO 59 YEARS.....	1.4	.17	1.3	.11	.4	.05	.8	Q	Q	.01	Q
60 YEARS AND OVER.....	.7	.08	.6	.05	.2	.02	.3	Q	Q	.01	Q

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Division: Mountain

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
<b>HOUSEHOLD MEMBERS</b>											
1.....	0.7	0.06	0.4	0.04	0.2	0.01	0.2	Q	Q	Q	Q
2.....	1.3	.13	1.0	.09	.4	.03	.6	Q	Q	Q	Q
3 OR MORE.....	1.9	.23	1.7	.15	.6	.07	1.0	Q	Q	0.01	0.1
<b>MAIN HEATING FUEL</b>											
NATURAL GAS.....	2.8	.34	2.2	.27	1.1	.06	1.1	Q	Q	Q	Q
ELECTRICITY.....	.6	.04	.6	Q	Q	.04	.5	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	.1	.01	.1	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.4	.03	.3	Q	Q	.01	.2	Q	Q	.02	.1
<b>HOT WATER FUEL</b>											
NATURAL GAS.....	2.8	.33	2.2	.27	1.1	.06	1.1	Q	Q	Q	Q
ELECTRICITY.....	.9	.07	.8	.01	.1	.05	.6	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.2	.02	.2	Q	Q	Q	.1	Q	Q	.01	.1
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>											
<2,000 CDD AND >7,000 HDD.....	1.2	.16	1.0	.13	.5	.03	.4	Q	Q	.01	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.4	.15	1.1	.09	.3	.05	.7	Q	Q	.01	.1
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.3	.03	.2	.02	.1	.01	.1	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	.4	.03	.3	.02	.1	.01	.2	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	.6	.04	.5	.02	.1	.02	.4	Q	Q	Q	Q

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Division: Pacific

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
TOTAL HOUSEHOLDS.....	12.3	1.05	8.6	0.65	2.6	0.35	5.5	0.03	0.3	0.02	0.2
AREA TYPE											
URBAN.....	10.2	.87	6.8	.59	2.4	.26	4.2	.02	.2	Q	Q
RURAL.....	2.2	.18	1.8	.06	.3	.09	1.3	.01	.1	.02	.2
SMSA											
SMSA.....	10.4	.90	7.2	.60	2.5	.27	4.5	.02	.2	.01	.1
NON-SMSA.....	1.9	.15	1.4	.05	.2	.08	1.1	.01	Q	.01	.1
UTILITIES PAID BY HOUSEHOLD											
ALL PAID BY HOUSEHOLD.....	10.7	.95	7.8	.58	2.4	.32	5.1	.03	.2	.02	.2
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	1.6	.10	.8	.07	.3	.02	.5	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE											
SINGLE FAMILY OR MOBILE HOME..	9.0	.87	7.2	.54	2.2	.29	4.5	.03	.2	.02	.2
2 OR MORE UNITS.....	3.3	.18	1.4	.11	.4	.06	1.0	Q	Q	Q	Q
NUMBER OF ROOMS											
1 TO 3.....	1.7	.08	.6	.05	.2	.03	.4	Q	Q	Q	Q
4 TO 5.....	5.3	.38	3.1	.23	.9	.14	2.1	.01	.1	.01	.1
6 OR MORE.....	5.3	.58	4.8	.38	1.6	.18	3.0	.02	.1	.02	.1
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED											
ALL.....	2.7	.26	2.4	.15	.6	.09	1.7	Q	Q	.01	.1
SOME.....	1.5	.12	1.0	.08	.3	.03	.6	Q	Q	Q	Q
NONE.....	8.1	.67	5.2	.42	1.7	.22	3.2	.03	.2	.01	.1
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)											
LESS THAN 999.....	4.5	0.26	2.2	0.15	0.6	0.09	1.5	Q	Q	0.01	0.1
1,000 TO 1,999.....	6.1	.55	4.5	.34	1.4	.18	2.9	0.01	0.1	.01	.1
2,000 OR MORE.....	1.8	.25	2.0	.16	.7	.08	1.2	.01	.1	Q	Q
YEAR HOUSE BUILT											
1939 OR EARLIER.....	3.0	.25	1.9	.17	.7	.07	1.1	.01	.1	Q	Q
1940 TO 1959.....	3.5	.32	2.6	.21	.8	.10	1.6	.01	.1	.01	.1
1960 OR LATER.....	5.8	.48	4.2	.27	1.1	.19	2.9	Q	Q	.01	.1
OWN/RENT											
OWN.....	7.3	.73	6.0	.45	1.8	.23	3.8	.02	.2	.02	.2
RENT.....	5.0	.33	2.6	.20	.8	.11	1.8	.01	.1	Q	Q
1980 FAMILY INCOME											
LESS THAN \$10,000.....	2.8	.20	1.6	.13	.5	.06	1.0	.01	Q	Q	Q
\$10,000 TO \$19,999.....	2.8	.21	1.7	.12	.5	.07	1.1	.01	.1	Q	Q
\$20,000 TO \$34,999.....	4.0	.34	2.9	.20	.8	.13	1.9	.01	.1	.01	.1
\$35,000 OR MORE.....	2.8	.30	2.5	.20	.8	.09	1.5	.01	.1	.01	.1
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.4	.09	.8	.06	.2	.03	.5	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.1	.15	1.2	.10	.4	.05	.8	Q	Q	Q	Q
AGE OF HOUSEHOLD HEAD											
UNDER 35 YEARS.....	4.7	.34	2.7	.21	.8	.12	1.8	Q	Q	Q	Q
35 TO 59 YEARS.....	5.0	.50	4.3	.31	1.3	.16	2.8	.01	.1	.02	.1
60 YEARS AND OVER.....	2.6	.21	1.6	.13	.5	.06	.9	.01	.1	Q	Q

See footnotes at end of table.



# Total Residential Consumption and Expenditures

Table 1. (Continued)  
Census Division: Pacific

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS (MILLIONS)	ALL FUELS		NATURAL GAS		ELECTRICITY		FUEL OIL OR KEROSENE		LIQUEFIED PETROLEUM GAS	
		TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)	TOTAL AMOUNT CONSUMED (QUADRILLION BTU)	TOTAL EXPENDITURES (BILLION DOLLARS)
<b>HOUSEHOLD MEMBERS</b>											
1.....	1.9	0.12	0.9	0.07	0.3	0.04	0.5	0.01	Q	Q	Q
2.....	4.4	.33	2.8	.19	.8	.12	1.8	.01	0.1	0.01	0.1
3 OR MORE.....	6.1	.60	5.0	.38	1.6	.19	3.2	.01	.1	.01	.1
<b>MAIN HEATING FUEL</b>											
NATURAL GAS.....	7.9	.77	5.6	.61	2.4	.16	3.2	Q	Q	Q	Q
ELECTRICITY.....	2.8	.16	1.6	.03	.1	.13	1.5	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	.4	.04	.4	Q	Q	.01	.1	.03	.2	Q	Q
OTHER.....	1.3	.08	1.0	.02	.1	.04	.8	Q	Q	.02	.2
<b>HOT WATER FUEL</b>											
NATURAL GAS.....	8.4	.79	5.8	.62	2.4	.16	3.3	Q	Q	Q	Q
ELECTRICITY.....	3.4	.22	2.2	.03	.2	.17	1.8	.02	.2	Q	Q
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.5	.04	.6	Q	Q	.02	.4	Q	Q	.02	.2
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>											
<2,000 CDD AND >7,000 HDD.....	.1	.03	.1	.02	Q	Q	.1	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.3	.02	.2	Q	Q	.02	.2	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	2.9	.24	1.9	.08	.4	.13	1.3	.02	.2	Q	Q
<2,000 CDD AND <4,000 HDD.....	8.6	.75	6.1	.55	2.1	.18	3.8	Q	Q	.02	.2
>2,000 CDD AND <4,000 HDD.....	.3	.01	.3	Q	Q	.01	.2	Q	Q	Q	Q

"-" = DATA NOT APPLICABLE.

"Q" = DATA WITHHELD BECAUSE OF A LARGE VARIANCE.

NOTE: BECAUSE OF ROUNDING, DATA MAY NOT SUM TO TOTALS. PERCENTAGES ARE CALCULATED ON UNROUNDED NUMBERS. SEE GLOSSARY FOR DEFINITION OF TERMS USED IN THIS REPORT.

SOURCE: ENERGY INFORMATION ADMINISTRATION, OFFICE OF ENERGY MARKETS AND END USE, ENERGY END USE DIVISION, FORM EIA-457, THE 1981 RESIDENTIAL ENERGY CONSUMPTION SURVEY.





# Average Residential Fuel Consumption

**Table 2. U.S. Average Residential Energy Consumption of All Fuels Used in the Household, by Main Heating Fuel Type—April 1981 Through March 1982, United States (Million Btu per Household)**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL HOUSEHOLDS.....	83.1	114	46.2	136	14.2	58	12.2	138	3.7	97
AREA TYPE										
URBAN.....	57.3	121	38.3	135	8.8	56	8.0	143	.6	66
RURAL.....	25.9	100	8.0	143	5.4	63	4.2	127	3.1	104
SMSA										
SMSA.....	56.6	119	35.2	135	10.1	56	8.4	144	1.2	90
NON-SMSA.....	26.5	104	11.1	140	4.1	64	3.7	124	2.5	101
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	69.6	117	38.7	143	12.5	58	8.6	139	3.5	97
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	13.5	103	7.5	100	1.7	61	3.6	135	.2	96
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	61.8	123	35.5	147	8.1	67	8.2	139	3.7	97
2 OR MORE UNITS.....	21.4	90	10.7	101	6.1	46	3.9	135	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	10.2	72	4.3	80	3.0	41	1.9	115	.4	53
4 TO 5.....	36.7	97	19.9	116	7.0	53	4.8	123	1.9	81
6 OR MORE.....	36.2	144	22.0	165	4.2	79	5.5	158	1.4	130
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	30.7	111	17.2	140	8.8	59	2.1	134	1.4	93
SOME.....	17.7	132	10.5	145	1.8	59	3.8	151	1.0	104
NONE.....	34.7	108	18.5	128	3.6	56	6.3	131	1.4	97
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	28.9	82	13.9	98	6.5	45	4.6	116	1.4	69
1,000 TO 1,999.....	35.8	113	21.1	130	5.8	63	4.4	135	1.8	106
2,000 OR MORE.....	18.4	167	11.1	196	1.9	89	3.2	172	.5	145
YEAR HOUSE BUILT										
1939 OR EARLIER.....	24.2	134	14.2	150	1.2	58	5.1	149	1.2	120
1940 TO 1959.....	20.4	118	13.3	131	1.6	61	3.3	132	.5	81
1960 OR LATER.....	38.5	101	18.6	130	11.4	58	3.7	127	2.0	87
OWN/RENT										
OWN.....	55.1	126	31.9	150	7.4	66	7.7	143	2.9	101
RENT.....	28.0	91	14.3	105	6.8	50	4.4	128	.8	84
1980 FAMILY INCOME										
LESS THAN \$10,000.....	23.3	97	12.2	118	4.2	47	3.5	123	1.3	84
\$10,000 TO \$19,999.....	23.2	107	12.2	129	4.3	57	3.6	131	1.0	98
\$20,000 TO \$34,999.....	24.0	120	14.1	141	3.7	64	3.3	140	1.0	95
\$35,000 OR MORE.....	12.6	148	7.8	168	2.1	75	1.8	177	.4	139

See footnotes at end of table.



# Average Residential Fuel Consumption

Table 2. (Continued)  
United States

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	11.0	96	5.7	122	2.1	48	1.2	123	0.7	74
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	15.8	97	8.3	120	2.8	49	2.0	123	1.0	81
AGE OF HOUSEHOLD HEAD										
UNDER 35 YEARS.....	27.6	100	15.4	122	6.3	53	2.8	122	.9	91
35 TO 59 YEARS.....	33.0	130	18.6	153	4.5	71	5.3	151	1.4	112
60 YEARS AND OVER.....	22.5	109	12.2	129	3.4	52	4.1	130	1.3	85
HOUSEHOLD MEMBERS										
1.....	15.4	88	8.5	102	3.1	40	2.6	117	.6	63
2.....	27.7	106	14.9	128	5.4	54	4.1	132	1.4	89
3 OR MORE.....	40.1	130	22.8	155	5.8	72	5.5	152	1.7	117
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE										
<2,000 CDD AND >7,000 HDD.....	8.8	122	4.1	153	.5	73	1.9	133	.4	125
<2,000 CDD AND 5,500 TO 7,000 HDD.....	21.0	151	14.3	169	2.1	65	3.3	150	.5	151
<2,000 CDD AND 4,000 TO 5,499 HDD.....	21.6	120	9.8	144	3.6	62	5.7	142	.6	110
<2,000 CDD AND <4,000 HDD.....	19.5	89	12.2	102	3.9	58	.8	100	1.1	90
>2,000 CDD AND <4,000 HDD.....	12.2	77	5.8	103	4.1	51	.4	69	1.2	66

See footnotes at end of table.



# Average Residential Fuel Consumption

Table 2. (Continued)  
Census Region: Northeast

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL HOUSEHOLDS.....	17.9	138	7.0	155	1.5	68	7.9	149	0.1	136
AREA TYPE										
URBAN.....	13.7	145	6.2	156	.9	67	6.3	151	Q	Q
RURAL.....	4.2	112	.8	150	.6	71	1.6	139	.1	136
SMSA										
SMSA.....	14.1	142	5.7	155	1.3	66	6.6	152	.1	155
NON-SMSA.....	3.8	120	1.3	157	.3	82	1.3	133	Q	Q
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	12.3	145	5.1	172	1.1	70	4.6	158	.1	129
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	5.7	123	1.9	112	.4	64	3.3	136	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	10.5	150	4.2	179	.7	82	4.3	158	.1	137
2 OR MORE UNITS.....	7.4	120	2.8	119	.9	58	3.6	137	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	2.8	104	.8	98	.4	55	1.5	122	Q	Q
4 TO 5.....	6.7	119	2.6	125	.6	60	3.0	136	Q	Q
6 OR MORE.....	8.5	164	3.6	190	.6	85	3.4	171	.1	176
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	3.2	133	1.5	154	0.6	70	1.0	149	Q	Q
SOME.....	5.5	151	2.4	157	.3	74	2.6	160	0.1	129
NONE.....	9.2	131	3.2	154	.6	64	4.3	142	Q	Q
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	6.1	109	1.9	107	.8	55	3.1	129	Q	Q
1,000 TO 1,999.....	6.8	139	3.1	153	.4	82	2.6	148	.1	176
2,000 OR MORE.....	5.0	171	2.0	206	.3	86	2.2	178	Q	Q
YEAR HOUSE BUILT										
1939 OR EARLIER.....	8.1	145	3.2	162	.2	52	3.9	153	.1	139
1940 TO 1959.....	3.3	146	1.3	154	.1	71	1.8	150	Q	Q
1960 OR LATER.....	6.5	124	2.6	147	1.2	71	2.1	140	Q	Q
OWN/RENT										
OWN.....	11.1	149	4.7	173	.7	82	4.5	159	Q	Q
RENT.....	6.8	119	2.3	120	.9	58	3.4	135	.1	139
1980 FAMILY INCOME										
LESS THAN \$10,000.....	4.2	122	1.5	133	.5	52	2.0	136	Q	Q
\$10,000 TO \$19,999.....	5.3	130	2.1	146	.5	79	2.2	142	Q	Q
\$20,000 TO \$34,999.....	5.5	138	2.3	159	.4	76	2.3	144	Q	Q
\$35,000 OR MORE.....	2.9	176	1.2	191	.2	67	1.3	189	Q	Q

See footnotes at end of table.



# Average Residential Fuel Consumption

**Table 2. (Continued)**  
**Census Region: Northeast**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.6	129	0.6	144	0.2	55	0.7	147	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.6	125	1.0	138	.3	50	1.1	143	Q	Q
AGE OF HOUSEHOLD HEAD										
UNDER 35 YEARS.....	5.4	121	2.4	142	.7	57	1.9	131	0.1	147
35 TO 59 YEARS.....	7.7	155	2.9	174	.4	90	3.6	163	Q	Q
60 YEARS AND OVER.....	4.8	130	1.8	141	.4	64	2.3	140	Q	Q
HOUSEHOLD MEMBERS										
1.....	3.4	110	1.3	109	.4	50	1.7	124	Q	Q
2.....	5.4	130	2.1	145	.5	68	2.5	142	Q	Q
3 OR MORE.....	9.1	153	3.6	178	.7	79	3.7	164	.1	159
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE										
<2,000 CDD AND >7,000 HDD.....	1.9	98	.1	158	.1	76	.8	138	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	7.8	144	3.8	161	.8	65	2.8	151	.1	143
<2,000 CDD AND 4,000 TO 5,499 HDD.....	8.3	141	3.1	147	.6	71	4.4	149	Q	Q
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



# Average Residential Fuel Consumption

**Table 2. (Continued)**  
**Census Division: New**  
**England**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL HOUSEHOLDS.....	4.3	126	1.2	140	0.4	54	2.1	150	Q	Q
AREA TYPE										
URBAN.....	3.2	135	1.1	138	.3	49	1.6	152	Q	Q
RURAL.....	1.1	102	Q	Q	.1	63	.5	145	Q	Q
SMSA										
SMSA.....	3.1	135	1.1	141	.3	58	1.5	152	Q	Q
NON-SMSA.....	1.2	103	Q	Q	.1	39	.6	145	Q	Q
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	3.3	131	.9	152	.3	56	1.6	158	Q	Q
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	1.0	109	.2	96	.1	51	.6	129	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	2.5	135	.6	164	.1	71	1.2	161	Q	Q
2 OR MORE UNITS.....	1.8	115	.6	118	.3	47	.9	135	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	.5	86	.2	101	.1	48	.2	112	Q	Q
4 TO 5.....	1.9	110	.5	119	.2	49	.9	134	Q	Q
6 OR MORE.....	1.9	155	.5	178	.1	82	1.0	170	Q	Q
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	0.5	103	0.1	122	0.1	53	0.1	149	Q	Q
SOME.....	1.3	142	.4	144	.2	60	.7	166	Q	Q
NONE.....	2.5	123	.7	142	.1	48	1.3	142	Q	Q
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	1.6	100	.5	108	.3	45	.8	122	Q	Q
1,000 TO 1,999.....	1.6	129	.4	150	.1	59	.8	151	Q	Q
2,000 OR MORE.....	1.1	162	.3	185	.1	87	.6	185	Q	Q
YEAR HOUSE BUILT										
1939 OR EARLIER.....	2.1	136	.7	146	.1	51	1.1	147	Q	Q
1940 TO 1959.....	.8	130	.2	136	.1	65	.5	149	Q	Q
1960 OR LATER.....	1.4	111	.4	131	.3	53	.5	157	Q	Q
OWN/RENT										
OWN.....	2.7	133	.7	154	.1	67	1.3	159	Q	Q
RENT.....	1.6	115	.5	121	.3	48	.8	135	Q	Q
1980 FAMILY INCOME										
LESS THAN \$10,000.....	1.0	118	.3	125	.1	41	.6	138	Q	Q
\$10,000 TO \$19,999.....	1.4	117	.5	136	.2	49	.6	139	Q	Q
\$20,000 TO \$34,999.....	1.2	127	.3	144	.1	60	.6	149	Q	Q
\$35,000 OR MORE.....	.6	159	.1	181	Q	Q	.4	188	Q	Q

See footnotes at end of table.



# Average Residential Fuel Consumption

**Table 2. (Continued)**  
**Census Division: New England**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	0.4	134	0.2	143	Q	Q	0.2	149	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.6	132	.2	133	Q	Q	.3	151	Q	Q
AGE OF HOUSEHOLD HEAD										
UNDER 35 YEARS.....	1.3	101	.3	119	0.2	51	.5	131	Q	Q
35 TO 59 YEARS.....	1.9	146	.5	165	.1	82	1.0	164	Q	Q
60 YEARS AND OVER.....	1.1	122	.3	124	.1	47	.6	142	Q	Q
HOUSEHOLD MEMBERS										
1.....	.8	99	.2	103	.1	38	.4	119	Q	Q
2.....	1.3	124	.4	128	.1	64	.7	147	Q	Q
3 OR MORE.....	2.1	138	.6	164	.2	64	1.0	165	Q	Q
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE										
<2,000 CDD AND >7,000 HDD.....	1.1	105	.1	158	.1	43	.5	145	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	3.2	134	1.0	138	.3	57	1.7	152	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



# Average Residential Fuel Consumption

Table 2. (Continued)  
Census Division: Middle Atlantic

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL HOUSEHOLDS.....	13.7	141	5.9	158	1.1	73	5.8	148	0.1	155
AREA TYPE										
URBAN.....	10.6	148	5.1	160	.7	73	4.6	151	Q	Q
RURAL.....	3.1	116	.8	147	.5	74	1.1	136	.1	155
SMSA										
SMSA.....	11.0	144	4.5	158	.9	68	5.1	151	.1	155
NON-SMSA.....	2.6	128	1.3	158	.2	98	.7	123	Q	Q
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	9.0	149	4.1	176	.9	74	3.0	158	.1	152
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	4.7	125	1.7	114	.2	71	2.7	137	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	8.1	155	3.6	182	.6	84	3.1	157	.1	152
2 OR MORE UNITS.....	5.6	122	2.2	120	.6	63	2.7	138	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	2.3	108	.6	97	.2	60	1.3	124	Q	Q
4 TO 5.....	4.7	122	2.1	126	.4	66	2.1	137	Q	Q
6 OR MORE.....	6.7	166	3.2	191	.5	85	2.4	171	.1	176
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	2.8	138	1.3	157	0.5	74	0.9	148	Q	Q
SOME.....	4.3	154	2.0	160	.2	89	2.0	158	0.1	139
NONE.....	6.6	134	2.5	158	.5	68	2.9	142	Q	Q
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	4.5	111	1.5	107	.6	60	2.3	131	Q	Q
1,000 TO 1,999.....	5.2	142	2.7	153	.3	89	1.8	146	.1	176
2,000 OR MORE.....	3.9	174	1.7	209	.3	86	1.6	176	Q	Q
YEAR HOUSE BUILT										
1939 OR EARLIER.....	6.0	148	2.5	166	.1	53	2.8	155	.1	150
1940 TO 1959.....	2.6	151	1.1	157	Q	Q	1.3	150	Q	Q
1960 OR LATER.....	5.1	128	2.2	150	1.0	76	1.6	134	Q	Q
OWN/RENT										
OWN.....	8.4	154	4.0	176	.5	86	3.1	159	Q	Q
RENT.....	5.3	121	1.9	120	.6	63	2.7	135	.1	150
1980 FAMILY INCOME										
LESS THAN \$10,000.....	3.2	123	1.2	135	.4	56	1.5	135	Q	Q
\$10,000 TO \$19,999.....	4.0	134	1.6	148	.4	91	1.7	143	Q	Q
\$20,000 TO \$34,999.....	4.3	141	2.0	161	.3	80	1.7	142	Q	Q
\$35,000 OR MORE.....	2.2	180	1.1	193	.1	59	.9	189	Q	Q

See footnotes at end of table.



# Average Residential Fuel Consumption

**Table 2. (Continued)**  
**Census Division: Middle Atlantic**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.3	128	0.5	144	0.2	56	0.6	146	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.0	123	.8	139	.2	51	.8	140	Q	Q
AGE OF HOUSEHOLD HEAD										
UNDER 35 YEARS.....	4.2	126	2.0	146	.5	60	1.4	131	Q	Q
35 TO 59 YEARS.....	5.9	157	2.4	176	.4	91	2.6	163	Q	Q
60 YEARS AND OVER.....	3.6	132	1.4	145	.3	72	1.7	139	Q	Q
HOUSEHOLD MEMBERS										
1.....	2.6	113	1.1	111	.2	58	1.3	126	Q	Q
2.....	4.1	132	1.7	149	.4	68	1.8	140	Q	Q
3 OR MORE.....	6.9	157	3.0	181	.5	84	2.7	164	0.1	176
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE										
<2,000 CDD AND >7,000 HDD.....	.8	89	Q	Q	.1	117	.3	128	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	4.6	151	2.7	170	.5	70	1.1	151	.1	155
<2,000 CDD AND 4,000 TO 5,499 HDD.....	8.3	141	3.1	147	.6	71	4.4	149	Q	Q
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.





# Average Residential Fuel Consumption

**Table 2. (Continued)**  
**Census Region: North Central**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL HOUSEHOLDS.....	21.2	147	15.4	167	1.6	57	1.7	139	1.0	133
AREA TYPE										
URBAN.....	14.2	154	12.4	166	.9	50	.5	130	.1	105
RURAL.....	7.0	132	3.1	171	.7	68	1.2	142	.9	136
SMSA										
SMSA.....	13.9	155	11.6	169	1.1	56	.5	146	.2	154
NON-SMSA.....	7.4	132	3.9	161	.5	61	1.2	135	.9	129
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	18.1	154	13.1	177	1.2	56	1.5	137	1.0	134
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	3.2	103	2.4	113	.3	62	.1	153	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	16.3	160	11.9	181	.6	78	1.5	137	1.0	133
2 OR MORE UNITS.....	4.9	101	3.5	120	1.0	44	.1	156	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	2.4	76	1.3	90	.6	42	.3	101	.1	86
4 TO 5.....	9.2	124	6.8	142	.7	53	.5	125	.4	108
6 OR MORE.....	9.7	185	7.3	204	.3	91	.9	156	.5	159
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	7.8	146	5.8	169	1.0	51	0.4	141	0.3	122
SOME.....	5.1	164	4.0	174	.3	76	.4	171	.3	153
NONE.....	8.4	136	5.6	160	.3	61	.9	123	.4	128
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	6.8	96	4.4	116	1.0	44	.4	107	.3	102
1,000 TO 1,999.....	7.9	147	5.9	162	.3	73	.7	129	.5	130
2,000 OR MORE.....	6.6	197	5.2	216	.2	98	.6	173	.3	174
YEAR HOUSE BUILT										
1939 OR EARLIER.....	7.7	165	5.9	180	.2	64	.6	156	.5	157
1940 TO 1959.....	5.5	146	4.4	162	.1	55	.6	128	.1	107
1960 OR LATER.....	8.0	129	5.2	157	1.3	57	.5	128	.5	112
OWN/RENT										
OWN.....	15.0	164	11.2	183	.5	77	1.4	141	.9	139
RENT.....	6.2	106	4.3	126	1.1	49	.2	124	.1	91
1980 FAMILY INCOME										
LESS THAN \$10,000.....	6.3	127	4.3	150	.6	44	.5	132	.3	108
\$10,000 TO \$19,999.....	6.1	134	4.1	154	.7	62	.5	129	.3	132
\$20,000 TO \$34,999.....	6.2	154	4.9	168	.3	59	.4	142	.2	150
\$35,000 OR MORE.....	2.7	206	2.1	224	.1	118	.3	162	.2	160

See footnotes at end of table.



# Average Residential Fuel Consumption

**Table 2. (Continued)**  
**Census Region: North Central**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	2.7	129	1.9	157	0.2	46	0.1	127	0.1	105
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	4.0	129	2.7	156	.3	45	.3	133	.2	107
AGE OF HOUSEHOLD HEAD										
UNDER 35 YEARS.....	6.9	126	5.0	148	.8	52	.4	110	.2	123
35 TO 59 YEARS.....	8.1	170	5.9	192	.3	70	.6	157	.5	152
60 YEARS AND OVER.....	6.2	140	4.5	156	.5	58	.6	139	.4	113
HOUSEHOLD MEMBERS										
1.....	4.3	110	3.1	125	.6	42	.3	121	.1	96
2.....	7.0	141	5.0	159	.5	58	.7	141	.4	108
3 OR MORE.....	10.0	166	7.3	190	.4	78	.7	143	.5	164
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE										
<2,000 CDD AND >7,000 HDD.....	5.6	125	2.9	151	.2	67	1.2	130	.3	125
<2,000 CDD AND 5,500 TO 7,000 HDD.....	11.5	164	9.7	175	.8	57	.4	152	.3	167
<2,000 CDD AND 4,000 TO 5,499 HDD.....	4.2	129	2.8	154	.6	55	.1	216	.4	112
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



# Average Residential Fuel Consumption

Table 2. (Continued)  
Census Division: East North  
Central

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL HOUSEHOLDS.....	14.6	153	11.2	170	0.8	61	1.2	134	0.5	137
AREA TYPE										
URBAN.....	10.2	159	9.2	168	.6	51	.3	133	.1	98
RURAL.....	4.4	138	2.1	178	.3	79	.9	135	.4	148
SMSA										
SMSA.....	10.6	161	9.1	172	.8	59	.4	151	.1	162
NON-SMSA.....	4.1	131	2.1	161	.1	78	.9	128	.3	128
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	12.5	161	9.3	182	.7	57	1.2	135	.4	139
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	2.1	108	1.9	111	.2	79	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	11.2	166	8.5	186	.3	84	1.2	135	.4	139
2 OR MORE UNITS.....	3.4	108	2.8	121	.5	47	Q	Q	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	1.5	77	1.0	85	.3	46	.2	100	Q	Q
4 TO 5.....	6.3	129	4.9	144	.4	53	.4	121	.2	105
6 OR MORE.....	6.8	191	5.4	208	.2	96	.7	150	.2	171
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	4.4	157	3.5	177	0.5	52	0.2	147	0.1	111
SOME.....	3.6	167	3.0	176	.2	78	.3	162	.1	152
NONE.....	6.6	142	4.8	161	.1	68	.7	119	.3	140
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	4.5	101	3.2	116	.6	48	.3	102	.2	103
1,000 TO 1,999.....	5.6	152	4.3	165	.2	81	.5	131	.2	143
2,000 OR MORE.....	4.5	205	3.7	223	.1	91	.4	165	.1	198
YEAR HOUSE BUILT										
1939 OR EARLIER.....	5.4	170	4.3	184	Q	Q	.5	146	.2	168
1940 TO 1959.....	3.8	158	3.2	168	.1	65	.4	131	Q	Q
1960 OR LATER.....	5.4	131	3.8	155	.7	59	.3	121	.2	111
OWN/RENT										
OWN.....	10.3	170	7.9	188	.2	86	1.1	137	.4	146
RENT.....	4.3	112	3.3	127	.7	54	.1	108	.1	98
1980 FAMILY INCOME										
LESS THAN \$10,000.....	4.6	136	3.5	153	.3	50	.3	133	.2	95
\$10,000 TO \$19,999.....	4.1	142	3.0	160	.4	68	.4	125	.1	142
\$20,000 TO \$34,999.....	4.2	156	3.3	170	.2	61	.3	133	.1	181
\$35,000 OR MORE.....	1.7	214	1.4	231	Q	Q	.2	163	.1	169

See footnotes at end of table.



# Average Residential Fuel Consumption

Table 2. (Continued)  
Census Division: East North  
Central

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	2.0	138	1.6	158	0.1	57	0.1	113	0.1	86
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	3.0	139	2.3	158	.2	56	.2	129	.1	95
AGE OF HOUSEHOLD HEAD										
UNDER 35 YEARS.....	4.6	131	3.5	148	.4	55	.3	95	.1	123
35 TO 59 YEARS.....	5.4	178	4.2	196	.2	73	.4	156	.2	168
60 YEARS AND OVER.....	4.6	145	3.5	159	.2	64	.5	137	.2	108
HOUSEHOLD MEMBERS										
1.....	2.9	116	2.3	128	.3	40	.2	122	.1	98
2.....	4.7	151	3.6	167	.3	65	.5	146	.1	105
3 OR MORE.....	6.9	170	5.3	190	.3	77	.5	129	.3	166
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE										
<2,000 CDD AND >7,000 HDD.....	3.2	119	1.5	148	Q	Q	.8	123	.2	104
<2,000 CDD AND 5,500 TO 7,000 HDD.....	10.2	163	8.7	175	.8	56	.4	146	.1	185
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.2	156	1.0	158	.1	102	Q	Q	.1	138
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



# Average Residential Fuel Consumption

Table 2. (Continued)  
Census Division: West North Central

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL HOUSEHOLDS.....	6.6	133	4.2	159	0.8	54	0.4	150	0.6	129
AREA TYPE										
URBAN.....	4.0	140	3.2	160	.4	49	.1	121	Q	Q
RURAL.....	2.6	123	1.0	157	.4	59	.3	161	.6	128
SMSA										
SMSA.....	3.3	134	2.5	158	.4	50	.1	134	Q	Q
NON-SMSA.....	3.3	132	1.7	161	.4	57	.3	157	.5	129
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	5.6	141	3.8	164	.6	55	.3	145	.5	130
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	1.0	92	.5	121	.2	48	.1	166	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	5.1	148	3.5	169	.3	72	.3	145	.6	129
2 OR MORE UNITS.....	1.5	84	.7	114	.4	41	.1	164	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	.8	75	.4	102	.3	38	.1	104	Q	Q
4 TO 5.....	2.9	113	1.9	137	.3	53	.1	141	.2	110
6 OR MORE.....	2.8	172	1.9	192	.2	86	.2	174	.3	150
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	3.4	133	2.4	158	0.5	51	0.1	128	0.2	126
SOME.....	1.5	157	1.0	170	.1	70	.1	189	.2	154
NONE.....	1.8	114	.8	152	.2	56	.2	138	.2	112
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	2.2	86	1.1	116	.5	40	.1	121	.2	102
1,000 TO 1,999.....	2.3	135	1.6	153	.2	65	.2	123	.2	115
2,000 OR MORE.....	2.1	181	1.5	200	.1	105	.2	193	.2	166
YEAR HOUSE BUILT										
1939 OR EARLIER.....	2.3	152	1.6	170	.1	60	.2	184	.3	148
1940 TO 1959.....	1.7	120	1.2	144	.1	45	.1	116	Q	Q
1960 OR LATER.....	2.6	125	1.4	160	.6	53	.2	141	.2	113
OWN/RENT										
OWN.....	4.7	150	3.2	170	.3	73	.3	159	.5	134
RENT.....	1.9	92	1.0	123	.5	41	.1	134	.1	80
1980 FAMILY INCOME										
LESS THAN \$10,000.....	1.7	102	.9	138	.3	39	.1	131	.2	119
\$10,000 TO \$19,999.....	1.9	116	1.1	161	.3	54	.1	143	.1	123
\$20,000 TO \$34,999.....	2.0	150	1.5	163	.1	57	.1	169	.1	127
\$35,000 OR MORE.....	1.0	190	.7	209	.1	126	.1	161	.1	154

See footnotes at end of table.



# Average Residential Fuel Consumption

**Table 2. (Continued)**  
**Census Division: West North Central**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	0.7	100	0.3	149	0.1	34	0.1	143	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.0	96	.4	146	.2	35	.1	143	0.1	125
AGE OF HOUSEHOLD HEAD										
UNDER 35 YEARS.....	2.3	117	1.4	145	.4	49	.1	139	.1	123
35 TO 59 YEARS.....	2.6	155	1.7	180	.2	67	.2	157	.3	139
60 YEARS AND OVER.....	1.7	123	1.1	145	.2	51	.1	149	.2	118
HOUSEHOLD MEMBERS										
1.....	1.3	96	.8	119	.3	43	.1	118	.1	93
2.....	2.3	121	1.4	142	.3	50	.2	126	.3	109
3 OR MORE.....	3.0	159	2.0	189	.2	79	.2	183	.2	162
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE										
<2,000 CDD AND >7,000 HDD.....	2.4	132	1.4	154	.2	65	.4	145	.1	161
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.3	170	1.0	180	.1	70	.1	188	.2	150
<2,000 CDD AND 4,000 TO 5,499 HDD.....	3.0	119	1.9	152	.5	49	Q	Q	.3	103
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



# Average Residential Fuel Consumption

Table 2. (Continued)  
Census Region: South

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL HOUSEHOLDS.....	27.7	89	13.0	118	7.7	56	2.2	103	2.1	76
AREA TYPE										
URBAN.....	16.3	96	10.1	117	4.4	54	.9	105	.5	57
RURAL.....	11.4	79	2.9	119	3.3	59	1.3	101	1.7	82
SMSA										
SMSA.....	15.8	91	8.3	117	5.3	54	1.0	100	.8	69
NON-SMSA.....	11.9	86	4.6	118	2.4	59	1.2	105	1.4	80
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	25.2	90	11.4	121	7.1	55	2.1	102	2.1	77
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	2.5	83	1.6	92	.6	60	.1	109	.1	51
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	22.6	95	11.0	123	4.8	62	2.0	103	2.1	76
2 OR MORE UNITS.....	5.1	63	1.9	85	2.9	45	.2	95	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	2.9	51	1.0	71	1.3	36	.2	81	.2	38
4 TO 5.....	13.6	79	6.1	104	4.0	50	1.1	89	1.3	74
6 OR MORE.....	11.2	111	5.9	140	2.5	75	.9	123	.6	94
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	16.1	93	7.7	125	6.0	58	0.7	108	0.9	78
SOME.....	5.1	97	2.6	118	.9	51	.7	111	.6	80
NONE.....	6.5	72	2.6	97	.8	47	.8	90	.7	72
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	10.1	67	4.2	92	2.9	43	1.0	79	1.0	59
1,000 TO 1,999.....	13.4	92	6.6	118	3.8	58	.9	111	1.1	89
2,000 OR MORE.....	4.2	129	2.2	166	1.0	87	.4	146	.1	97
YEAR HOUSE BUILT										
1939 OR EARLIER.....	4.8	96	2.6	118	.4	52	.4	121	.6	88
1940 TO 1959.....	7.0	96	4.3	117	1.0	55	.8	96	.3	69
1960 OR LATER.....	15.8	84	6.1	118	6.3	56	1.0	100	1.3	73
OWN/RENT										
OWN.....	19.0	96	9.2	126	4.7	61	1.6	107	1.6	76
RENT.....	8.7	73	3.8	97	3.1	49	.6	93	.5	76
1980 FAMILY INCOME										
LESS THAN \$10,000.....	8.8	73	3.9	94	2.2	44	.9	89	.9	74
\$10,000 TO \$19,999.....	7.7	85	3.4	115	2.2	51	.6	100	.5	74
\$20,000 TO \$34,999.....	7.3	98	3.6	129	2.0	62	.5	124	.6	74
\$35,000 OR MORE.....	3.9	117	2.1	147	1.3	76	.2	126	.1	113

See footnotes at end of table.



# Average Residential Fuel Consumption

Table 2. (Continued)  
Census Region: South

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	4.7	72	2.0	99	1.1	44	0.4	78	0.6	68
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	6.3	74	2.8	97	1.4	44	.6	83	.7	70
AGE OF HOUSEHOLD HEAD										
UNDER 35 YEARS.....	8.8	82	4.0	112	3.2	50	.4	94	.6	76
35 TO 59 YEARS.....	10.8	99	5.3	128	2.5	70	.9	106	.7	82
60 YEARS AND OVER.....	8.1	83	3.7	110	2.0	47	.9	103	.8	72
HOUSEHOLD MEMBERS										
1.....	5.0	65	2.3	85	1.4	38	.5	94	.4	51
2.....	9.6	83	4.2	112	3.0	51	.9	99	.9	78
3 OR MORE.....	13.1	102	6.5	134	3.3	68	.8	112	.9	85
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE										
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 5,500 TO 7,000 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 4,000 TO 5,499 HDD.....	5.9	104	2.7	142	1.0	60	.9	121	.1	111
<2,000 CDD AND <4,000 HDD.....	10.5	92	4.9	119	2.8	62	.8	100	.8	85
>2,000 CDD AND <4,000 HDD.....	11.3	79	5.4	105	3.9	50	.4	69	1.2	66

See footnotes at end of table.





# Average Residential Fuel Consumption

**Table 2. (Continued)**  
**Census Division: South Atlantic**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL HOUSEHOLDS.....	14.1	82	4.8	121	4.4	50	2.0	103	1.2	74
AREA TYPE										
URBAN.....	7.8	88	3.7	119	2.6	48	.9	105	.4	51
RURAL.....	6.3	74	1.1	127	1.9	52	1.1	101	.8	84
SMSA										
SMSA.....	8.2	81	3.0	118	3.4	48	1.0	99	.5	62
NON-SMSA.....	6.0	83	1.7	125	1.1	54	1.0	107	.7	83
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	12.6	81	3.6	130	4.3	50	1.8	103	1.2	74
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	1.5	85	1.1	90	.2	47	.1	109	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	10.8	88	3.4	136	2.7	56	1.8	104	1.2	74
2 OR MORE UNITS.....	3.4	60	1.4	81	1.7	40	.2	95	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	1.6	47	.5	70	.7	32	.2	83	.1	23
4 TO 5.....	6.8	69	1.9	101	2.4	45	1.0	89	.8	71
6 OR MORE.....	5.8	106	2.4	146	1.3	68	.8	124	.3	98
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	7.3	84	2.6	130	3.4	50	0.6	107	0.4	76
SOME.....	2.6	99	1.0	128	.5	48	.6	114	.3	77
NONE.....	4.2	67	1.2	95	.6	48	.7	90	.5	70
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	5.4	60	1.6	90	1.7	37	.9	78	.6	53
1,000 TO 1,999.....	6.6	84	2.1	120	2.4	52	.8	112	.6	90
2,000 OR MORE.....	2.2	128	1.0	170	.4	85	.3	147	.1	96
YEAR HOUSE BUILT										
1939 OR EARLIER.....	2.6	100	1.1	134	.3	48	.4	122	.3	96
1940 TO 1959.....	3.1	83	1.2	121	.6	45	.6	94	.1	58
1960 OR LATER.....	8.5	76	2.5	115	3.6	50	.9	101	.8	68
OWN/RENT										
OWN.....	9.0	89	2.9	137	2.7	53	1.4	107	.9	76
RENT.....	5.1	69	1.9	95	1.7	44	.6	93	.3	67
1980 FAMILY INCOME										
LESS THAN \$10,000.....	4.4	65	1.2	89	1.3	39	.8	89	.5	75
\$10,000 TO \$19,999.....	4.0	74	1.1	113	1.4	49	.6	101	.3	68
\$20,000 TO \$34,999.....	3.8	94	1.4	139	1.2	54	.4	125	.4	71
\$35,000 OR MORE.....	1.9	112	1.1	140	.5	66	.2	125	.1	113

See footnotes at end of table.



# Average Residential Fuel Consumption

**Table 2. (Continued)**  
**Census Division: South Atlantic**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	2.4	65	0.7	99	0.6	42	0.3	77	0.3	67
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	3.1	66	.9	97	.8	42	.5	81	.4	71
AGE OF HOUSEHOLD HEAD										
UNDER 35 YEARS.....	4.4	75	1.5	110	1.8	49	.4	96	.3	76
35 TO 59 YEARS.....	5.5	93	2.0	133	1.2	61	.8	106	.4	76
60 YEARS AND OVER.....	4.3	75	1.2	112	1.4	41	.8	104	.4	69
HOUSEHOLD MEMBERS										
1.....	2.6	61	.9	81	.8	32	.5	96	.2	53
2.....	5.0	75	1.5	110	1.8	46	.8	98	.5	76
3 OR MORE.....	6.5	95	2.4	142	1.9	61	.7	113	.5	80
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE										
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 5,500 TO 7,000 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 4,000 TO 5,499 HDD.....	4.5	102	2.0	137	.6	60	.8	124	.1	126
<2,000 CDD AND <4,000 HDD.....	5.6	86	2.3	112	1.4	58	.7	100	.5	81
>2,000 CDD AND <4,000 HDD.....	4.1	54	.5	94	2.5	43	.4	69	.6	58

See footnotes at end of table.



# Average Residential Fuel Consumption

**Table 2. (Continued)**  
**Census Division: East South Central**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL HOUSEHOLDS.....	5.6	94	2.5	131	1.8	62	0.2	99	0.3	87
AREA TYPE										
URBAN.....	2.7	106	1.8	131	.8	58	Q	Q	Q	Q
RURAL.....	2.9	82	.7	129	1.0	66	.2	98	.3	87
SMSA										
SMSA.....	2.3	106	1.4	133	.7	61	Q	Q	.1	85
NON-SMSA.....	3.3	85	1.1	129	1.1	63	.2	94	.3	87
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	5.4	94	2.3	132	1.8	62	.2	99	.3	86
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	.2	95	.2	109	Q	Q	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	5.0	98	2.3	134	1.4	68	.2	99	.3	87
2 OR MORE UNITS.....	.6	62	.2	100	.4	44	Q	Q	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	.5	50	.1	79	.3	38	Q	Q	.1	73
4 TO 5.....	2.6	83	1.1	116	.8	56	.1	94	.2	84
6 OR MORE.....	2.5	113	1.3	148	.7	80	.1	113	.1	102
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	3.7	100	1.7	137	1.4	65	0.1	116	0.2	96
SOME.....	1.0	89	.5	124	.3	57	.1	80	.1	70
NONE.....	.9	72	.3	109	.1	47	.1	94	.1	82
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	1.8	68	.6	99	.6	46	.1	85	.2	74
1,000 TO 1,999.....	2.7	95	1.3	125	.8	65	.1	99	.2	96
2,000 OR MORE.....	1.1	131	.5	185	.3	87	Q	Q	Q	Q
YEAR HOUSE BUILT										
1939 OR EARLIER.....	.8	92	.4	125	.1	63	Q	Q	.1	71
1940 TO 1959.....	1.6	107	1.0	130	.3	64	.1	106	.1	111
1960 OR LATER.....	3.2	88	1.1	134	1.4	62	.1	90	.2	84
OWN/RENT										
OWN.....	4.4	100	2.0	136	1.3	69	.2	102	.3	88
RENT.....	1.2	72	.5	110	.5	46	Q	Q	Q	Q
1980 FAMILY INCOME										
LESS THAN \$10,000.....	1.9	77	.8	111	.6	50	.1	89	.2	74
\$10,000 TO \$19,999.....	1.6	94	.8	126	.5	59	.1	93	.1	109
\$20,000 TO \$34,999.....	1.3	98	.5	137	.4	65	Q	Q	.1	97
\$35,000 OR MORE.....	.9	125	.4	173	.3	85	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Consumption

**Table 2. (Continued)**  
**Census Division: East South Central**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.0	73	0.4	110	0.3	46	Q	Q	0.1	80
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.3	73	.5	107	.4	44	0.1	93	.2	75
AGE OF HOUSEHOLD HEAD										
UNDER 35 YEARS.....	1.6	84	.7	128	.6	51	Q	Q	.1	71
35 TO 59 YEARS.....	2.5	102	1.1	138	.7	72	.1	107	.1	100
60 YEARS AND OVER.....	1.6	91	.7	123	.4	61	.1	96	.2	82
HOUSEHOLD MEMBERS										
1.....	1.0	72	.5	101	.3	45	Q	Q	.1	55
2.....	1.9	92	.8	132	.6	59	.1	105	.1	78
3 OR MORE.....	2.8	103	1.2	141	.8	73	.1	107	.1	108
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE										
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 5,500 TO 7,000 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.5	110	.7	156	.4	60	.1	103	Q	Q
<2,000 CDD AND <4,000 HDD.....	3.2	87	1.2	122	1.2	64	.1	91	.2	93
>2,000 CDD AND <4,000 HDD.....	1.0	91	.5	117	.2	57	Q	Q	.1	78

See footnotes at end of table.



# Average Residential Fuel Consumption

**Table 2. (Continued)**  
**Census Division: West South Central**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL HOUSEHOLDS.....	8.0	98	5.7	110	1.5	67	Q	Q	0.6	76
AREA TYPE										
URBAN.....	5.8	102	4.6	111	1.1	65	Q	Q	.1	81
RURAL.....	2.1	88	1.1	104	.4	72	Q	Q	.5	75
SMSA										
SMSA.....	5.3	100	3.9	111	1.3	67	Q	Q	.2	85
NON-SMSA.....	2.6	95	1.8	106	.2	64	Q	Q	.4	71
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	7.2	101	5.4	111	1.0	67	Q	Q	.5	79
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	.8	74	.3	88	.4	66	Q	Q	.1	44
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	6.9	103	5.4	111	.8	72	Q	Q	.6	76
2 OR MORE UNITS.....	1.1	71	.4	91	.7	61	Q	Q	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	.8	59	.4	71	.3	46	Q	Q	Q	Q
4 TO 5.....	4.3	92	3.1	101	.8	63	Q	Q	.4	74
6 OR MORE.....	2.9	119	2.3	128	.4	90	Q	Q	.2	84
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	5.1	101	3.5	115	1.3	70	Q	Q	0.3	68
SOME.....	1.5	99	1.2	106	.1	48	Q	Q	.2	86
NONE.....	1.4	89	1.1	96	.1	39	Q	Q	.1	73
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	3.0	80	2.0	92	.7	54	Q	Q	.2	62
1,000 TO 1,999.....	4.1	105	3.1	114	.6	72	Q	Q	.3	84
2,000 OR MORE.....	.9	130	.7	145	.2	92	Q	Q	Q	Q
YEAR HOUSE BUILT										
1939 OR EARLIER.....	1.5	93	1.1	100	.1	52	Q	Q	.2	85
1940 TO 1959.....	2.4	103	2.1	108	.1	76	Q	Q	.1	53
1960 OR LATER.....	4.1	97	2.6	115	1.3	67	Q	Q	.3	78
OWN/RENT										
OWN.....	5.6	105	4.3	114	.7	74	Q	Q	.4	70
RENT.....	2.4	83	1.4	96	.8	61	Q	Q	.2	89
1980 FAMILY INCOME										
LESS THAN \$10,000.....	2.5	82	1.9	90	.3	49	Q	Q	.3	70
\$10,000 TO \$19,999.....	2.1	98	1.6	112	.3	48	Q	Q	.2	76
\$20,000 TO \$34,999.....	2.2	107	1.6	118	.4	79	Q	Q	.1	69
\$35,000 OR MORE.....	1.1	120	.6	145	.4	81	Q	Q	.1	113

See footnotes at end of table.



# Average Residential Fuel Consumption

Table 2. (Continued)  
Census Division: West South  
Central

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.4	84	1.0	94	0.2	50	Q	Q	0.2	62
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.9	86	1.4	94	.2	53	Q	Q	.2	65
AGE OF HOUSEHOLD HEAD										
UNDER 35 YEARS.....	2.8	91	1.8	108	.7	54	Q	Q	.2	78
35 TO 59 YEARS.....	2.9	109	2.2	117	.5	88	Q	Q	.2	83
60 YEARS AND OVER.....	2.2	94	1.7	103	.2	56	Q	Q	.2	69
HOUSEHOLD MEMBERS										
1.....	1.5	69	1.0	80	.3	45	Q	Q	.1	47
2.....	2.6	93	1.8	104	.5	58	Q	Q	.2	84
3 OR MORE.....	3.8	113	2.9	123	.6	86	Q	Q	.2	82
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE										
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 5,500 TO 7,000 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 4,000 TO 5,499 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND <4,000 HDD.....	1.7	118	1.4	127	.2	75	Q	Q	.1	92
>2,000 CDD AND <4,000 HDD.....	6.2	93	4.4	104	1.2	65	Q	Q	.5	73

See footnotes at end of table.



# Average Residential Fuel Consumption

**Table 2. (Continued)  
Census Region: West**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL HOUSEHOLDS.....	16.3	90	10.8	103	3.4	60	0.4	110	0.4	107
AREA TYPE										
URBAN.....	13.0	91	9.6	100	2.5	57	.3	111	.1	66
RURAL.....	3.3	89	1.2	123	.8	69	.1	108	.4	115
SMSA										
SMSA.....	12.8	90	9.5	99	2.3	55	.3	113	.1	89
NON-SMSA.....	3.5	91	1.2	133	1.0	71	.1	101	.3	116
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	14.1	93	9.2	107	3.0	61	.4	111	.3	106
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	2.2	74	1.6	76	.4	57	Q	Q	.1	113
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	12.3	101	8.3	113	2.0	72	.4	112	.4	107
2 OR MORE UNITS.....	4.0	58	2.4	66	1.4	42	Q	Q	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	2.2	55	1.2	65	.7	41	Q	Q	.1	54
4 TO 5.....	7.3	78	4.5	90	1.8	57	.2	106	.2	75
6 OR MORE.....	6.9	114	5.1	123	.8	84	.2	115	.2	144
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	3.6	97	2.2	110	1.1	68	Q	Q	0.2	116
SOME.....	1.9	83	1.4	92	.3	50	Q	Q	.1	71
NONE.....	10.7	89	7.1	102	2.0	57	0.4	114	.2	109
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	6.0	64	3.4	77	1.7	45	.1	100	.1	70
1,000 TO 1,999.....	7.8	92	5.5	99	1.4	70	.2	106	.2	117
2,000 OR MORE.....	2.5	144	1.8	162	.3	94	.1	124	.1	137
YEAR HOUSE BUILT										
1939 OR EARLIER.....	3.6	90	2.6	99	.4	65	.1	101	.1	108
1940 TO 1959.....	4.5	97	3.4	102	.4	75	.2	115	.1	102
1960 OR LATER.....	8.2	86	4.7	105	2.6	57	.1	116	.2	110
OWN/RENT										
OWN.....	10.0	102	6.9	115	1.6	71	.3	110	.4	113
RENT.....	6.2	70	3.9	81	1.8	50	.1	112	.1	72
1980 FAMILY INCOME										
LESS THAN \$10,000.....	4.0	78	2.5	89	1.0	55	.1	109	.1	111
\$10,000 TO \$19,999.....	4.1	82	2.6	95	.9	55	.2	98	.1	106
\$20,000 TO \$34,999.....	5.0	91	3.3	102	1.0	64	.1	107	.2	88
\$35,000 OR MORE.....	3.2	114	2.4	126	.5	69	.1	155	.1	138

See footnotes at end of table.



# Average Residential Fuel Consumption

**Table 2. (Continued)**  
**Census Region: West**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.9	78	1.2	91	0.5	53	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.9	78	1.8	88	.7	57	0.1	113	0.1	116
AGE OF HOUSEHOLD HEAD										
UNDER 35 YEARS.....	6.5	80	4.1	91	1.7	58	.1	104	.1	74
35 TO 59 YEARS.....	6.4	103	4.5	117	1.2	65	.1	112	.2	130
60 YEARS AND OVER.....	3.4	85	2.2	96	.6	56	.2	111	.1	93
HOUSEHOLD MEMBERS										
1.....	2.6	67	1.7	77	.7	40	.1	108	.1	60
2.....	5.7	81	3.6	93	1.4	56	.2	109	.1	105
3 OR MORE.....	8.0	104	5.4	117	1.3	75	.2	113	.2	124
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE										
<2,000 CDD AND >7,000 HDD.....	1.3	142	1.0	159	.1	79	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.7	102	.8	131	.5	77	.1	98	.1	104
<2,000 CDD AND 4,000 TO 5,499 HDD.....	3.3	84	1.1	111	1.4	62	.3	112	Q	Q
<2,000 CDD AND <4,000 HDD.....	9.1	86	7.3	92	1.1	48	Q	Q	.3	107
>2,000 CDD AND <4,000 HDD.....	.9	59	.4	80	.2	62	Q	Q	Q	Q

See footnotes at end of table.





# Average Residential Fuel Consumption

Table 2. (Continued)  
Census Division: Mountain

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL HOUSEHOLDS.....	4.0	105	2.8	119	0.6	69	0.1	98	0.1	111
AREA TYPE										
URBAN.....	2.8	107	2.3	116	.4	67	Q	Q	Q	Q
RURAL.....	1.1	101	.5	129	.3	73	Q	Q	.1	111
SMSA										
SMSA.....	2.4	106	2.1	112	.3	64	Q	Q	Q	Q
NON-SMSA.....	1.6	105	.8	137	.4	73	Q	Q	.1	114
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	3.3	107	2.3	124	.6	67	.1	98	.1	97
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	.6	96	.5	94	.1	87	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	3.3	110	2.3	125	.5	73	.1	98	.1	111
2 OR MORE UNITS.....	.7	82	.5	90	.1	55	Q	Q	Q	Q
NUMBER OF ROOMS										
1 TO 3 .....	.5	73	.4	78	.1	63	Q	Q	Q	Q
4 TO 5.....	1.9	95	1.3	109	.4	61	Q	Q	.1	77
6 OR MORE.....	1.5	129	1.1	145	.2	84	Q	Q	Q	Q
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	0.9	98	0.5	111	0.3	78	Q	Q	Q	Q
SOME.....	.4	96	.3	119	.1	55	Q	Q	Q	Q
NONE.....	2.6	110	2.0	121	.2	63	Q	Q	0.1	119
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	1.5	85	1.1	95	.2	59	Q	Q	.1	77
1,000 TO 1,999.....	1.7	101	1.2	114	.3	66	Q	Q	Q	Q
2,000 OR MORE.....	.7	157	.5	177	.1	105	Q	Q	.1	134
YEAR HOUSE BUILT										
1939 OR EARLIER.....	.7	116	.5	127	Q	Q	Q	Q	.1	130
1940 TO 1959.....	1.0	115	.8	123	.1	88	Q	Q	Q	Q
1960 OR LATER.....	2.3	99	1.6	114	.5	66	Q	Q	.1	95
OWN/RENT										
OWN.....	2.7	112	1.9	128	.4	70	Q	Q	.1	127
RENT.....	1.2	92	.9	99	.2	69	Q	Q	Q	Q
1980 FAMILY INCOME										
LESS THAN \$10,000.....	1.2	92	.9	100	.2	71	Q	Q	Q	Q
\$10,000 TO \$19,999.....	1.3	99	.9	112	.2	60	Q	Q	Q	Q
\$20,000 TO \$34,999.....	1.0	112	.7	127	.2	71	Q	Q	Q	Q
\$35,000 OR MORE.....	.4	142	.3	173	.1	87	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Consumption

**Table 2. (Continued)**  
**Census Division: Mountain**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	0.5	100	0.4	114	0.1	75	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.8	98	.5	109	.1	80	Q	Q	Q	Q
AGE OF HOUSEHOLD HEAD										
UNDER 35 YEARS.....	1.8	96	1.2	109	.3	65	Q	Q	0.1	76
35 TO 59 YEARS.....	1.4	118	1.0	135	.2	77	Q	Q	Q	Q
60 YEARS AND OVER.....	.7	105	.6	112	.1	63	Q	Q	Q	Q
HOUSEHOLD MEMBERS										
1.....	.7	81	.5	90	.1	48	Q	Q	Q	Q
2.....	1.3	100	1.0	110	.2	61	Q	Q	Q	Q
3 OR MORE.....	1.9	118	1.3	138	.3	80	Q	Q	.1	118
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE										
<2,000 CDD AND >7,000 HDD.....	1.2	138	.9	152	.1	84	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.4	105	.8	131	.3	71	0.1	98	.1	107
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.3	103	.3	112	.1	65	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	.4	64	.4	65	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	.6	75	.4	80	.2	62	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Consumption

**Table 2. (Continued)**  
**Census Division: Pacific**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL HOUSEHOLDS.....	12.3	85	7.9	97	2.8	58	0.4	112	0.3	106
AREA TYPE										
URBAN.....	10.2	86	7.3	95	2.2	55	.3	113	.1	66
RURAL.....	2.2	82	.6	118	.6	68	.1	111	.2	117
SMSA										
SMSA.....	10.4	86	7.5	95	2.1	54	.3	114	.1	91
NON-SMSA.....	1.9	79	.5	127	.7	70	.1	103	.2	118
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	10.7	88	6.9	101	2.4	59	.3	114	.2	110
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	1.6	65	1.0	67	.3	49	Q	Q	.1	89
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	9.0	97	6.0	109	1.5	72	.3	114	.3	106
2 OR MORE UNITS.....	3.3	53	1.9	60	1.3	41	Q	Q	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	1.7	50	.8	58	.7	39	Q	Q	Q	Q
4 TO 5.....	5.3	72	3.1	81	1.5	56	.1	108	.1	72
6 OR MORE.....	5.3	110	4.0	117	.6	84	.2	117	.2	131
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	2.7	96	1.7	110	0.8	64	Q	Q	0.2	120
SOME.....	1.5	80	1.2	86	.2	49	Q	Q	Q	Q
NONE.....	8.1	83	5.1	95	1.7	56	0.3	114	.1	91
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	4.5	57	2.3	69	1.4	42	.1	101	.1	64
1,000 TO 1,999.....	6.1	90	4.3	95	1.1	71	.2	108	.2	112
2,000 OR MORE.....	1.8	139	1.3	155	.3	90	.1	124	Q	Q
YEAR HOUSE BUILT										
1939 OR EARLIER.....	3.0	85	2.1	93	.4	63	.1	104	Q	Q
1940 TO 1959.....	3.5	92	2.6	96	.3	73	.2	117	.1	98
1960 OR LATER.....	5.8	82	3.2	100	2.1	55	.1	114	.1	120
OWN/RENT										
OWN.....	7.3	99	5.0	110	1.2	72	.3	112	.3	109
RENT.....	5.0	65	3.0	75	1.6	47	.1	112	Q	Q
1980 FAMILY INCOME										
LESS THAN \$10,000.....	2.8	72	1.6	83	.8	51	.1	111	Q	Q
\$10,000 TO \$19,999.....	2.8	74	1.7	85	.7	54	.1	98	.1	104
\$20,000 TO \$34,999.....	4.0	85	2.6	95	.8	63	.1	110	.1	69
\$35,000 OR MORE.....	2.8	110	2.1	119	.5	66	.1	155	.1	136

See footnotes at end of table.



# Average Residential Fuel Consumption

Table 2. (Continued)  
Census Division: Pacific

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.4	69	0.8	81	0.4	47	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.1	71	1.2	79	.6	53	0.1	117	Q	Q
AGE OF HOUSEHOLD HEAD										
UNDER 35 YEARS.....	4.7	73	2.8	83	1.3	56	.1	101	Q	Q
35 TO 59 YEARS.....	5.0	99	3.4	112	.9	62	.1	115	0.2	130
60 YEARS AND OVER.....	2.6	80	1.6	90	.5	55	.2	114	.1	67
HOUSEHOLD MEMBERS										
1.....	1.9	61	1.2	71	.5	38	.1	118	.1	58
2.....	4.4	76	2.6	87	1.2	55	.1	108	.1	96
3 OR MORE.....	6.1	100	4.2	110	1.0	73	.2	114	.1	128
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE										
<2,000 CDD AND >7,000 HDD.....	.1	173	.1	229	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.3	86	Q	Q	.2	85	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	2.9	81	.9	111	1.4	61	.3	112	Q	Q
<2,000 CDD AND <4,000 HDD.....	8.6	87	6.9	93	1.1	48	Q	Q	.3	108
>2,000 CDD AND <4,000 HDD.....	.3	32	Q	Q	Q	Q	Q	Q	Q	Q

"-" = DATA NOT APPLICABLE.

"Q" = DATA WITHHELD BECAUSE OF A LARGE VARIANCE.

NOTE: BECAUSE OF ROUNDING, DATA MAY NOT SUM TO TOTALS. PERCENTAGES ARE CALCULATED ON UNROUNDED NUMBERS. SEE GLOSSARY FOR DEFINITION OF TERMS USED IN THIS REPORT.

NOTE: COLUMN TOTALS WILL NOT SUM TO TOTAL NUMBER OF HOUSEHOLDS BECAUSE 6.8 MILLION HOUSEHOLDS WITH NO MAIN HEATING FUEL OR WITH OTHER MAIN HEATING FUEL, SUCH AS WOOD, WERE NOT INCLUDED.

SOURCE: ENERGY INFORMATION ADMINISTRATION, OFFICE OF ENERGY MARKETS AND END USE, ENERGY END USE DIVISION, FORM EIA-457, THE 1981 RESIDENTIAL ENERGY CONSUMPTION SURVEY.



# Average Residential Fuel Expenditures

**Table 3. U.S. Average Residential Energy Expenditures for All Fuels Used in the Household, by Main Heating Fuel Type—April 1981 Through March 1982, United States (Dollars per Household)**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	83.1	1022	46.2	965	14.2	875	12.2	1565	3.7	1114
AREA TYPE										
URBAN.....	57.3	1023	38.3	961	8.8	838	8.0	1611	.6	873
RURAL.....	25.9	1020	8.0	983	5.4	936	4.2	1478	3.1	1165
SMSA										
SMSA.....	56.6	1051	35.2	971	10.1	881	8.4	1639	1.2	1165
NON-SMSA.....	26.5	959	11.1	947	4.1	861	3.7	1398	2.5	1091
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	69.6	1029	38.7	1006	12.5	864	8.6	1572	3.5	1111
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	13.5	987	7.5	752	1.7	956	3.6	1549	.2	1170
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME.....	61.8	1068	35.5	1029	8.1	974	8.2	1579	3.7	1111
2 OR MORE UNITS.....	21.4	889	10.7	752	6.1	743	3.9	1536	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	10.2	733	4.3	573	3.0	655	1.9	1302	.4	643
4 TO 5.....	36.7	884	19.9	825	7.0	794	4.8	1415	1.9	947
6 OR MORE.....	36.2	1243	22.0	1168	4.2	1163	5.5	1788	1.4	1462
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	30.7	1059	17.2	1069	8.8	935	2.1	1584	1.4	1137
SOME.....	17.7	1158	10.5	1013	1.8	921	3.8	1749	1.0	1156
NONE.....	34.7	920	18.5	842	3.6	709	6.3	1449	1.4	1063
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	28.9	786	13.9	693	6.5	689	4.6	1335	1.4	842
1,000 TO 1,999.....	35.8	1021	21.1	951	5.8	946	4.4	1546	1.8	1235
2,000 OR MORE.....	18.4	1395	11.1	1333	1.9	1298	3.2	1918	.5	1470
YEAR HOUSE BUILT										
1939 OR EARLIER.....	24.2	1091	14.2	981	1.2	746	5.1	1647	1.2	1262
1940 TO 1959.....	20.4	987	13.3	919	1.6	841	3.3	1494	.5	1013
1960 OR LATER.....	38.5	997	18.6	986	11.4	894	3.7	1515	2.0	1051
OWN/RENT										
OWN.....	55.1	1102	31.9	1062	7.4	968	7.7	1627	2.9	1140
RENT.....	28.0	865	14.3	748	6.8	774	4.4	1458	.8	1016
1980 FAMILY INCOME										
LESS THAN \$10,000.....	23.3	847	12.2	787	4.2	711	3.5	1359	1.3	955
\$10,000 TO \$19,999.....	23.2	971	12.2	900	4.3	856	3.6	1482	1.0	1095
\$20,000 TO \$34,999.....	24.0	1078	14.1	1020	3.7	955	3.3	1609	1.0	1166
\$35,000 OR MORE.....	12.6	1333	7.8	1247	2.1	1109	1.8	2061	.4	1534
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	11.0	830	5.7	808	2.1	744	1.2	1366	.7	874
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	15.8	842	8.3	805	2.8	724	2.0	1357	1.0	936

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)  
United States**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>AGE OF HOUSEHOLD HEAD</b>										
UNDER 35 YEARS.....	27.6	899	15.4	876	6.3	804	2.8	1375	0.9	1050
35 TO 59 YEARS.....	33.0	1179	18.6	1106	4.5	1034	5.3	1751	1.4	1317
60 YEARS AND OVER.....	22.5	943	12.2	863	3.4	801	4.1	1449	1.3	938
<b>HOUSEHOLD MEMBERS</b>										
1.....	15.4	768	8.5	690	3.1	626	2.6	1282	.6	730
2.....	27.7	956	14.9	895	5.4	836	4.1	1484	1.4	999
3 OR MORE.....	40.1	1165	22.8	1113	5.8	1043	5.5	1759	1.7	1356
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>										
<2,000 CDD AND >7,000 HDD.....	8.8	1016	4.1	932	.5	1048	1.9	1417	.4	1256
<2,000 CDD AND 5,500 TO 7,000 HDD.....	21.0	1156	14.3	1068	2.1	940	3.3	1695	.5	1586
<2,000 CDD AND 4,000 TO 5,499 HDD.....	21.6	1152	9.8	1100	3.6	831	5.7	1644	.6	1122
<2,000 CDD AND <4,000 HDD.....	19.5	799	12.2	759	3.9	813	.8	1162	1.1	1068
>2,000 CDD AND <4,000 HDD.....	12.2	925	5.8	938	4.1	921	.4	999	1.2	910

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Region: Northeast**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	17.9	1426	7.0	1248	1.5	1259	7.9	1709	0.1	1637
AREA TYPE										
URBAN.....	13.7	1469	6.2	1270	.9	1300	6.3	1724	Q	Q
RURAL.....	4.2	1286	.8	1081	.6	1199	1.6	1649	.1	1637
SMSA										
SMSA.....	14.1	1485	5.7	1274	1.3	1253	6.6	1741	.1	1833
NON-SMSA.....	3.8	1209	1.3	1141	.3	1288	1.3	1541	Q	Q
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	12.3	1457	5.1	1336	1.1	1253	4.6	1813	.1	1529
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	5.7	1359	1.9	1020	.4	1276	3.3	1564	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	10.5	1513	4.2	1394	.7	1392	4.3	1829	.1	1616
2 OR MORE UNITS.....	7.4	1302	2.8	1031	.9	1151	3.6	1563	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	2.8	1186	.8	860	.4	1156	1.5	1395	Q	Q
4 TO 5.....	6.7	1265	2.6	1034	.6	1160	3.0	1567	Q	Q
6 OR MORE.....	8.5	1631	3.6	1488	.6	1418	3.4	1969	.1	2005
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	3.2	1496	1.5	1403	.6	1248	1.0	1802	Q	Q
SOME.....	5.5	1564	2.4	1283	.3	1426	2.6	1866	.1	1628
NONE.....	9.2	1318	3.2	1149	.6	1183	4.3	1590	Q	Q
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	6.1	1229	1.9	943	0.8	1105	3.1	1483	Q	Q
1,000 TO 1,999.....	6.8	1392	3.1	1225	.4	1353	2.6	1704	0.1	2005
2,000 OR MORE.....	5.0	1714	2.0	1585	.3	1529	2.2	2038	Q	Q
YEAR HOUSE BUILT										
1939 OR EARLIER.....	8.1	1411	3.2	1217	.2	1006	3.9	1698	.1	1680
1940 TO 1959.....	3.3	1503	1.3	1187	.1	1439	1.8	1749	Q	Q
1960 OR LATER.....	6.5	1405	2.6	1317	1.2	1282	2.1	1694	Q	Q
OWN/RENT										
OWN.....	11.1	1501	4.7	1366	.7	1412	4.5	1834	Q	Q
RENT.....	6.8	1304	2.3	1013	.9	1146	3.4	1547	.1	1680
1980 FAMILY INCOME										
LESS THAN \$10,000.....	4.2	1244	1.5	1003	.5	1048	2.0	1510	Q	Q
\$10,000 TO \$19,999.....	5.3	1346	2.1	1140	.5	1398	2.2	1629	Q	Q
\$20,000 TO \$34,999.....	5.5	1402	2.3	1263	.4	1344	2.3	1676	Q	Q
\$35,000 OR MORE.....	2.9	1891	1.2	1709	.2	1220	1.3	2235	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.6	1276	.6	1041	.2	1071	.7	1602	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.6	1244	1.0	1036	.3	978	1.1	1562	Q	Q

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Region: Northeast**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>AGE OF HOUSEHOLD HEAD</b>										
UNDER 35 YEARS.....	5.4	1256	2.4	1172	0.7	1141	1.9	1487	0.1	1776
35 TO 59 YEARS.....	7.7	1623	2.9	1443	.4	1514	3.6	1899	Q	Q
60 YEARS AND OVER.....	4.8	1302	1.8	1037	.4	1176	2.3	1592	Q	Q
<b>HOUSEHOLD MEMBERS</b>										
1.....	3.4	1141	1.3	904	.4	961	1.7	1372	Q	Q
2.....	5.4	1336	2.1	1131	.5	1305	2.5	1622	Q	Q
3 OR MORE.....	9.1	1589	3.6	1444	.7	1382	3.7	1919	.1	1842
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>										
<2,000 CDD AND >7,000 HDD.....	1.9	1169	.1	1412	.1	1259	.8	1500	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	7.8	1350	3.8	1138	.8	1178	2.8	1715	.1	1716
<2,000 CDD AND 4,000 TO 5,499 HDD.....	8.3	1556	3.1	1373	.6	1371	4.4	1741	Q	Q
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.





# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: New England**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	4.3	1412	1.2	1266	0.4	1182	2.1	1669	Q	Q
AREA TYPE										
URBAN.....	3.2	1433	1.1	1238	.3	1106	1.6	1660	Q	Q
RURAL.....	1.1	1351	Q	Q	.1	1313	.5	1702	Q	Q
SMSA										
SMSA.....	3.1	1472	1.1	1273	.3	1267	1.5	1696	Q	Q
NON-SMSA.....	1.2	1251	Q	Q	.1	794	.6	1602	Q	Q
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	3.3	1463	.9	1352	.3	1171	1.6	1780	Q	Q
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	1.0	1236	.2	938	.1	1202	.6	1372	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	2.5	1532	.6	1465	.1	1511	1.2	1844	Q	Q
2 OR MORE UNITS.....	1.8	1247	.6	1072	.3	1045	.9	1431	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	.5	1042	.2	914	.1	1086	.2	1195	Q	Q
4 TO 5.....	1.9	1235	.5	1113	.2	1039	.9	1471	Q	Q
6 OR MORE.....	1.9	1695	.5	1564	.1	1783	1.0	1914	Q	Q
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	.5	1339	.1	1220	.1	1133	.1	1801	Q	Q
SOME.....	1.3	1588	.4	1298	.2	1328	.7	1870	Q	Q
NONE.....	2.5	1338	.7	1257	.1	1037	1.3	1555	Q	Q
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	1.6	1147	0.5	1026	0.3	994	0.8	1339	Q	Q
1,000 TO 1,999.....	1.6	1409	.4	1317	.1	1271	.8	1681	Q	Q
2,000 OR MORE.....	1.1	1812	.3	1633	.1	1894	.6	2080	Q	Q
YEAR HOUSE BUILT										
1939 OR EARLIER.....	2.1	1416	.7	1269	.1	1145	1.1	1595	Q	Q
1940 TO 1959.....	.8	1509	.2	1260	.1	1540	.5	1709	Q	Q
1960 OR LATER.....	1.4	1351	.4	1263	.3	1112	.5	1797	Q	Q
OWN/RENT										
OWN.....	2.7	1501	.7	1375	.1	1451	1.3	1805	Q	Q
RENT.....	1.6	1259	.5	1109	.3	1045	.8	1437	Q	Q
1980 FAMILY INCOME										
LESS THAN \$10,000.....	1.0	1260	.3	1108	.1	929	.6	1471	Q	Q
\$10,000 TO \$19,999.....	1.4	1303	.5	1235	.2	1068	.6	1551	Q	Q
\$20,000 TO \$34,999.....	1.2	1437	.3	1304	.1	1292	.6	1670	Q	Q
\$35,000 OR MORE.....	.6	1846	.1	1629	Q	Q	.4	2176	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.4	1351	.2	1252	Q	Q	.2	1567	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.6	1342	.2	1153	Q	Q	.3	1572	Q	Q

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: New England**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MIL-LIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MIL-LIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MIL-LIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MIL-LIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MIL-LIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>AGE OF HOUSEHOLD HEAD</b>										
UNDER 35 YEARS.....	1.3	1215	0.3	1136	0.2	1122	0.5	1455	Q	Q
35 TO 59 YEARS.....	1.9	1603	.5	1463	.1	1762	1.0	1842	Q	Q
60 YEARS AND OVER.....	1.1	1315	.3	1098	.1	1016	.6	1559	Q	Q
<b>HOUSEHOLD MEMBERS</b>										
1.....	.8	1102	.2	965	.1	835	.4	1281	Q	Q
2.....	1.3	1368	.4	1165	.1	1377	.7	1612	Q	Q
3 OR MORE.....	2.1	1555	.6	1457	.2	1391	1.0	1863	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>										
<2,000 CDD AND >7,000 HDD.....	1.1	1206	.1	1412	.1	874	.5	1542	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	3.2	1484	1.0	1246	.3	1264	1.7	1705	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: Middle Atlantic**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	13.7	1431	5.9	1245	1.1	1285	5.8	1723	0.1	1833
AREA TYPE										
URBAN.....	10.6	1480	5.1	1278	.7	1374	4.6	1747	Q	Q
RURAL.....	3.1	1262	.8	1032	.5	1165	1.1	1626	.1	1833
SMSA										
SMSA.....	11.0	1488	4.5	1274	.9	1248	5.1	1754	.1	1833
NON-SMSA.....	2.6	1190	1.3	1144	.2	1473	.7	1485	Q	Q
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	9.0	1455	4.1	1332	.9	1276	3.0	1830	.1	1758
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	4.7	1384	1.7	1031	.2	1318	2.7	1605	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	8.1	1507	3.6	1383	.6	1368	3.1	1823	.1	1758
2 OR MORE UNITS.....	5.6	1320	2.2	1019	.6	1203	2.7	1607	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	2.3	1218	.6	845	.2	1195	1.3	1419	Q	Q
4 TO 5.....	4.7	1276	2.1	1013	.4	1224	2.1	1609	Q	Q
6 OR MORE.....	6.7	1613	3.2	1476	.5	1371	2.4	1994	.1	2005
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	2.8	1522	1.3	1423	.5	1276	.9	1802	Q	Q
SOME.....	4.3	1557	2.0	1281	.2	1528	2.0	1865	.1	1747
NONE.....	6.6	1311	2.5	1120	.5	1219	2.9	1605	Q	Q
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	4.5	1257	1.5	916	0.6	1155	2.3	1530	Q	Q
1,000 TO 1,999.....	5.2	1387	2.7	1210	.3	1377	1.8	1713	0.1	2005
2,000 OR MORE.....	3.9	1687	1.7	1578	.3	1455	1.6	2022	Q	Q
YEAR HOUSE BUILT										
1939 OR EARLIER.....	6.0	1409	2.5	1203	.1	903	2.8	1740	.1	1807
1940 TO 1959.....	2.6	1502	1.1	1176	Q	Q	1.3	1764	Q	Q
1960 OR LATER.....	5.1	1420	2.2	1326	1.0	1327	1.6	1660	Q	Q
OWN/RENT										
OWN.....	8.4	1502	4.0	1365	.5	1402	3.1	1846	Q	Q
RENT.....	5.3	1317	1.9	988	.6	1188	2.7	1579	.1	1807
1980 FAMILY INCOME										
LESS THAN \$10,000.....	3.2	1239	1.2	977	.4	1084	1.5	1524	Q	Q
\$10,000 TO \$19,999.....	4.0	1360	1.6	1112	.4	1541	1.7	1655	Q	Q
\$20,000 TO \$34,999.....	4.3	1393	2.0	1258	.3	1360	1.7	1678	Q	Q
\$35,000 OR MORE.....	2.2	1904	1.1	1719	.1	984	.9	2258	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.3	1255	.5	974	.2	1058	.6	1612	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.0	1216	.8	1007	.2	974	.8	1558	Q	Q

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: Middle Atlantic**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>AGE OF HOUSEHOLD HEAD</b>										
UNDER 35 YEARS.....	4.2	1268	2.0	1177	0.5	1150	1.4	1499	Q	Q
35 TO 59 YEARS.....	5.9	1629	2.4	1439	.4	1478	2.6	1922	Q	Q
60 YEARS AND OVER.....	3.6	1298	1.4	1022	.3	1249	1.7	1603	Q	Q
<b>HOUSEHOLD MEMBERS</b>										
1.....	2.6	1152	1.1	891	.2	1048	1.3	1400	Q	Q
2.....	4.1	1325	1.7	1124	.4	1290	1.8	1625	Q	Q
3 OR MORE.....	6.9	1599	3.0	1442	.5	1379	2.7	1940	0.1	2005
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>										
<2,000 CDD AND >7,000 HDD.....	.8	1118	Q	Q	.1	1757	.3	1432	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	4.6	1258	2.7	1097	.5	1123	1.1	1729	.1	1833
<2,000 CDD AND 4,000 TO 5,499 HDD.....	8.3	1556	3.1	1373	.6	1371	4.4	1741	Q	Q
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Region: North Central**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	21.2	1042	15.4	1030	1.6	846	1.7	1489	1.0	1334
AREA TYPE										
URBAN.....	14.2	1002	12.4	1024	.9	764	.5	1293	.1	1086
RURAL.....	7.0	1124	3.1	1056	.7	965	1.2	1566	.9	1364
SMSA										
SMSA.....	13.9	1046	11.6	1049	1.1	853	.5	1562	.2	1784
NON-SMSA.....	7.4	1035	3.9	974	.5	828	1.2	1459	.9	1253
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	18.1	1090	13.1	1087	1.2	797	1.5	1471	1.0	1350
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	3.2	769	2.4	719	.3	1021	.1	1696	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	16.3	1127	11.9	1106	.6	1083	1.5	1469	1.0	1343
2 OR MORE UNITS.....	4.9	760	3.5	771	1.0	698	.1	1729	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	2.4	653	1.3	558	.6	678	.3	1103	.1	817
4 TO 5.....	9.2	888	6.8	894	.7	767	.5	1350	.4	1072
6 OR MORE.....	9.7	1284	7.3	1240	.3	1279	.9	1672	.5	1619
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	7.8	1053	5.8	1084	1.0	754	.4	1559	.3	1173
SOME.....	5.1	1142	4.0	1058	.3	1167	.4	1860	.3	1523
NONE.....	8.4	972	5.6	955	.3	872	.9	1301	.4	1336
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	6.8	730	4.4	721	1.0	669	0.4	1159	0.3	1042
1,000 TO 1,999.....	7.9	1055	5.9	1011	.3	1075	.7	1399	.5	1351
2,000 OR MORE.....	6.6	1346	5.2	1314	.2	1373	.6	1845	.3	1657
YEAR HOUSE BUILT										
1939 OR EARLIER.....	7.7	1109	5.9	1058	.2	853	.6	1678	.5	1563
1940 TO 1959.....	5.5	1011	4.4	1020	.1	809	.6	1322	.1	989
1960 OR LATER.....	8.0	1000	5.2	1007	1.3	849	.5	1436	.5	1147
OWN/RENT										
OWN.....	15.0	1141	11.2	1120	.5	1064	1.4	1514	.9	1380
RENT.....	6.2	803	4.3	795	1.1	756	.2	1344	.1	1027
1980 FAMILY INCOME										
LESS THAN \$10,000.....	6.3	884	4.3	890	.6	718	.5	1351	.3	1084
\$10,000 TO \$19,999.....	6.1	985	4.1	957	.7	882	.5	1399	.3	1291
\$20,000 TO \$34,999.....	6.2	1103	4.9	1071	.3	862	.4	1575	.2	1599
\$35,000 OR MORE.....	2.7	1403	2.1	1365	.1	1559	.3	1779	.2	1572
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	2.7	879	1.9	912	.2	790	.1	1319	.1	1122
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	4.0	902	2.7	924	.3	767	.3	1359	.2	1097

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Region: North Central**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>AGE OF HOUSEHOLD HEAD</b>										
UNDER 35 YEARS.....	6.9	912	5.0	936	0.8	751	0.4	1178	0.2	1233
35 TO 59 YEARS.....	8.1	1213	5.9	1188	.3	1030	.6	1747	.5	1554
60 YEARS AND OVER.....	6.2	966	4.5	926	.5	882	.6	1422	.4	1110
<b>HOUSEHOLD MEMBERS</b>										
1.....	4.3	758	3.1	740	.6	651	.3	1242	.1	919
2.....	7.0	1010	5.0	982	.5	877	.7	1511	.4	1070
3 OR MORE.....	10.0	1186	7.3	1188	.4	1079	.7	1567	.5	1677
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>										
<2,000 CDD AND >7,000 HDD.....	5.6	1009	2.9	955	.2	907	1.2	1368	.3	1265
<2,000 CDD AND 5,500 TO 7,000 HDD.....	11.5	1085	9.7	1063	.8	869	.4	1677	.3	1701
<2,000 CDD AND 4,000 TO 5,499 HDD.....	4.2	968	2.8	993	.6	798	.1	2591	.4	1098
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: East North**  
**Central**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	14.6	1068	11.2	1046	0.8	917	1.2	1447	0.5	1472
AREA TYPE										
URBAN.....	10.2	1023	9.2	1029	.6	794	.3	1300	.1	1028
RURAL.....	4.4	1172	2.1	1124	.3	1159	.9	1505	.4	1594
SMSA										
SMSA.....	10.6	1068	9.1	1056	.8	904	.4	1586	.1	1932
NON-SMSA.....	4.1	1069	2.1	1007	.1	1050	.9	1390	.3	1307
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	12.5	1121	9.3	1115	.7	815	1.2	1455	.4	1496
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	2.1	764	1.9	715	.2	1360	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	11.2	1158	8.5	1136	.3	1203	1.2	1450	.4	1496
2 OR MORE UNITS.....	3.4	770	2.8	774	.5	757	Q	Q	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	1.5	642	1.0	540	.3	759	.2	1112	Q	Q
4 TO 5.....	6.3	918	4.9	908	.4	795	.4	1305	.2	1110
6 OR MORE.....	6.8	1301	5.4	1262	.2	1382	.7	1606	.2	1853
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	4.4	1105	3.5	1127	.5	763	.2	1587	.1	1179
SOME.....	3.6	1157	3.0	1077	.2	1229	.3	1821	.1	1602
NONE.....	6.6	995	4.8	969	.1	1013	.7	1258	.3	1512
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	4.5	755	3.2	726	0.6	730	0.3	1126	0.2	1122
1,000 TO 1,999.....	5.6	1086	4.3	1030	.2	1241	.5	1397	.2	1579
2,000 OR MORE.....	4.5	1362	3.7	1348	.1	1360	.4	1768	.1	1909
YEAR HOUSE BUILT										
1939 OR EARLIER.....	5.4	1143	4.3	1095	Q	Q	.5	1596	.2	1781
1940 TO 1959.....	3.8	1063	3.2	1044	.1	940	.4	1348	Q	Q
1960 OR LATER.....	5.4	998	3.8	993	.7	913	.3	1363	.2	1203
OWN/RENT										
OWN.....	10.3	1170	7.9	1148	.2	1205	1.1	1468	.4	1539
RENT.....	4.3	824	3.3	803	.7	846	.1	1191	.1	1160
1980 FAMILY INCOME										
LESS THAN \$10,000.....	4.6	930	3.5	913	.3	861	.3	1356	.2	1058
\$10,000 TO \$19,999.....	4.1	1029	3.0	988	.4	978	.4	1349	.1	1407
\$20,000 TO \$34,999.....	4.2	1123	3.3	1095	.2	890	.3	1529	.1	2162
\$35,000 OR MORE.....	1.7	1396	1.4	1384	Q	Q	.2	1729	.1	1655
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	2.0	926	1.6	928	.1	1021	.1	1206	.1	1077
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	3.0	952	2.3	937	.2	998	.2	1331	.1	1072

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: East North Central**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>AGE OF HOUSEHOLD HEAD</b>										
UNDER 35 YEARS.....	4.6	933	3.5	943	0.4	785	0.3	1067	0.1	1313
35 TO 59 YEARS.....	5.4	1245	4.2	1212	.2	1195	.4	1750	.2	1860
60 YEARS AND OVER.....	4.6	994	3.5	950	.2	988	.5	1397	.2	1096
<b>HOUSEHOLD MEMBERS</b>										
1.....	2.9	773	2.3	749	.3	651	.2	1255	.1	965
2.....	4.7	1059	3.6	1022	.3	1013	.5	1543	.1	1125
3 OR MORE.....	6.9	1200	5.3	1193	.3	1090	.5	1433	.3	1807
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>										
<2,000 CDD AND >7,000 HDD.....	3.2	1002	1.5	964	Q	Q	.8	1278	.2	1100
<2,000 CDD AND 5,500 TO 7,000 HDD.....	10.2	1080	8.7	1064	.8	861	.4	1636	.1	2058
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.2	1149	1.0	1020	.1	1504	Q	Q	.1	1403
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.





# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: West North Central**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	6.6	984	4.2	986	0.8	768	0.4	1609	0.6	1222
AREA TYPE										
URBAN.....	4.0	948	3.2	1009	.4	722	.1	1274	Q	Q
RURAL.....	2.6	1042	1.0	907	.4	817	.3	1733	.6	1215
SMSA										
SMSA.....	3.3	975	2.5	1022	.4	753	.1	1500	Q	Q
NON-SMSA.....	3.3	994	1.7	935	.4	784	.3	1656	.5	1219
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	5.6	1021	3.8	1016	.6	777	.3	1530	.5	1230
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	1.0	779	.5	738	.2	743	.1	1838	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	5.1	1058	3.5	1034	.3	968	.3	1538	.6	1222
2 OR MORE UNITS.....	1.5	738	.7	761	.4	627	.1	1804	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	.8	672	.4	607	.3	614	.1	1091	Q	Q
4 TO 5.....	2.9	826	1.9	859	.3	730	.1	1520	.2	1040
6 OR MORE.....	2.8	1241	1.9	1161	.2	1155	.2	1863	.3	1426
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	3.4	985	2.4	1020	.5	746	.1	1497	.2	1171
SOME.....	1.5	1106	1.0	1001	.1	961	.1	1942	.2	1464
NONE.....	1.8	883	.8	871	.2	765	.2	1454	.2	1084
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	2.2	678	1.1	705	0.5	600	0.1	1247	0.2	965
1,000 TO 1,999.....	2.3	978	1.6	961	.2	899	.2	1408	.2	1093
2,000 OR MORE.....	2.1	1310	1.5	1229	.1	1386	.2	2014	.2	1577
YEAR HOUSE BUILT										
1939 OR EARLIER.....	2.3	1029	1.6	959	.1	815	.2	1927	.3	1389
1940 TO 1959.....	1.7	893	1.2	954	.1	687	.1	1213	Q	Q
1960 OR LATER.....	2.6	1004	1.4	1042	.6	767	.2	1565	.2	1093
OWN/RENT										
OWN.....	4.7	1078	3.2	1053	.3	986	.3	1694	.5	1262
RENT.....	1.9	757	1.0	768	.5	626	.1	1442	.1	812
1980 FAMILY INCOME										
LESS THAN \$10,000.....	1.7	764	.9	799	.3	596	.1	1334	.2	1107
\$10,000 TO \$19,999.....	1.9	890	1.1	879	.3	763	.1	1557	.1	1181
\$20,000 TO \$34,999.....	2.0	1060	1.5	1017	.1	810	.1	1714	.1	1174
\$35,000 OR MORE.....	1.0	1415	.7	1327	.1	1690	.1	1862	.1	1519
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.7	744	.3	829	.1	546	.1	1453	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.0	741	.4	844	.2	560	.1	1453	.1	1136

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: West North Central**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>AGE OF HOUSEHOLD HEAD</b>										
UNDER 35 YEARS.....	2.3	872	1.4	920	0.4	708	0.1	1410	0.1	1164
35 TO 59 YEARS.....	2.6	1145	1.7	1128	.2	883	.2	1742	.3	1321
60 YEARS AND OVER.....	1.7	889	1.1	845	.2	776	.1	1576	.2	1123
<b>HOUSEHOLD MEMBERS</b>										
1.....	1.3	726	.8	714	.3	651	.1	1208	.1	864
2.....	2.3	906	1.4	883	.3	727	.2	1415	.3	1043
3 OR MORE.....	3.0	1155	2.0	1175	.2	1062	.2	1926	.2	1535
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>										
<2,000 CDD AND >7,000 HDD.....	2.4	1019	1.4	945	.2	895	.4	1568	.1	1554
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.3	1127	1.0	1055	.1	986	.1	1950	.2	1370
<2,000 CDD AND 4,000 TO 5,499 HDD.....	3.0	896	1.9	980	.5	707	Q	Q	.3	994
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Region: South**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	27.7	922	13.0	932	7.7	910	2.2	1228	2.1	956
AREA TYPE										
URBAN.....	16.3	927	10.1	932	4.4	882	.9	1237	.5	826
RURAL.....	11.4	915	2.9	933	3.3	948	1.3	1221	1.7	993
SMSA										
SMSA.....	15.8	946	8.3	941	5.3	913	1.0	1224	.8	966
NON-SMSA.....	11.9	891	4.6	917	2.4	904	1.2	1231	1.4	951
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	25.2	935	11.4	959	7.1	915	2.1	1234	2.1	964
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	2.5	791	1.6	746	.6	854	.1	1131	.1	723
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	22.6	961	11.0	973	4.8	1002	2.0	1244	2.1	956
2 OR MORE UNITS.....	5.1	751	1.9	702	2.9	757	.2	1077	Q	Q
NUMBER OF ROOMS										
1 TO 3 .....	2.9	587	1.0	558	1.3	594	.2	929	.2	515
4 TO 5.....	13.6	834	6.1	815	4.0	835	1.1	1103	1.3	930
6 OR MORE.....	11.2	1116	5.9	1115	2.5	1197	.9	1441	.6	1164
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	16.1	1008	7.7	1040	6.0	953	.7	1291	.9	1039
SOME.....	5.1	931	2.6	893	.9	789	.7	1320	.6	958
NONE.....	6.5	701	2.6	652	.8	722	.8	1091	.7	856
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	10.1	709	4.2	701	2.9	692	1.0	977	1.0	782
1,000 TO 1,999.....	13.4	970	6.6	951	3.8	962	.9	1345	1.1	1097
2,000 OR MORE.....	4.2	1281	2.2	1317	1.0	1361	.4	1631	.1	1098
YEAR HOUSE BUILT										
1939 OR EARLIER.....	4.8	848	2.6	831	.4	760	.4	1385	.6	981
1940 TO 1959.....	7.0	880	4.3	899	1.0	847	.8	1158	.3	890
1960 OR LATER.....	15.8	964	6.1	998	6.3	930	1.0	1214	1.3	960
OWN/RENT										
OWN.....	19.0	986	9.2	1006	4.7	990	1.6	1274	1.6	958
RENT.....	8.7	784	3.8	752	3.1	789	.6	1117	.5	952
1980 FAMILY INCOME										
LESS THAN \$10,000.....	8.8	738	3.9	704	2.2	706	.9	1071	.9	885
\$10,000 TO \$19,999.....	7.7	873	3.4	887	2.2	830	.6	1194	.5	930
\$20,000 TO \$34,999.....	7.3	1039	3.6	1049	2.0	1026	.5	1478	.6	1027
\$35,000 OR MORE.....	3.9	1223	2.1	1237	1.3	1223	.2	1490	.1	1272
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	4.7	735	2.0	744	1.1	736	.4	967	.6	836
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	6.3	742	2.8	729	1.4	729	.6	1015	.7	854

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Region: South**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MIL-LIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MIL-LIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MIL-LIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MIL-LIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MIL-LIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>AGE OF HOUSEHOLD HEAD</b>										
UNDER 35 YEARS.....	8.8	876	4.0	898	3.2	848	0.4	1130	0.6	962
35 TO 59 YEARS.....	10.8	1025	5.3	1028	2.5	1087	.9	1284	.7	1070
60 YEARS AND OVER.....	8.1	835	3.7	831	2.0	787	.9	1214	.8	854
<b>HOUSEHOLD MEMBERS</b>										
1.....	5.0	660	2.3	652	1.4	604	.5	1066	.4	646
2.....	9.6	881	4.2	874	3.0	867	.9	1178	.9	951
3 OR MORE.....	13.1	1053	6.5	1072	3.3	1082	.8	1381	.9	1100
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>										
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 5,500 TO 7,000 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 4,000 TO 5,499 HDD.....	5.9	984	2.7	1029	1.0	951	.9	1386	.1	1274
<2,000 CDD AND <4,000 HDD.....	10.5	881	4.9	861	2.8	887	.8	1168	.8	967
>2,000 CDD AND <4,000 HDD.....	11.3	929	5.4	948	3.9	916	.4	999	1.2	910

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: South Atlantic**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	14.1	939	4.8	962	4.4	896	2.0	1242	1.2	984
AREA TYPE										
URBAN.....	7.8	958	3.7	964	2.6	896	.9	1239	.4	796
RURAL.....	6.3	916	1.1	955	1.9	896	1.1	1246	.8	1069
SMSA										
SMSA.....	8.2	974	3.0	999	3.4	899	1.0	1218	.5	949
NON-SMSA.....	6.0	891	1.7	897	1.1	884	1.0	1266	.7	1011
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	12.6	956	3.6	1026	4.3	901	1.8	1250	1.2	986
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	1.5	798	1.1	760	.2	772	.1	1131	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	10.8	997	3.4	1062	2.7	995	1.8	1263	1.2	984
2 OR MORE UNITS.....	3.4	754	1.4	712	1.7	743	.2	1077	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	1.6	603	.5	566	.7	616	.2	949	.1	385
4 TO 5.....	6.8	850	1.9	843	2.4	808	1.0	1104	.8	945
6 OR MORE.....	5.8	1134	2.4	1135	1.3	1197	.8	1468	.3	1295
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	7.3	1020	2.6	1077	3.4	927	.6	1289	.4	1129
SOME.....	2.6	1029	1.0	969	.5	850	.6	1361	.3	979
NONE.....	4.2	746	1.2	709	.6	755	.7	1096	.5	863
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	5.4	725	1.6	732	1.7	687	0.9	980	0.6	753
1,000 TO 1,999.....	6.6	992	2.1	957	2.4	943	.8	1367	.6	1192
2,000 OR MORE.....	2.2	1300	1.0	1330	.4	1437	.3	1645	.1	1105
YEAR HOUSE BUILT										
1939 OR EARLIER.....	2.6	944	1.1	944	.3	760	.4	1398	.3	1091
1940 TO 1959.....	3.1	885	1.2	950	.6	806	.6	1157	.1	941
1960 OR LATER.....	8.5	957	2.5	976	3.6	919	.9	1232	.8	954
OWN/RENT										
OWN.....	9.0	1013	2.9	1079	2.7	966	1.4	1295	.9	1002
RENT.....	5.1	807	1.9	783	1.7	786	.6	1126	.3	924
1980 FAMILY INCOME										
LESS THAN \$10,000.....	4.4	765	1.2	688	1.3	699	.8	1083	.5	955
\$10,000 TO \$19,999.....	4.0	884	1.1	893	1.4	856	.6	1208	.3	890
\$20,000 TO \$34,999.....	3.8	1061	1.4	1098	1.2	994	.4	1502	.4	1072
\$35,000 OR MORE.....	1.9	1206	1.1	1170	.5	1271	.2	1484	.1	1203
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	2.4	751	.7	770	.6	755	.3	968	.3	862
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	3.1	775	.9	764	.8	764	.5	1014	.4	905

See footnotes at end of table.



# Average Residential Fuel Expenditures

Table 3. (Continued)  
Census Division: South Atlantic

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>AGE OF HOUSEHOLD HEAD</b>										
UNDER 35 YEARS.....	4.4	896	1.5	885	1.8	898	0.4	1147	0.3	960
35 TO 59 YEARS.....	5.5	1033	2.0	1075	1.2	1047	.8	1294	.4	1096
60 YEARS AND OVER.....	4.3	863	1.2	868	1.4	759	.8	1235	.4	889
<b>HOUSEHOLD MEMBERS</b>										
1.....	2.6	683	.9	656	.8	567	.5	1092	.2	702
2.....	5.0	896	1.5	878	1.8	860	.8	1184	.5	980
3 OR MORE.....	6.5	1075	2.4	1130	1.9	1065	.7	1399	.5	1107
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>										
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 5,500 TO 7,000 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 4,000 TO 5,499 HDD.....	4.5	1009	2.0	1061	.6	990	.8	1432	.1	1448
<2,000 CDD AND <4,000 HDD.....	5.6	911	2.3	880	1.4	902	.7	1182	.5	958
>2,000 CDD AND <4,000 HDD.....	4.1	901	.5	932	2.5	869	.4	999	.6	927

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: East South**  
**Central**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	5.6	884	2.5	926	1.8	880	0.2	1103	0.3	960
AREA TYPE										
URBAN.....	2.7	868	1.8	924	.8	777	Q	Q	Q	Q
RURAL.....	2.9	898	.7	931	1.0	957	.2	1092	.3	971
SMSA										
SMSA.....	2.3	909	1.4	946	.7	832	Q	Q	.1	1011
NON-SMSA.....	3.3	866	1.1	900	1.1	907	.2	1043	.3	947
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	5.4	892	2.3	943	1.8	882	.2	1103	.3	954
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	.2	658	.2	674	Q	Q	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	5.0	917	2.3	956	1.4	956	.2	1103	.3	960
2 OR MORE UNITS.....	.6	625	.2	593	.4	642	Q	Q	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	.5	559	.1	483	.3	550	Q	Q	.1	823
4 TO 5.....	2.6	778	1.1	803	.8	771	.1	1089	.2	939
6 OR MORE.....	2.5	1054	1.3	1066	.7	1127	.1	1215	.1	1095
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	3.7	958	1.7	989	1.4	920	.1	1303	.2	1061
SOME.....	1.0	813	.5	849	.3	798	.1	893	.1	810
NONE.....	.9	655	.3	691	.1	657	.1	1041	.1	877
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	1.8	657	0.6	660	0.6	641	0.1	933	0.2	849
1,000 TO 1,999.....	2.7	901	1.3	924	.8	908	.1	1130	.2	1035
2,000 OR MORE.....	1.1	1196	.5	1261	.3	1244	Q	Q	Q	Q
YEAR HOUSE BUILT										
1939 OR EARLIER.....	.8	705	.4	771	.1	844	Q	Q	.1	772
1940 TO 1959.....	1.6	904	1.0	931	.3	829	.1	1159	.1	1164
1960 OR LATER.....	3.2	917	1.1	984	1.4	892	.1	1035	.2	957
OWN/RENT										
OWN.....	4.4	944	2.0	986	1.3	968	.2	1129	.3	967
RENT.....	1.2	665	.5	697	.5	668	Q	Q	Q	Q
1980 FAMILY INCOME										
LESS THAN \$10,000.....	1.9	724	.8	771	.6	709	.1	978	.2	825
\$10,000 TO \$19,999.....	1.6	854	.8	869	.5	831	.1	1072	.1	1218
\$20,000 TO \$34,999.....	1.3	963	.5	1011	.4	927	Q	Q	.1	1051
\$35,000 OR MORE.....	.9	1180	.4	1235	.3	1201	Q	Q	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.0	691	.4	751	.3	669	Q	Q	.1	871
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.3	691	.5	733	.4	636	.1	1016	.2	839

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: East South**  
**Central**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>AGE OF HOUSEHOLD HEAD</b>										
UNDER 35 YEARS.....	1.6	791	0.7	860	0.6	754	Q	Q	0.1	916
35 TO 59 YEARS.....	2.5	987	1.1	1018	.7	1015	0.1	1217	.1	1067
60 YEARS AND OVER.....	1.6	816	.7	852	.4	822	.1	1014	.2	890
<b>HOUSEHOLD MEMBERS</b>										
1.....	1.0	632	.5	679	.3	605	Q	Q	.1	614
2.....	1.9	856	.8	917	.6	836	.1	1130	.1	864
3 OR MORE.....	2.8	989	1.2	1023	.8	1028	.1	1254	.1	1190
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>										
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 5,500 TO 7,000 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.5	906	.7	939	.4	886	.1	1137	Q	Q
<2,000 CDD AND <4,000 HDD.....	3.2	882	1.2	931	1.2	887	.1	1029	.2	992
>2,000 CDD AND <4,000 HDD.....	1.0	854	.5	897	.2	831	Q	Q	.1	933

See footnotes at end of table.





# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: West South**  
**Central**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	8.0	920	5.7	910	1.5	992	Q	Q	0.6	898
AREA TYPE										
URBAN.....	5.8	914	4.6	909	1.1	926	Q	Q	.1	1009
RURAL.....	2.1	937	1.1	912	.4	1197	Q	Q	.5	886
SMSA										
SMSA.....	5.3	919	3.9	893	1.3	991	Q	Q	.2	1001
NON-SMSA.....	2.6	922	1.8	946	.2	998	Q	Q	.4	855
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	7.2	932	5.4	920	1.0	1028	Q	Q	.5	921
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	.8	814	.3	732	.4	900	Q	Q	.1	663
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	6.9	937	5.4	923	.8	1108	Q	Q	.6	898
2 OR MORE UNITS.....	1.1	814	.4	725	.7	864	Q	Q	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	.8	573	.4	566	.3	582	Q	Q	Q	Q
4 TO 5.....	4.3	841	3.1	801	.8	982	Q	Q	.4	896
6 OR MORE.....	2.9	1134	2.3	1123	.4	1327	Q	Q	.2	961
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	5.1	1029	3.5	1037	1.3	1055	Q	Q	.3	876
SOME.....	1.5	846	1.2	845	.1	531	Q	Q	.2	978
NONE.....	1.4	594	1.1	579	.1	516	Q	Q	.1	814
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	3.0	710	2.0	690	0.7	751	Q	Q	0.2	803
1,000 TO 1,999.....	4.1	979	3.1	959	.6	1122	Q	Q	.3	961
2,000 OR MORE.....	.9	1339	.7	1342	.2	1398	Q	Q	Q	Q
YEAR HOUSE BUILT										
1939 OR EARLIER.....	1.5	757	1.1	744	.1	659	Q	Q	.2	908
1940 TO 1959.....	2.4	857	2.1	854	.1	1087	Q	Q	.1	685
1960 OR LATER.....	4.1	1015	2.6	1026	1.3	1006	Q	Q	.3	981
OWN/RENT										
OWN.....	5.6	973	4.3	967	.7	1126	Q	Q	.4	851
RENT.....	2.4	797	1.4	730	.8	877	Q	Q	.2	1004
1980 FAMILY INCOME										
LESS THAN \$10,000.....	2.5	702	1.9	685	.3	734	Q	Q	.3	806
\$10,000 TO \$19,999.....	2.1	865	1.6	892	.3	713	Q	Q	.2	922
\$20,000 TO \$34,999.....	2.2	1044	1.6	1019	.4	1202	Q	Q	.1	875
\$35,000 OR MORE.....	1.1	1286	.6	1350	.4	1180	Q	Q	.1	1337
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.4	739	1.0	722	.2	776	Q	Q	.2	759
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.9	723	1.4	704	.2	761	Q	Q	.2	771

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: West South Central**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>AGE OF HOUSEHOLD HEAD</b>										
UNDER 35 YEARS.....	2.8	894	1.8	923	0.7	798	Q	Q	0.2	977
35 TO 59 YEARS.....	2.9	1042	2.2	989	.5	1277	Q	Q	.2	998
60 YEARS AND OVER.....	2.2	796	1.7	797	.2	915	Q	Q	.2	765
<b>HOUSEHOLD MEMBERS</b>										
1.....	1.5	637	1.0	635	.3	688	Q	Q	.1	570
2.....	2.6	872	1.8	851	.5	931	Q	Q	.2	930
3 OR MORE.....	3.8	1063	2.9	1044	.6	1205	Q	Q	.2	1033
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>										
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 5,500 TO 7,000 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 4,000 TO 5,499 HDD.....	-	-	-	-	-	-	-	-	-	-
<2,000 CDD AND <4,000 HDD.....	1.7	783	1.4	766	.2	804	Q	Q	.1	967
>2,000 CDD AND <4,000 HDD.....	6.2	958	4.4	956	1.2	1027	Q	Q	.5	888

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Region: West**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MIL-LIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MIL-LIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MIL-LIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MIL-LIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MIL-LIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	16.3	721	10.8	726	3.4	636	0.4	941	0.4	1251
AREA TYPE										
URBAN.....	13.0	695	9.6	711	2.5	624	.3	930	.1	847
RURAL.....	3.3	820	1.2	847	.8	669	.1	972	.4	1323
SMSA										
SMSA.....	12.8	710	9.5	722	2.3	621	.3	949	.1	1161
NON-SMSA.....	3.5	759	1.2	760	1.0	668	.1	916	.3	1294
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	14.1	745	9.2	769	3.0	620	.4	941	.3	1211
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	2.2	565	1.6	476	.4	746	Q	Q	.1	1393
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	12.3	804	8.3	810	2.0	732	.4	941	.4	1251
2 OR MORE UNITS.....	4.0	463	2.4	440	1.4	497	Q	Q	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	2.2	432	1.2	405	.7	476	Q	Q	.1	675
4 TO 5.....	7.3	624	4.5	612	1.8	605	.2	898	.2	773
6 OR MORE.....	6.9	914	5.1	899	.8	837	.2	986	.2	1735
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	3.6	911	2.2	905	1.1	830	Q	Q	.2	1534
SOME.....	1.9	640	1.4	654	.3	555	Q	Q	.1	750
NONE.....	10.7	671	7.1	686	2.0	539	.4	959	.2	1110
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	6.0	524	3.4	505	1.7	489	0.1	897	0.1	786
1,000 TO 1,999.....	7.8	754	5.5	732	1.4	760	.2	915	.2	1447
2,000 OR MORE.....	2.5	1083	1.8	1131	.3	846	.1	1012	.1	1495
YEAR HOUSE BUILT										
1939 OR EARLIER.....	3.6	660	2.6	671	.4	558	.1	876	.1	1027
1940 TO 1959.....	4.5	737	3.4	714	.4	680	.2	948	.1	1348
1960 OR LATER.....	8.2	738	4.7	765	2.6	640	.1	1034	.2	1286
OWN/RENT										
OWN.....	10.0	822	6.9	835	1.6	702	.3	939	.4	1340
RENT.....	6.2	558	3.9	534	1.8	575	.1	944	.1	727
1980 FAMILY INCOME										
LESS THAN \$10,000.....	4.0	613	2.5	611	1.0	559	.1	936	.1	1251
\$10,000 TO \$19,999.....	4.1	646	2.6	633	.9	572	.2	839	.1	1197
\$20,000 TO \$34,999.....	5.0	747	3.3	749	1.0	705	.1	932	.2	972
\$35,000 OR MORE.....	3.2	909	2.4	915	.5	747	.1	1250	.1	1784
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.9	614	1.2	622	.5	589	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.9	622	1.8	613	.7	595	.1	938	.1	1304

See footnotes at end of table.



# Average Residential Fuel Expenditures

Table 3. (Continued)  
Census Region: West

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>AGE OF HOUSEHOLD HEAD</b>										
UNDER 35 YEARS.....	6.5	615	4.1	610	1.7	605	0.1	909	0.1	747
35 TO 59 YEARS.....	6.4	865	4.5	873	1.2	736	.1	970	.2	1615
60 YEARS AND OVER.....	3.4	649	2.2	646	.6	520	.2	931	.1	997
<b>HOUSEHOLD MEMBERS</b>										
1.....	2.6	498	1.7	482	.7	461	.1	903	.1	731
2.....	5.7	655	3.6	663	1.4	598	.2	926	.1	1106
3 OR MORE.....	8.0	840	5.4	844	1.3	758	.2	970	.2	1498
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>										
<2,000 CDD AND >7,000 HDD.....	1.3	824	1.0	800	.1	1002	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.7	751	.8	807	.5	687	.1	930	.1	1029
<2,000 CDD AND 4,000 TO 5,499 HDD.....	3.3	665	1.1	786	1.4	545	.3	934	Q	Q
<2,000 CDD AND <4,000 HDD.....	9.1	704	7.3	691	1.1	622	Q	Q	.3	1387
>2,000 CDD AND <4,000 HDD.....	.9	875	.4	825	.2	1015	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: Mountain**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	4.0	791	2.8	778	0.6	876	0.1	941	0.1	1084
AREA TYPE										
URBAN.....	2.8	795	2.3	775	.4	967	Q	Q	Q	Q
RURAL.....	1.1	779	.5	790	.3	738	Q	Q	.1	1084
SMSA										
SMSA.....	2.4	796	2.1	773	.3	1009	Q	Q	Q	Q
NON-SMSA.....	1.6	783	.8	791	.4	790	Q	Q	.1	1105
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	3.3	802	2.3	814	.6	847	.1	941	.1	920
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	.6	731	.5	621	.1	1077	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	3.3	824	2.3	821	.5	908	.1	941	.1	1084
2 OR MORE UNITS.....	.7	622	.5	567	.1	754	Q	Q	Q	Q
NUMBER OF ROOMS										
1 TO 3 .....	.5	587	.4	548	.1	1010	Q	Q	Q	Q
4 TO 5.....	1.9	719	1.3	719	.4	740	Q	Q	.1	764
6 OR MORE.....	1.5	945	1.1	933	.2	1053	Q	Q	Q	Q
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	.9	973	.5	912	.3	1126	Q	Q	Q	Q
SOME.....	.4	678	.3	745	.1	557	Q	Q	Q	Q
NONE.....	2.6	747	2.0	748	.2	670	Q	Q	.1	1162
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	1.5	623	1.1	617	0.2	669	Q	Q	0.1	775
1,000 TO 1,999.....	1.7	830	1.2	816	.3	949	Q	Q	Q	Q
2,000 OR MORE.....	.7	1039	.5	1022	.1	1157	Q	Q	.1	1317
YEAR HOUSE BUILT										
1939 OR EARLIER.....	.7	745	.5	714	Q	Q	Q	Q	.1	1297
1940 TO 1959.....	1.0	778	.8	782	.1	891	Q	Q	Q	Q
1960 OR LATER.....	2.3	808	1.6	796	.5	884	Q	Q	.1	916
OWN/RENT										
OWN.....	2.7	839	1.9	846	.4	871	Q	Q	.1	1247
RENT.....	1.2	683	.9	642	.2	887	Q	Q	Q	Q
1980 FAMILY INCOME										
LESS THAN \$10,000.....	1.2	707	.9	680	.2	825	Q	Q	Q	Q
\$10,000 TO \$19,999.....	1.3	729	.9	732	.2	743	Q	Q	Q	Q
\$20,000 TO \$34,999.....	1.0	866	.7	846	.2	956	Q	Q	Q	Q
\$35,000 OR MORE.....	.4	1017	.3	1043	.1	1199	Q	Q	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.5	748	.4	724	.1	874	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.8	745	.5	731	.1	900	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: Mountain**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>AGE OF HOUSEHOLD HEAD</b>										
UNDER 35 YEARS.....	1.8	698	1.2	701	0.3	730	Q	Q	0.1	758
35 TO 59 YEARS.....	1.4	914	1.0	894	.2	1071	Q	Q	Q	Q
60 YEARS AND OVER.....	.7	778	.6	740	.1	865	Q	Q	Q	Q
<b>HOUSEHOLD MEMBERS</b>										
1.....	.7	599	.5	557	.1	788	Q	Q	Q	Q
2.....	1.3	740	1.0	747	.2	720	Q	Q	Q	Q
3 OR MORE.....	1.9	894	1.3	894	.3	986	Q	Q	.1	1180
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>										
<2,000 CDD AND >7,000 HDD.....	1.2	832	.9	807	.1	1131	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.4	771	.8	806	.3	717	0.1	941	.1	1061
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.3	776	.3	766	.1	826	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	.4	599	.4	603	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	.6	902	.4	841	.2	1055	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: Pacific**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	12.3	698	7.9	708	2.8	580	0.4	941	0.3	1334
AREA TYPE										
URBAN.....	10.2	668	7.3	691	2.2	564	.3	935	.1	847
RURAL.....	2.2	842	.6	896	.6	639	.1	958	.2	1477
SMSA										
SMSA.....	10.4	691	7.5	707	2.1	574	.3	941	.1	1186
NON-SMSA.....	1.9	739	.5	708	.7	597	.1	936	.2	1458
UTILITIES PAID BY HOUSEHOLD										
ALL PAID BY HOUSEHOLD.....	10.7	728	6.9	754	2.4	568	.3	941	.2	1345
SOME, NONE, OTHER PAID BY HOUSEHOLD.....	1.6	498	1.0	404	.3	666	Q	Q	.1	1293
TYPE OF HOUSING STRUCTURE										
SINGLE FAMILY OR MOBILE HOME..	9.0	797	6.0	805	1.5	672	.3	941	.3	1334
2 OR MORE UNITS.....	3.3	431	1.9	401	1.3	471	Q	Q	Q	Q
NUMBER OF ROOMS										
1 TO 3.....	1.7	386	.8	332	.7	430	Q	Q	Q	Q
4 TO 5.....	5.3	590	3.1	567	1.5	573	.1	891	.1	787
6 OR MORE.....	5.3	904	4.0	890	.6	757	.2	986	.2	1693
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED										
ALL.....	2.7	891	1.7	903	.8	716	Q	Q	.2	1606
SOME.....	1.5	629	1.2	634	.2	554	Q	Q	Q	Q
NONE.....	8.1	647	5.1	661	1.7	521	.3	945	.1	1009
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)										
LESS THAN 999.....	4.5	491	2.3	453	1.4	459	0.1	903	0.1	797
1,000 TO 1,999.....	6.1	733	4.3	708	1.1	707	.2	928	.2	1438
2,000 OR MORE.....	1.8	1102	1.3	1178	.3	728	.1	982	Q	Q
YEAR HOUSE BUILT										
1939 OR EARLIER.....	3.0	641	2.1	662	.4	533	.1	896	Q	Q
1940 TO 1959.....	3.5	726	2.6	694	.3	643	.2	957	.1	1327
1960 OR LATER.....	5.8	710	3.2	750	2.1	578	.1	974	.1	1526
OWN/RENT										
OWN.....	7.3	815	5.0	831	1.2	639	.3	946	.3	1374
RENT.....	5.0	527	3.0	500	1.6	535	.1	926	Q	Q
1980 FAMILY INCOME										
LESS THAN \$10,000.....	2.8	571	1.6	572	.8	494	.1	918	Q	Q
\$10,000 TO \$19,999.....	2.8	609	1.7	579	.7	521	.1	842	.1	1354
\$20,000 TO \$34,999.....	4.0	716	2.6	723	.8	651	.1	927	.1	803
\$35,000 OR MORE.....	2.8	891	2.1	896	.5	680	.1	1250	.1	1779
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.4	562	.8	575	.4	507	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.1	578	1.2	559	.6	531	.1	944	Q	Q

See footnotes at end of table.



# Average Residential Fuel Expenditures

**Table 3. (Continued)**  
**Census Division: Pacific**

HOUSEHOLD CHARACTERISTICS	ALL HOUSEHOLDS		HOUSEHOLDS USING:							
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NATURAL GAS AS MAIN HEATING FUEL		ELECTRICITY AS MAIN HEATING FUEL		FUEL OIL OR KEROSENE AS MAIN HEATING FUEL		LIQUEFIED PETROLEUM GAS AS MAIN HEATING FUEL	
			NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>AGE OF HOUSEHOLD HEAD</b>										
UNDER 35 YEARS.....	4.7	583	2.8	570	1.3	575	0.1	871	Q	Q
35 TO 59 YEARS.....	5.0	851	3.4	867	.9	646	.1	963	0.2	1711
60 YEARS AND OVER.....	2.6	612	1.6	613	.5	470	.2	950	.1	774
<b>HOUSEHOLD MEMBERS</b>										
1.....	1.9	461	1.2	448	.5	400	.1	975	.1	757
2.....	4.4	629	2.6	631	1.2	580	.1	910	.1	1088
3 OR MORE.....	6.1	823	4.2	829	1.0	679	.2	955	.1	1682
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>										
<2,000 CDD AND >7,000 HDD.....	.1	760	.1	722	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.3	649	Q	Q	.2	647	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	2.9	653	.9	792	1.4	534	.3	934	Q	Q
<2,000 CDD AND <4,000 HDD.....	8.6	709	6.9	697	1.1	624	Q	Q	.3	1406
>2,000 CDD AND <4,000 HDD.....	.3	826	Q	Q	Q	Q	Q	Q	Q	Q

"-" = DATA NOT APPLICABLE.

"Q" = DATA WITHHELD BECAUSE OF A LARGE VARIANCE.

NOTE: BECAUSE OF ROUNDING, DATA MAY NOT SUM TO TOTALS. PERCENTAGES ARE CALCULATED ON UNROUNDED NUMBERS. SEE GLOSSARY FOR DEFINITION OF TERMS USED IN THIS REPORT.

NOTE: COLUMN TOTALS WILL NOT SUM TO TOTAL NUMBER OF HOUSEHOLDS BECAUSE 6.8 MILLION HOUSEHOLDS WITH NO MAIN HEATING FUEL OR WITH OTHER MAIN HEATING FUEL, SUCH AS WOOD, WERE NOT INCLUDED.

SOURCE: ENERGY INFORMATION ADMINISTRATION, OFFICE OF ENERGY MARKETS AND END USE, ENERGY END USE DIVISION, FORM EIA-457, THE 1981 RESIDENTIAL ENERGY CONSUMPTION SURVEY.





**Table 4. U.S. Average Residential Natural Gas Consumption and Expenditures—April 1981 Through March 1982, United States**

# Average Residential Natural Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	53.4	99	101	459	4.55	46.2	110	112	499
AREA TYPE									
URBAN.....	45.0	97	99	456	4.61	38.3	109	111	502
RURAL.....	8.4	109	112	476	4.26	8.0	112	115	487
SMSA									
SMSA.....	41.7	96	98	454	4.61	35.2	109	111	502
NON-SMSA.....	11.7	108	110	476	4.33	11.1	111	114	490
NATURAL GAS PAID BY HOUSEHOLD									
YES.....	43.6	106	108	482	4.47	39.0	114	117	514
NO.....	9.9	68	70	356	5.09	7.3	84	86	419
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	38.3	112	114	501	4.39	35.5	117	120	522
2 OR MORE UNITS.....	15.2	66	67	351	5.21	10.7	84	86	423
NUMBER OF ROOMS									
1 TO 3.....	6.1	54	55	278	5.06	4.3	67	68	325
4 TO 5.....	23.1	85	86	395	4.58	19.9	94	96	428
6 OR MORE.....	24.2	124	126	565	4.47	22.0	132	135	598
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	18.9	99	101	448	4.42	17.2	106	108	473
SOME.....	12.4	105	107	506	4.72	10.5	120	122	563
NONE.....	22.1	95	97	442	4.55	18.5	108	110	487
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	17.7	68	69	329	4.75	13.9	80	81	371
1,000 TO 1,999.....	23.5	96	98	445	4.53	21.1	103	105	472
2,000 OR MORE.....	12.2	149	152	674	4.42	11.1	159	162	712
YEAR HOUSE BUILT									
1939 OR EARLIER.....	17.8	107	110	515	4.70	14.2	127	130	592
1940 TO 1959.....	15.0	96	98	428	4.37	13.3	105	107	460
1960 OR LATER.....	20.6	94	96	432	4.53	18.6	99	101	457
OWN/RENT									
OWN.....	34.7	114	116	515	4.44	31.9	120	123	540
RENT.....	18.7	71	73	354	4.86	14.3	86	88	408
1980 FAMILY INCOME									
LESS THAN \$10,000.....	14.8	86	88	404	4.59	12.2	99	101	450
\$10,000 TO \$19,999.....	14.3	93	95	437	4.60	12.2	105	107	480
\$20,000 TO \$34,999.....	15.8	103	105	473	4.52	14.1	111	114	506
\$35,000 OR MORE.....	8.5	124	126	565	4.47	7.8	131	134	594
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	6.9	90	91	417	4.55	5.7	102	104	465
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	10.2	88	89	411	4.59	8.3	100	102	459
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	17.8	89	91	416	4.56	15.4	98	100	448
35 TO 59 YEARS.....	21.5	109	111	504	4.54	18.6	121	124	550
60 YEARS AND OVER.....	14.1	96	98	444	4.54	12.2	107	110	487
HOUSEHOLD MEMBERS									
1.....	10.2	75	76	356	4.67	8.5	85	87	395
2.....	17.0	94	96	433	4.52	14.9	103	106	468
3 OR MORE.....	26.3	111	114	515	4.53	22.8	123	125	559
MAIN HEATING FUEL									
NATURAL GAS.....	46.2	110	112	499	4.46	46.2	110	112	499
ELECTRICITY.....	1.6	38	38	182	4.74	-	-	-	-
FUEL OIL OR KEROSENE.....	4.4	23	24	198	8.43	-	-	-	-
OTHER.....	1.1	45	46	222	4.88	-	-	-	-

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

Table 4. (Continued)  
United States

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	45.6	106	108	484	4.47	42.1	111	114	505
ELECTRICITY.....	4.4	86	88	416	4.75	4.0	92	93	440
FUEL OIL OR KEROSENE.....	3.1	18	18	175	9.67	.1	75	76	499
OTHER.....	.3	24	24	170	6.98	Q	Q	Q	180
<b>MAIN HEATING EQUIPMENT USING NATURAL GAS</b>									
CENTRAL WARM AIR FURNACE.....	28.5	118	120	518	4.32	28.5	118	120	518
STEAM OR HOT-WATER SYSTEM.....	7.2	132	135	688	5.09	7.2	132	135	688
FLOOR, WALL OR PIPELESS FURNACE.....	5.6	69	70	280	4.00	5.6	69	70	280
ROOM HEATER.....	4.7	76	78	362	4.66	4.7	76	78	362
NONE/OTHER.....	7.4	31	32	204	6.36	.2	88	90	399
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	4.6	120	122	529	4.33	4.1	129	132	563
<2,000 CDD AND 5,500 TO 7,000 HDD.....	15.8	134	137	605	4.42	14.3	145	148	646
<2,000 CDD AND 4,000 TO 5,499 HDD.....	13.3	92	94	484	5.17	9.8	115	118	584
<2,000 CDD AND <4,000 HDD.....	13.4	75	76	311	4.08	12.2	78	79	323
>2,000 CDD AND <4,000 HDD.....	6.4	63	65	307	4.75	5.8	67	68	320

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

Table 4. (Continued)  
Census Region: Northeast

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	11.3	91	93	538	5.78	7.0	133	135	742
AREA TYPE									
URBAN.....	10.4	89	91	535	5.91	6.2	134	136	762
RURAL.....	.9	120	122	571	4.68	.8	124	127	594
SMSA									
SMSA.....	9.9	86	88	528	6.00	5.7	133	135	767
NON-SMSA.....	1.5	126	128	608	4.73	1.3	132	135	637
NATURAL GAS PAID BY HOUSEHOLD									
YES.....	8.0	103	105	587	5.59	5.1	147	150	801
NO.....	3.3	63	64	419	6.54	1.9	94	96	587
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	5.6	123	126	675	5.36	4.2	153	156	815
2 OR MORE UNITS.....	5.8	60	61	406	6.60	2.8	103	105	634
NUMBER OF ROOMS									
1 TO 3.....	2.0	45	46	318	6.90	.8	83	85	512
4 TO 5.....	4.4	71	73	447	6.15	2.6	107	109	628
6 OR MORE.....	5.0	127	129	704	5.44	3.6	162	165	875
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	1.9	99	101	572	5.65	1.5	125	127	696
SOME.....	3.9	92	94	561	5.95	2.4	135	138	778
NONE.....	5.5	87	89	509	5.70	3.2	135	137	737
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	4.1	53	54	363	6.72	1.9	92	93	568
1,000 TO 1,999.....	4.5	98	100	569	5.71	3.1	131	134	734
2,000 OR MORE.....	2.6	140	143	758	5.31	2.0	175	179	927
YEAR HOUSE BUILT									
1939 OR EARLIER.....	5.9	88	90	536	5.95	3.2	143	146	810
1940 TO 1959.....	2.1	87	88	483	5.46	1.3	131	134	688
1960 OR LATER.....	3.3	99	101	576	5.68	2.6	121	123	686
OWN/RENT									
OWN.....	6.3	118	121	663	5.50	4.7	148	151	808
RENT.....	5.1	58	59	384	6.49	2.3	102	105	612
1980 FAMILY INCOME									
LESS THAN \$10,000.....	2.9	71	72	436	6.04	1.5	118	121	674
\$10,000 TO \$19,999.....	3.5	84	86	505	5.88	2.1	126	129	713
\$20,000 TO \$34,999.....	3.3	101	103	576	5.59	2.3	135	137	740
\$35,000 OR MORE.....	1.7	122	124	707	5.68	1.2	157	161	882
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.1	82	83	493	5.92	.6	129	132	728
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.9	78	79	476	6.01	1.0	123	126	704
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	3.4	90	92	531	5.76	2.4	119	122	674
35 TO 59 YEARS.....	4.8	98	100	583	5.81	2.9	148	151	835
60 YEARS AND OVER.....	3.1	81	83	475	5.75	1.8	125	127	685
HOUSEHOLD MEMBERS									
1.....	2.4	60	62	382	6.20	1.3	93	95	548
2.....	3.4	85	87	497	5.73	2.1	125	127	685
3 OR MORE.....	5.6	108	110	630	5.70	3.6	151	155	848
MAIN HEATING FUEL									
NATURAL GAS.....	7.0	133	135	742	5.49	7.0	133	135	742
ELECTRICITY.....	.1	34	34	231	6.70	-	-	-	-
FUEL OIL OR KEROSENE.....	4.0	22	23	202	8.83	-	-	-	-
OTHER.....	.1	53	54	263	4.83	-	-	-	-

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

**Table 4. (Continued)**  
**Census Region: Northeast**

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	8.0	117	120	669	5.60	6.7	132	135	743
ELECTRICITY.....	.3	142	145	684	4.71	.2	166	169	787
FUEL OIL OR KEROSENE.....	3.0	17	18	175	9.84	.1	74	76	535
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING NATURAL GAS</b>									
CENTRAL WARM AIR FURNACE.....	3.1	138	141	711	5.03	3.1	138	141	711
STEAM OR HOT-WATER SYSTEM.....	3.6	129	132	774	5.86	3.6	129	132	774
FLOOR, WALL OR PIPELESS FURNACE.....	.1	100	102	670	6.57	.1	100	102	670
ROOM HEATER.....	.3	115	118	674	5.72	.3	115	118	674
NONE/OTHER.....	4.3	24	25	208	8.40	Q	Q	Q	1828
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	.2	123	126	790	6.27	.1	136	139	866
<2,000 CDD AND 5,500 TO 7,000 HDD.....	5.0	114	116	615	5.30	3.8	141	144	740
<2,000 CDD AND 4,000 TO 5,499 HDD.....	6.2	72	74	469	6.36	3.1	122	125	739
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



**Table 4. (Continued)**  
**Census Division: New**  
**England**

# Average Residential Natural Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	2.0	85	86	610	7.06	1.2	122	125	858
AREA TYPE									
URBAN.....	1.9	83	85	599	7.05	1.1	121	124	846
RURAL.....	.1	134	137	988	7.21	Q	Q	Q	1182
SMSA									
SMSA.....	1.9	85	87	615	7.07	1.1	123	125	862
NON-SMSA.....	.1	71	73	492	6.77	Q	Q	Q	734
NATURAL GAS PAID BY HOUSEHOLD									
YES.....	1.5	94	96	670	6.95	.9	133	136	923
NO.....	.5	53	54	416	7.69	.2	81	83	607
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	.8	116	118	806	6.83	.6	143	146	984
2 OR MORE UNITS.....	1.2	64	66	480	7.33	.6	103	105	736
NUMBER OF ROOMS									
1 TO 3.....	.2	64	65	481	7.42	.2	86	88	634
4 TO 5.....	.9	70	71	522	7.34	.5	104	106	748
6 OR MORE.....	.8	109	111	753	6.78	.5	157	160	1062
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.2	81	83	604	7.29	.1	103	105	749
SOME.....	.6	91	93	653	7.01	.4	125	127	874
NONE.....	1.2	82	84	591	7.05	.7	126	128	872
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	.9	62	63	469	7.45	.5	93	95	681
1,000 TO 1,999.....	.8	91	93	649	6.97	.4	132	135	917
2,000 OR MORE.....	.4	125	127	859	6.74	.3	161	165	1093
YEAR HOUSE BUILT									
1939 OR EARLIER.....	1.2	85	87	611	7.04	0.7	131	133	912
1940 TO 1959.....	.3	66	67	481	7.13	.2	113	116	777
1960 OR LATER.....	.4	97	99	702	7.06	.4	112	114	797
OWN/RENT									
OWN.....	1.0	105	108	742	6.90	.7	135	138	937
RENT.....	1.0	64	65	476	7.32	.5	104	107	744
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.6	72	73	535	7.27	.3	110	113	786
\$10,000 TO \$19,999.....	.7	84	85	602	7.05	.5	117	120	824
\$20,000 TO \$34,999.....	.5	85	87	607	7.00	.3	126	129	878
\$35,000 OR MORE.....	.2	128	131	887	6.79	.1	158	162	1084
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.2	93	95	667	7.00	.2	126	129	871
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.4	79	81	572	7.09	.2	118	121	822
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.6	69	70	513	7.29	.3	101	103	730
35 TO 59 YEARS.....	.9	99	101	698	6.89	.5	144	147	986
60 YEARS AND OVER.....	.6	78	80	574	7.18	.3	111	113	789
HOUSEHOLD MEMBERS									
1.....	.4	62	63	471	7.46	.2	90	92	662
2.....	.7	73	74	530	7.12	.4	110	112	770
3 OR MORE.....	.9	103	105	726	6.93	.6	144	147	996
MAIN HEATING FUEL									
NATURAL GAS.....	1.2	122	125	858	6.86	1.2	122	125	858
ELECTRICITY.....	.1	11	12	134	11.63	-	-	-	-
FUEL OIL OR KEROSENE.....	.7	29	30	246	8.31	-	-	-	-
OTHER.....	Q	Q	Q	890	Q	-	-	-	-

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

Table 4. (Continued)  
Census Division: New  
England

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	1.6	98	100	698	6.98	1.1	122	125	859
ELECTRICITY.....	.1	114	117	785	6.73	.1	123	126	841
FUEL OIL OR KEROSENE.....	.3	17	17	164	9.51	Q	Q	Q	Q
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING NATURAL GAS</b>									
CENTRAL WARM AIR FURNACE.....	.2	113	115	786	6.81	.2	113	115	786
STEAM OR HOT-WATER SYSTEM.....	.8	125	128	876	6.86	.8	125	128	876
FLOOR, WALL OR PIPELESS FURNACE.....	Q	Q	Q	773	Q	Q	Q	Q	773
ROOM HEATER.....	.1	118	121	821	6.80	.1	118	121	821
NONE/OTHER.....	.8	31	32	262	8.17	Q	Q	Q	1828
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	.2	123	126	790	6.27	.1	136	139	866
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.8	81	83	593	7.17	1.0	121	123	857
<2,000 CDD AND 4,000 TO 5,499 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



**Table 4. (Continued)  
Census Division: Middle  
Atlantic**

# Average Residential Natural Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	9.4	93	94	523	5.53	5.9	135	137	719
AREA TYPE									
URBAN.....	8.5	90	92	521	5.67	5.1	136	139	743
RURAL.....	.8	119	121	542	4.47	.8	122	125	564
SMSA									
SMSA.....	8.0	86	88	507	5.75	4.5	135	138	743
NON-SMSA.....	1.4	129	131	614	4.67	1.3	133	135	635
NATURAL GAS PAID BY HOUSEHOLD									
YES.....	6.5	105	107	568	5.30	4.2	150	153	773
NO.....	2.9	64	66	420	6.39	1.7	96	98	584
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	4.8	125	127	653	5.14	3.6	154	157	788
2 OR MORE UNITS.....	4.6	59	60	387	6.40	2.2	103	105	606
NUMBER OF ROOMS									
1 TO 3.....	1.7	43	44	296	6.79	.6	82	84	481
4 TO 5.....	3.4	72	73	426	5.83	2.1	108	110	596
6 OR MORE.....	4.2	130	133	694	5.23	3.2	163	166	847
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	1.7	101	103	569	5.51	1.3	127	130	691
SOME.....	3.3	93	95	546	5.77	2.0	137	139	760
NONE.....	4.3	89	91	486	5.35	2.5	137	140	701
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	3.3	51	52	335	6.49	1.5	91	93	530
1,000 TO 1,999.....	3.8	99	101	552	5.47	2.7	131	133	703
2,000 OR MORE.....	2.3	142	145	742	5.11	1.7	177	181	902
YEAR HOUSE BUILT									
1939 OR EARLIER.....	4.7	89	91	516	5.68	2.5	146	149	784
1940 TO 1959.....	1.8	90	92	483	5.23	1.1	134	136	674
1960 OR LATER.....	2.9	100	102	557	5.49	2.2	122	125	668
OWN/RENT									
OWN.....	5.3	121	123	648	5.27	4.0	150	153	785
RENT.....	4.1	57	58	362	6.26	1.9	102	104	578
1980 FAMILY INCOME									
LESS THAN \$10,000.....	2.3	70	72	412	5.73	1.2	120	123	645
\$10,000 TO \$19,999.....	2.7	84	86	479	5.57	1.6	129	131	680
\$20,000 TO \$34,999.....	2.8	104	106	571	5.39	2.0	136	138	722
\$35,000 OR MORE.....	1.5	121	124	685	5.54	1.1	157	160	855
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.9	78	80	444	5.55	.5	130	133	683
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.5	77	79	452	5.73	.8	125	127	674
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	2.9	95	97	534	5.53	2.0	122	125	665
35 TO 59 YEARS.....	4.0	98	100	559	5.58	2.4	149	152	802
60 YEARS AND OVER.....	2.5	82	83	453	5.45	1.4	128	131	660
HOUSEHOLD MEMBERS									
1.....	2.0	60	61	364	5.94	1.1	94	96	523
2.....	2.8	88	90	489	5.46	1.7	128	131	667
3 OR MORE.....	4.6	109	112	610	5.47	3.0	153	156	819
MAIN HEATING FUEL									
NATURAL GAS.....	5.9	135	137	719	5.23	5.9	135	137	719
ELECTRICITY.....	.1	52	54	311	5.81	-	-	-	-
FUEL OIL OR KEROSENE.....	3.3	21	21	192	8.98	-	-	-	-
OTHER.....	.1	47	48	214	4.48	-	-	-	-

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

**Table 4. (Continued)**  
**Census Division: Middle Atlantic**

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	6.4	122	124	662	5.32	5.6	134	137	720
ELECTRICITY.....	.2	149	152	658	4.32	.2	177	181	772
FUEL OIL OR KEROSENE.....	2.7	18	18	177	9.88	.1	74	76	535
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING NATURAL GAS</b>									
CENTRAL WARM AIR FURNACE.....	2.8	140	143	705	4.92	2.8	140	143	705
STEAM OR HOT-WATER SYSTEM.....	2.8	130	133	744	5.59	2.8	130	133	744
FLOOR, WALL OR PIPELESS FURNACE.....	Q	Q	Q	534	Q	Q	Q	Q	534
ROOM HEATER.....	.2	113	116	574	4.96	.2	113	116	574
NONE/OTHER.....	3.5	23	23	196	8.47	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	3.2	132	135	629	4.65	2.7	149	152	696
<2,000 CDD AND 4,000 TO 5,499 HDD.....	6.2	72	74	469	6.36	3.1	122	125	739
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.





# Average Residential Natural Gas Consumption and Expenditures

Table 4. (Continued)  
Census Region: North Central

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	16.1	136	139	580	4.16	15.4	141	144	596
AREA TYPE									
URBAN.....	13.0	136	138	585	4.23	12.4	140	143	603
RURAL.....	3.1	140	143	560	3.91	3.1	142	145	567
SMSA									
SMSA.....	12.1	138	141	592	4.20	11.6	142	145	609
NON-SMSA.....	4.0	132	134	543	4.04	3.9	136	139	557
NATURAL GAS PAID BY HOUSEHOLD									
YES.....	13.4	147	150	618	4.13	13.1	148	152	625
NO.....	2.7	86	88	393	4.45	2.3	98	100	431
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	12.1	151	154	630	4.10	11.9	152	156	637
2 OR MORE UNITS.....	4.0	93	95	426	4.50	3.5	102	104	458
NUMBER OF ROOMS									
1 TO 3.....	1.4	72	74	320	4.35	1.3	77	79	339
4 TO 5.....	7.1	116	118	506	4.29	6.8	120	123	522
6 OR MORE.....	7.5	169	172	700	4.07	7.3	171	175	711
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	6.0	135	138	557	4.04	5.8	138	141	568
SOME.....	4.1	146	149	617	4.15	4.0	149	152	630
NONE.....	6.0	132	135	579	4.30	5.6	138	141	602
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	4.8	92	94	405	4.31	4.4	99	101	428
1,000 TO 1,999.....	6.0	135	138	576	4.17	5.9	136	139	578
2,000 OR MORE.....	5.3	178	182	743	4.09	5.2	182	186	759
YEAR HOUSE BUILT									
1939 OR EARLIER.....	6.0	152	155	642	4.14	5.9	155	159	655
1940 TO 1959.....	4.7	129	132	550	4.17	4.4	136	139	574
1960 OR LATER.....	5.4	126	128	537	4.18	5.2	129	131	548
OWN/RENT									
OWN.....	11.4	152	155	634	4.09	11.2	154	157	642
RENT.....	4.7	100	102	450	4.41	4.3	108	110	478
1980 FAMILY INCOME									
LESS THAN \$10,000.....	4.7	124	127	540	4.27	4.3	132	135	568
\$10,000 TO \$19,999.....	4.3	126	129	540	4.18	4.1	130	133	554
\$20,000 TO \$34,999.....	5.0	137	140	578	4.14	4.9	139	142	586
\$35,000 OR MORE.....	2.1	184	188	752	4.01	2.1	186	190	761
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	2.1	127	130	549	4.23	1.9	138	141	589
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	3.0	127	130	556	4.29	2.7	138	140	595
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	5.3	119	121	514	4.24	5.0	124	126	531
35 TO 59 YEARS.....	6.2	155	158	645	4.08	5.9	159	163	662
60 YEARS AND OVER.....	4.7	132	135	568	4.21	4.5	135	138	581
HOUSEHOLD MEMBERS									
1.....	3.3	106	108	461	4.27	3.1	110	112	476
2.....	5.1	134	136	570	4.18	5.0	135	138	575
3 OR MORE.....	7.7	152	155	638	4.12	7.3	158	162	663
MAIN HEATING FUEL									
NATURAL GAS.....	15.4	141	144	596	4.15	15.4	141	144	596
ELECTRICITY.....	.2	17	18	150	8.53	-	-	-	-
FUEL OIL OR KEROSENE.....	.1	41	42	186	4.46	-	-	-	-
OTHER.....	.3	34	34	214	6.23	-	-	-	-

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

**Table 4. (Continued)**  
**Census Region: North Central**

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	14.5	140	143	591	4.13	14.1	143	146	601
ELECTRICITY.....	1.4	119	121	532	4.39	1.3	123	126	551
FUEL OIL OR KEROSENE.....	Q	Q	Q	352	Q	Q	Q	Q	352
OTHER.....	.2	23	24	185	7.78	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING NATURAL GAS</b>									
CENTRAL WARM AIR FURNACE.....	11.8	142	145	599	4.12	11.8	142	145	599
STEAM OR HOT-WATER SYSTEM.....	2.3	150	154	658	4.28	2.3	150	154	658
FLOOR, WALL OR PIPELESS FURNACE.....	.6	109	111	443	3.98	.6	109	111	443
ROOM HEATER.....	.7	109	111	460	4.15	.7	109	111	460
NONE/OTHER.....	.7	37	38	216	5.76	Q	Q	Q	710
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	3.3	115	118	535	4.55	2.9	127	129	578
<2,000 CDD AND 5,500 TO 7,000 HDD.....	9.9	147	151	619	4.11	9.7	150	153	629
<2,000 CDD AND 4,000 TO 5,499 HDD.....	2.9	123	126	496	3.95	2.8	125	128	503
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

Table 4. (Continued)  
Census Division: East North Central

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	11.4	143	146	619	4.23	11.2	145	148	627
AREA TYPE									
URBAN.....	9.3	142	145	619	4.26	9.2	145	148	628
RURAL.....	2.1	148	151	619	4.10	2.1	148	151	621
SMSA									
SMSA.....	9.3	145	148	621	4.19	9.1	147	150	630
NON-SMSA.....	2.1	135	138	609	4.41	2.1	136	139	612
NATURAL GAS PAID BY HOUSEHOLD									
YES.....	9.4	154	157	661	4.20	9.3	155	158	665
NO.....	2.0	93	94	422	4.47	1.9	97	99	439
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	8.5	158	161	672	4.18	8.5	159	162	677
2 OR MORE UNITS.....	2.9	101	103	461	4.47	2.8	104	107	474
NUMBER OF ROOMS									
1 TO 3.....	1.0	69	70	316	4.49	1.0	74	75	333
4 TO 5.....	4.9	123	125	546	4.36	4.9	124	126	549
6 OR MORE.....	5.5	176	180	744	4.13	5.4	178	181	749
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	3.5	145	148	615	4.15	3.5	148	151	624
SOME.....	3.0	149	152	642	4.22	3.0	151	154	651
NONE.....	4.9	138	141	608	4.31	4.8	140	143	614
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	3.4	97	99	436	4.39	3.2	100	102	447
1,000 TO 1,999.....	4.3	140	143	611	4.27	4.3	141	144	613
2,000 OR MORE.....	3.7	188	192	792	4.13	3.7	190	194	801
YEAR HOUSE BUILT									
1939 OR EARLIER.....	4.3	158	161	683	4.23	4.3	159	163	687
1940 TO 1959.....	3.2	143	146	615	4.21	3.2	144	147	620
1960 OR LATER.....	3.9	127	130	551	4.25	3.8	130	133	563
OWN/RENT									
OWN.....	8.0	159	163	677	4.16	7.9	160	163	680
RENT.....	3.4	106	109	485	4.47	3.3	110	112	499
1980 FAMILY INCOME									
LESS THAN \$10,000.....	3.6	132	135	585	4.34	3.5	135	138	597
\$10,000 TO \$19,999.....	3.0	135	138	587	4.26	3.0	136	139	591
\$20,000 TO \$34,999.....	3.4	141	144	611	4.24	3.3	142	145	615
\$35,000 OR MORE.....	1.5	193	197	789	4.00	1.4	196	200	800
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.6	137	140	595	4.27	1.6	140	143	609
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.4	136	139	599	4.31	2.3	140	143	612
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	3.6	125	128	549	4.30	3.5	126	129	553
35 TO 59 YEARS.....	4.3	164	167	691	4.13	4.2	166	169	699
60 YEARS AND OVER.....	3.5	137	140	603	4.32	3.5	139	142	614
HOUSEHOLD MEMBERS									
1.....	2.4	110	112	491	4.37	2.3	114	116	504
2.....	3.6	142	145	617	4.26	3.6	143	146	620
3 OR MORE.....	5.4	159	162	678	4.17	5.3	161	164	685
MAIN HEATING FUEL									
NATURAL GAS.....	11.2	145	148	627	4.23	11.2	145	148	627
ELECTRICITY.....	.1	16	17	137	8.24	-	-	-	-
FUEL OIL OR KEROSENE.....	.1	40	41	176	4.29	-	-	-	-
OTHER.....	Q	Q	Q	260	Q	-	-	-	-

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

Table 4. (Continued)  
Census Division: East North  
Central

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	10.3	146	149	627	4.22	10.2	148	151	635
ELECTRICITY.....	1.1	123	126	554	4.41	1.1	123	126	554
FUEL OIL OR KEROSENE.....	Q	Q	Q	352	Q	Q	Q	Q	352
OTHER.....	Q	Q	Q	112	Q	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING</b>									
<b>NATURAL GAS</b>									
CENTRAL WARM AIR FURNACE.....	8.5	148	151	632	4.18	8.5	148	151	632
STEAM OR HOT-WATER SYSTEM.....	1.8	152	155	677	4.35	1.8	152	155	677
FLOOR, WALL OR PIPELESS FURNACE.....	.4	103	105	475	4.52	.4	103	105	475
ROOM HEATER.....	.5	110	112	488	4.37	.5	110	112	488
NONE/OTHER.....	.2	49	50	256	5.07	Q	Q	Q	710
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	1.6	123	126	605	4.81	1.5	125	127	609
<2,000 CDD AND 5,500 TO 7,000 HDD.....	8.9	148	151	628	4.16	8.7	150	153	637
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.0	133	136	558	4.10	1.0	133	136	558
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



**Table 4. (Continued)**  
**Census Division: West North Central**

# Average Residential Natural Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	4.7	120	122	484	3.96	4.2	129	132	515
AREA TYPE									
URBAN.....	3.6	118	121	497	4.12	3.2	129	132	534
RURAL.....	1.0	125	128	439	3.43	1.0	129	132	449
SMSA									
SMSA.....	2.8	114	117	494	4.24	2.5	125	127	532
NON-SMSA.....	1.9	128	130	470	3.61	1.7	135	138	491
NATURAL GAS PAID BY HOUSEHOLD									
YES.....	3.9	129	132	516	3.92	3.8	132	135	528
NO.....	.7	70	71	313	4.40	.4	102	104	398
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	3.6	134	137	530	3.86	3.5	137	140	539
2 OR MORE UNITS.....	1.1	70	72	329	4.59	.7	92	94	398
NUMBER OF ROOMS									
1 TO 3.....	.4	80	82	331	4.05	.4	86	88	356
4 TO 5.....	2.2	100	102	419	4.10	1.9	112	114	454
6 OR MORE.....	2.1	148	151	583	3.86	1.9	154	157	604
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	2.5	120	122	472	3.87	2.4	123	126	485
SOME.....	1.1	136	139	545	3.92	1.0	142	145	569
NONE.....	1.1	104	106	451	4.25	.8	130	133	531
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	1.5	79	81	331	4.08	1.1	96	98	376
1,000 TO 1,999.....	1.6	122	125	483	3.87	1.6	123	126	486
2,000 OR MORE.....	1.6	154	158	628	3.98	1.5	161	164	653
YEAR HOUSE BUILT									
1939 OR EARLIER.....	1.7	136	139	538	3.88	1.6	145	148	569
1940 TO 1959.....	1.4	97	99	401	4.05	1.2	113	115	449
1960 OR LATER.....	1.5	123	125	501	4.01	1.4	124	127	508
OWN/RENT									
OWN.....	3.4	134	137	533	3.90	3.2	137	140	547
RENT.....	1.3	83	85	357	4.21	1.0	102	104	410
1980 FAMILY INCOME									
LESS THAN \$10,000.....	1.1	97	99	395	3.98	.9	118	120	451
\$10,000 TO \$19,999.....	1.3	106	108	427	3.96	1.1	114	117	456
\$20,000 TO \$34,999.....	1.6	127	130	507	3.91	1.5	131	133	520
\$35,000 OR MORE.....	.7	164	167	675	4.04	.7	165	168	679
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.5	93	95	383	4.03	.3	128	131	485
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.6	91	92	384	4.16	.4	125	127	489
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	1.7	106	108	440	4.08	1.4	118	120	477
35 TO 59 YEARS.....	1.9	134	137	540	3.95	1.7	143	146	571
60 YEARS AND OVER.....	1.1	118	120	458	3.82	1.1	122	124	474
HOUSEHOLD MEMBERS									
1.....	.9	94	96	377	3.94	.8	100	103	395
2.....	1.5	113	116	455	3.93	1.4	116	118	463
3 OR MORE.....	2.3	134	137	544	3.99	2.0	151	154	603
MAIN HEATING FUEL									
NATURAL GAS.....	4.2	129	132	515	3.90	4.2	129	132	515
ELECTRICITY.....	.1	18	19	164	8.79	-	-	-	-
FUEL OIL OR KEROSENE.....	.1	41	42	195	4.60	-	-	-	-
OTHER.....	.3	31	32	206	6.46	-	-	-	-

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

**Table 4. (Continued)**  
**Census Division: West North Central**

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	4.1	126	129	502	3.90	3.9	130	132	513
ELECTRICITY.....	.3	104	106	460	4.34	.3	122	125	539
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.2	24	24	189	7.89	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING NATURAL GAS</b>									
CENTRAL WARM AIR FURNACE.....	3.4	128	131	517	3.95	3.4	128	131	517
STEAM OR HOT-WATER SYSTEM.....	.5	144	147	592	4.03	.5	144	147	592
FLOOR, WALL OR PIPELESS FURNACE.....	.2	121	124	376	3.03	.2	121	124	376
ROOM HEATER.....	.1	105	107	356	3.32	.1	105	107	356
NONE/OTHER.....	.4	30	31	196	6.32	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	1.7	108	111	473	4.27	1.4	129	131	542
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.0	143	146	541	3.70	1.0	146	149	551
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.9	118	120	465	3.87	1.9	120	123	475
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

Table 4. (Continued)  
Census Region: South

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	14.2	80	82	374	4.59	13.0	84	86	394
AREA TYPE									
URBAN.....	11.1	79	81	367	4.55	10.1	84	86	389
RURAL.....	3.1	83	85	400	4.72	2.9	85	87	409
SMSA									
SMSA.....	9.3	78	79	360	4.54	8.3	83	85	383
NON-SMSA.....	4.9	84	86	402	4.68	4.6	86	88	412
NATURAL GAS PAID BY HOUSEHOLD									
YES.....	12.1	84	85	387	4.53	11.4	86	88	399
NO.....	2.1	58	59	301	5.08	1.5	69	71	355
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	11.7	86	87	395	4.52	11.0	88	90	406
2 OR MORE UNITS.....	2.5	54	55	279	5.09	1.9	62	64	321
NUMBER OF ROOMS									
1 TO 3.....	1.3	48	49	237	4.88	1.0	56	57	276
4 TO 5.....	6.5	72	73	332	4.52	6.1	75	76	343
6 OR MORE.....	6.4	95	97	446	4.61	5.9	99	101	466
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	8.5	80	82	381	4.64	7.7	85	87	401
SOME.....	2.9	83	85	396	4.65	2.6	88	90	418
NONE.....	2.8	75	76	333	4.36	2.6	79	80	345
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	4.8	64	65	299	4.59	4.2	69	70	319
1,000 TO 1,999.....	7.1	80	81	371	4.55	6.6	83	85	386
2,000 OR MORE.....	2.3	113	116	541	4.67	2.2	118	120	559
YEAR HOUSE BUILT									
1939 OR EARLIER.....	2.9	86	88	409	4.63	2.6	93	95	438
1940 TO 1959.....	4.7	79	81	364	4.49	4.3	84	86	382
1960 OR LATER.....	6.6	77	79	366	4.64	6.1	81	82	383
OWN/RENT									
OWN.....	9.8	86	88	399	4.52	9.2	89	91	411
RENT.....	4.4	65	67	320	4.80	3.8	73	74	352
1980 FAMILY INCOME									
LESS THAN \$10,000.....	4.3	68	69	321	4.63	3.9	72	73	336
\$10,000 TO \$19,999.....	3.8	79	81	361	4.46	3.4	84	86	379
\$20,000 TO \$34,999.....	4.0	84	86	397	4.63	3.6	91	92	424
\$35,000 OR MORE.....	2.2	97	99	461	4.65	2.1	99	101	475
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	2.2	73	74	352	4.74	2.0	76	78	368
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	3.1	71	73	337	4.65	2.8	75	76	352
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	4.4	75	77	353	4.61	4.0	80	81	374
35 TO 59 YEARS.....	5.7	86	88	405	4.62	5.3	89	91	421
60 YEARS AND OVER.....	4.1	77	78	354	4.53	3.7	82	84	377
HOUSEHOLD MEMBERS									
1.....	2.7	57	59	275	4.69	2.3	63	64	299
2.....	4.5	77	79	359	4.57	4.2	81	83	376
3 OR MORE.....	7.0	90	92	422	4.58	6.5	94	96	439
MAIN HEATING FUEL									
NATURAL GAS.....	13.0	84	86	394	4.57	13.0	84	86	394
ELECTRICITY.....	.7	32	33	159	4.84	-	-	-	-
FUEL OIL OR KEROSENE.....	.2	21	21	145	6.78	-	-	-	-
OTHER.....	.3	42	43	220	5.11	-	-	-	-

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

**Table 4. (Continued)**  
Census Region: South

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	11.9	84	86	389	4.54	11.0	88	90	406
ELECTRICITY.....	2.2	62	63	311	4.93	2.0	65	67	326
FUEL OIL OR KEROSENE.....	.1	14	15	111	7.50	Q	Q	Q	Q
OTHER.....	.1	27	28	146	5.21	Q	Q	Q	244
<b>MAIN HEATING EQUIPMENT USING NATURAL GAS</b>									
CENTRAL WARM AIR FURNACE.....	7.2	92	94	426	4.52	7.2	92	94	426
STEAM OR HOT-WATER SYSTEM.....	.8	98	100	535	5.33	.8	98	100	535
FLOOR, WALL OR PIPELESS FURNACE.....	1.8	75	77	322	4.20	1.8	75	77	322
ROOM HEATER.....	3.1	67	69	326	4.73	3.1	67	69	326
NONE/OTHER.....	1.3	36	36	178	4.91	.1	86	88	313
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	-	-	-	-	-	-	-	-	-
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	5.9	64	66	312	4.74	5.4	68	69	325

See footnotes at end of table.





**Table 4. (Continued)**  
**Census Division: South Atlantic**

# Average Residential Natural Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	5.4	82	84	441	5.25	4.8	90	92	478
AREA TYPE									
URBAN.....	4.2	80	81	434	5.33	3.7	89	91	479
RURAL.....	1.1	92	94	466	4.97	1.1	94	96	477
SMSA									
SMSA.....	3.5	77	78	426	5.44	3.0	86	88	473
NON-SMSA.....	1.8	93	95	469	4.93	1.7	97	99	488
NATURAL GAS PAID BY HOUSEHOLD									
YES.....	4.1	89	91	473	5.20	3.7	96	98	508
NO.....	1.3	60	61	335	5.46	1.1	68	70	377
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	3.8	95	97	501	5.17	3.4	103	105	538
2 OR MORE UNITS.....	1.6	52	53	296	5.57	1.4	58	60	328
NUMBER OF ROOMS									
1 TO 3.....	.6	45	46	251	5.51	.5	54	56	298
4 TO 5.....	2.1	68	69	368	5.33	1.9	72	73	386
6 OR MORE.....	2.7	102	104	540	5.18	2.4	112	114	587
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	2.9	86	88	464	5.27	2.6	94	96	502
SOME.....	1.1	90	92	474	5.18	1.0	98	100	515
NONE.....	1.4	68	70	366	5.26	1.2	75	76	396
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	1.8	60	61	329	5.37	1.6	66	67	358
1,000 TO 1,999.....	2.4	81	83	436	5.26	2.1	89	91	474
2,000 OR MORE.....	1.1	122	124	637	5.13	1.0	129	132	673
YEAR HOUSE BUILT									
1939 OR EARLIER.....	1.3	94	96	484	5.05	1.1	108	110	551
1940 TO 1959.....	1.5	77	79	426	5.39	1.2	90	92	487
1960 OR LATER.....	2.6	79	81	428	5.28	2.5	82	84	442
OWN/RENT									
OWN.....	3.2	97	99	511	5.19	2.9	104	106	546
RENT.....	2.2	62	63	339	5.37	1.9	69	70	374
1980 FAMILY INCOME									
LESS THAN \$10,000.....	1.4	65	66	349	5.29	1.2	70	72	376
\$10,000 TO \$19,999.....	1.3	75	76	400	5.23	1.1	84	85	442
\$20,000 TO \$34,999.....	1.6	93	95	493	5.19	1.4	105	107	550
\$35,000 OR MORE.....	1.1	98	100	528	5.30	1.1	100	102	539
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.7	75	77	404	5.28	.7	78	79	417
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.0	70	72	379	5.29	.9	75	76	400
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	1.6	77	79	417	5.28	1.5	81	83	434
35 TO 59 YEARS.....	2.3	91	93	482	5.22	2.0	98	100	519
60 YEARS AND OVER.....	1.5	75	76	402	5.27	1.2	87	89	464
HOUSEHOLD MEMBERS									
1.....	1.1	51	52	286	5.45	.9	61	62	330
2.....	1.6	78	80	424	5.31	1.5	83	85	448
3 OR MORE.....	2.6	98	100	517	5.17	2.4	105	107	553
MAIN HEATING FUEL									
NATURAL GAS.....	4.8	90	92	478	5.21	4.8	90	92	478
ELECTRICITY.....	.2	22	22	145	6.47	-	-	-	-
FUEL OIL OR KEROSENE.....	.2	21	21	145	6.78	-	-	-	-
OTHER.....	.1	25	26	156	6.00	-	-	-	-

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

Table 4. (Continued)  
Census Division: South Atlantic

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	4.1	90	92	481	5.23	3.7	97	99	516
ELECTRICITY.....	1.1	61	62	328	5.28	1.1	65	66	347
FUEL OIL OR KEROSENE.....	.1	14	15	111	7.50	Q	Q	Q	Q
OTHER.....	Q	Q	Q	90	Q	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING NATURAL GAS</b>									
CENTRAL WARM AIR FURNACE.....	2.9	97	99	508	5.13	2.9	97	99	508
STEAM OR HOT-WATER SYSTEM.....	.6	101	104	582	5.62	.6	101	104	582
FLOOR, WALL OR PIPELESS FURNACE.....	.4	74	75	396	5.27	.4	74	75	396
ROOM HEATER.....	.8	67	68	349	5.12	.8	67	68	349
NONE/OTHER.....	.6	22	22	146	6.50	Q	Q	Q	82
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	-	-	-	-	-	-	-	-	-
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	.6	40	41	237	5.85	.5	48	49	276

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

Table 4. (Continued)  
Census Division: East South  
Central

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	2.6	91	93	385	4.12	2.5	93	95	389
AREA TYPE									
URBAN.....	1.8	91	93	381	4.09	1.8	93	95	387
RURAL.....	.7	92	94	392	4.19	.7	92	94	394
SMSA									
SMSA.....	1.4	91	92	374	4.05	1.4	92	94	379
NON-SMSA.....	1.1	93	94	398	4.21	1.1	94	95	401
NATURAL GAS PAID BY HOUSEHOLD									
YES.....	2.4	92	94	387	4.13	2.3	93	95	391
NO.....	.2	84	86	343	4.00	.2	88	90	360
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	2.3	93	95	392	4.14	2.3	94	96	395
2 OR MORE UNITS.....	.2	78	79	309	3.91	.2	80	82	320
NUMBER OF ROOMS									
1 TO 3.....	.1	62	63	265	4.18	.1	66	67	281
4 TO 5.....	1.1	85	86	362	4.18	1.1	85	87	362
6 OR MORE.....	1.3	100	102	414	4.07	1.3	101	103	420
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	1.8	91	93	379	4.07	1.7	93	95	386
SOME.....	.5	92	94	394	4.19	.5	94	96	400
NONE.....	.3	91	93	401	4.31	.3	90	92	391
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	.7	72	73	301	4.11	.6	73	74	306
1,000 TO 1,999.....	1.3	87	88	372	4.21	1.3	87	89	373
2,000 OR MORE.....	.5	128	131	518	3.96	.5	131	134	530
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.4	96	98	398	4.04	0.4	99	101	406
1940 TO 1959.....	1.0	90	92	389	4.21	1.0	92	94	395
1960 OR LATER.....	1.1	90	92	375	4.07	1.1	91	93	377
OWN/RENT									
OWN.....	2.0	93	95	392	4.12	2.0	94	96	397
RENT.....	.5	84	86	354	4.11	.5	86	87	359
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.8	80	81	342	4.20	.8	81	83	347
\$10,000 TO \$19,999.....	.8	94	96	398	4.15	.8	94	96	395
\$20,000 TO \$34,999.....	.6	90	92	380	4.14	.5	92	94	390
\$35,000 OR MORE.....	.4	112	115	451	3.93	.4	115	117	461
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.4	83	84	351	4.15	.4	83	84	351
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.5	81	83	347	4.20	.5	80	81	340
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.7	92	94	382	4.05	.7	95	97	393
35 TO 59 YEARS.....	1.1	93	95	391	4.13	1.1	92	94	389
60 YEARS AND OVER.....	.8	89	91	378	4.17	.7	91	93	385
HOUSEHOLD MEMBERS									
1.....	.5	76	77	327	4.23	.5	76	78	329
2.....	.9	92	94	388	4.13	.8	95	97	401
3 OR MORE.....	1.2	97	99	403	4.08	1.2	97	99	403
MAIN HEATING FUEL									
NATURAL GAS.....	2.5	93	95	389	4.11	2.5	93	95	389
ELECTRICITY.....	Q	Q	Q	196	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	-	-	-	-
OTHER.....	Q	Q	Q	291	Q	-	-	-	-

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

**Table 4. (Continued)**  
**Census Division: East South Central**

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	1.9	98	100	408	4.09	1.9	99	101	413
ELECTRICITY.....	.7	73	75	317	4.23	.6	73	75	316
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING NATURAL GAS</b>									
CENTRAL WARM AIR FURNACE.....	1.6	102	104	418	4.00	1.6	102	104	418
STEAM OR HOT-WATER SYSTEM.....	.1	84	86	331	3.84	.1	84	86	331
FLOOR, WALL OR PIPELESS FURNACE.....	.3	73	75	353	4.74	.3	73	75	353
ROOM HEATER.....	.4	72	74	313	4.23	.4	72	74	313
NONE/OTHER.....	.1	63	64	294	4.61	Q	Q	Q	598
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	-	-	-	-	-	-	-	-	-
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	.6	80	82	350	4.26	.5	82	84	356

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

**Table 4. (Continued)**  
**Census Division: West South Central**

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	6.3	73	75	313	4.20	5.7	76	78	325
AREA TYPE									
URBAN.....	5.1	74	75	306	4.06	4.6	77	79	319
RURAL.....	1.2	69	71	342	4.82	1.1	72	73	352
SMSA									
SMSA.....	4.3	74	76	301	3.97	3.9	78	80	315
NON-SMSA.....	2.0	71	72	341	4.72	1.8	72	73	347
NATURAL GAS PAID BY HOUSEHOLD									
YES.....	5.6	76	78	323	4.17	5.4	77	79	328
NO.....	.6	47	48	221	4.60	.3	63	65	282
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	5.5	76	78	324	4.17	5.4	77	78	327
2 OR MORE UNITS.....	.7	50	51	233	4.56	.4	67	68	297
NUMBER OF ROOMS									
1 TO 3.....	.6	48	49	218	4.45	.4	54	55	251
4 TO 5.....	3.3	70	72	299	4.18	3.1	73	75	308
6 OR MORE.....	2.3	84	85	357	4.19	2.3	84	86	363
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	3.8	71	73	321	4.42	3.5	74	76	335
SOME.....	1.3	74	76	326	4.29	1.2	78	79	342
NONE.....	1.2	78	80	274	3.45	1.1	80	82	278
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	2.3	65	66	275	4.17	2.0	69	71	291
1,000 TO 1,999.....	3.3	76	78	322	4.16	3.1	78	79	331
2,000 OR MORE.....	.7	88	90	400	4.46	.7	90	91	406
YEAR HOUSE BUILT									
1939 OR EARLIER.....	1.2	75	76	333	4.37	1.1	77	79	340
1940 TO 1959.....	2.2	76	77	310	4.01	2.1	77	79	315
1960 OR LATER.....	2.9	70	72	308	4.28	2.6	75	76	328
OWN/RENT									
OWN.....	4.5	76	78	323	4.14	4.3	77	79	328
RENT.....	1.7	64	65	287	4.38	1.4	73	74	319
1980 FAMILY INCOME									
LESS THAN \$10,000.....	2.1	65	67	294	4.41	1.9	68	70	306
\$10,000 TO \$19,999.....	1.7	76	78	315	4.06	1.6	79	81	326
\$20,000 TO \$34,999.....	1.8	74	75	315	4.18	1.6	78	80	328
\$35,000 OR MORE.....	.7	87	89	362	4.07	.6	87	89	376
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.1	68	69	318	4.59	1.0	73	75	340
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.6	68	70	308	4.42	1.4	73	74	325
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	2.1	67	69	296	4.29	1.8	73	74	317
35 TO 59 YEARS.....	2.3	78	80	336	4.20	2.2	79	81	343
60 YEARS AND OVER.....	1.8	73	75	305	4.10	1.7	76	77	312
HOUSEHOLD MEMBERS									
1.....	1.1	56	57	243	4.24	1.0	60	61	258
2.....	2.0	69	71	294	4.14	1.8	73	75	306
3 OR MORE.....	3.1	81	83	350	4.22	2.9	84	85	362
MAIN HEATING FUEL									
NATURAL GAS.....	5.7	76	78	325	4.19	5.7	76	78	325
ELECTRICITY.....	.4	36	37	162	4.36	-	-	-	-
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	-	-	-	-
OTHER.....	.1	59	60	283	4.70	-	-	-	-

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

Table 4. (Continued)  
Census Division: West South Central

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	5.9	75	77	318	4.15	5.4	78	79	329
ELECTRICITY.....	.4	45	46	251	5.42	.3	51	53	275
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	244	Q	Q	Q	Q	244
<b>MAIN HEATING EQUIPMENT USING NATURAL GAS</b>									
CENTRAL WARM AIR FURNACE.....	2.7	82	83	343	4.12	2.7	82	83	343
STEAM OR HOT-WATER SYSTEM.....	.1	93	95	442	4.67	.1	93	95	442
FLOOR, WALL OR PIPELESS FURNACE.....	1.0	76	78	278	3.56	1.0	76	78	278
ROOM HEATER.....	1.9	67	68	319	4.69	1.9	67	68	319
NONE/OTHER.....	.6	45	46	194	4.17	.1	95	97	297
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	-	-	-	-	-	-	-	-	-
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

Table 4. (Continued)  
Census Region: West

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	11.8	78	79	318	4.01	10.8	80	82	329
AREA TYPE									
URBAN.....	10.5	76	78	310	3.99	9.6	79	80	320
RURAL.....	1.3	90	92	386	4.19	1.2	94	95	399
SMSA									
SMSA.....	10.5	74	76	308	4.05	9.5	77	78	318
NON-SMSA.....	1.3	104	106	402	3.80	1.2	107	110	414
NATURAL GAS PAID BY HOUSEHOLD									
YES.....	10.0	80	82	332	4.05	9.3	83	84	342
NO.....	1.7	63	65	241	3.73	1.5	65	66	247
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	8.9	86	88	356	4.05	8.3	88	90	364
2 OR MORE UNITS.....	2.9	52	53	203	3.82	2.4	53	54	208
NUMBER OF ROOMS									
1 TO 3.....	1.4	53	54	215	3.99	1.2	54	55	219
4 TO 5.....	5.0	68	70	275	3.94	4.5	71	72	284
6 OR MORE.....	5.3	93	95	387	4.07	5.1	95	97	393
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	2.5	77	79	315	3.99	2.2	80	82	328
SOME.....	1.5	70	71	277	3.91	1.4	72	73	287
NONE.....	7.8	79	81	328	4.04	7.1	82	84	337
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	4.0	60	61	241	3.96	3.4	62	64	253
1,000 TO 1,999.....	5.9	75	77	307	4.00	5.5	76	78	310
2,000 OR MORE.....	1.9	125	127	521	4.10	1.8	127	130	531
YEAR HOUSE BUILT									
1939 OR EARLIER.....	2.9	76	77	316	4.10	2.6	80	81	334
1940 TO 1959.....	3.6	80	81	321	3.94	3.4	81	83	325
1960 OR LATER.....	5.3	78	79	318	4.01	4.7	80	82	328
OWN/RENT									
OWN.....	7.3	87	89	358	4.04	6.9	89	91	366
RENT.....	4.4	63	64	252	3.95	3.9	65	66	262
1980 FAMILY INCOME									
LESS THAN \$10,000.....	3.0	68	69	276	3.99	2.5	71	73	291
\$10,000 TO \$19,999.....	2.8	72	74	299	4.05	2.6	75	76	310
\$20,000 TO \$34,999.....	3.5	77	79	314	4.00	3.3	78	80	318
\$35,000 OR MORE.....	2.5	97	99	398	4.02	2.4	98	100	403
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.5	67	69	267	3.88	1.2	73	74	286
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.2	66	68	264	3.90	1.8	70	72	279
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	4.7	69	70	281	4.00	4.1	71	72	290
35 TO 59 YEARS.....	4.8	87	89	359	4.03	4.5	90	92	370
60 YEARS AND OVER.....	2.3	76	78	311	4.00	2.2	77	79	317
HOUSEHOLD MEMBERS									
1.....	1.8	62	63	251	3.98	1.7	63	64	255
2.....	4.0	70	72	288	4.00	3.6	73	74	299
3 OR MORE.....	6.0	87	89	360	4.03	5.4	90	92	371
MAIN HEATING FUEL									
NATURAL GAS.....	10.8	80	82	329	4.01	10.8	80	82	329
ELECTRICITY.....	.6	51	52	209	3.99	-	-	-	-
FUEL OIL OR KEROSENE.....	Q	Q	Q	193	Q	-	-	-	-
OTHER.....	.4	53	54	216	4.03	-	-	-	-

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

Table 4. (Continued)  
Census Region: West

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	11.2	78	80	315	3.94	10.3	80	82	324
ELECTRICITY.....	.5	71	72	407	5.63	.5	77	78	437
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	95	Q	Q	Q	Q	110
<b>MAIN HEATING EQUIPMENT USING NATURAL GAS</b>									
CENTRAL WARM AIR FURNACE.....	6.4	90	92	379	4.12	6.4	90	92	379
STEAM OR HOT-WATER SYSTEM.....	.5	125	128	458	3.59	.5	125	128	458
FLOOR, WALL OR PIPELESS FURNACE.....	3.2	57	59	221	3.78	3.2	57	59	221
ROOM HEATER.....	.5	63	64	264	4.14	.5	63	64	264
NONE/OTHER.....	1.1	52	53	213	4.06	.1	50	51	237
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	1.1	132	134	467	3.47	1.0	135	138	478
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.9	100	102	393	3.87	.8	106	108	414
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.3	79	81	425	5.26	1.1	82	84	444
<2,000 CDD AND <4,000 HDD.....	8.0	70	71	277	3.91	7.3	71	73	285
>2,000 CDD AND <4,000 HDD.....	.5	51	52	250	4.80	.4	52	53	258

See footnotes at end of table.





# Average Residential Natural Gas Consumption and Expenditures

Table 4. (Continued)  
Census Division: Mountain

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	3.0	92	94	375	4.00	2.8	95	97	386
AREA TYPE									
URBAN.....	2.5	90	92	366	3.99	2.3	93	95	377
RURAL.....	.6	100	102	412	4.04	.5	103	106	426
SMSA									
SMSA.....	2.2	87	89	351	3.96	2.1	89	91	359
NON-SMSA.....	.8	105	108	438	4.08	.8	111	113	458
NATURAL GAS PAID BY HOUSEHOLD									
YES.....	2.6	93	95	382	4.01	2.4	96	98	394
NO.....	.5	84	86	335	3.90	.4	87	89	344
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	2.5	97	99	394	3.99	2.3	100	102	405
2 OR MORE UNITS.....	.6	71	72	290	4.02	.5	73	75	300
NUMBER OF ROOMS									
1 TO 3.....	.4	63	64	274	4.26	.4	63	65	276
4 TO 5.....	1.4	85	86	352	4.08	1.3	88	89	363
6 OR MORE.....	1.2	111	113	437	3.87	1.1	115	118	453
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.6	77	79	335	4.23	.5	79	81	342
SOME.....	.3	89	91	353	3.89	.3	94	96	373
NONE.....	2.2	96	98	388	3.96	2.0	99	101	399
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	1.2	76	77	315	4.08	1.1	78	80	323
1,000 TO 1,999.....	1.3	84	86	358	4.18	1.2	87	89	370
2,000 OR MORE.....	.6	145	148	542	3.67	.5	147	150	550
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.5	104	106	414	3.90	0.5	108	111	430
1940 TO 1959.....	.9	97	99	391	3.96	.8	100	102	400
1960 OR LATER.....	1.7	85	87	354	4.06	1.6	88	90	365
OWN/RENT									
OWN.....	2.0	97	99	396	3.99	1.9	101	103	410
RENT.....	1.0	80	82	331	4.03	.9	82	84	337
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.9	80	82	336	4.12	.9	81	82	339
\$10,000 TO \$19,999.....	1.0	85	86	355	4.10	.9	89	91	371
\$20,000 TO \$34,999.....	.8	98	100	391	3.93	.7	102	104	408
\$35,000 OR MORE.....	.3	134	137	508	3.71	.3	138	140	520
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.4	92	94	378	4.03	.4	94	96	385
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.6	87	89	363	4.08	.5	88	90	366
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	1.4	84	86	347	4.05	1.2	88	90	363
35 TO 59 YEARS.....	1.1	103	105	411	3.93	1.0	106	108	423
60 YEARS AND OVER.....	.6	90	92	372	4.04	.6	90	92	372
HOUSEHOLD MEMBERS									
1.....	.6	72	74	301	4.07	.5	75	77	311
2.....	1.1	85	87	355	4.08	1.0	87	89	361
3 OR MORE.....	1.4	105	107	420	3.93	1.3	109	112	436
MAIN HEATING FUEL									
NATURAL GAS.....	2.8	95	97	386	3.98	2.8	95	97	386
ELECTRICITY.....	.1	48	49	225	4.61	-	-	-	-
FUEL OIL OR KEROSENE.....	q	q	q	q	q	-	-	-	-
OTHER.....	.1	45	46	199	4.34	-	-	-	-

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

**Table 4. (Continued)**  
**Census Division: Mountain**

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU.FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	2.8	94	96	379	3.95	2.7	96	98	386
ELECTRICITY.....	.2	61	62	328	5.27	.1	72	73	377
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	52	Q	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING NATURAL GAS</b>									
CENTRAL WARM AIR FURNACE.....	2.0	101	104	409	3.95	2.0	101	104	409
STEAM OR HOT-WATER SYSTEM.....	.3	105	107	401	3.75	.3	105	107	401
FLOOR, WALL OR PIPELESS FURNACE.....	.3	68	69	301	4.35	.3	68	69	301
ROOM HEATER.....	.2	65	67	290	4.33	.2	65	67	290
NONE/OTHER.....	.3	48	49	225	4.57	.1	53	54	260
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	1.0	125	128	476	3.72	.9	129	132	489
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.9	99	102	390	3.84	.8	106	108	410
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.3	90	92	396	4.30	.3	90	92	396
<2,000 CDD AND <4,000 HDD.....	.4	46	47	234	5.02	.4	46	47	237
>2,000 CDD AND <4,000 HDD.....	.5	51	52	253	4.91	.4	52	53	258

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

Table 4. (Continued)  
Census Division: Pacific

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	8.8	73	74	299	4.02	7.9	75	76	308
AREA TYPE									
URBAN.....	8.1	72	74	293	3.99	7.3	74	76	302
RURAL.....	.7	82	84	364	4.34	.6	85	87	376
SMSA									
SMSA.....	8.3	71	73	297	4.08	7.5	73	75	306
NON-SMSA.....	.5	101	103	338	3.28	.5	102	104	341
NATURAL GAS PAID BY HOUSEHOLD									
YES.....	7.5	76	77	315	4.07	6.9	78	80	324
NO.....	1.3	56	57	208	3.64	1.0	55	57	206
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	6.4	82	84	342	4.08	6.0	84	85	348
2 OR MORE UNITS.....	2.3	48	49	182	3.75	1.9	48	49	183
NUMBER OF ROOMS									
1 TO 3.....	1.0	49	50	191	3.85	.8	48	50	190
4 TO 5.....	3.6	62	63	244	3.86	3.1	63	65	250
6 OR MORE.....	4.2	88	90	373	4.14	4.0	89	91	376
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	1.9	77	79	309	3.92	1.7	81	82	323
SOME.....	1.2	65	66	260	3.91	1.2	67	68	268
NONE.....	5.6	73	75	304	4.08	5.1	75	77	312
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	2.8	53	54	209	3.89	2.3	55	56	219
1,000 TO 1,999.....	4.6	73	74	293	3.94	4.3	73	75	294
2,000 OR MORE.....	1.3	116	119	513	4.32	1.3	118	121	522
YEAR HOUSE BUILT									
1939 OR EARLIER.....	2.4	70	71	296	4.17	2.1	73	75	313
1940 TO 1959.....	2.7	74	76	299	3.94	2.6	75	77	302
1960 OR LATER.....	3.6	74	75	301	3.99	3.2	76	77	309
OWN/RENT									
OWN.....	5.3	83	85	344	4.07	5.0	84	86	349
RENT.....	3.5	58	59	230	3.92	3.0	59	61	239
1980 FAMILY INCOME									
LESS THAN \$10,000.....	2.0	62	63	248	3.91	1.6	66	67	264
\$10,000 TO \$19,999.....	1.8	65	67	268	4.01	1.7	67	68	276
\$20,000 TO \$34,999.....	2.8	71	73	293	4.02	2.6	72	73	294
\$35,000 OR MORE.....	2.1	91	93	382	4.09	2.1	92	94	386
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.1	58	59	225	3.79	.8	63	64	240
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.6	59	60	228	3.81	1.2	62	63	240
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	3.3	63	64	254	3.97	2.8	64	65	258
35 TO 59 YEARS.....	3.7	83	84	343	4.06	3.4	85	87	355
60 YEARS AND OVER.....	1.8	72	73	292	3.99	1.6	73	74	297
HOUSEHOLD MEMBERS									
1.....	1.3	57	58	228	3.93	1.2	58	59	229
2.....	2.9	65	66	263	3.97	2.6	67	69	275
3 OR MORE.....	4.6	82	84	341	4.06	4.2	84	86	351
MAIN HEATING FUEL									
NATURAL GAS.....	7.9	75	76	308	4.03	7.9	75	76	308
ELECTRICITY.....	.5	52	53	205	3.88	-	-	-	-
FUEL OIL OR KEROSENE.....	q	q	q	193	q	-	-	-	-
OTHER.....	.3	55	56	222	3.95	-	-	-	-

See footnotes at end of table.



# Average Residential Natural Gas Consumption and Expenditures

**Table 4. (Continued)**  
**Census Division: Pacific**

HOUSEHOLD CHARACTERISTICS	ANY NATURAL GAS USED					NATURAL GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND CU. FT.)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	8.4	73	74	293	3.94	7.6	75	76	302
ELECTRICITY.....	.4	75	77	443	5.77	.4	79	80	460
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	110	Q	Q	Q	Q	110
<b>MAIN HEATING EQUIPMENT USING NATURAL GAS</b>									
CENTRAL WARM AIR FURNACE.....	4.4	85	87	366	4.22	4.4	85	87	366
STEAM OR HOT-WATER SYSTEM.....	.2	151	154	530	3.44	.2	151	154	530
FLOOR, WALL OR PIPELESS FURNACE.....	3.0	56	58	214	3.72	3.0	56	58	214
ROOM HEATER.....	.3	61	62	249	4.01	.3	61	62	249
NONE/OTHER.....	.8	53	54	210	3.91	Q	Q	Q	156
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	.1	198	203	368	1.82	.1	198	203	368
<2,000 CDD AND 5,500 TO 7,000 HDD.....	Q	Q	Q	546	Q	Q	Q	Q	546
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.0	76	78	432	5.56	.9	80	82	458
<2,000 CDD AND <4,000 HDD.....	7.6	71	72	280	3.87	6.9	73	74	287
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	209	Q	Q	Q	Q	245

"-" = DATA NOT APPLICABLE.

"Q" = DATA WITHHELD BECAUSE OF A LARGE VARIANCE.

NOTE: BECAUSE OF ROUNDING, DATA MAY NOT SUM TO TOTALS. PERCENTAGES ARE CALCULATED ON UNROUNDED NUMBERS. SEE GLOSSARY FOR DEFINITION OF TERMS USED IN THIS REPORT.

SOURCE: ENERGY INFORMATION ADMINISTRATION, OFFICE OF ENERGY MARKETS AND END USE, ENERGY END USE DIVISION, FORM EIA-457, THE 1981 RESIDENTIAL ENERGY CONSUMPTION SURVEY.



**Table 5. U.S. Average Residential Electricity Consumption and Expenditures—April 1981 Through March 1982, United States**

# Average Residential Electricity Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE PER MILLION BTU (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	83.1	8.7	30	552	18.51	14.2	15.6	53	848
AREA TYPE									
URBAN.....	57.3	7.8	27	517	19.38	8.8	14.2	49	804
RURAL.....	25.8	10.8	37	630	17.11	5.4	17.9	61	921
SMSA									
SMSA.....	56.6	8.3	28	551	19.55	10.1	14.6	50	849
NON-SMSA.....	26.5	9.8	33	554	16.63	4.1	18.1	62	847
ELECTRICITY PAID BY HOUSEHOLD									
YES.....	76.6	8.9	30	555	18.30	12.9	15.7	54	836
NO.....	6.5	7.1	24	521	21.64	1.3	14.8	51	966
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	61.7	9.6	33	586	17.96	8.1	18.4	63	949
2 OR MORE UNITS.....	21.4	6.4	22	455	20.90	6.1	11.9	41	714
NUMBER OF ROOMS									
1 TO 3.....	10.1	5.5	19	384	20.45	3.0	10.3	35	624
4 TO 5.....	36.7	7.8	27	490	18.47	7.0	14.2	48	769
6 OR MORE.....	36.2	10.6	36	663	18.26	4.2	21.8	74	1137
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	30.7	11.5	39	698	17.79	8.8	16.0	55	912
SOME.....	17.7	7.9	27	539	20.12	1.8	15.8	54	891
NONE.....	34.7	6.8	23	430	18.64	3.6	14.6	50	673
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	28.9	6.4	22	425	19.37	6.5	11.6	39	657
1,000 TO 1,999.....	35.8	9.2	31	575	18.30	5.8	17.1	59	923
2,000 OR MORE.....	18.4	11.5	39	709	18.07	1.9	25.0	85	1274
YEAR HOUSE BUILT									
1939 OR EARLIER.....	24.2	6.4	22	439	20.01	1.2	14.0	48	686
1940 TO 1959.....	20.4	7.9	27	504	18.68	1.6	15.4	53	792
1960 OR LATER.....	38.5	10.6	36	649	17.87	11.4	15.8	54	873
OWN/RENT									
OWN.....	55.1	9.6	33	597	18.19	7.4	18.0	61	943
RENT.....	28.0	7.0	24	464	19.36	6.8	13.1	45	745
1980 FAMILY INCOME									
LESS THAN \$10,000.....	23.3	6.5	22	422	19.12	4.2	11.9	41	676
\$10,000 TO \$19,999.....	23.2	8.5	29	527	18.13	4.3	15.7	54	836
\$20,000 TO \$34,999.....	24.0	9.7	33	603	18.30	3.7	17.3	59	925
\$35,000 OR MORE.....	12.6	11.6	40	742	18.72	2.1	20.2	69	1091
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	11.0	6.6	23	430	19.06	2.1	12.3	42	710
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	15.8	6.6	22	428	19.13	2.8	11.9	41	684
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	27.6	8.4	29	522	18.12	6.3	14.0	48	775
35 TO 59 YEARS.....	33.0	10.1	35	643	18.60	4.5	19.2	66	1007
60 YEARS AND OVER.....	22.5	7.1	24	456	18.89	3.4	14.1	48	777
HOUSEHOLD MEMBERS									
1.....	15.3	5.5	19	363	19.47	3.1	10.6	36	599
2.....	27.7	8.2	28	516	18.52	5.4	14.6	50	811
3 OR MORE.....	40.1	10.4	35	650	18.31	5.8	19.3	66	1014
MAIN HEATING FUEL									
NATURAL GAS.....	46.2	7.0	24	461	19.26	-	-	-	-
ELECTRICITY.....	14.2	15.6	53	848	15.89	14.2	15.6	53	848
FUEL OIL OR KEROSENE.....	12.2	7.2	24	560	22.86	-	-	-	-
OTHER.....	10.5	8.8	30	545	18.08	-	-	-	-

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

Table 5. (Continued)  
United States

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	45.6	6.7	23	456	19.94	1.4	9.2	31	621
ELECTRICITY.....	27.1	13.4	46	733	16.07	12.7	16.4	56	873
FUEL OIL OR KEROSENE.....	6.1	5.1	17	531	30.79	Q	Q	Q	Q
OTHER.....	4.4	6.6	22	466	20.80	.1	14.8	50	932
<b>ALL ELECTRIC HOME</b>									
YES.....	12.4	16.4	56	872	15.55	12.4	16.4	56	872
NO.....	70.7	7.4	25	496	19.66	1.8	10.2	35	687
<b>MAIN HEATING EQUIPMENT USING ELECTRICITY</b>									
CENTRAL WARM AIR.....	5.1	16.5	56	892	15.82	5.1	16.5	56	892
HEAT PUMP.....	2.7	16.1	55	929	16.94	2.7	16.1	55	929
WALL UNITS.....	5.5	15.5	53	805	15.25	5.5	15.5	53	805
PIPELESS FURNACE.....	.1	14.7	50	898	17.93	.1	14.7	50	898
PORTABLE HEATERS.....	.7	8.2	28	506	18.04	.7	8.2	28	506
OTHER.....	.1	20.5	70	1124	16.05	.1	20.5	70	1124
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	8.8	7.8	27	465	17.40	.5	19.4	66	999
<2,000 CDD AND 5,500 TO 7,000 HDD.....	20.9	7.7	26	505	19.12	2.1	18.4	63	920
<2,000 CDD AND 4,000 TO 5,499 HDD.....	21.6	8.7	30	566	19.04	3.6	17.0	58	810
<2,000 CDD AND <4,000 HDD.....	19.5	8.8	30	527	17.47	3.9	14.5	49	780
>2,000 CDD AND <4,000 HDD.....	12.2	11.0	38	713	18.93	4.1	13.7	47	893

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

Table 5. (Continued)  
Census Region: Northeast

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	17.9	6.8	23	589	25.23	1.5	18.6	64	1220
AREA TYPE									
URBAN.....	13.7	6.0	20	560	27.58	.9	17.6	60	1251
RURAL.....	4.2	9.8	33	685	20.53	.6	20.0	68	1175
SMSA									
SMSA.....	14.1	6.3	22	587	27.10	1.3	17.6	60	1208
NON-SMSA.....	3.8	8.7	30	599	20.18	.3	23.7	81	1277
ELECTRICITY PAID BY HOUSEHOLD									
YES.....	15.9	6.9	24	587	24.77	1.2	19.6	67	1232
NO.....	2.1	6.1	21	606	29.28	.4	15.2	52	1178
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	10.5	8.2	28	655	23.53	.7	22.8	78	1353
2 OR MORE UNITS.....	7.4	5.0	17	496	29.22	.9	15.2	52	1112
NUMBER OF ROOMS									
1 TO 3.....	2.8	4.3	15	458	31.09	.4	12.9	44	1082
4 TO 5.....	6.7	5.7	20	511	26.16	.6	17.3	59	1149
6 OR MORE.....	8.5	8.5	29	693	23.78	.6	23.6	81	1376
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	3.2	9.5	32	792	24.51	.6	19.0	65	1202
SOME.....	5.5	6.5	22	606	27.48	.3	19.1	65	1372
NONE.....	9.2	6.2	21	508	24.20	.6	18.0	61	1160
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	6.1	5.1	17	494	28.37	.8	14.4	49	1064
1,000 TO 1,999.....	6.8	6.8	23	571	24.64	.4	22.6	77	1309
2,000 OR MORE.....	5.0	9.0	31	731	23.67	.3	24.6	84	1502
YEAR HOUSE BUILT									
1939 OR EARLIER.....	8.1	5.1	18	466	26.55	0.2	14.7	50	988
1940 TO 1959.....	3.3	6.7	23	596	25.97	.1	20.2	69	1411
1960 OR LATER.....	6.5	9.0	31	741	24.01	1.2	19.1	65	1239
OWN/RENT									
OWN.....	11.1	7.8	27	637	24.04	.7	22.9	78	1371
RENT.....	6.8	5.3	18	511	28.04	.9	15.4	53	1109
1980 FAMILY INCOME									
LESS THAN \$10,000.....	4.2	4.9	17	448	26.83	.5	14.1	48	1018
\$10,000 TO \$19,999.....	5.3	6.9	23	566	24.11	.5	21.1	72	1353
\$20,000 TO \$34,999.....	5.5	7.1	24	592	24.60	.4	20.3	69	1283
\$35,000 OR MORE.....	2.9	9.2	32	836	26.50	.2	19.6	67	1220
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.6	5.3	10	459	25.31	.2	16.1	55	1067
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.6	5.1	17	448	25.86	.3	14.6	50	975
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	5.4	6.9	23	572	24.44	.7	15.1	52	1102
35 TO 59 YEARS.....	7.7	7.7	26	671	25.42	.4	25.3	86	1480
60 YEARS AND OVER.....	4.8	5.4	18	477	25.95	.4	17.2	59	1133
HOUSEHOLD MEMBERS									
1.....	3.4	4.3	15	404	27.66	.4	13.2	45	924
2.....	5.4	6.0	20	535	26.15	.5	17.0	58	1238
3 OR MORE.....	9.1	8.3	28	692	24.36	.7	22.5	77	1361
MAIN HEATING FUEL									
NATURAL GAS.....	7.0	5.3	18	491	27.01	-	-	-	-
ELECTRICITY.....	1.5	18.6	64	1220	19.21	1.5	18.6	64	1220
FUEL OIL OR KEROSENE.....	7.9	5.7	20	557	28.53	-	-	-	-
OTHER.....	1.5	7.8	27	573	21.49	-	-	-	-

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

Table 5. (Continued)  
Census Region: Northeast

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	8.0	5.3	18	497	27.39	0.1	16.5	56	1453
ELECTRICITY.....	3.6	13.4	46	898	19.67	1.4	18.8	64	1200
FUEL OIL OR KEROSENE.....	5.7	5.0	17	537	31.57	Q	Q	Q	Q
OTHER.....	.5	5.3	18	442	24.26	Q	Q	Q	Q
<b>ALL ELECTRIC HOME</b>									
YES.....	1.4	18.6	64	1175	18.48	1.4	18.6	64	1175
NO.....	16.6	5.9	20	541	27.00	.2	18.5	63	1580
<b>MAIN HEATING EQUIPMENT USING ELECTRICITY</b>									
CENTRAL WARM AIR.....	.2	18.8	64	1081	16.82	.2	18.8	64	1081
HEAT PUMP.....	.2	20.4	70	1127	16.15	.2	20.4	70	1127
WALL UNITS.....	1.1	18.6	63	1271	20.03	1.1	18.6	63	1271
PIPELESS FURNACE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
PORTABLE HEATERS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	1.9	8.9	30	582	19.25	.1	21.7	74	1246
<2,000 CDD AND 5,500 TO 7,000 HDD.....	7.8	7.0	24	543	22.74	.8	18.0	62	1141
<2,000 CDD AND 4,000 TO 5,499 HDD.....	8.3	6.2	21	634	29.78	.6	18.6	64	1322
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.





**Table 5. (Continued)**  
**Census Division: New**  
**England**

# Average Residential Electricity Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	4.3	6.5	22	548	24.80	0.4	15.3	52	1160
AREA TYPE									
URBAN.....	3.2	5.7	19	491	25.47	.3	13.6	47	1072
RURAL.....	1.1	8.8	30	708	23.57	.1	18.3	63	1313
SMSA									
SMSA.....	3.1	6.4	22	556	25.53	.3	16.2	55	1240
NON-SMSA.....	1.2	6.7	23	527	22.95	.1	11.3	39	794
ELECTRICITY PAID BY HOUSEHOLD									
YES.....	3.9	6.4	22	541	24.72	.3	15.5	53	1122
NO.....	.4	7.1	24	619	25.46	.1	14.9	51	1245
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	2.5	7.5	26	623	24.31	.1	20.7	71	1511
2 OR MORE UNITS.....	1.8	5.1	17	445	25.78	.3	13.1	45	1014
NUMBER OF ROOMS									
1 TO 3 .....	.5	5.7	20	490	25.11	.1	12.8	44	1042
4 TO 5.....	1.9	5.6	19	475	25.08	.2	14.0	48	1026
6 OR MORE.....	1.9	7.6	26	638	24.52	.1	24.2	82	1783
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.5	9.1	31	748	23.98	.1	14.4	49	1094
SOME.....	1.3	7.4	25	619	24.37	.2	17.5	60	1320
NONE.....	2.5	5.5	19	477	25.32	.1	13.4	46	1015
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	1.6	5.2	18	455	25.49	.3	12.5	42	960
1,000 TO 1,999.....	1.6	6.3	22	532	24.71	.1	17.2	59	1271
2,000 OR MORE.....	1.1	8.6	29	710	24.26	.1	25.6	87	1894
YEAR HOUSE BUILT									
1939 OR EARLIER.....	2.1	5.2	18	454	25.53	0.1	14.2	49	1113
1940 TO 1959.....	.8	7.1	24	603	24.81	.1	18.9	64	1524
1960 OR LATER.....	1.4	8.0	27	655	24.08	.3	14.9	51	1092
OWN/RENT									
OWN.....	2.7	7.1	24	597	24.63	.1	19.8	67	1451
RENT.....	1.6	5.4	18	463	25.18	.3	13.1	45	1012
1980 FAMILY INCOME									
LESS THAN \$10,000.....	1.0	4.4	15	398	26.32	.1	10.9	37	885
\$10,000 TO \$19,999.....	1.4	6.2	21	524	24.69	.2	13.9	47	1048
\$20,000 TO \$34,999.....	1.2	6.9	24	581	24.68	.1	17.5	60	1281
\$35,000 OR MORE.....	.6	9.5	33	780	23.95	Q	Q	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.4	4.6	16	423	27.17	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.6	4.3	15	390	26.54	Q	Q	Q	Q
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	1.3	6.7	23	561	24.64	.2	14.7	50	1110
35 TO 59 YEARS.....	1.9	7.2	25	606	24.50	.1	24.1	82	1762
60 YEARS AND OVER.....	1.1	5.0	17	438	25.74	.1	12.5	43	965
HOUSEHOLD MEMBERS									
1.....	.8	4.6	16	397	25.49	.1	9.9	34	788
2.....	1.3	5.8	20	495	25.23	.1	18.3	62	1355
3 OR MORE.....	2.1	7.6	26	636	24.44	.2	18.7	64	1391
MAIN HEATING FUEL									
NATURAL GAS.....	1.2	4.2	14	401	28.01	-	-	-	-
ELECTRICITY.....	.4	15.3	52	1160	22.16	.4	15.3	52	1160
FUEL OIL OR KEROSENE.....	2.1	5.9	20	505	25.11	-	-	-	-
OTHER.....	.6	7.2	24	583	23.87	-	-	-	-

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

**Table 5. (Continued)**  
**Census Division: New England**

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	1.6	4.5	15	424	27.84	0.1	11.1	38	890
ELECTRICITY.....	.9	11.6	40	880	22.27	.3	16.2	55	1212
FUEL OIL OR KEROSENE.....	1.5	5.7	19	492	25.32	Q	Q	Q	Q
OTHER.....	.3	5.0	17	438	25.44	Q	Q	Q	Q
<b>ALL ELECTRIC HOME</b>									
YES.....	.3	16.2	55	1212	21.96	.3	16.2	55	1212
NO.....	3.9	5.6	19	491	25.48	.1	11.1	38	890
<b>MAIN HEATING EQUIPMENT USING ELECTRICITY</b>									
CENTRAL WARM AIR.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
HEAT PUMP.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
WALL UNITS.....	.4	15.6	53	1165	21.85	.4	15.6	53	1165
PIPELESS FURNACE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
PORTABLE HEATERS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	1.1	6.5	22	513	23.13	.1	12.7	43	874
<2,000 CDD AND 5,500 TO 7,000 HDD.....	3.2	6.5	22	560	25.38	.3	16.1	55	1236
<2,000 CDD AND 4,000 TO 5,499 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



**Table 5. (Continued)**  
**Census Division: Middle Atlantic**

# Average Residential Electricity Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	13.7	7.0	24	602	25.36	1.1	19.8	67	1241
AREA TYPE									
URBAN.....	10.6	6.0	21	581	28.17	.7	19.2	65	1320
RURAL.....	3.1	10.1	35	676	19.58	.5	20.5	70	1133
SMSA									
SMSA.....	11.0	6.3	22	595	27.55	.9	18.0	61	1197
NON-SMSA.....	2.6	9.6	33	631	19.32	.2	28.3	97	1458
ELECTRICITY PAID BY HOUSEHOLD									
YES.....	12.0	7.1	24	602	24.79	.9	20.9	71	1266
NO.....	1.7	5.8	20	604	30.36	.2	15.4	53	1142
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	8.1	8.4	28	665	23.32	.6	23.2	79	1321
2 OR MORE UNITS.....	5.6	4.9	17	512	30.36	.6	16.3	56	1161
NUMBER OF ROOMS									
1 TO 3.....	2.3	4.0	14	451	32.99	.2	12.9	44	1105
4 TO 5.....	4.7	5.8	20	525	26.57	.4	18.9	65	1214
6 OR MORE.....	6.7	8.8	30	709	23.61	.5	23.6	80	1323
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	2.8	9.5	32	799	24.60	.5	20.1	69	1229
SOME.....	4.3	6.2	21	603	28.58	.2	20.8	71	1426
NONE.....	6.6	6.4	22	520	23.83	.5	19.1	65	1194
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	4.5	5.1	17	508	29.42	.6	15.3	52	1111
1,000 TO 1,999.....	5.2	6.9	24	584	24.62	.3	24.1	82	1320
2,000 OR MORE.....	3.9	9.2	31	736	23.52	.3	24.4	83	1422
YEAR HOUSE BUILT									
1939 OR EARLIER.....	6.0	5.1	17	470	26.90	0.1	15.1	52	895
1940 TO 1959.....	2.6	6.6	23	594	26.36	Q	Q	Q	Q
1960 OR LATER.....	5.1	9.3	32	765	23.99	1.0	20.2	69	1278
OWN/RENT									
OWN.....	8.4	8.0	27	650	23.88	.5	23.7	81	1350
RENT.....	5.3	5.3	18	526	28.91	.6	16.4	56	1150
1980 FAMILY INCOME									
LESS THAN \$10,000.....	3.2	5.0	17	464	26.97	.4	15.0	51	1058
\$10,000 TO \$19,999.....	4.0	7.1	24	581	23.94	.4	24.2	83	1485
\$20,000 TO \$34,999.....	4.3	7.1	24	595	24.57	.3	21.2	72	1283
\$35,000 OR MORE.....	2.2	9.2	31	852	27.27	.1	17.3	59	984
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.3	5.5	19	468	24.89	.2	16.3	56	1053
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.0	5.3	18	464	25.71	.2	14.9	51	970
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	4.2	6.9	24	575	24.38	.5	15.3	52	1098
35 TO 59 YEARS.....	5.9	7.9	27	692	25.68	.4	25.5	87	1439
60 YEARS AND OVER.....	3.6	5.5	19	489	26.01	.3	19.4	66	1210
HOUSEHOLD MEMBERS									
1.....	2.6	4.2	14	406	28.38	.2	15.4	52	1017
2.....	4.1	6.1	21	548	26.43	.4	16.7	57	1213
3 OR MORE.....	6.9	8.5	29	710	24.34	.5	23.7	81	1351
MAIN HEATING FUEL									
NATURAL GAS.....	5.9	5.6	19	510	26.86	-	-	-	-
ELECTRICITY.....	1.1	19.8	67	1241	18.41	1.1	19.8	67	1241
FUEL OIL OR KEROSENE.....	5.8	5.7	19	576	29.85	-	-	-	-
OTHER.....	.9	8.2	28	566	20.22	-	-	-	-

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

**Table 5. (Continued)**  
**Census Division: Middle Atlantic**

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	6.4	5.5	19	515	27.30	0.1	22.6	77	2089
ELECTRICITY.....	2.7	14.0	48	903	18.93	1.1	19.6	67	1196
FUEL OIL OR KEROSENE.....	4.2	4.7	16	552	34.25	Q	Q	Q	Q
OTHER.....	.3	5.6	19	446	23.33	Q	Q	Q	Q
<b>ALL ELECTRIC HOME</b>									
YES.....	1.0	19.4	66	1163	17.55	1.0	19.4	66	1163
NO.....	12.6	5.9	20	556	27.45	.1	23.0	79	2002
<b>MAIN HEATING EQUIPMENT USING ELECTRICITY</b>									
CENTRAL WARM AIR.....	.1	18.7	64	980	15.37	.1	18.7	64	980
HEAT PUMP.....	.2	20.4	70	1127	16.15	.2	20.4	70	1127
WALL UNITS.....	.8	20.0	68	1319	19.37	.8	20.0	68	1319
PIPELESS FURNACE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
PORTABLE HEATERS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	.8	12.2	42	680	16.31	.1	33.4	114	1726
<2,000 CDD AND 5,500 TO 7,000 HDD.....	4.6	7.4	25	532	21.16	.5	19.3	66	1081
<2,000 CDD AND 4,000 TO 5,499 HDD.....	8.3	6.2	21	634	29.78	.6	18.6	64	1322
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

Table 5. (Continued)  
Census Region: North Central

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	21.2	7.9	27	484	17.93	1.6	16.2	55	827
AREA TYPE									
URBAN.....	14.2	7.0	24	434	18.26	.9	13.8	47	737
RURAL.....	7.0	9.8	33	583	17.45	.7	19.6	67	958
SMSA									
SMSA.....	13.9	7.7	26	480	18.27	1.1	16.0	54	841
NON-SMSA.....	7.4	8.3	28	490	17.33	.5	16.7	57	792
ELECTRICITY PAID BY HOUSEHOLD									
YES.....	19.8	7.9	27	483	17.84	1.3	15.8	54	772
NO.....	1.4	7.5	26	493	19.16	.3	17.6	60	1066
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	16.3	8.5	29	514	17.78	.6	22.6	77	1074
2 OR MORE UNITS.....	4.9	6.0	21	383	18.63	1.0	12.1	41	672
NUMBER OF ROOMS									
1 TO 3 .....	2.4	5.6	19	352	18.31	.6	11.5	39	661
4 TO 5.....	9.2	6.5	22	408	18.47	.7	14.8	50	739
6 OR MORE.....	9.7	9.8	34	588	17.53	.3	26.6	91	1276
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	7.8	9.5	32	558	17.23	1.0	14.7	50	744
SOME.....	5.1	8.1	28	506	18.34	.3	21.5	73	1146
NONE.....	8.4	6.3	22	401	18.59	.3	16.5	56	822
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	6.8	5.7	19	356	18.29	1.0	12.0	41	640
1,000 TO 1,999.....	7.9	7.7	26	482	18.25	.3	21.5	73	1075
2,000 OR MORE.....	6.6	10.3	35	616	17.44	.2	28.7	98	1373
YEAR HOUSE BUILT									
1939 OR EARLIER.....	7.7	7.1	24	445	18.37	0.2	15.8	54	749
1940 TO 1959.....	5.5	7.0	24	450	18.73	.1	15.1	52	796
1960 OR LATER.....	8.0	9.3	32	544	17.19	1.3	16.3	56	841
OWN/RENT									
OWN.....	15.0	8.5	29	515	17.82	.5	22.7	77	1063
RENT.....	6.2	6.5	22	408	18.26	1.1	13.5	46	729
1980 FAMILY INCOME									
LESS THAN \$10,000.....	6.3	5.7	19	368	19.09	.6	11.9	41	684
\$10,000 TO \$19,999.....	6.1	7.9	27	474	17.48	.7	17.8	61	872
\$20,000 TO \$34,999.....	6.2	8.8	30	540	17.88	.3	16.8	57	848
\$35,000 OR MORE.....	2.7	10.9	37	645	17.34	.1	34.6	118	1559
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	2.7	5.8	20	380	19.32	.2	12.9	44	772
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	4.0	5.8	20	382	19.29	.3	12.7	43	747
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	6.9	7.4	25	452	17.86	.8	14.6	50	728
35 TO 59 YEARS.....	8.1	9.5	32	577	17.76	.3	20.3	69	1025
60 YEARS AND OVER.....	6.2	6.3	22	398	18.36	.5	16.0	55	861
HOUSEHOLD MEMBERS									
1.....	4.3	5.0	17	321	18.90	.6	11.2	38	618
2.....	7.0	7.4	25	456	18.10	.5	16.5	56	861
3 OR MORE.....	10.0	9.5	33	573	17.62	.4	22.7	78	1075
MAIN HEATING FUEL									
NATURAL GAS.....	15.4	6.7	23	431	18.88	-	-	-	-
ELECTRICITY.....	1.6	16.2	55	827	15.00	1.6	16.2	55	827
FUEL OIL OR KEROSENE.....	1.7	10.9	37	618	16.59	-	-	-	-
OTHER.....	2.5	8.2	28	502	18.03	-	-	-	-

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

Table 5. (Continued)  
Census Region: North Central

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	14.5	6.5	22	424	19.02	0.1	10.5	36	602
ELECTRICITY.....	5.2	12.3	42	679	16.19	1.5	16.7	57	850
FUEL OIL OR KEROSENE.....	.1	4.3	15	269	18.27	q	q	q	q
OTHER.....	1.5	6.0	20	386	18.89	q	q	q	q
<b>ALL ELECTRIC HOME</b>									
YES.....	1.4	16.8	57	852	14.85	1.4	16.8	57	852
NO.....	19.8	7.3	25	457	18.44	.2	11.2	38	637
<b>MAIN HEATING EQUIPMENT USING ELECTRICITY</b>									
CENTRAL WARM AIR.....	.5	15.2	52	746	14.35	.5	15.2	52	746
HEAT PUMP.....	q	q	q	q	q	q	q	q	q
WALL UNITS.....	1.0	16.5	56	845	15.05	1.0	16.5	56	845
PIPELESS FURNACE.....	q	q	q	q	q	q	q	q	q
PORTABLE HEATERS.....	q	q	q	q	q	q	q	q	q
OTHER.....	.1	20.2	69	1227	17.76	.1	20.2	69	1227
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	5.6	7.6	26	444	17.07	.2	16.9	58	818
<2,000 CDD AND 5,500 TO 7,000 HDD.....	11.5	7.6	26	483	18.66	.8	16.4	56	857
<2,000 CDD AND 4,000 TO 5,499 HDD.....	4.2	9.2	31	540	17.24	.6	15.7	53	790
<2,000 CDD AND <4,000 HDD.....	q	q	q	q	q	q	q	q	q
>2,000 CDD AND <4,000 HDD.....	q	q	q	q	q	q	q	q	q

See footnotes at end of table.



Table 5. (Continued)  
Census Division: East North  
Central

# Average Residential Electricity Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS) PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	14.6	7.4	25	471	18.59	0.8	17.3	59	902
AREA TYPE									
URBAN.....	10.2	6.5	22	420	19.03	.6	14.2	49	773
RURAL.....	4.4	9.6	33	588	17.91	.3	23.2	79	1155
SMSA									
SMSA.....	10.6	7.2	25	471	19.05	.8	16.9	58	891
NON-SMSA.....	4.1	7.9	27	472	17.50	.1	21.2	72	1008
ELECTRICITY PAID BY HOUSEHOLD									
YES.....	13.8	7.5	25	470	18.48	.7	16.5	56	812
NO.....	.9	6.9	24	482	20.46	.1	20.6	70	1316
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	11.2	8.0	27	502	18.43	.3	24.6	84	1199
2 OR MORE UNITS.....	3.4	5.6	19	367	19.35	.5	13.1	45	735
NUMBER OF ROOMS									
1 TO 3 .....	1.5	5.0	17	327	19.03	.3	12.5	43	726
4 TO 5.....	6.3	6.2	21	405	19.17	.4	15.3	52	767
6 OR MORE.....	6.8	9.1	31	564	18.17	.2	27.8	95	1375
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	4.4	8.9	30	549	18.03	.5	14.8	50	753
SOME.....	3.6	7.9	27	511	18.85	.2	22.2	76	1206
NONE.....	6.6	6.2	21	398	18.94	.1	19.0	65	987
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	4.5	5.5	19	353	18.66	.6	13.4	46	707
1,000 TO 1,999.....	5.6	7.3	25	469	18.85	.2	23.8	81	1241
2,000 OR MORE.....	4.5	9.5	32	592	18.30	.1	26.8	91	1360
YEAR HOUSE BUILT									
1939 OR EARLIER.....	5.4	7.0	24	447	18.77	Q	Q	Q	Q
1940 TO 1959.....	3.8	6.6	23	438	19.32	0.1	19.1	65	940
1960 OR LATER.....	5.4	8.4	29	518	18.03	.7	16.9	58	901
OWN/RENT									
OWN.....	10.3	7.9	27	500	18.63	.2	25.3	86	1205
RENT.....	4.3	6.4	22	403	18.48	.7	15.2	52	826
1980 FAMILY INCOME									
LESS THAN \$10,000.....	4.6	5.4	19	367	19.72	.3	13.6	46	830
\$10,000 TO \$19,999.....	4.1	7.7	26	471	17.86	.4	20.0	68	975
\$20,000 TO \$34,999.....	4.2	8.5	29	537	18.44	.2	17.2	59	874
\$35,000 OR MORE.....	1.7	9.2	32	587	18.62	Q	Q	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	2.0	5.7	19	390	20.04	.1	15.8	54	992
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	3.0	5.7	19	387	19.98	.2	15.4	52	962
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	4.6	7.1	24	447	18.36	.4	15.6	53	775
35 TO 59 YEARS.....	5.4	9.0	31	568	18.56	.2	21.5	73	1195
60 YEARS AND OVER.....	4.6	5.9	20	380	18.92	.2	17.6	60	952
HOUSEHOLD MEMBERS									
1.....	2.9	4.4	15	292	19.57	.3	10.9	37	624
2.....	4.7	7.1	24	452	18.57	.3	18.6	63	998
3 OR MORE.....	6.9	8.9	30	561	18.40	.3	22.4	76	1085
MAIN HEATING FUEL									
NATURAL GAS.....	11.2	6.2	21	417	19.62	-	-	-	-
ELECTRICITY.....	.8	17.3	59	902	15.32	.8	17.3	59	902
FUEL OIL OR KEROSENE.....	1.2	10.5	36	591	16.50	-	-	-	-
OTHER.....	1.3	8.5	29	545	18.72	-	-	-	-

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

**Table 5. (Continued)**  
**Census Division: East North Central**

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	10.3	6.1	21	415	19.83	0.1	14.4	49	813
ELECTRICITY.....	3.5	11.5	39	649	16.50	.7	17.6	60	912
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.7	5.9	20	404	20.19	Q	Q	Q	Q
<b>ALL ELECTRIC HOME</b>									
YES.....	.7	17.5	60	911	15.25	.7	17.5	60	911
NO.....	13.9	6.9	24	448	19.03	.1	15.5	53	835
<b>MAIN HEATING EQUIPMENT USING ELECTRICITY</b>									
CENTRAL WARM AIR.....	.3	16.0	55	775	14.19	.3	16.0	55	775
HEAT PUMP.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
WALL UNITS.....	.5	17.3	59	916	15.48	.5	17.3	59	916
PIPELESS FURNACE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
PORTABLE HEATERS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	3.2	7.3	25	419	16.83	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	10.2	7.3	25	476	19.05	.8	16.1	55	848
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.2	8.7	30	574	19.23	.1	30.0	102	1504
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.





# Average Residential Electricity Consumption and Expenditures

Table 5. (Continued)  
Census Division: West North Central

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE PER MILLION BTU (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	6.6	9.0	31	511	16.72	0.8	15.0	51	745
AREA TYPE									
URBAN.....	4.0	8.2	28	470	16.76	.4	13.2	45	687
RURAL.....	2.6	10.1	34	575	16.68	.4	16.9	58	807
SMSA									
SMSA.....	3.3	9.2	31	511	16.32	.4	14.2	48	742
NON-SMSA.....	3.3	8.7	30	511	17.14	.4	15.8	54	748
ELECTRICITY PAID BY HOUSEHOLD									
YES.....	6.0	9.0	31	511	16.64	.6	15.1	51	727
NO.....	.6	8.4	29	508	17.64	.1	14.6	50	817
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	5.1	9.5	32	538	16.58	.3	20.6	70	956
2 OR MORE UNITS.....	1.5	7.1	24	419	17.38	.4	11.0	37	596
NUMBER OF ROOMS									
1 TO 3.....	.8	6.7	23	398	17.34	.3	10.8	37	608
4 TO 5.....	2.9	7.1	24	413	17.16	.3	14.1	48	674
6 OR MORE.....	2.8	11.6	40	646	16.34	.2	25.1	86	1155
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	3.4	10.2	35	569	16.33	.5	14.6	50	735
SOME.....	1.5	8.5	29	494	17.14	.1	19.3	66	946
NONE.....	1.8	6.9	24	412	17.44	.2	14.6	50	697
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	2.2	6.0	21	361	17.57	.5	10.4	36	564
1,000 TO 1,999.....	2.3	8.8	30	512	17.05	.2	19.0	65	899
2,000 OR MORE.....	2.1	12.2	42	665	16.03	.1	30.7	105	1386
YEAR HOUSE BUILT									
1939 OR EARLIER.....	2.3	7.4	25	440	17.49	0.1	14.5	50	706
1940 TO 1959.....	1.7	7.9	27	476	17.62	.1	11.4	39	661
1960 OR LATER.....	2.6	11.1	38	598	15.84	.6	15.5	53	764
OWN/RENT									
OWN.....	4.7	9.8	33	549	16.41	.3	21.2	72	985
RENT.....	1.9	6.9	23	418	17.81	.5	10.9	37	590
1980 FAMILY INCOME									
LESS THAN \$10,000.....	1.7	6.2	21	373	17.66	.3	10.5	36	559
\$10,000 TO \$19,999.....	1.9	8.4	29	480	16.73	.3	15.2	52	746
\$20,000 TO \$34,999.....	2.0	9.5	32	545	16.82	.1	16.1	55	799
\$35,000 OR MORE.....	1.0	13.9	47	750	15.82	.1	36.9	126	1690
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.7	5.9	20	351	17.29	.1	9.9	34	540
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.0	6.2	21	364	17.30	.2	10.2	35	554
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	2.3	8.0	27	461	16.96	.4	13.2	45	668
35 TO 59 YEARS.....	2.6	10.7	36	595	16.36	.2	19.2	66	874
60 YEARS AND OVER.....	1.7	7.6	26	447	17.18	.2	14.5	49	768
HOUSEHOLD MEMBERS									
1.....	1.3	6.3	22	386	17.87	.3	11.4	39	613
2.....	2.3	7.9	27	464	17.22	.3	14.2	48	710
3 OR MORE.....	3.0	10.9	37	600	16.16	.2	23.2	79	1059
MAIN HEATING FUEL									
NATURAL GAS.....	4.2	7.9	27	466	17.30	-	-	-	-
ELECTRICITY.....	.8	15.0	51	745	14.59	.8	15.0	51	745
FUEL OIL OR KEROSENE.....	.4	12.1	41	694	16.81	-	-	-	-
OTHER.....	1.2	7.7	26	454	17.22	-	-	-	-

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

**Table 5. (Continued)**  
**Census Division: West North Central**

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	4.1	7.5	26	447	17.36	0.1	4.0	14	247
ELECTRICITY.....	1.7	13.9	47	743	15.64	.7	15.8	54	785
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.8	6.1	21	370	17.78	Q	Q	Q	Q
<b>ALL ELECTRIC HOME</b>									
YES.....	.7	16.1	55	789	14.38	.7	16.1	55	789
NO.....	5.9	8.1	28	479	17.25	.1	6.0	21	393
<b>MAIN HEATING EQUIPMENT USING ELECTRICITY</b>									
CENTRAL WARM AIR.....	.2	14.1	48	701	14.62	.2	14.1	48	701
HEAT PUMP.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
WALL UNITS.....	.5	15.5	53	765	14.51	.5	15.5	53	765
PIPELESS FURNACE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
PORTABLE HEATERS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.1	15.7	53	820	15.36	.1	15.7	53	820
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	2.4	8.1	27	477	17.35	.2	16.9	58	820
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.3	9.7	33	538	16.24	.1	20.5	70	986
<2,000 CDD AND 4,000 TO 5,499 HDD.....	3.0	9.4	32	527	16.50	.5	13.8	47	698
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

Table 5. (Continued)  
Census Region: South

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	27.7	10.9	37	640	17.23	7.7	15.3	52	889
AREA TYPE									
URBAN.....	16.3	10.4	36	626	17.57	4.4	14.3	49	857
RURAL.....	11.4	11.5	39	659	16.78	3.3	16.7	57	934
SMSA									
SMSA.....	15.8	11.2	38	676	17.69	5.3	14.6	50	889
NON-SMSA.....	11.9	10.4	36	591	16.57	2.4	16.8	57	891
ELECTRICITY PAID BY HOUSEHOLD									
YES.....	26.0	11.1	38	648	17.18	7.3	15.3	52	889
NO.....	1.7	8.1	28	505	18.17	.4	14.7	50	889
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	22.6	11.2	38	653	17.07	4.8	17.2	59	983
2 OR MORE UNITS.....	5.1	9.4	32	580	18.06	2.9	12.0	41	733
NUMBER OF ROOMS									
1 TO 3.....	2.9	6.5	22	416	18.78	1.3	9.0	31	566
4 TO 5.....	13.6	9.8	33	583	17.48	4.0	14.0	48	816
6 OR MORE.....	11.2	13.3	46	765	16.82	2.5	20.7	71	1176
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	16.1	13.0	44	757	17.07	6.0	15.9	54	934
SOME.....	5.1	9.4	32	556	17.25	.9	13.8	47	768
NONE.....	6.5	6.8	23	415	17.97	.8	12.2	42	685
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	10.1	7.9	27	480	17.88	2.9	11.0	38	663
1,000 TO 1,999.....	13.4	11.5	39	683	17.34	3.8	16.1	55	946
2,000 OR MORE.....	4.2	15.9	54	882	16.21	1.0	24.9	85	1346
YEAR HOUSE BUILT									
1939 OR EARLIER.....	4.8	7.5	26	446	17.37	0.4	12.9	44	710
1940 TO 1959.....	7.0	9.3	32	551	17.31	1.0	13.7	47	796
1960 OR LATER.....	15.8	12.6	43	738	17.18	6.3	15.7	54	916
OWN/RENT									
OWN.....	19.0	11.8	40	684	17.05	4.7	16.8	57	971
RENT.....	8.7	9.0	31	543	17.73	3.1	13.0	44	765
1980 FAMILY INCOME									
LESS THAN \$10,000.....	8.8	7.7	26	468	17.76	2.2	11.8	40	685
\$10,000 TO \$19,999.....	7.7	10.5	36	609	17.06	2.2	14.3	49	817
\$20,000 TO \$34,999.....	7.3	12.6	43	743	17.26	2.0	16.8	57	994
\$35,000 OR MORE.....	3.9	15.7	53	897	16.80	1.3	20.8	71	1210
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	4.7	7.6	26	465	17.90	1.1	12.1	41	710
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	6.3	7.6	26	466	18.00	1.4	11.8	40	702
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	8.8	10.7	37	641	17.50	3.2	13.8	47	829
35 TO 59 YEARS.....	10.8	12.7	43	724	16.70	2.5	19.2	65	1063
60 YEARS AND OVER.....	8.1	8.6	29	526	17.91	2.0	12.8	44	767
HOUSEHOLD MEMBERS									
1.....	5.0	6.7	23	410	17.97	1.4	9.9	34	581
2.....	9.6	10.2	35	609	17.56	3.0	14.2	49	851
3 OR MORE.....	13.1	13.0	44	751	16.89	3.3	18.6	63	1057
MAIN HEATING FUEL									
NATURAL GAS.....	13.0	9.2	31	535	17.14	-	-	-	-
ELECTRICITY.....	7.7	15.3	52	889	17.05	7.7	15.3	52	889
FUEL OIL OR KEROSENE.....	2.2	8.9	30	574	18.98	-	-	-	-
OTHER.....	4.8	9.4	32	550	17.18	-	-	-	-

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

Table 5. (Continued)  
Census Region: South

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	11.9	8.6	30	522	17.69	0.6	10.0	34	616
ELECTRICITY.....	13.9	13.3	45	763	16.78	7.0	15.7	54	910
FUEL OIL OR KEROSENE.....	.3	6.7	23	518	22.73	Q	Q	Q	Q
OTHER.....	1.6	7.0	24	466	19.50	.1	16.5	56	1024
<b>ALL ELECTRIC HOME</b>									
YES.....	6.9	15.8	54	915	16.93	6.9	15.8	54	915
NO.....	20.8	9.2	32	549	17.40	.9	10.8	37	681
<b>MAIN HEATING EQUIPMENT USING ELECTRICITY</b>									
CENTRAL WARM AIR.....	3.5	16.4	56	952	17.06	3.5	16.4	56	952
HEAT PUMP.....	2.0	15.2	52	930	17.93	2.0	15.2	52	930
WALL UNITS.....	1.7	15.1	51	809	15.71	1.7	15.1	51	809
PIPELESS FURNACE.....	.1	15.1	52	930	18.05	.1	15.1	52	930
PORTABLE HEATERS.....	.5	8.5	29	530	18.31	.5	8.5	29	530
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	5.9	9.6	33	565	17.27	1.0	16.9	58	934
<2,000 CDD AND <4,000 HDD.....	10.5	11.2	38	603	15.78	2.8	17.0	58	873
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



Table 5. (Continued)  
Census Division: South  
Atlantic

# Average Residential Electricity Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	14.1	10.2	35	633	18.14	4.4	14.0	48	881
AREA TYPE									
URBAN.....	7.8	9.7	33	623	18.73	2.6	13.4	46	880
RURAL.....	6.3	10.8	37	646	17.48	1.9	14.8	51	882
SMSA									
SMSA.....	8.2	10.8	37	692	18.76	3.4	13.6	46	884
NON-SMSA.....	5.9	9.4	32	553	17.17	1.1	15.3	52	869
ELECTRICITY PAID BY HOUSEHOLD									
YES.....	13.0	10.5	36	649	18.09	4.3	14.1	48	884
NO.....	1.1	7.0	24	453	19.03	.1	11.6	40	780
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	10.8	10.7	37	655	17.91	2.7	15.7	54	976
2 OR MORE UNITS.....	3.4	8.7	30	565	19.02	1.7	11.3	38	734
NUMBER OF ROOMS									
1 TO 3.....	1.6	6.1	21	423	20.21	.7	8.6	29	598
4 TO 5.....	6.8	9.6	33	598	18.29	2.4	12.8	44	798
6 OR MORE.....	5.8	12.1	41	732	17.72	1.3	18.9	65	1174
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	7.3	12.1	41	758	18.33	3.4	14.2	49	914
SOME.....	2.6	9.5	33	578	17.76	.5	13.8	47	839
NONE.....	4.2	7.4	25	452	17.89	.6	12.6	43	721
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	5.3	7.7	26	490	18.72	1.7	10.3	35	671
1,000 TO 1,999.....	6.6	11.1	38	690	18.23	2.4	14.7	50	928
2,000 OR MORE.....	2.2	13.9	47	813	17.15	.4	24.2	83	1421
YEAR HOUSE BUILT									
1939 OR EARLIER.....	2.6	7.9	27	472	17.56	0.3	12.7	43	730
1940 TO 1959.....	3.1	8.5	29	532	18.27	.6	11.5	39	760
1960 OR LATER.....	8.5	11.6	39	718	18.22	3.6	14.5	49	910
OWN/RENT									
OWN.....	9.0	11.0	38	678	18.04	2.7	15.0	51	949
RENT.....	5.1	8.8	30	554	18.35	1.7	12.4	42	774
1980 FAMILY INCOME									
LESS THAN \$10,000.....	4.4	7.5	25	482	18.89	1.3	10.8	37	680
\$10,000 TO \$19,999.....	4.0	10.5	36	625	17.49	1.4	14.2	48	851
\$20,000 TO \$34,999.....	3.8	11.8	40	729	18.08	1.2	15.0	51	966
\$35,000 OR MORE.....	1.9	12.8	44	804	18.36	.5	19.1	65	1268
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	2.4	7.5	26	478	18.72	.6	11.8	40	737
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	3.1	7.6	26	491	18.91	.8	11.7	40	745
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	4.4	10.5	36	654	18.22	1.8	13.9	48	889
35 TO 59 YEARS.....	5.5	11.6	40	697	17.56	1.2	17.1	58	1027
60 YEARS AND OVER.....	4.3	8.2	28	531	19.07	1.4	11.3	39	741
HOUSEHOLD MEMBERS									
1.....	2.6	6.0	21	392	19.12	.8	8.5	29	547
2.....	5.0	9.5	32	606	18.66	1.8	13.0	44	848
3 OR MORE.....	6.5	12.5	43	750	17.64	1.9	17.2	59	1049
MAIN HEATING FUEL									
NATURAL GAS.....	4.8	8.2	28	477	17.06	-	-	-	-
ELECTRICITY.....	4.4	14.0	48	881	18.46	4.4	14.0	48	881
FUEL OIL OR KEROSENE.....	2.0	8.6	29	575	19.54	-	-	-	-
OTHER.....	2.9	8.9	30	550	18.06	-	-	-	-

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

Table 5. (Continued)  
Census Division: South Atlantic

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	4.1	7.2	25	441	17.91	0.2	7.7	26	478
ELECTRICITY.....	8.8	12.1	41	745	17.98	4.2	14.2	48	894
FUEL OIL OR KEROSENE.....	.3	6.7	23	518	22.73	Q	Q	Q	Q
OTHER.....	.9	6.6	22	463	20.60	Q	Q	Q	Q
<b>ALL ELECTRIC HOME</b>									
YES.....	4.1	14.3	49	897	18.42	4.1	14.3	49	897
NO.....	10.0	8.6	29	526	17.95	.4	10.8	37	704
<b>MAIN HEATING EQUIPMENT USING ELECTRICITY</b>									
CENTRAL WARM AIR.....	1.8	14.6	50	909	18.27	1.8	14.6	50	909
HEAT PUMP.....	1.3	14.2	49	948	19.54	1.3	14.2	49	948
WALL UNITS.....	1.0	14.0	48	809	16.97	1.0	14.0	48	809
PIPELESS FURNACE.....	.1	15.1	52	930	18.05	.1	15.1	52	930
PORTABLE HEATERS.....	.2	7.4	25	545	21.55	.2	7.4	25	545
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	4.5	9.0	31	554	18.10	.6	16.8	57	968
<2,000 CDD AND <4,000 HDD.....	5.6	10.4	35	589	16.68	1.4	16.3	56	890
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



Table 5. (Continued)  
Census Division: East South  
Central

# Average Residential Electricity Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	5.6	13.1	45	654	14.60	1.8	17.8	61	870
AREA TYPE									
URBAN.....	2.7	12.4	42	600	14.23	.8	16.3	56	767
RURAL.....	2.9	13.8	47	704	14.91	1.0	19.0	65	947
SMSA									
SMSA.....	2.3	13.3	45	652	14.37	.7	17.1	58	817
NON-SMSA.....	3.3	13.0	44	655	14.77	1.1	18.3	62	901
ELECTRICITY PAID BY HOUSEHOLD									
YES.....	5.4	13.3	45	663	14.61	1.8	17.9	61	873
NO.....	.2	7.8	27	386	14.43	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	5.0	13.5	46	671	14.58	1.4	19.5	66	944
2 OR MORE UNITS.....	.6	10.3	35	521	14.78	.4	12.7	43	639
NUMBER OF ROOMS									
1 TO 3.....	.5	8.3	28	435	15.41	.3	10.5	36	538
4 TO 5.....	2.6	11.2	38	561	14.72	.8	15.8	54	763
6 OR MORE.....	2.5	16.1	55	791	14.44	.7	22.9	78	1118
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	3.7	15.0	51	736	14.40	1.4	18.6	63	909
SOME.....	1.0	11.4	39	577	14.77	.3	16.5	56	791
NONE.....	.9	7.3	25	399	15.98	.1	13.3	46	647
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	1.8	9.2	31	469	14.92	.6	12.5	43	626
1,000 TO 1,999.....	2.7	13.5	46	671	14.58	.8	18.9	64	903
2,000 OR MORE.....	1.1	18.4	63	902	14.39	.3	25.0	85	1231
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.8	8.5	29	426	14.60	0.1	17.7	60	831
1940 TO 1959.....	1.6	11.5	39	580	14.73	.3	16.6	57	791
1960 OR LATER.....	3.2	15.0	51	745	14.55	1.4	18.1	62	888
OWN/RENT									
OWN.....	4.4	14.1	48	699	14.53	1.3	19.8	67	956
RENT.....	1.2	9.6	33	490	15.00	.5	13.2	45	664
1980 FAMILY INCOME									
LESS THAN \$10,000.....	1.9	9.9	34	506	14.90	.6	14.2	49	697
\$10,000 TO \$19,999.....	1.6	12.1	41	613	14.86	.5	16.6	57	816
\$20,000 TO \$34,999.....	1.3	14.9	51	739	14.51	.4	19.0	65	922
\$35,000 OR MORE.....	.9	19.5	67	937	14.06	.3	24.7	84	1196
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.0	9.1	31	472	15.13	.3	13.1	45	654
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.3	9.0	31	466	15.20	.4	12.6	43	625
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	1.6	11.8	40	603	15.02	.6	14.7	50	747
35 TO 59 YEARS.....	2.5	15.4	53	753	14.32	.7	20.9	71	1007
60 YEARS AND OVER.....	1.6	10.9	37	550	14.77	.4	16.8	57	806
HOUSEHOLD MEMBERS									
1.....	1.0	8.5	29	425	14.66	.3	12.5	43	592
2.....	1.9	12.2	42	617	14.79	.6	16.4	56	820
3 OR MORE.....	2.8	15.3	52	758	14.49	.8	21.1	72	1025
MAIN HEATING FUEL									
NATURAL GAS.....	2.5	10.6	36	535	14.85	-	-	-	-
ELECTRICITY.....	1.8	17.8	61	870	14.30	1.8	17.8	61	870
FUEL OIL OR KEROSENE.....	.2	11.4	39	578	14.90	-	-	-	-
OTHER.....	1.1	11.6	40	585	14.78	-	-	-	-

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

Table 5. (Continued)  
Census Division: East South  
Central

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
HOT WATER FUEL									
NATURAL GAS.....	1.9	9.8	33	516	15.51	Q	Q	Q	Q
ELECTRICITY.....	3.5	15.3	52	741	14.21	1.7	17.9	61	870
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.2	7.8	27	455	17.14	Q	Q	Q	Q
ALL ELECTRIC HOME									
YES.....	1.7	17.9	61	872	14.26	1.7	17.9	61	872
NO.....	3.9	11.0	37	556	14.85	.1	15.4	53	815
MAIN HEATING EQUIPMENT USING ELECTRICITY									
CENTRAL WARM AIR.....	.6	19.2	66	966	14.70	.6	19.2	66	966
HEAT PUMP.....	.4	18.9	64	931	14.44	.4	18.9	64	931
WALL UNITS.....	.6	16.8	57	793	13.81	.6	16.8	57	793
PIPELESS FURNACE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
PORTABLE HEATERS.....	.1	12.1	41	573	13.87	.1	12.1	41	573
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.5	11.5	39	599	15.28	.4	17.2	59	876
<2,000 CDD AND <4,000 HDD.....	3.2	14.5	49	692	14.03	1.2	18.4	63	878
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-

See footnotes at end of table.





**Table 5. (Continued)**  
**Census Division: West South**  
**Central**

# Average Residential Electricity Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	8.0	10.4	36	641	17.98	1.5	16.2	55	941
AREA TYPE									
URBAN.....	5.8	10.5	36	643	17.95	1.1	15.0	51	866
RURAL.....	2.1	10.3	35	635	18.04	.4	19.9	68	1173
SMSA									
SMSA.....	5.3	10.9	37	663	17.82	1.3	16.1	55	938
NON-SMSA.....	2.6	9.5	32	596	18.34	.2	16.8	57	958
ELECTRICITY PAID BY HOUSEHOLD									
YES.....	7.5	10.4	35	638	17.98	1.3	16.0	55	931
NO.....	.4	11.4	39	695	17.85	.2	17.3	59	998
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	6.9	10.4	35	638	18.05	.8	18.5	63	1075
2 OR MORE UNITS.....	1.1	11.0	38	659	17.56	.7	13.6	46	792
NUMBER OF ROOMS									
1 TO 3.....	.8	6.1	21	389	18.85	.3	8.6	29	519
4 TO 5.....	4.3	9.3	32	574	18.14	.8	15.9	54	926
6 OR MORE.....	2.9	13.4	46	810	17.70	.4	22.5	77	1294
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	5.1	12.8	44	770	17.62	1.3	17.5	60	1012
SOME.....	1.5	8.0	27	505	18.58	.1	6.8	23	435
NONE.....	1.4	4.4	15	311	20.54	.1	5.2	18	375
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	3.0	7.4	25	467	18.50	.7	11.5	39	679
1,000 TO 1,999.....	4.1	11.0	38	681	18.17	.6	17.9	61	1082
2,000 OR MORE.....	.9	17.9	61	1025	16.75	.2	26.1	89	1379
YEAR HOUSE BUILT									
1939 OR EARLIER.....	1.5	6.4	22	412	18.93	0.1	7.6	26	506
1940 TO 1959.....	2.4	8.9	30	557	18.38	.1	17.2	59	982
1960 OR LATER.....	4.1	12.8	44	771	17.65	1.3	16.7	57	966
OWN/RENT									
OWN.....	5.6	11.1	38	681	17.99	.7	18.5	63	1088
RENT.....	2.4	9.0	31	548	17.93	.8	14.2	48	814
1980 FAMILY INCOME									
LESS THAN \$10,000.....	2.5	6.5	22	417	18.82	.3	11.3	39	679
\$10,000 TO \$19,999.....	2.1	9.2	32	577	18.30	.3	11.2	38	665
\$20,000 TO \$34,999.....	2.2	12.6	43	768	17.79	.4	19.8	68	1134
\$35,000 OR MORE.....	1.1	17.6	60	1030	17.19	.4	19.8	68	1145
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.4	6.7	23	436	19.05	.2	11.4	39	706
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.9	6.5	22	423	18.98	.2	11.0	38	678
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	2.8	10.5	36	641	17.97	.7	12.6	43	747
35 TO 59 YEARS.....	2.9	12.5	43	751	17.65	.5	21.5	73	1223
60 YEARS AND OVER.....	2.2	7.8	27	499	18.65	.2	14.7	50	868
HOUSEHOLD MEMBERS									
1.....	1.5	6.7	23	430	18.87	.3	10.8	37	652
2.....	2.6	9.9	34	608	17.98	.5	15.8	54	902
3 OR MORE.....	3.8	12.3	42	746	17.79	.6	19.4	66	1126
MAIN HEATING FUEL									
NATURAL GAS.....	5.7	9.3	32	584	18.32	-	-	-	-
ELECTRICITY.....	1.5	16.2	55	941	17.04	1.5	16.2	55	941
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	-	-	-	-
OTHER.....	.8	7.9	27	500	18.50	-	-	-	-

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

**Table 5. (Continued)**  
**Census Division: West South Central**

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	5.9	9.3	32	580	18.31	0.4	10.7	37	673
ELECTRICITY.....	1.6	15.6	53	910	17.14	1.1	18.1	62	1034
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.5	7.5	25	477	18.74	Q	Q	Q	Q
<b>ALL ELECTRIC HOME</b>									
YES.....	1.0	18.6	63	1060	16.73	1.0	18.6	63	1060
NO.....	6.9	9.2	31	578	18.35	.4	10.2	35	641
<b>MAIN HEATING EQUIPMENT USING ELECTRICITY</b>									
CENTRAL WARM AIR.....	1.0	17.8	61	1021	16.84	1.0	17.8	61	1021
HEAT PUMP.....	.2	13.9	47	816	17.23	.2	13.9	47	816
WALL UNITS.....	.1	14.9	51	904	17.81	.1	14.9	51	904
PIPELESS FURNACE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
PORTABLE HEATERS.....	.1	6.5	22	444	20.07	.1	6.5	22	444
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	1.7	7.9	27	485	17.97	.2	14.4	49	744
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

Table 5. (Continued)  
Census Region: West

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	16.3	8.3	28	453	15.98	3.4	14.8	51	596
AREA TYPE									
URBAN.....	13.0	7.4	25	425	16.76	2.5	13.1	45	576
RURAL.....	3.3	11.7	40	561	14.01	.8	19.9	68	655
SMSA									
SMSA.....	12.8	7.4	25	435	17.31	2.3	12.4	42	566
NON-SMSA.....	3.4	11.8	40	519	12.88	1.0	20.4	70	661
ELECTRICITY PAID BY HOUSEHOLD									
YES.....	15.0	8.4	29	454	15.77	3.1	15.1	52	582
NO.....	1.3	6.7	23	436	19.14	.3	12.1	41	727
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	12.3	9.2	31	499	15.91	2.0	18.5	63	690
2 OR MORE UNITS.....	4.0	5.6	19	311	16.33	1.4	9.5	32	460
NUMBER OF ROOMS									
1 TO 3 .....	2.1	5.6	19	282	14.78	.7	10.1	34	450
4 TO 5.....	7.3	7.6	26	401	15.54	1.8	13.5	46	561
6 OR MORE.....	6.9	9.9	34	561	16.54	.8	21.8	74	796
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	3.6	11.0	38	655	17.44	1.1	16.4	56	786
SOME.....	1.9	7.0	24	391	16.39	.3	12.8	44	518
NONE.....	10.7	7.6	26	396	15.20	2.0	14.3	49	502
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	5.9	6.2	21	339	16.03	1.7	10.8	37	454
1,000 TO 1,999.....	7.8	8.7	30	485	16.25	1.4	17.5	60	718
2,000 OR MORE.....	2.5	11.9	41	622	15.26	.3	23.7	81	789
YEAR HOUSE BUILT									
1939 OR EARLIER.....	3.6	6.4	22	355	16.23	0.4	14.1	48	485
1940 TO 1959.....	4.5	7.7	26	430	16.44	.4	18.5	63	617
1960 OR LATER.....	8.2	9.5	32	508	15.70	2.6	14.4	49	609
OWN/RENT									
OWN.....	10.0	9.3	32	510	16.04	1.6	18.0	61	658
RENT.....	6.2	6.7	23	360	15.83	1.8	11.9	41	539
1980 FAMILY INCOME									
LESS THAN \$10,000.....	4.0	6.6	23	375	16.66	1.0	11.2	38	489
\$10,000 TO \$19,999.....	4.1	7.9	27	401	14.92	.9	14.4	49	546
\$20,000 TO \$34,999.....	5.0	9.3	32	492	15.57	1.0	17.5	60	683
\$35,000 OR MORE.....	3.2	9.5	32	554	17.13	.5	17.2	59	707
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.9	6.4	22	388	17.71	.5	10.6	36	517
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.9	6.7	23	391	17.21	.7	10.7	37	509
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	6.4	7.8	27	395	14.85	1.7	13.5	46	558
35 TO 59 YEARS.....	6.4	9.4	32	556	17.26	1.2	16.7	57	698
60 YEARS AND OVER.....	3.4	7.2	24	368	15.09	.6	14.9	51	496
HOUSEHOLD MEMBERS									
1.....	2.6	5.5	19	290	15.37	.7	10.1	34	437
2.....	5.7	7.8	27	416	15.53	1.4	13.8	47	563
3 OR MORE.....	8.0	9.5	33	532	16.35	1.3	18.2	62	706
MAIN HEATING FUEL									
NATURAL GAS.....	10.8	6.0	21	395	19.25	-	-	-	-
ELECTRICITY.....	3.4	14.8	51	596	11.76	3.4	14.8	51	596
FUEL OIL OR KEROSENE.....	.4	10.9	37	317	8.53	-	-	-	-
OTHER.....	1.7	9.1	31	568	18.24	-	-	-	-

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

Table 5. (Continued)  
Census Region: West

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	11.2	5.8	20	397	19.93	0.6	6.6	22	456
ELECTRICITY.....	4.3	14.8	50	565	11.19	2.8	16.6	57	624
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.7	7.7	26	654	24.85	Q	Q	Q	Q
<b>ALL ELECTRIC HOME</b>									
YES.....	2.8	16.6	57	625	11.02	2.8	16.6	57	625
NO.....	13.5	6.6	23	417	18.54	.6	6.9	23	464
<b>MAIN HEATING EQUIPMENT USING ELECTRICITY</b>									
CENTRAL WARM AIR.....	1.0	17.4	59	725	12.20	1.0	17.4	59	725
HEAT PUMP.....	.5	18.0	61	857	14.00	.5	18.0	61	857
WALL UNITS.....	1.7	13.2	45	463	10.30	1.7	13.2	45	463
PIPELESS FURNACE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
PORTABLE HEATERS.....	.2	7.8	27	428	15.99	.2	7.8	27	428
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	1.3	7.2	25	386	15.63	.1	20.2	69	964
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.7	12.3	42	487	11.62	.5	22.2	76	679
<2,000 CDD AND 4,000 TO 5,499 HDD.....	3.3	12.8	44	428	9.79	1.4	16.9	58	527
<2,000 CDD AND <4,000 HDD.....	9.1	6.1	21	438	21.07	1.1	8.0	27	540
>2,000 CDD AND <4,000 HDD.....	.9	8.3	28	711	25.10	.2	14.6	50	957

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

Table 5. (Continued)  
Census Division: Mountain

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	3.9	8.4	29	464	16.16	0.6	18.1	62	840
AREA TYPE									
URBAN.....	2.8	7.6	26	464	17.94	.4	16.1	55	913
RURAL.....	1.1	10.5	36	463	12.92	.3	21.1	72	730
SMSA									
SMSA.....	2.4	6.9	24	465	19.78	.3	14.6	50	942
NON-SMSA.....	1.5	10.8	37	462	12.57	.4	20.4	69	774
ELECTRICITY PAID BY HOUSEHOLD									
YES.....	3.5	8.5	29	465	15.94	.6	17.5	60	806
NO.....	.5	7.4	25	460	18.08	.1	24.8	85	1199
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	3.3	8.8	30	481	15.95	.5	19.2	66	872
2 OR MORE UNITS.....	.7	6.3	21	379	17.65	.1	13.8	47	719
NUMBER OF ROOMS									
1 TO 3.....	.5	5.7	20	364	18.61	.1	17.6	60	995
4 TO 5.....	1.9	7.4	25	411	16.23	.4	14.8	51	691
6 OR MORE.....	1.5	10.5	36	562	15.70	.2	23.3	80	1031
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.9	13.3	45	742	16.32	.3	21.8	75	1110
SOME.....	.4	8.5	29	391	13.50	.1	13.9	47	525
NONE.....	2.6	6.7	23	381	16.60	.2	14.8	51	607
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	1.5	6.1	21	344	16.65	.2	13.3	45	603
1,000 TO 1,999.....	1.7	9.6	33	532	16.30	.3	18.6	64	935
2,000 OR MORE.....	.7	10.5	36	547	15.31	.1	28.3	96	1122
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.6	6.2	21	330	15.62	Q	Q	Q	Q
1940 TO 1959.....	1.0	6.8	23	395	17.12	0.1	15.9	54	739
1960 OR LATER.....	2.3	9.7	33	529	15.98	.5	18.6	63	869
OWN/RENT									
OWN.....	2.7	9.1	31	495	15.90	.4	18.5	63	841
RENT.....	1.2	6.8	23	396	16.95	.2	17.2	59	837
1980 FAMILY INCOME									
LESS THAN \$10,000.....	1.2	7.0	24	408	16.99	.2	16.1	55	749
\$10,000 TO \$19,999.....	1.3	8.0	27	416	15.20	.2	16.4	56	723
\$20,000 TO \$34,999.....	1.0	9.5	32	527	16.33	.2	20.6	70	950
\$35,000 OR MORE.....	.4	10.8	37	604	16.39	.1	22.0	75	1152
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.5	7.2	25	425	17.22	.1	15.0	51	770
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.8	7.6	26	437	16.95	.1	16.9	58	793
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	1.8	7.9	27	410	15.17	.3	17.1	58	695
35 TO 59 YEARS.....	1.4	9.6	33	557	17.06	.2	19.3	66	1023
60 YEARS AND OVER.....	.7	7.4	25	416	16.47	.1	18.3	63	865
HOUSEHOLD MEMBERS									
1.....	.7	5.3	18	325	17.89	.1	13.3	45	766
2.....	1.3	7.6	26	423	16.25	.2	16.1	55	692
3 OR MORE.....	1.9	10.1	34	543	15.79	.3	20.6	70	941
MAIN HEATING FUEL									
NATURAL GAS.....	2.8	6.2	21	387	18.25	-	-	-	-
ELECTRICITY.....	.6	18.1	62	840	13.59	.6	18.1	62	840
FUEL OIL OR KEROSENE.....	.1	10.3	35	399	11.34	-	-	-	-
OTHER.....	.4	8.2	28	418	14.86	-	-	-	-

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

Table 5. (Continued)  
Census Division: Mountain

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	2.8	6.1	21	391	18.91	0.1	6.3	21	454
ELECTRICITY.....	.9	16.2	55	706	12.75	.5	20.1	69	906
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.2	5.6	19	379	19.81	Q	Q	Q	Q
<b>ALL ELECTRIC HOME</b>									
YES.....	.5	20.1	69	906	13.19	.5	20.1	69	906
NO.....	3.4	6.5	22	393	17.63	.1	6.3	21	454
<b>MAIN HEATING EQUIPMENT USING ELECTRICITY</b>									
CENTRAL WARM AIR.....	.2	23.8	81	944	11.61	.2	23.8	81	944
HEAT PUMP.....	.2	18.4	63	1039	16.59	.2	18.4	63	1039
WALL UNITS.....	.2	14.4	49	589	11.95	.2	14.4	49	589
PIPELESS FURNACE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
PORTABLE HEATERS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	1.2	6.9	24	383	16.26	.1	20.9	71	1080
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.4	10.3	35	468	13.31	.3	20.1	69	705
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.3	7.1	24	430	17.81	.1	13.8	47	752
<2,000 CDD AND <4,000 HDD.....	.4	5.2	18	364	20.55	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	.6	9.9	34	702	20.69	.2	15.2	52	1003

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

Table 5. (Continued)  
Census Division: Pacific

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	12.3	8.3	28	449	15.92	2.8	14.1	48	539
AREA TYPE									
URBAN.....	10.2	7.4	25	415	16.42	2.2	12.6	43	516
RURAL.....	2.2	12.4	42	611	14.49	.6	19.4	66	623
SMSA									
SMSA.....	10.4	7.5	25	428	16.79	2.1	12.1	41	521
NON-SMSA.....	1.9	12.6	43	565	13.10	.7	20.4	70	596
ELECTRICITY PAID BY HOUSEHOLD									
YES.....	11.6	8.4	29	451	15.72	2.5	14.6	50	529
NO.....	.8	6.2	21	421	19.90	.3	9.4	32	630
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	9.0	9.3	32	505	15.89	1.5	18.3	62	629
2 OR MORE UNITS.....	3.3	5.4	19	297	16.02	1.3	9.1	31	433
NUMBER OF ROOMS									
1 TO 3.....	1.7	5.6	19	260	13.67	.7	9.5	32	403
4 TO 5.....	5.3	7.6	26	397	15.29	1.5	13.2	45	529
6 OR MORE.....	5.3	9.8	33	561	16.80	.6	21.2	72	709
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	2.7	10.2	35	626	17.92	.8	14.3	49	660
SOME.....	1.5	6.6	22	390	17.43	.2	12.4	42	515
NONE.....	8.1	7.9	27	401	14.81	1.7	14.2	48	487
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	4.5	6.2	21	337	15.83	1.4	10.4	35	430
1,000 TO 1,999.....	6.1	8.5	29	472	16.23	1.1	17.2	59	656
2,000 OR MORE.....	1.8	12.6	43	653	15.25	.3	21.9	75	663
YEAR HOUSE BUILT									
1939 OR EARLIER.....	3.0	6.5	22	361	16.35	0.4	14.0	48	468
1940 TO 1959.....	3.5	7.9	27	440	16.28	.3	18.9	65	596
1960 OR LATER.....	5.8	9.4	32	499	15.58	2.1	13.3	45	542
OWN/RENT									
OWN.....	7.3	9.4	32	516	16.09	1.2	17.8	61	590
RENT.....	5.0	6.6	23	351	15.55	1.6	11.3	38	501
1980 FAMILY INCOME									
LESS THAN \$10,000.....	2.8	6.4	22	361	16.50	.8	9.9	34	425
\$10,000 TO \$19,999.....	2.8	7.8	27	394	14.79	.7	13.8	47	493
\$20,000 TO \$34,999.....	4.0	9.2	31	483	15.37	.8	16.8	57	626
\$35,000 OR MORE.....	2.8	9.3	32	545	17.27	.5	16.5	56	642
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.4	6.1	21	374	17.94	.4	9.4	32	444
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.1	6.3	22	375	17.31	.6	9.4	32	450
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	4.7	7.7	26	389	14.73	1.3	12.7	43	525
35 TO 59 YEARS.....	5.0	9.4	32	555	17.32	.9	16.0	55	611
60 YEARS AND OVER.....	2.6	7.1	24	355	14.68	.5	14.5	49	444
HOUSEHOLD MEMBERS									
1.....	1.9	5.6	19	278	14.49	.5	9.5	32	375
2.....	4.4	7.9	27	413	15.32	1.2	13.4	46	543
3 OR MORE.....	6.1	9.4	32	529	16.55	1.0	17.4	59	624
MAIN HEATING FUEL									
NATURAL GAS.....	7.9	5.9	20	398	19.62	-	-	-	-
ELECTRICITY.....	2.8	14.1	48	539	11.22	2.8	14.1	48	539
FUEL OIL OR KEROSENE.....	.4	11.0	37	304	8.13	-	-	-	-
OTHER.....	1.3	9.4	32	617	19.19	-	-	-	-

See footnotes at end of table.



# Average Residential Electricity Consumption and Expenditures

Table 5. (Continued)  
Census Division: Pacific

HOUSEHOLD CHARACTERISTICS	ANY ELECTRICITY USED					ELECTRICITY USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE PER MILLION BTU (DOLLARS)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (THOUSAND KWH)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	8.4	5.8	20	399	20.30	0.5	6.6	23	457
ELECTRICITY.....	3.4	14.4	49	527	10.72	2.2	15.8	54	555
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.5	8.4	29	741	25.92	Q	Q	Q	Q
<b>ALL ELECTRIC HOME</b>									
YES.....	2.2	15.8	54	557	10.34	2.2	15.8	54	557
NO.....	10.1	6.6	23	426	18.84	.5	7.0	24	465
<b>MAIN HEATING EQUIPMENT USING ELECTRICITY</b>									
CENTRAL WARM AIR.....	.8	16.2	55	682	12.37	.8	16.2	55	682
HEAT PUMP.....	.3	17.6	60	702	11.69	.3	17.6	60	702
WALL UNITS.....	1.5	13.0	44	445	10.04	1.5	13.0	44	445
PIPELESS FURNACE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
PORTABLE HEATERS.....	.2	6.9	24	399	16.88	.2	6.9	24	399
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	.1	9.8	33	406	12.14	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.3	22.2	76	585	7.73	.2	24.9	85	647
<2,000 CDD AND 4,000 TO 5,499 HDD.....	2.9	13.4	46	427	9.33	1.4	17.0	58	519
<2,000 CDD AND <4,000 HDD.....	8.6	6.1	21	442	21.09	1.1	8.0	27	543
>2,000 CDD AND <4,000 HDD.....	.3	5.3	18	727	39.81	Q	Q	Q	Q

"-" = DATA NOT APPLICABLE.

"Q" = DATA WITHHELD BECAUSE OF A LARGE VARIANCE.

NOTE: BECAUSE OF ROUNDING, DATA MAY NOT SUM TO TOTALS. PERCENTAGES ARE CALCULATED ON UNROUNDED NUMBERS. SEE GLOSSARY FOR DEFINITION OF TERMS USED IN THIS REPORT.

SOURCE: ENERGY INFORMATION ADMINISTRATION, OFFICE OF ENERGY MARKETS AND END USE, ENERGY END USE DIVISION, FORM EIA-457, THE 1981 RESIDENTIAL ENERGY CONSUMPTION SURVEY.





**Table 6. U.S. Average Residential Fuel Oil or Kerosene Consumption and Expenditures—April 1981 Through March 1982, United States**

# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	14.6	658	91	811	8.89	12.2	744	103	915
AREA TYPE									
URBAN.....	8.9	741	103	915	8.91	8.0	796	110	982
RURAL.....	5.7	530	73	648	8.84	4.2	644	89	788
SMSA									
SMSA.....	9.6	729	101	899	8.90	8.4	794	110	979
NON-SMSA.....	5.0	524	73	642	8.85	3.7	631	87	772
FUEL OIL PAID BY HOUSEHOLD									
YES.....	10.7	629	87	775	8.89	8.7	723	100	891
NO.....	3.9	739	102	909	8.87	3.5	794	110	976
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	10.2	630	87	776	8.89	8.2	727	101	895
2 OR MORE UNITS.....	4.4	724	100	892	8.88	3.9	777	108	957
NUMBER OF ROOMS									
1 TO 3.....	2.2	619	86	763	8.90	1.9	662	92	815
4 TO 5.....	5.7	599	83	736	8.88	4.8	681	94	838
6 OR MORE.....	6.7	721	100	888	8.89	5.5	827	115	1018
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	2.6	594	82	730	8.87	2.1	693	96	851
SOME.....	4.1	785	109	969	8.91	3.8	821	114	1014
NONE.....	7.9	614	85	755	8.88	6.3	714	99	878
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	5.3	584	81	721	8.93	4.6	646	89	799
1,000 TO 1,999.....	5.3	629	87	773	8.87	4.4	720	100	885
2,000 OR MORE.....	4.0	798	111	980	8.86	3.2	914	127	1122
YEAR HOUSE BUILT									
1939 OR EARLIER.....	6.1	719	100	888	8.91	5.1	817	113	1008
1940 TO 1959.....	3.8	658	91	806	8.85	3.3	716	99	877
1960 OR LATER.....	4.6	579	80	712	8.89	3.7	667	92	821
OWN/RENT									
OWN.....	9.5	665	92	819	8.89	7.7	758	105	933
RENT.....	5.1	647	90	796	8.88	4.4	718	100	884
1980 FAMILY INCOME									
LESS THAN \$10,000.....	4.0	623	86	766	8.88	3.5	682	94	839
\$10,000 TO \$19,999.....	4.3	614	85	756	8.89	3.6	707	98	870
\$20,000 TO \$34,999.....	4.1	646	89	793	8.86	3.3	739	102	907
\$35,000 OR MORE.....	2.2	832	115	1029	8.92	1.8	950	132	1174
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.5	579	80	713	8.90	1.2	678	94	835
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.4	583	81	716	8.88	2.0	664	92	816
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	3.5	542	75	665	8.86	2.8	639	89	785
35 TO 59 YEARS.....	6.6	706	98	871	8.90	5.3	803	111	990
60 YEARS AND OVER.....	4.5	681	94	838	8.88	4.1	737	102	906
HOUSEHOLD MEMBERS									
1.....	2.9	637	88	783	8.88	2.6	688	95	846
2.....	4.8	648	90	795	8.85	4.1	730	101	895
3 OR MORE.....	6.8	675	94	854	8.91	5.5	779	108	963
MAIN HEATING FUEL									
NATURAL GAS.....	.7	238	33	292	8.87	-	-	-	-
ELECTRICITY.....	.2	155	21	190	8.86	-	-	-	-
FUEL OIL OR KEROSENE.....	12.2	744	103	915	8.89	12.2	744	103	915
OTHER.....	1.5	233	32	287	8.92	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

Table 6. (Continued)  
United States

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	2.0	557	77	689	8.93	1.4	721	100	894
ELECTRICITY.....	5.7	481	67	586	8.81	4.6	551	76	672
FUEL OIL OR KEROSENE.....	6.1	890	123	1100	8.91	5.7	920	128	1136
OTHER.....	.8	405	56	504	9.04	.5	579	80	723
<b>MAIN HEATING EQUIPMENT USING FUEL OIL</b>									
STEAM OR HOT WATER SYSTEM.....	6.7	894	124	1103	8.90	6.7	894	124	1103
CENTRAL WARM AIR FURNACE.....	4.1	625	87	763	8.81	4.1	625	87	763
OTHER/NONE.....	3.8	281	39	349	9.02	1.4	370	51	465
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	2.7	575	80	701	8.81	1.9	715	99	871
<2,000 CDD AND 5,500 TO 7,000 HDD.....	3.8	738	102	911	8.91	3.3	818	113	1010
<2,000 CDD AND 4,000 TO 5,499 HDD.....	6.4	727	101	895	8.88	5.7	790	110	972
<2,000 CDD AND <4,000 HDD.....	1.1	378	52	471	9.03	.8	453	63	565
>2,000 CDD AND <4,000 HDD.....	.5	243	34	307	9.17	.4	260	36	329

See footnotes at end of table.



Table 6. (Continued)  
Census Region: Northeast

# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	8.9	779	108	963	8.92	7.9	842	117	1040
AREA TYPE									
URBAN.....	6.8	822	114	1016	8.92	6.3	859	119	1062
RURAL.....	2.2	646	89	798	8.92	1.6	772	107	954
SMSA									
SMSA.....	7.2	817	113	1009	8.91	6.6	862	120	1065
NON-SMSA.....	1.7	618	86	767	8.96	1.3	734	102	911
FUEL OIL PAID BY HOUSEHOLD									
YES.....	5.6	777	108	964	8.95	4.7	869	121	1078
NO.....	3.4	781	108	960	8.87	3.2	801	111	985
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME...	5.2	788	109	976	8.94	4.3	882	122	1093
2 OR MORE UNITS.....	3.8	766	106	943	8.88	3.6	792	110	975
NUMBER OF ROOMS									
1 TO 3.....	1.6	691	96	851	8.88	1.5	722	100	889
4 TO 5.....	3.3	732	101	903	8.90	3.0	782	108	965
6 OR MORE.....	4.0	851	118	1055	8.94	3.4	945	131	1171
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	1.2	782	108	964	8.89	1.0	852	118	1049
SOME.....	2.8	869	120	1078	8.95	2.6	903	125	1120
NONE.....	4.9	727	101	897	8.90	4.3	801	111	989
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	3.3	709	98	876	8.91	3.1	746	103	922
1,000 TO 1,999.....	3.0	749	104	927	8.92	2.6	821	114	1016
2,000 OR MORE.....	2.6	904	125	1117	8.91	2.2	1002	139	1238
YEAR HOUSE BUILT									
1939 OR EARLIER.....	4.5	782	108	969	8.93	3.9	856	119	1060
1940 TO 1959.....	2.0	837	116	1031	8.88	1.8	862	119	1060
1960 OR LATER.....	2.5	727	101	899	8.93	2.1	797	110	986
OWN/RENT									
OWN.....	5.3	795	110	985	8.94	4.5	889	123	1102
RENT.....	3.6	755	105	929	8.88	3.4	780	108	960
1980 FAMILY INCOME									
LESS THAN \$10,000.....	2.2	757	105	936	8.92	2.0	789	109	975
\$10,000 TO \$19,999.....	2.6	736	102	909	8.91	2.2	805	112	995
\$20,000 TO \$34,999.....	2.7	727	101	894	8.87	2.3	806	112	991
\$35,000 OR MORE.....	1.5	982	136	1224	8.99	1.3	1057	147	1316
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.8	792	110	978	8.91	.7	850	118	1050
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.2	753	104	931	8.91	1.1	807	112	997
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	2.3	639	89	787	8.89	1.9	715	99	880
35 TO 59 YEARS.....	4.2	843	117	1044	8.94	3.6	916	127	1134
60 YEARS AND OVER.....	2.5	797	111	984	8.90	2.3	828	115	1022
HOUSEHOLD MEMBERS									
1.....	1.8	719	100	887	8.90	1.7	744	103	918
2.....	2.7	769	107	947	8.88	2.5	829	115	1020
3 OR MORE.....	4.4	809	112	1003	8.94	3.7	894	124	1108
MAIN HEATING FUEL									
NATURAL GAS.....	.3	298	41	366	8.87	-	-	-	-
ELECTRICITY.....	.1	224	31	275	8.86	-	-	-	-
FUEL OIL OR KEROSENE.....	7.9	842	117	1040	8.91	7.9	842	117	1040
OTHER.....	.7	315	44	394	9.03	q	q	q	q

See footnotes at end of table.



# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

Table 6. (Continued)  
Census Region: Northeast

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	1.3	642	89	795	8.93	1.1	747	104	926
ELECTRICITY.....	1.7	540	75	667	8.92	1.4	603	83	745
FUEL OIL OR KEROSENE.....	5.7	900	125	1112	8.91	5.3	928	129	1146
OTHER.....	.3	320	44	400	9.02	.1	589	82	735
<b>MAIN HEATING EQUIPMENT USING FUEL OIL</b>									
STEAM OR HOT WATER SYSTEM.....	6.0	907	126	1121	8.91	6.0	907	126	1121
CENTRAL WARM AIR FURNACE.....	1.7	642	89	793	8.91	1.7	642	89	793
OTHER/NONE.....	1.2	327	45	408	9.03	.2	473	65	602
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	1.1	618	86	769	8.97	.8	797	111	992
<2,000 CDD AND 5,500 TO 7,000 HDD.....	3.1	791	110	979	8.94	2.8	840	116	1040
<2,000 CDD AND 4,000 TO 5,499 HDD.....	4.7	809	112	998	8.89	4.4	850	118	1048
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



**Table 6. (Continued)**  
**Census Division: New**  
**England**

# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	2.4	782	108	974	8.98	2.1	856	119	1066
AREA TYPE									
URBAN.....	1.8	820	114	1021	8.98	1.6	862	119	1072
RURAL.....	.7	685	95	852	8.98	.5	839	116	1046
SMSA									
SMSA.....	1.6	817	113	1016	8.98	1.5	853	118	1061
NON-SMSA.....	.8	714	99	890	8.99	.6	865	120	1077
FUEL OIL PAID BY HOUSEHOLD									
YES.....	1.9	801	111	1001	9.01	1.6	884	122	1104
NO.....	.6	719	100	885	8.87	.5	772	107	949
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	1.5	820	114	1026	9.02	1.2	931	129	1165
2 OR MORE UNITS.....	1.0	723	100	892	8.91	.9	755	105	931
NUMBER OF ROOMS									
1 TO 3.....	.2	601	83	740	8.88	.2	697	97	860
4 TO 5.....	1.0	698	97	867	8.97	.9	770	107	957
6 OR MORE.....	1.2	887	123	1107	9.00	1.0	955	132	1192
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.2	705	98	880	9.01	.1	853	118	1064
SOME.....	.7	904	125	1132	9.03	.7	958	133	1200
NONE.....	1.5	734	102	910	8.95	1.3	806	112	999
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	.9	646	90	802	8.97	.8	707	98	878
1,000 TO 1,999.....	.9	768	106	956	8.98	.8	843	117	1050
2,000 OR MORE.....	.7	964	134	1202	8.99	.6	1066	148	1328
YEAR HOUSE BUILT									
1939 OR EARLIER.....	1.3	758	105	942	8.95	1.1	808	112	1003
1940 TO 1959.....	.5	809	112	1008	8.99	.5	870	120	1084
1960 OR LATER.....	.6	806	112	1007	9.02	.5	950	132	1188
OWN/RENT									
OWN.....	1.6	809	112	1011	9.02	1.3	907	126	1135
RENT.....	.8	732	101	902	8.90	.8	770	107	948
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.6	750	104	931	8.97	.6	799	111	992
\$10,000 TO \$19,999.....	.7	701	97	877	9.03	.6	782	108	978
\$20,000 TO \$34,999.....	.7	765	106	947	8.93	.6	840	116	1040
\$35,000 OR MORE.....	.4	1004	139	1255	9.01	.4	1097	152	1371
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.2	673	93	831	8.90	.2	785	109	970
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.3	774	107	957	8.92	.3	844	117	1044
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.6	621	86	770	8.95	.5	729	101	903
35 TO 59 YEARS.....	1.2	837	116	1040	8.97	1.0	913	127	1135
60 YEARS AND OVER.....	.6	845	117	1057	9.03	.6	869	120	1087
HOUSEHOLD MEMBERS									
1.....	.4	682	95	850	8.99	.4	719	100	896
2.....	.8	785	109	977	8.98	.7	856	119	1068
3 OR MORE.....	1.2	815	113	1014	8.98	1.0	911	126	1133
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	2.1	856	119	1066	8.98	2.1	856	119	1066
OTHER.....	.3	322	45	400	8.94	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

Table 6. (Continued)  
Census Division: New  
England

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	0.4	539	75	665	8.90	0.4	587	81	725
ELECTRICITY.....	.4	647	90	814	9.09	.3	747	103	940
FUEL OIL OR KEROSENE.....	1.5	917	127	1140	8.97	1.3	970	134	1206
OTHER.....	.1	431	60	536	8.98	.1	652	90	821
<b>MAIN HEATING EQUIPMENT USING FUEL OIL</b>									
STEAM OR HOT WATER SYSTEM.....	1.6	917	127	1138	8.95	1.6	917	127	1138
CENTRAL WARM AIR FURNACE.....	.5	670	93	847	9.12	.5	670	93	847
OTHER/NONE.....	.4	350	49	434	8.95	.1	655	91	816
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	.7	701	97	869	8.94	.5	886	123	1099
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.8	812	112	1011	8.99	1.7	848	117	1057
<2,000 CDD AND 4,000 TO 5,499 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



Table 6. (Continued)  
Census Division: Middle  
Atlantic

# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSE- HOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPEND- ITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSE- HOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPEND- ITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	6.5	777	108	958	8.89	5.8	836	116	1030
AREA TYPE									
URBAN.....	5.0	822	114	1014	8.89	4.6	859	119	1059
RURAL.....	1.5	628	87	772	8.88	1.1	743	103	913
SMSA									
SMSA.....	5.6	817	113	1007	8.89	5.1	865	120	1066
NON-SMSA.....	.9	529	73	654	8.94	.7	614	85	759
FUEL OIL PAID BY HOUSEHOLD									
YES.....	3.7	765	106	945	8.91	3.1	862	119	1064
NO.....	2.8	793	110	976	8.87	2.7	807	112	992
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	3.7	774	107	957	8.91	3.1	863	120	1065
2 OR MORE UNITS.....	2.8	781	108	961	8.87	2.7	805	112	990
NUMBER OF ROOMS									
1 TO 3 .....	1.4	704	98	868	8.88	1.3	725	100	892
4 TO 5.....	2.3	748	104	920	8.87	2.1	788	109	969
6 OR MORE.....	2.8	836	116	1033	8.91	2.4	941	130	1162
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	1.0	795	110	978	8.87	.9	852	118	1046
SOME.....	2.1	856	119	1059	8.92	2.0	884	123	1092
NONE.....	3.4	724	100	891	8.88	2.9	799	111	984
MEASURED HEATED SPACE OF RESI- DENCE (IN SQUARE FEET)									
LESS THAN 999.....	2.5	730	101	901	8.90	2.3	759	105	936
1,000 TO 1,999.....	2.1	741	103	914	8.90	1.8	812	113	1001
2,000 OR MORE.....	1.9	882	122	1085	8.88	1.6	978	136	1203
YEAR HOUSE BUILT									
1939 OR EARLIER.....	3.2	792	110	979	8.92	2.8	876	121	1083
1940 TO 1959.....	1.4	848	118	1039	8.84	1.3	859	119	1052
1960 OR LATER.....	1.9	699	97	861	8.89	1.6	748	104	921
OWN/RENT									
OWN.....	3.7	789	109	974	8.91	3.1	881	122	1087
RENT.....	2.8	762	106	937	8.87	2.7	783	109	963
1980 FAMILY INCOME									
LESS THAN \$10,000.....	1.6	761	105	938	8.90	1.5	786	109	969
\$10,000 TO \$19,999.....	1.9	749	104	921	8.87	1.7	813	113	1000
\$20,000 TO \$34,999.....	2.0	713	99	875	8.85	1.7	793	110	973
\$35,000 OR MORE.....	1.1	973	135	1212	8.98	.9	1041	144	1294
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.6	830	115	1025	8.91	.6	867	120	1071
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.9	746	103	921	8.91	.8	794	110	980
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	1.6	646	90	794	8.86	1.4	709	98	872
35 TO 59 YEARS.....	3.0	845	117	1045	8.93	2.6	917	127	1134
60 YEARS AND OVER.....	1.8	781	108	959	8.85	1.7	814	113	999
HOUSEHOLD MEMBERS									
1.....	1.4	730	101	899	8.87	1.3	751	104	925
2.....	1.9	762	106	934	8.84	1.8	818	113	1002
3 OR MORE.....	3.2	807	112	999	8.93	2.7	888	123	1099
MAIN HEATING FUEL									
NATURAL GAS.....	.2	329	46	405	8.87	-	-	-	-
ELECTRICITY.....	.1	224	31	275	8.86	-	-	-	-
FUEL OIL OR KEROSENE.....	5.8	836	116	1030	8.89	5.8	836	116	1030
OTHER.....	.4	310	43	390	9.09	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

Table 6. (Continued)  
Census Division: Middle Atlantic

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	0.9	694	96	860	8.95	0.7	840	117	1043
ELECTRICITY.....	1.3	506	70	621	8.85	1.1	558	77	684
FUEL OIL OR KEROSENE.....	4.2	894	124	1102	8.89	4.0	914	127	1126
OTHER.....	.1	223	31	280	9.08	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING FUEL OIL</b>									
STEAM OR HOT WATER SYSTEM.....	4.4	904	125	1115	8.89	4.4	904	125	1115
CENTRAL WARM AIR FURNACE.....	1.2	631	87	772	8.83	1.2	631	87	772
OTHER/NONE.....	.8	316	44	396	9.07	.1	368	50	478
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	.5	507	70	634	9.03	.3	653	90	817
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.3	762	106	934	8.85	1.1	829	115	1016
<2,000 CDD AND 4,000 TO 5,499 HDD.....	4.7	809	112	998	8.89	4.4	850	118	1048
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.





Table 6. (Continued)  
Census Region: North Central

# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	2.3	542	75	653	8.71	1.7	686	95	826
AREA TYPE									
URBAN.....	.6	574	79	685	8.66	.5	677	93	807
RURAL.....	1.7	531	74	642	8.73	1.2	689	95	833
SMSA									
SMSA.....	.7	569	79	684	8.69	.5	736	102	882
NON-SMSA.....	1.6	530	73	639	8.72	1.2	665	92	802
FUEL OIL PAID BY HOUSEHOLD									
YES.....	2.1	543	75	653	8.69	1.5	677	94	813
NO.....	.2	533	74	655	8.87	.1	784	109	965
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	2.1	541	75	650	8.69	1.5	676	93	812
2 OR MORE UNITS.....	.2	555	77	682	8.86	.1	803	111	986
NUMBER OF ROOMS									
1 TO 3.....	.3	434	60	534	8.91	.3	528	73	651
4 TO 5.....	.8	474	65	571	8.73	.5	675	93	813
6 OR MORE.....	1.2	619	86	742	8.66	.9	735	102	881
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.5	514	71	624	8.77	.4	628	87	764
SOME.....	.5	781	108	940	8.72	.4	848	117	1021
NONE.....	1.4	470	65	565	8.68	.9	637	88	764
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	.6	425	59	524	8.94	.4	572	79	706
1,000 TO 1,999.....	.9	556	77	664	8.63	.7	673	93	803
2,000 OR MORE.....	.8	623	86	747	8.66	.6	785	109	941
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.9	603	83	729	8.75	0.6	789	109	956
1940 TO 1959.....	.7	609	84	729	8.67	.6	696	96	834
1960 OR LATER.....	.7	407	56	489	8.68	.5	540	75	648
OWN/RENT									
OWN.....	1.9	571	79	687	8.71	1.4	692	96	832
RENT.....	.5	423	59	511	8.72	.2	649	90	787
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.6	578	80	699	8.76	.5	744	103	900
\$10,000 TO \$19,999.....	.7	523	72	629	8.72	.5	668	92	804
\$20,000 TO \$34,999.....	.6	462	64	554	8.67	.4	622	86	748
\$35,000 OR MORE.....	.3	663	92	797	8.67	.3	720	100	862
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.2	519	71	629	8.84	.1	710	97	868
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.4	556	77	666	8.70	.3	735	101	884
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.6	375	52	451	8.66	.4	502	70	603
35 TO 59 YEARS.....	.9	573	79	690	8.69	.6	719	100	865
60 YEARS AND OVER.....	.8	643	89	775	8.76	.6	775	107	934
HOUSEHOLD MEMBERS									
1.....	.3	624	86	753	8.75	.3	707	98	854
2.....	.8	622	86	749	8.71	.7	744	103	894
3 OR MORE.....	1.1	458	63	552	8.69	.7	625	87	753
MAIN HEATING FUEL									
NATURAL GAS.....	.2	189	26	233	8.86	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	1.7	686	95	826	8.71	1.7	686	95	826
OTHER.....	.5	189	26	226	8.64	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

Table 6. (Continued)  
Census Region: North Central

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	0.3	399	55	493	8.94	0.1	731	101	903
ELECTRICITY.....	1.7	564	78	675	8.65	1.3	660	91	790
FUEL OIL OR KEROSENE.....	.1	588	81	723	8.90	Q	Q	Q	Q
OTHER.....	.3	543	75	662	8.85	.2	857	118	1049
<b>MAIN HEATING EQUIPMENT USING FUEL OIL</b>									
STEAM OR HOT WATER SYSTEM.....	.2	702	97	833	8.60	.2	702	97	833
CENTRAL WARM AIR FURNACE.....	1.2	708	98	851	8.69	1.2	708	98	851
OTHER/NONE.....	.9	286	39	348	8.84	.2	560	77	691
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	1.6	543	75	651	8.67	1.2	663	92	794
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.7	531	74	645	8.77	.4	725	100	681
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.1	616	85	759	8.96	.1	856	117	1055
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.

Size of Home/ Number of Household Members/Age of Head of Household	Natural		Electricity	
	Gas (thousand cubic feet)	Fuel Oil/ Kerosene (Gallons)	With Air- conditioning (thousand kWh)	Without Air- conditioning (thousand kWh)

Small Homes

One household member/  
head of household is  
less than 35 years old  
35-59 years old  
60 years or more

Two household members/  
head of household is  
less than 35 years old  
35-59 years old  
60 years or more

Three or more household  
members/head of household is  
less than 35 years old  
35-59 years old  
60 years or more

Medium Homes

One household member/  
head of household is  
less than 35 years old  
35-59 years old  
60 years or more

Two household members/  
head of household is  
less than 35 years old  
35-59 years old  
60 years or more

Three or more household  
members/head of household is  
less than 35 years old  
35-59 years old  
60 years or more

Large Homes

One household member/  
head of household is  
less than 35 years old  
35-59 years old  
60 years or more

Two household members/  
head of household is  
less than 35 years old  
35-59 years old  
60 years or more

Three or more household  
members/head of household is  
less than 35 years old  
35-59 years old  
60 years or more



Table 1. How does your use of the program of the form  
relating to your work?

When you use the program of the form  
you are working on  
Small business  
Small business  
Small business

One address  
business only

Low cost

Less than 1000  
35 or more  
1000 or more

Two household

medium/low

Low cost

Less than 1000  
35 or more  
1000 or more





Table 6. (Continued)  
Census Division: East North  
Central

## Average Residential Fuel Oil or Kerosene Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	1.7	518	72	625	8.73	1.2	672	93	812
AREA TYPE									
URBAN.....	.4	614	85	730	8.61	.3	683	94	809
RURAL.....	1.3	489	68	593	8.78	.9	668	92	813
SMSA									
SMSA.....	.5	593	82	709	8.64	.4	749	104	894
NON-SMSA.....	1.2	488	67	591	8.78	.9	641	88	778
FUEL OIL PAID BY HOUSEHOLD									
YES.....	1.7	528	73	637	8.73	1.2	678	94	818
NO.....	.1	254	35	312	8.86	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	1.7	526	73	634	8.73	1.2	676	93	816
2 OR MORE UNITS.....	.1	302	42	371	8.86	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3 .....	.2	392	54	487	8.98	.2	477	66	593
4 TO 5.....	.6	456	63	550	8.74	.4	651	90	785
6 OR MORE.....	.9	590	82	709	8.69	.7	729	101	878
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.3	519	72	632	8.79	.2	666	92	814
SOME.....	.3	732	101	883	8.73	.3	779	108	941
NONE.....	1.1	459	63	552	8.71	.7	635	88	763
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	.5	398	55	491	8.97	.3	528	73	654
1,000 TO 1,999.....	.7	553	76	661	8.65	.5	691	95	825
2,000 OR MORE.....	.5	573	79	690	8.70	.4	758	105	916
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.7	555	77	670	8.73	0.5	728	101	881
1940 TO 1959.....	.5	625	86	747	8.65	.4	716	99	855
1960 OR LATER.....	.5	365	50	448	8.88	.3	525	73	645
OWN/RENT									
OWN.....	1.5	558	77	674	8.74	1.1	687	95	831
RENT.....	.2	280	39	333	8.59	.1	495	68	593
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.5	566	78	681	8.72	.3	732	101	883
\$10,000 TO \$19,999.....	.6	503	69	607	8.76	.4	650	90	785
\$20,000 TO \$34,999.....	.5	433	60	519	8.64	.3	601	83	723
\$35,000 OR MORE.....	.2	634	88	776	8.82	.2	733	102	896
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.1	409	56	496	8.84	.1	614	84	755
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.3	512	71	611	8.65	.2	708	98	848
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.4	326	45	388	8.58	.3	436	60	521
35 TO 59 YEARS.....	.7	524	73	636	8.76	.4	703	97	854
60 YEARS AND OVER.....	.7	634	87	765	8.76	.5	773	107	933
HOUSEHOLD MEMBERS									
1.....	.2	703	97	845	8.72	.2	707	97	850
2.....	.6	631	87	760	8.73	.5	769	106	926
3 OR MORE.....	.9	391	54	473	8.74	.5	569	79	692
MAIN HEATING FUEL									
NATURAL GAS.....	.1	173	24	213	8.87	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	1.2	672	93	812	8.74	1.2	672	93	812
OTHER.....	.4	158	22	187	8.59	Q	Q	Q	Q

See footnotes at end of table.



## Average Residential Fuel Oil or Kerosene Consumption and Expenditures

Table 6. (Continued)  
Census Division: East North  
Central

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	0.1	431	60	534	8.95	0.1	788	109	981
ELECTRICITY.....	1.3	532	73	637	8.68	1.0	641	89	770
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.2	523	72	643	8.92	.1	850	117	1047
<b>MAIN HEATING EQUIPMENT USING FUEL OIL</b>									
STEAM OR HOT WATER SYSTEM.....	.1	675	93	809	8.71	.1	675	93	809
CENTRAL WARM AIR FURNACE.....	.9	693	96	835	8.70	.9	693	96	835
OTHER/NONE.....	.7	266	37	325	8.85	.2	567	78	702
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	1.1	523	72	627	8.69	.8	654	90	785
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.6	493	68	600	8.78	.4	687	95	837
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.1	698	96	864	9.01	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.





Table 6. (Continued)  
Census Division: West North  
Central

## Average Residential Fuel Oil or Kerosene Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSE- HOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPEND- ITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSE- HOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPEND- ITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	0.6	615	85	736	8.65	0.4	723	100	863
AREA TYPE									
URBAN.....	.2	486	67	589	8.80	.1	662	91	802
RURAL.....	.4	679	94	809	8.60	.3	746	103	886
SMSA									
SMSA.....	.2	513	71	624	8.80	.1	700	97	849
NON-SMSA.....	.4	675	93	802	8.58	.3	734	102	869
FUEL OIL PAID BY HOUSEHOLD									
YES.....	.4	605	84	716	8.56	.3	674	93	794
NO.....	.2	641	89	788	8.87	.1	864	120	1063
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	.4	605	84	716	8.56	.3	675	93	796
2 OR MORE UNITS.....	.2	640	89	786	8.86	.1	854	118	1049
NUMBER OF ROOMS									
1 TO 3.....	.1	506	70	618	8.81	.1	610	84	744
4 TO 5.....	.2	534	74	642	8.71	.1	764	105	915
6 OR MORE.....	.3	717	99	851	8.57	.2	752	104	889
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.1	501	69	602	8.71	.1	544	75	653
SOME.....	.2	868	120	1043	8.69	.1	994	137	1189
NONE.....	.3	515	71	613	8.58	.2	647	90	768
MEASURED HEATED SPACE OF RESI- DENCE (IN SQUARE FEET)									
LESS THAN 999.....	.2	496	68	608	8.88	.1	691	95	846
1,000 TO 1,999.....	.2	570	79	676	8.56	.2	609	84	722
2,000 OR MORE.....	.2	741	103	880	8.58	.2	843	117	998
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.2	738	102	898	8.80	0.2	972	134	1182
1940 TO 1959.....	.1	542	75	657	8.76	.1	614	85	745
1960 OR LATER.....	.2	516	72	595	8.32	.2	569	79	652
OWN/RENT									
OWN.....	.4	625	86	741	8.57	.3	710	98	838
RENT.....	.2	596	83	727	8.80	.1	748	104	912
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.1	624	86	761	8.86	.1	781	108	953
\$10,000 TO \$19,999.....	.2	585	81	697	8.59	.1	725	101	862
\$20,000 TO \$34,999.....	.1	559	77	676	8.74	.1	685	95	827
\$35,000 OR MORE.....	.1	717	99	837	8.42	.1	698	97	805
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.1	754	104	917	8.85	.1	824	113	1002
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.1	754	104	917	8.85	.1	824	113	1002
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.2	473	66	575	8.76	.1	640	89	776
35 TO 59 YEARS.....	.3	695	96	824	8.55	.2	750	104	886
60 YEARS AND OVER.....	.1	698	96	838	8.75	.1	783	107	939
HOUSEHOLD MEMBERS									
1.....	.1	489	68	597	8.81	.1	708	98	863
2.....	.2	595	82	711	8.66	.2	669	92	799
3 OR MORE.....	.3	695	96	827	8.58	.2	774	107	917
MAIN HEATING FUEL									
NATURAL GAS.....	.1	213	29	261	8.86	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	.4	723	100	863	8.63	.4	723	100	863
OTHER.....	.1	412	57	501	8.77	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

Table 6. (Continued)  
Census Division: West North Central

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	0.1	366	50	448	8.92	Q	Q	Q	Q
ELECTRICITY.....	.4	681	94	810	8.58	0.3	718	100	852
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING FUEL OIL</b>									
STEAM OR HOT WATER SYSTEM.....	.1	734	102	861	8.48	.1	734	102	861
CENTRAL WARM AIR FURNACE.....	.3	756	105	906	8.66	.3	756	105	906
OTHER/NONE.....	.2	356	49	434	8.80	.1	535	74	650
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	.5	587	81	702	8.63	.4	685	95	815
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.1	894	123	1072	8.72	.1	973	134	1171
<2,000 CDD AND 4,000 TO 5,499 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



Table 6. (Continued)  
Census Region: South

## Average Residential Fuel Oil or Kerosene Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	2.8	410	57	505	8.93	2.2	482	67	595
AREA TYPE									
URBAN.....	1.2	437	60	544	9.01	.9	520	72	648
RURAL.....	1.6	390	54	478	8.86	1.3	454	63	556
SMSA									
SMSA.....	1.2	391	54	489	9.06	1.0	461	64	578
NON-SMSA.....	1.5	425	59	518	8.83	1.2	500	69	609
FUEL OIL PAID BY HOUSEHOLD									
YES.....	2.5	410	57	506	8.93	2.1	470	65	581
NO.....	.2	407	56	500	8.86	.1	678	94	833
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	2.5	410	57	506	8.93	2.0	474	65	584
2 OR MORE UNITS.....	.3	405	56	501	8.92	.2	560	78	693
NUMBER OF ROOMS									
1 TO 3.....	.2	422	58	526	9.01	.2	422	58	526
4 TO 5.....	1.3	374	52	462	8.94	1.1	427	59	527
6 OR MORE.....	1.3	445	61	548	8.91	.9	559	77	689
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.9	395	55	485	8.87	.7	495	69	608
SOME.....	.8	508	70	623	8.85	.7	537	74	657
NONE.....	1.1	354	49	441	9.06	.8	422	58	528
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	1.2	341	47	423	9.01	1.0	375	52	466
1,000 TO 1,999.....	1.2	406	56	499	8.90	.9	512	71	629
2,000 OR MORE.....	.5	590	82	723	8.86	.4	703	97	861
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.5	513	71	639	9.01	0.4	606	84	753
1940 TO 1959.....	1.0	364	50	449	8.93	.8	427	59	527
1960 OR LATER.....	1.3	400	55	491	8.88	1.0	471	65	578
OWN/RENT									
OWN.....	1.9	434	60	534	8.91	1.6	494	68	608
RENT.....	.9	358	50	445	8.98	.6	453	63	563
1980 FAMILY INCOME									
LESS THAN \$10,000.....	1.1	388	54	476	8.89	.9	424	59	520
\$10,000 TO \$19,999.....	.8	384	53	479	9.03	.6	465	64	579
\$20,000 TO \$34,999.....	.6	504	70	624	8.95	.5	578	80	716
\$35,000 OR MORE.....	.3	385	53	467	8.76	.2	589	82	713
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.5	304	42	374	8.92	.4	351	48	430
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.7	331	46	407	8.92	.6	375	52	460
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.6	359	50	444	8.92	.4	449	62	556
35 TO 59 YEARS.....	1.2	376	52	461	8.89	.9	464	64	570
60 YEARS AND OVER.....	1.0	481	66	595	8.97	.9	515	71	637
HOUSEHOLD MEMBERS									
1.....	.7	438	60	539	8.92	.5	512	71	630
2.....	1.1	404	56	496	8.90	.9	481	66	590
3 OR MORE.....	1.1	398	55	493	8.97	.8	465	64	577
MAIN HEATING FUEL									
NATURAL GAS.....	.2	165	23	203	8.86	-	-	-	-
ELECTRICITY.....	.1	105	15	130	8.93	-	-	-	-
FUEL OIL OR KEROSENE.....	2.2	482	67	595	8.93	2.2	482	67	595
OTHER.....	.3	128	18	158	8.96	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

Table 6. (Continued)  
Census Region: South

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	0.3	392	54	485	8.92	0.2	614	85	762
ELECTRICITY.....	1.9	357	49	439	8.91	1.5	417	58	513
FUEL OIL OR KEROSENE.....	.3	813	113	993	8.81	.3	831	115	1016
OTHER.....	.3	376	52	480	9.31	.3	404	55	517
<b>MAIN HEATING EQUIPMENT USING FUEL OIL</b>									
STEAM OR HOT WATER SYSTEM.....	.4	811	113	996	8.85	.4	811	113	996
CENTRAL WARM AIR FURNACE.....	.9	541	75	659	8.81	.9	541	75	659
OTHER/NONE.....	1.5	239	33	300	9.15	1.0	301	41	380
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.2	497	69	605	8.81	.9	609	84	742
<2,000 CDD AND <4,000 HDD.....	1.1	376	52	469	9.03	.8	454	63	567
>2,000 CDD AND <4,000 HDD.....	.5	254	35	322	9.17	.4	260	36	329

See footnotes at end of table.



Table 6. (Continued)  
Census Division: South  
Atlantic

## Average Residential Fuel Oil or Kerosene Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	2.5	416	58	515	8.95	2.0	490	68	606
AREA TYPE									
URBAN.....	1.1	440	61	549	9.02	.9	521	72	650
RURAL.....	1.4	397	55	487	8.89	1.1	465	64	570
SMSA									
SMSA.....	1.2	400	55	501	9.08	1.0	462	64	580
NON-SMSA.....	1.3	431	60	527	8.85	1.0	517	71	632
FUEL OIL PAID BY HOUSEHOLD									
YES.....	2.3	417	58	516	8.96	1.8	478	66	591
NO.....	.2	407	56	500	8.86	.1	678	94	833
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	2.2	418	58	517	8.96	1.8	481	67	596
2 OR MORE UNITS.....	.3	405	56	501	8.92	.2	560	78	693
NUMBER OF ROOMS									
1 TO 3.....	.2	432	60	540	9.03	.2	432	60	540
4 TO 5.....	1.2	376	52	464	8.96	1.0	434	60	537
6 OR MORE.....	1.1	459	64	568	8.93	.8	569	79	703
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.8	399	55	491	8.89	.6	499	69	614
SOME.....	.7	526	73	644	8.85	.6	558	77	684
NONE.....	1.0	354	49	444	9.10	.7	422	58	530
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	1.0	338	47	421	9.02	.9	376	52	469
1,000 TO 1,999.....	1.0	415	57	512	8.94	.8	522	72	645
2,000 OR MORE.....	.4	624	86	766	8.88	.3	718	99	882
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.5	523	72	651	9.02	0.4	612	85	762
1940 TO 1959.....	.8	360	50	447	8.97	.6	426	59	529
1960 OR LATER.....	1.1	408	56	502	8.90	.9	480	66	591
OWN/RENT									
OWN.....	1.6	442	61	545	8.94	1.4	504	70	622
RENT.....	.8	366	51	456	8.98	.6	459	63	571
1980 FAMILY INCOME									
LESS THAN \$10,000.....	1.0	396	55	486	8.90	.8	432	60	531
\$10,000 TO \$19,999.....	.8	388	53	485	9.07	.6	470	65	589
\$20,000 TO \$34,999.....	.5	510	71	634	8.98	.4	583	81	725
\$35,000 OR MORE.....	.3	398	55	482	8.76	.2	610	84	738
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.5	296	41	365	8.95	.3	346	48	425
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.6	332	46	410	8.94	.5	375	52	462
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.6	362	50	448	8.92	.4	463	64	575
35 TO 59 YEARS.....	1.0	384	53	473	8.92	.8	468	65	576
60 YEARS AND OVER.....	.9	486	67	603	8.99	.8	524	72	650
HOUSEHOLD MEMBERS									
1.....	.6	447	62	552	8.95	.5	523	72	646
2.....	1.0	403	56	496	8.92	.8	486	67	599
3 OR MORE.....	.9	410	57	510	8.99	.7	473	65	589
MAIN HEATING FUEL									
NATURAL GAS.....	.2	160	22	197	8.86	-	-	-	-
ELECTRICITY.....	.1	110	15	135	8.86	-	-	-	-
FUEL OIL OR KEROSENE.....	2.0	490	68	606	8.95	2.0	490	68	606
OTHER.....	.3	130	18	160	8.96	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

Table 6. (Continued)  
Census Division: South Atlantic

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	0.3	397	55	492	8.93	0.2	614	85	762
ELECTRICITY.....	1.6	357	49	441	8.95	1.3	418	58	516
FUEL OIL OR KEROSENE.....	.3	813	113	993	8.81	.3	831	115	1016
OTHER.....	.3	373	51	476	9.32	.2	401	55	513
<b>MAIN HEATING EQUIPMENT USING FUEL OIL</b>									
STEAM OR HOT WATER SYSTEM.....	.4	811	113	996	8.85	.4	811	113	996
CENTRAL WARM AIR FURNACE.....	.7	556	77	680	8.84	.7	556	77	680
OTHER/NONE.....	1.4	241	33	304	9.17	.9	302	41	383
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.1	501	69	613	8.84	.8	634	88	776
<2,000 CDD AND <4,000 HDD.....	.9	394	54	493	9.05	.7	471	65	588
>2,000 CDD AND <4,000 HDD.....	.5	259	36	328	9.17	.4	260	36	329

See footnotes at end of table.



**Table 6. (Continued)**  
**Census Division: East South**  
**Central**

# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	0.3	362	50	434	8.69	0.2	409	56	489
AREA TYPE									
URBAN.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
RURAL.....	.2	345	47	413	8.70	.2	394	54	471
SMSA									
SMSA.....	.1	287	40	344	8.68	Q	Q	Q	Q
NON-SMSA.....	.2	390	54	466	8.69	.2	404	56	483
FUEL OIL PAID BY HOUSEHOLD									
YES.....	.3	362	50	434	8.69	.2	409	56	489
NO.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	.3	362	50	434	8.69	.2	409	56	489
2 OR MORE UNITS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
4 TO 5.....	.1	360	50	429	8.66	.1	360	50	429
6 OR MORE.....	.1	372	51	445	8.68	.1	479	66	570
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.1	367	51	442	8.70	.1	465	64	559
SOME.....	.1	298	41	359	8.81	.1	298	41	359
NONE.....	.1	395	54	469	8.62	.1	429	59	506
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	.1	352	48	428	8.86	.1	352	48	428
1,000 TO 1,999.....	.1	361	50	424	8.51	.1	410	57	479
2,000 OR MORE.....	.1	380	53	458	8.69	Q	Q	Q	Q
YEAR HOUSE BUILT									
1939 OR EARLIER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1940 TO 1959.....	0.1	389	54	464	8.66	0.1	435	60	518
1960 OR LATER.....	.1	312	43	374	8.68	.1	363	50	433
OWN/RENT									
OWN.....	.2	388	54	464	8.67	.2	426	59	509
RENT.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.1	350	48	421	8.75	.1	358	49	430
\$10,000 TO \$19,999.....	.1	352	49	416	8.57	.1	407	56	479
\$20,000 TO \$34,999.....	.1	448	62	538	8.66	Q	Q	Q	Q
\$35,000 OR MORE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.1	367	51	444	8.77	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.1	364	50	439	8.79	.1	374	51	451
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
35 TO 59 YEARS.....	.2	353	49	422	8.67	.1	440	61	524
60 YEARS AND OVER.....	.1	427	59	511	8.69	.1	427	59	511
HOUSEHOLD MEMBERS									
1.....	.1	346	48	410	8.59	Q	Q	Q	Q
2.....	.1	416	57	498	8.71	.1	434	60	520
3 OR MORE.....	.1	322	44	387	8.71	.1	385	53	462
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	.2	409	56	489	8.67	.2	409	56	489
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

Table 6. (Continued)  
Census Division: East South  
Central

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	0.3	358	49	429	8.68	0.2	406	56	484
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING FUEL OIL</b>									
STEAM OR HOT WATER SYSTEM.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
CENTRAL WARM AIR FURNACE.....	.1	472	65	561	8.60	.1	472	65	561
OTHER/NONE.....	.1	231	32	283	8.89	.1	285	39	347
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.2	464	64	551	8.61	.1	475	65	563
<2,000 CDD AND <4,000 HDD.....	.1	214	30	264	8.93	.1	263	36	325
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.





Table 6. (Continued)  
Census Division: West South  
Central

# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED				FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL				
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
AREA TYPE									
URBAN.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
RURAL.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
SMSA									
SMSA.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NON-SMSA.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
FUEL OIL PAID BY HOUSEHOLD									
YES.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NO.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	Q	Q	Q	Q	Q	Q	Q	Q	Q
2 OR MORE UNITS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
4 TO 5.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
6 OR MORE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
SOME.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NONE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1,000 TO 1,999.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
2,000 OR MORE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
YEAR HOUSE BUILT									
1939 OR EARLIER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1940 TO 1959.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1960 OR LATER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OWN/RENT									
OWN.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
RENT.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1980 FAMILY INCOME									
LESS THAN \$10,000.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
\$10,000 TO \$19,999.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
\$20,000 TO \$34,999.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
\$35,000 OR MORE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
35 TO 59 YEARS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
60 YEARS AND OVER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
HOUSEHOLD MEMBERS									
1.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
2.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
3 OR MORE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

Table 6. (Continued)  
Census Division: West South  
Central

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING FUEL OIL</b>									
STEAM OR HOT WATER SYSTEM.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
CENTRAL WARM AIR FURNACE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER/NONE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



Table 6. (Continued)  
Census Region: West

## Average Residential Fuel Oil or Kerosene Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	0.5	452	63	548	8.76	0.4	504	70	611
AREA TYPE									
URBAN.....	.4	492	68	598	8.77	.3	518	72	629
RURAL.....	.2	373	52	450	8.72	.1	465	64	559
SMSA									
SMSA.....	.4	473	66	573	8.74	.3	503	70	609
NON-SMSA.....	.2	398	55	483	8.80	.1	506	70	615
FUEL OIL PAID BY HOUSEHOLD									
YES.....	.5	458	63	554	8.75	.4	505	70	611
NO.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	.5	455	63	552	8.75	.4	503	70	609
2 OR MORE UNITS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
4 TO 5.....	.3	416	57	504	8.76	.2	500	69	605
6 OR MORE.....	.3	510	71	617	8.74	.2	519	72	629
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
SOME.....	.1	404	56	485	8.66	Q	Q	Q	Q
NONE.....	.4	456	63	554	8.77	.4	520	72	632
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	.1	317	44	387	8.85	.1	457	63	559
1,000 TO 1,999.....	.2	483	67	584	8.72	.2	485	67	585
2,000 OR MORE.....	.2	525	73	637	8.77	.1	567	78	688
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.2	408	56	496	8.79	0.1	475	66	577
1940 TO 1959.....	.2	505	70	615	8.78	.2	550	76	668
1960 OR LATER.....	.1	408	57	488	8.62	.1	436	61	520
OWN/RENT									
OWN.....	.4	461	64	558	8.74	.3	508	70	613
RENT.....	.1	424	59	519	8.82	.1	494	69	605
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.1	506	70	605	8.65	.1	549	76	657
\$10,000 TO \$19,999.....	.2	353	49	432	8.87	.2	419	58	515
\$20,000 TO \$34,999.....	.1	420	58	516	8.85	.1	457	63	562
\$35,000 OR MORE.....	.1	631	87	755	8.64	.1	758	105	897
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.1	481	67	578	8.68	.1	547	76	659
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.1	459	64	563	8.84	.1	476	66	583
35 TO 59 YEARS.....	.2	437	61	527	8.71	.1	451	63	542
60 YEARS AND OVER.....	.3	461	64	559	8.76	.2	552	76	669
HOUSEHOLD MEMBERS									
1.....	.1	509	71	605	8.57	.1	581	81	692
2.....	.2	445	61	543	8.83	.2	511	71	623
3 OR MORE.....	.2	434	60	528	8.77	.2	465	64	565
MAIN HEATING FUEL									
NATURAL GAS.....	.1	391	54	481	8.87	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	.4	504	70	611	8.75	.4	504	70	611
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



## Average Residential Fuel Oil or Kerosene Consumption and Expenditures

Table 6. (Continued)  
Census Region: West

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	0.1	377	52	464	8.87	Q	Q	Q	Q
ELECTRICITY.....	.4	472	65	570	8.73	0.4	506	70	612
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING FUEL OIL</b>									
STEAM OR HOT WATER SYSTEM.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
CENTRAL WARM AIR FURNACE.....	.3	477	66	574	8.69	.3	477	66	574
OTHER/NONE.....	.2	316	44	390	8.95	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.1	433	60	516	8.63	.1	463	64	553
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.4	477	66	577	8.75	.3	511	71	620
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



Table 6. (Continued)  
Census Division: Mountain

## Average Residential Fuel Oil or Kerosene Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	0.1	456	63	548	8.68	0.1	456	63	543
AREA TYPE									
URBAN.....	.1	462	64	558	8.74	Q	Q	Q	Q
RURAL.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
SMSA									
SMSA.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NON-SMSA.....	.1	445	61	530	8.63	Q	Q	Q	Q
FUEL OIL PAID BY HOUSEHOLD									
YES.....	.1	456	63	548	8.68	.1	456	63	543
NO.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	.1	456	63	548	8.68	.1	456	63	543
2 OR MORE UNITS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
4 TO 5.....	.1	413	57	491	8.62	Q	Q	Q	Q
6 OR MORE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
SOME.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NONE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1,000 TO 1,999.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
2,000 OR MORE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
YEAR HOUSE BUILT									
1939 OR EARLIER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1940 TO 1959.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1960 OR LATER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OWN/RENT									
OWN.....	0.1	464	64	556	8.68	Q	Q	Q	Q
RENT.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1980 FAMILY INCOME									
LESS THAN \$10,000.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
\$10,000 TO \$19,999.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
\$20,000 TO \$34,999.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
\$35,000 OR MORE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
35 TO 59 YEARS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
60 YEARS AND OVER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
HOUSEHOLD MEMBERS									
1.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
2.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
3 OR MORE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	.1	456	63	543	8.62	0.1	456	63	543
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

Table 6. (Continued)  
Census Division: Mountain

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	0.1	441	61	523	8.60	0.1	456	63	543
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING FUEL OIL</b>									
STEAM OR HOT WATER SYSTEM.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
CENTRAL WARM AIR FURNACE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER/NONE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.1	441	61	523	8.60	.1	456	63	543
<2,000 CDD AND 4,000 TO 5,499 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

Table 6. (Continued)  
Census Division: Pacific

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	0.5	451	62	548	8.77	0.4	511	71	621
AREA TYPE									
URBAN.....	.3	498	69	606	8.77	.3	528	73	643
RURAL.....	.2	363	50	439	8.76	.1	460	63	554
SMSA									
SMSA.....	.4	472	65	572	8.74	.3	506	70	613
NON-SMSA.....	.1	374	52	459	8.90	.1	535	74	658
FUEL OIL PAID BY HOUSEHOLD									
YES.....	.4	458	63	556	8.76	.3	513	71	622
NO.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	.4	455	63	552	8.76	.3	511	71	620
2 OR MORE UNITS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
4 TO 5.....	.2	416	58	507	8.80	.1	503	70	611
6 OR MORE.....	.2	506	70	612	8.74	.2	530	74	643
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
SOME.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NONE.....	.4	458	63	556	8.77	.3	523	72	635
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	.1	301	41	368	8.91	.1	480	66	587
1,000 TO 1,999.....	.2	480	67	581	8.72	.2	492	68	594
2,000 OR MORE.....	.1	528	73	643	8.78	.1	560	78	682
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.2	410	57	500	8.83	0.1	481	66	587
1940 TO 1959.....	.2	516	72	629	8.79	.2	560	78	683
1960 OR LATER.....	.1	381	53	454	8.58	.1	437	61	519
OWN/RENT									
OWN.....	.3	461	64	558	8.75	.3	515	71	623
RENT.....	.1	426	59	521	8.83	.1	503	70	616
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.1	502	70	603	8.66	.1	566	78	679
\$10,000 TO \$19,999.....	.2	351	48	431	8.90	.1	419	58	515
\$20,000 TO \$34,999.....	.1	449	62	554	8.88	.1	472	65	581
\$35,000 OR MORE.....	.1	608	84	725	8.60	.1	758	105	897
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.1	507	70	610	8.67	.1	591	82	710
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.1	462	64	566	8.84	.1	480	67	588
35 TO 59 YEARS.....	.2	431	60	519	8.69	.1	457	63	549
60 YEARS AND OVER.....	.2	461	64	562	8.80	.2	562	78	684
HOUSEHOLD MEMBERS									
1.....	.1	551	76	655	8.58	.1	630	87	749
2.....	.2	435	60	533	8.85	.1	501	69	614
3 OR MORE.....	.2	429	60	523	8.78	.2	476	66	579
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	.4	511	71	621	8.77	.4	511	71	621
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Fuel Oil or Kerosene Consumption and Expenditures

Table 6. (Continued)  
Census Division: Pacific

HOUSEHOLD CHARACTERISTICS	ANY FUEL OIL OR KEROSENE USED					FUEL OIL OR KEROSENE USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	0.1	334	46	410	8.87	Q	Q	Q	Q
ELECTRICITY.....	.4	478	66	579	8.75	0.3	515	71	624
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING FUEL OIL</b>									
STEAM OR HOT WATER SYSTEM.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
CENTRAL WARM AIR FURNACE.....	.3	478	66	577	8.70	.3	478	66	577
OTHER/NOHE.....	.1	278	38	346	9.03	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.4	477	66	577	8.75	.3	511	71	620
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

"-" = DATA NOT APPLICABLE.

"Q" = DATA WITHHELD BECAUSE OF A LARGE VARIANCE.

NOTE: BECAUSE OF ROUNDING, DATA MAY NOT SUM TO TOTALS. PERCENTAGES ARE CALCULATED ON UNROUNDED NUMBERS. SEE GLOSSARY FOR DEFINITION OF TERMS USED IN THIS REPORT.

SOURCE: ENERGY INFORMATION ADMINISTRATION, OFFICE OF ENERGY MARKETS AND END USE, ENERGY END USE DIVISION, FORM EIA-457, THE 1981 RESIDENTIAL ENERGY CONSUMPTION SURVEY.





**Table 7. U.S. Average Residential Liquefied Petroleum Gas Consumption and Expenditures—April 1981 Through March 1982, United States**

# Average Residential Liquefied Petroleum Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	7.3	467	43	373	8.74	3.7	729	67	555
AREA TYPE									
URBAN.....	1.3	305	28	267	9.58	.6	454	41	373
RURAL.....	6.0	502	46	395	8.63	3.1	787	72	593
SMSA									
SMSA.....	2.1	431	39	371	9.44	1.2	621	57	517
NON-SMSA.....	5.2	482	44	373	8.49	2.5	778	71	572
LPG PAID BY HOUSEHOLD									
YES.....	7.2	467	43	373	8.75	3.6	737	67	561
NO.....	.2	467	43	357	8.36	.1	541	49	407
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	7.2	469	43	374	8.73	3.7	727	66	553
2 OR MORE UNITS.....	.2	371	34	323	9.53	q	q	q	q
NUMBER OF ROOMS									
1 TO 3.....	.9	244	22	212	9.53	.4	394	36	323
4 TO 5.....	3.6	408	37	329	8.84	1.9	593	54	453
6 OR MORE.....	2.8	612	56	478	8.56	1.4	1000	91	753
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	2.1	470	43	367	8.55	1.4	635	58	480
SOME.....	1.6	554	51	435	8.59	1.0	802	73	608
NONE.....	3.7	429	39	350	8.94	1.4	772	71	592
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	2.9	329	30	272	9.04	1.4	502	46	392
1,000 TO 1,999.....	3.1	563	51	453	8.82	1.8	801	73	622
2,000 OR MORE.....	1.3	550	50	410	8.17	.5	1129	103	784
YEAR HOUSE BUILT									
1939 OR EARLIER.....	2.6	575	53	451	8.59	1.2	991	91	742
1940 TO 1959.....	1.2	340	31	287	9.24	.5	561	51	439
1960 OR LATER.....	3.6	430	39	344	8.77	2.0	613	56	471
OWN/RENT									
OWN.....	5.8	482	44	383	8.71	2.9	758	69	573
RENT.....	1.6	411	38	334	8.90	.8	620	57	486
1980 FAMILY INCOME									
LESS THAN \$10,000.....	2.7	416	38	331	8.72	1.3	655	60	498
\$10,000 TO \$19,999.....	2.0	486	44	384	8.64	1.0	763	70	578
\$20,000 TO \$34,999.....	1.9	432	39	365	9.24	1.0	661	60	531
\$35,000 OR MORE.....	.7	688	63	514	8.18	.4	1036	95	733
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.4	369	34	304	9.03	.7	548	50	436
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	2.0	404	37	324	8.77	1.0	621	57	477
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	1.8	439	40	343	8.56	.9	641	59	477
35 TO 59 YEARS.....	3.0	487	45	392	8.81	1.4	820	75	624
60 YEARS AND OVER.....	2.5	463	42	371	8.78	1.3	692	63	534
HOUSEHOLD MEMBERS									
1.....	1.1	338	31	282	9.13	.6	509	47	407
2.....	2.7	453	41	359	8.69	1.4	677	62	507
3 OR MORE.....	3.6	517	47	411	8.70	1.7	855	78	650
MAIN HEATING FUEL									
NATURAL GAS.....	q	q	q	q	q	-	-	-	-
ELECTRICITY.....	.3	162	15	163	10.99	-	-	-	-
FUEL OIL OR KEROSENE.....	1.5	133	12	142	11.72	-	-	-	-
OTHER.....	5.4	581	53	452	8.51	3.7	729	67	555

See footnotes at end of table.



# Average Residential Liquefied Petroleum Gas Consumption and Expenditures

Table 7. (Continued)  
United States

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	3.4	352	32	296	9.20	1.7	549	50	443
FUEL OIL OR KEROSENE.....	.4	89	8	109	13.42	Q	Q	Q	Q
OTHER.....	3.6	614	56	473	8.43	2.0	891	81	655
<b>MAIN HEATING EQUIPMENT USING LPG</b>									
CENTRAL WARM AIR FURNACE.....	1.9	762	70	580	8.34	1.9	762	70	580
OTHER/NONE.....	5.4	363	33	300	9.04	1.8	694	63	528
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	1.6	423	39	335	8.67	.4	1006	92	724
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.2	653	60	512	8.59	.5	1314	120	991
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.4	484	44	376	8.52	.6	921	84	655
<2,000 CDD AND <4,000 HDD.....	1.6	500	46	405	8.88	1.1	634	58	503
>2,000 CDD AND <4,000 HDD.....	1.7	331	30	276	9.14	1.2	391	36	318

See footnotes at end of table.



Table 7. (Continued)  
Census Region: Northeast

## Average Residential Liquefied Petroleum Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	1.2	262	24	252	10.52	0.1	1224	112	1047
AREA TYPE									
URBAN.....	.3	122	11	131	11.79	Q	Q	Q	Q
RURAL.....	.9	303	28	286	10.37	.1	1224	112	1047
SMSA									
SMSA.....	.5	371	34	336	9.91	.1	1404	128	1185
NON-SMSA.....	.6	168	15	179	11.66	Q	Q	Q	Q
LPG PAID BY HOUSEHOLD									
YES.....	1.1	246	22	243	10.79	.1	1215	111	1085
NO.....	.1	587	54	438	8.18	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	1.0	245	22	240	10.73	.1	1293	116	1145
2 OR MORE UNITS.....	.2	361	33	319	9.68	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	.1	230	21	255	12.14	Q	Q	Q	Q
4 TO 5.....	.5	172	16	175	11.11	Q	Q	Q	Q
6 OR MORE.....	.6	344	31	316	10.05	.1	1584	145	1296
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.2	81	7	93	12.58	Q	Q	Q	Q
SOME.....	.2	533	49	477	9.81	.1	1124	103	959
NONE.....	.8	243	22	237	10.71	Q	Q	Q	Q
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	.3	223	20	227	11.16	Q	Q	Q	Q
1,000 TO 1,999.....	.5	389	36	352	9.93	.1	1584	145	1296
2,000 OR MORE.....	.3	117	11	130	12.18	Q	Q	Q	Q
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.5	356	32	332	10.20	0.1	1262	115	1073
1940 TO 1959.....	.2	113	10	132	12.83	Q	Q	Q	Q
1960 OR LATER.....	.5	219	20	213	10.64	Q	Q	Q	Q
OWN/RENT									
OWN.....	1.0	207	19	208	11.01	Q	Q	Q	Q
RENT.....	.2	563	51	491	9.54	.1	1262	115	1073
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.2	226	21	219	10.61	Q	Q	Q	Q
\$10,000 TO \$19,999.....	.3	314	29	292	10.18	Q	Q	Q	Q
\$20,000 TO \$34,999.....	.5	221	20	226	11.18	Q	Q	Q	Q
\$35,000 OR MORE.....	.1	352	32	305	9.49	Q	Q	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.1	305	28	275	9.86	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.1	283	26	257	9.94	Q	Q	Q	Q
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.4	373	34	338	9.94	.1	1258	115	1025
35 TO 59 YEARS.....	.5	224	20	225	11.03	Q	Q	Q	Q
60 YEARS AND OVER.....	.3	193	18	191	10.83	Q	Q	Q	Q
HOUSEHOLD MEMBERS									
1.....	.2	172	16	181	11.53	Q	Q	Q	Q
2.....	.3	209	19	215	11.27	Q	Q	Q	Q
3 OR MORE.....	.7	307	28	285	10.15	.1	1419	130	1166
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	.6	98	9	111	12.33	-	-	-	-
OTHER.....	.5	485	44	443	9.98	.1	1224	112	1047

See footnotes at end of table.



# Average Residential Liquefied Petroleum Gas Consumption and Expenditures

Table 7. (Continued)  
Census Region: Northeast

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	0.4	162	15	160	10.78	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	.3	89	8	103	12.76	Q	Q	Q	Q
OTHER.....	.4	474	43	440	10.15	0.1	1215	111	1085
<b>MAIN HEATING EQUIPMENT USING LPG</b>									
CENTRAL WARM AIR FURNACE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER/NONE.....	1.2	236	22	230	10.67	.1	1139	104	973
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	.5	195	18	204	11.43	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.6	345	32	314	9.97	.1	1286	117	1090
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.1	102	9	123	13.18	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



Table 7. (Continued)  
Census Division: New  
England

## Average Residential Liquefied Petroleum Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	0.5	181	17	187	11.32	Q	Q	Q	Q
AREA TYPE									
URBAN.....	.1	165	15	169	11.21	Q	Q	Q	Q
RURAL.....	.4	184	17	191	11.34	Q	Q	Q	Q
SHSA									
SHSA.....	.1	162	15	171	11.59	Q	Q	Q	Q
NON-SHSA.....	.4	186	17	191	11.25	Q	Q	Q	Q
LPG PAID BY HOUSEHOLD									
YES.....	.4	182	17	190	11.41	Q	Q	Q	Q
NO.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	.4	183	17	189	11.27	Q	Q	Q	Q
2 OR MORE UNITS.....	.1	168	15	178	11.55	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
4 TO 5.....	.2	183	17	180	10.77	Q	Q	Q	Q
6 OR MORE.....	.2	163	15	178	11.94	Q	Q	Q	Q
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
SOME.....	.1	250	23	263	11.51	Q	Q	Q	Q
NONE.....	.3	174	16	178	11.18	Q	Q	Q	Q
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	.1	168	15	170	11.08	Q	Q	Q	Q
1,000 TO 1,999.....	.2	209	19	215	11.24	Q	Q	Q	Q
2,000 OR MORE.....	.1	139	13	153	11.99	Q	Q	Q	Q
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.2	187	17	200	11.68	Q	Q	Q	Q
1940 TO 1959.....	.1	158	14	177	12.26	Q	Q	Q	Q
1960 OR LATER.....	.1	187	17	173	10.17	Q	Q	Q	Q
OWN/RENT									
OWN.....	.4	189	17	193	11.20	Q	Q	Q	Q
RENT.....	.1	149	14	162	11.91	Q	Q	Q	Q
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.1	156	14	163	11.42	Q	Q	Q	Q
\$10,000 TO \$19,999.....	.2	177	16	184	11.38	Q	Q	Q	Q
\$20,000 TO \$34,999.....	.1	201	18	199	10.82	Q	Q	Q	Q
\$35,000 OR MORE.....	.1	190	17	210	12.11	Q	Q	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.1	141	13	137	10.63	Q	Q	Q	Q
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.1	229	21	245	11.70	Q	Q	Q	Q
35 TO 59 YEARS.....	.2	155	14	155	10.95	Q	Q	Q	Q
60 YEARS AND OVER.....	.1	178	16	185	11.38	Q	Q	Q	Q
HOUSEHOLD MEMBERS									
1.....	.1	106	10	108	11.19	Q	Q	Q	Q
2.....	.2	264	24	273	11.31	Q	Q	Q	Q
3 OR MORE.....	.2	153	14	159	11.36	Q	Q	Q	Q
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	.3	108	10	115	11.72	-	-	-	-
OTHER.....	.2	270	25	274	11.12	Q	Q	Q	Q

See footnotes at end of table.



# Average Residential Liquefied Petroleum Gas Consumption and Expenditures

Table 7. (Continued)  
Census Division: New England

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	0.1	119	11	110	10.13	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	.2	98	9	115	12.80	Q	Q	Q	Q
OTHER.....	.2	262	24	267	11.14	Q	Q	Q	Q
<b>MAIN HEATING EQUIPMENT USING LPG</b>									
CENTRAL WARM AIR FURNACE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER/NONE.....	.5	181	17	187	11.32	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	.3	214	20	213	10.93	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.2	132	12	147	12.26	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	-	-	-	-	-	-	-	-	-
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



Table 7. (Continued)  
Census Division: Middle  
Atlantic

## Average Residential Liquefied Petroleum Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSE- HOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPEND- ITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSE- HOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPEND- ITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	0.7	315	29	294	10.22	0.1	1404	128	1185
AREA TYPE									
URBAN.....	.2	101	9	113	12.26	Q	Q	Q	Q
RURAL.....	.5	386	35	354	10.04	.1	1404	128	1185
SMSA									
SMSA.....	.4	416	38	371	9.77	.1	1404	128	1185
NON-SMSA.....	.3	144	13	163	12.39	Q	Q	Q	Q
LPG PAID BY HOUSEHOLD									
YES.....	.7	286	26	275	10.55	.1	1450	132	1279
NO.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	.6	283	26	272	10.51	.1	1450	132	1279
2 OR MORE UNITS.....	.1	538	49	449	9.13	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	.1	230	21	258	12.26	Q	Q	Q	Q
4 TO 5.....	.2	161	15	169	11.51	Q	Q	Q	Q
6 OR MORE.....	.4	420	38	374	9.75	.1	1584	145	1296
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.2	84	8	96	12.50	Q	Q	Q	Q
SOME.....	.1	785	72	668	9.32	.1	1200	110	1010
NONE.....	.5	295	27	283	10.50	Q	Q	Q	Q
MEASURED HEATED SPACE OF RESI- DENCE (IN SQUARE FEET)									
LESS THAN 999.....	.2	268	24	274	11.21	Q	Q	Q	Q
1,000 TO 1,999.....	.3	525	48	457	9.53	.1	1584	145	1296
2,000 OR MORE.....	.2	108	10	121	12.28	Q	Q	Q	Q
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.3	497	45	442	9.74	0.1	1361	124	1141
1940 TO 1959.....	.1	33	3	54	17.62	Q	Q	Q	Q
1960 OR LATER.....	.4	231	21	228	10.78	Q	Q	Q	Q
OWN/RENT									
OWN.....	.6	217	20	216	10.91	Q	Q	Q	Q
RENT.....	.1	980	90	822	9.18	.1	1361	124	1141
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.1	296	27	275	10.19	Q	Q	Q	Q
\$10,000 TO \$19,999.....	.2	428	39	382	9.77	Q	Q	Q	Q
\$20,000 TO \$34,999.....	.4	229	21	236	11.30	Q	Q	Q	Q
\$35,000 OR MORE.....	.1	552	50	422	8.38	Q	Q	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.1	378	34	337	9.77	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.1	378	34	337	9.77	Q	Q	Q	Q
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.2	443	40	384	9.49	Q	Q	Q	Q
35 TO 59 YEARS.....	.3	269	25	272	11.06	Q	Q	Q	Q
60 YEARS AND OVER.....	.1	206	19	196	10.41	Q	Q	Q	Q
HOUSEHOLD MEMBERS									
1.....	.1	260	24	278	11.71	Q	Q	Q	Q
2.....	.2	159	14	162	11.20	Q	Q	Q	Q
3 OR MORE.....	.5	379	35	343	9.93	.1	1584	145	1296
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	.4	92	8	108	12.81	-	-	-	-
OTHER.....	.3	648	59	569	9.63	.1	1404	128	1185

See footnotes at end of table.



# Average Residential Liquefied Petroleum Gas Consumption and Expenditures

Table 7. (Continued)  
Census Division: Middle Atlantic

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	0.3	174	16	173	10.90	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	.1	79	7	92	12.70	Q	Q	Q	Q
OTHER.....	.2	685	63	611	9.77	0.1	1450	132	1279
<b>MAIN HEATING EQUIPMENT USING LPG</b>									
CENTRAL WARM AIR FURNACE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER/NONE.....	.7	274	25	260	10.38	.1	1361	124	1141
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	.2	166	15	189	12.45	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.4	440	40	389	9.66	.1	1404	128	1185
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.1	102	9	123	13.18	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-

See footnotes at end of table.





Table 7. (Continued)  
Census Region: North Central

## Average Residential Liquefied Petroleum Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	2.1	667	61	487	7.98	1.0	1103	101	782
AREA TYPE									
URBAN.....	.2	622	57	466	8.20	.1	895	82	656
RURAL.....	1.9	671	61	488	7.97	.9	1128	103	797
SMSA									
SMSA.....	.3	784	72	643	8.98	.2	1265	116	1038
NON-SMSA.....	1.8	647	59	459	7.77	.9	1073	98	736
LPG PAID BY HOUSEHOLD									
YES.....	2.0	664	61	484	7.99	1.0	1106	101	784
NO.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	2.1	668	61	487	7.98	1.0	1111	102	788
2 OR MORE UNITS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	.3	322	29	249	8.47	.1	701	64	483
4 TO 5.....	.8	598	55	435	7.97	.4	942	86	663
6 OR MORE.....	1.0	819	75	594	7.94	.5	1288	118	919
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.5	702	64	482	7.52	.3	1053	96	702
SOME.....	.4	825	75	575	7.63	.3	1200	110	822
NONE.....	1.1	591	54	455	8.42	.4	1080	99	815
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	.7	453	41	334	8.07	.3	846	77	593
1,000 TO 1,999.....	.7	816	75	612	8.21	.5	1115	102	832
2,000 OR MORE.....	.6	743	68	516	7.61	.3	1390	127	919
YEAR HOUSE BUILT									
1939 OR EARLIER.....	1.0	764	70	560	8.03	0.5	1292	118	930
1940 TO 1959.....	.2	413	38	299	7.93	.1	954	87	620
1960 OR LATER.....	.9	628	57	455	7.94	.5	932	85	654
OWN/RENT									
OWN.....	1.7	712	65	515	7.93	.9	1168	107	824
RENT.....	.3	435	40	336	8.45	.1	660	60	495
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.8	485	44	351	7.91	.3	906	83	628
\$10,000 TO \$19,999.....	.6	685	63	502	8.03	.3	1149	105	817
\$20,000 TO \$34,999.....	.4	902	82	693	8.41	.2	1267	116	970
\$35,000 OR MORE.....	.3	833	76	568	7.46	.2	1214	111	804
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.3	371	34	273	8.06	.1	808	74	560
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.5	455	42	333	8.02	.2	873	80	612
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.5	614	56	435	7.76	.2	989	90	667
35 TO 59 YEARS.....	.9	746	68	553	8.13	.5	1245	114	902
60 YEARS AND OVER.....	.7	600	55	433	7.91	.4	985	90	693
HOUSEHOLD MEMBERS									
1.....	.2	592	54	421	7.78	.1	892	81	628
2.....	.8	564	52	403	7.82	.4	900	82	618
3 OR MORE.....	1.0	768	70	570	8.12	.5	1336	122	966
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	.4	163	15	146	9.81	-	-	-	-
OTHER.....	1.7	787	72	568	7.90	1.0	1103	101	782

See footnotes at end of table.



## Average Residential Liquefied Petroleum Gas Consumption and Expenditures

Table 7. (Continued)  
Census Region: North Central

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	0.9	473	43	377	8.72	0.3	1014	93	788
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	1.2	810	74	567	7.67	.7	1153	105	788
<b>MAIN HEATING EQUIPMENT USING LPG</b>									
CENTRAL WARM AIR FURNACE.....	.6	1180	108	851	7.89	.6	1180	108	851
OTHER/NONE.....	1.5	459	42	339	8.08	.4	995	91	686
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	1.1	484	44	369	8.34	.3	979	89	706
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.4	1060	97	780	8.06	.3	1439	131	1052
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.6	702	64	478	7.46	.4	939	86	630
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



Table 7. (Continued)  
Census Division: East North  
Central

## Average Residential Liquefied Petroleum Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSE- HOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPEND- ITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSE- HOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPEND- ITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	1.2	594	54	472	8.69	0.5	1164	106	903
AREA TYPE									
URBAN.....	.2	571	52	433	8.30	.1	818	75	604
RURAL.....	1.0	598	55	478	8.75	.4	1259	115	985
SMSA									
SMSA.....	.2	854	78	735	9.42	.1	1343	123	1155
NON-SMSA.....	1.0	536	49	412	8.43	.3	1099	100	812
LPG PAID BY HOUSEHOLD									
YES.....	1.2	595	54	473	8.70	.4	1186	108	920
NO.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	1.2	595	54	473	8.70	.4	1186	108	920
2 OR MORE UNITS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	.2	257	23	216	9.23	Q	Q	Q	Q
4 TO 5.....	.5	512	47	401	8.59	.2	903	82	683
6 OR MORE.....	.5	788	72	626	8.69	.2	1440	132	1136
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.2	455	42	351	8.44	.1	939	86	686
SOME.....	.2	813	74	606	8.17	.1	1245	114	919
NONE.....	.8	574	52	469	8.94	.3	1203	110	968
MEASURED HEATED SPACE OF RESI- DENCE (IN SQUARE FEET)									
LESS THAN 999.....	.5	365	33	288	8.64	.2	790	72	579
1,000 TO 1,999.....	.4	862	79	698	8.86	.2	1236	113	1004
2,000 OR MORE.....	.3	568	52	435	8.38	.1	1800	164	1300
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.5	729	67	591	8.89	0.2	1447	132	1166
1940 TO 1959.....	.1	173	16	150	9.47	Q	Q	Q	Q
1960 OR LATER.....	.5	559	51	428	8.38	.2	914	83	672
OWN/RENT									
OWN.....	1.0	626	57	496	8.68	.4	1278	117	988
RENT.....	.2	429	39	344	8.79	.1	632	58	507
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.5	335	31	268	8.77	.2	751	69	565
\$10,000 TO \$19,999.....	.4	679	62	522	8.43	.1	1303	119	978
\$20,000 TO \$34,999.....	.1	1140	104	1005	9.65	.1	1473	135	1306
\$35,000 OR MORE.....	.2	771	70	562	7.99	.1	1435	131	1009
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.2	248	23	204	9.01	.1	539	49	415
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.4	346	32	276	8.73	.1	725	66	550
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.2	595	54	439	8.07	.1	917	84	643
35 TO 59 YEARS.....	.5	678	62	561	9.06	.2	1447	132	1175
60 YEARS AND OVER.....	.4	490	45	381	8.52	.2	963	88	723
HOUSEHOLD MEMBERS									
1.....	.1	569	52	424	8.17	.1	891	81	657
2.....	.4	440	40	346	8.61	.1	887	81	673
3 OR MORE.....	.6	712	65	573	8.81	.3	1393	127	1099
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	.3	166	15	149	9.84	-	-	-	-
OTHER.....	.9	748	68	588	8.61	.5	1164	106	903

See footnotes at end of table.



# Average Residential Liquefied Petroleum Gas Consumption and Expenditures

Table 7. (Continued)  
Census Division: East North Central

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	0.5	432	39	375	9.51	0.2	1085	99	925
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.6	729	67	553	8.31	.3	1243	114	917
<b>MAIN HEATING EQUIPMENT USING LPG</b>									
CENTRAL WARM AIR FURNACE.....	.3	1247	114	988	8.68	.3	1247	114	988
OTHER/NONE.....	.9	392	36	312	8.71	.2	1040	95	776
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	.8	394	36	316	8.80	.2	856	78	654
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.2	1089	99	901	9.06	.1	1614	147	1330
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.1	1046	95	730	7.64	.1	1159	106	803
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



Table 7. (Continued)  
Census Division: West North  
Central

## Average Residential Liquefied Petroleum Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSE- HOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPEND- ITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSE- HOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPEND- ITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	0.9	762	70	506	7.27	0.6	1053	96	683
AREA TYPE									
URBAN.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
RURAL.....	.9	755	69	501	7.26	.6	1042	95	675
SMSA									
SMSA.....	.1	629	57	440	7.66	Q	Q	Q	Q
NON-SMSA.....	.8	778	71	514	7.23	.5	1057	97	687
LPG PAID BY HOUSEHOLD									
YES.....	.9	752	69	498	7.26	.6	1042	95	675
NO.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	.9	762	70	506	7.27	.6	1053	96	683
2 OR MORE UNITS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	.1	478	44	327	7.50	Q	Q	Q	Q
4 TO 5.....	.4	708	65	478	7.40	.2	975	89	646
6 OR MORE.....	.5	852	78	558	7.16	.3	1162	106	741
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.3	864	79	568	7.20	.2	1095	100	708
SOME.....	.2	835	76	549	7.20	.2	1166	106	750
NONE.....	.4	627	57	425	7.42	.2	904	83	596
MEASURED HEATED SPACE OF RESI- DENCE (IN SQUARE FEET)									
LESS THAN 999.....	.3	604	55	413	7.47	.2	901	82	608
1,000 TO 1,999.....	.3	757	69	501	7.25	.2	979	89	636
2,000 OR MORE.....	.3	903	83	592	7.17	.2	1259	115	798
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.4	807	74	523	7.09	0.3	1169	107	741
1940 TO 1959.....	.1	699	64	477	7.48	Q	Q	Q	Q
1960 OR LATER.....	.4	726	66	494	7.46	.2	950	87	637
OWN/RENT									
OWN.....	.8	823	75	541	7.19	.5	1087	99	704
RENT.....	.1	443	40	325	8.03	.1	706	64	475
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.3	748	68	495	7.24	.2	1041	95	683
\$10,000 TO \$19,999.....	.3	695	63	472	7.43	.1	1004	92	665
\$20,000 TO \$34,999.....	.2	767	70	516	7.37	.1	1112	102	716
\$35,000 OR MORE.....	.1	903	82	574	6.96	.1	1074	98	673
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.1	626	57	417	7.28	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.2	726	66	476	7.18	.1	1101	101	708
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.2	637	58	431	7.42	.1	1051	96	687
35 TO 59 YEARS.....	.4	832	76	544	7.16	.3	1091	100	694
60 YEARS AND OVER.....	.3	755	69	507	7.35	.2	1003	92	667
HOUSEHOLD MEMBERS									
1.....	.1	619	57	417	7.37	.1	892	81	592
2.....	.4	706	65	468	7.25	.3	906	83	591
3 OR MORE.....	.4	850	78	564	7.27	.2	1273	116	819
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	.1	149	14	131	9.64	-	-	-	-
OTHER.....	.8	828	76	546	7.22	.6	1053	96	683

See footnotes at end of table.



# Average Residential Liquefied Petroleum Gas Consumption and Expenditures

Table 7. (Continued)  
Census Division: West North Central

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	0.3	536	49	380	7.78	0.1	933	85	632
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.6	903	82	584	7.08	.4	1093	100	701
<b>MAIN HEATING EQUIPMENT USING LPG</b>									
CENTRAL WARM AIR FURNACE.....	.3	1122	103	733	7.15	.3	1122	103	733
OTHER/NONE.....	.6	562	51	380	7.40	.2	961	88	618
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	.2	810	74	557	7.52	.1	1194	109	796
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.2	1029	94	649	6.90	.2	1278	117	796
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.5	616	56	415	7.38	.3	864	79	571
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-	-	-	-	-

See footnotes at end of table.



Table 7. (Continued)  
Census Region: South

## Average Residential Liquefied Petroleum Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	3.4	390	36	327	9.20	2.1	505	46	407
AREA TYPE									
URBAN.....	.8	294	27	269	10.04	.5	354	32	312
RURAL.....	2.6	418	38	344	9.03	1.7	547	50	434
SMSA									
SMSA.....	1.1	338	31	294	9.52	.8	401	37	334
NON-SMSA.....	2.3	414	38	343	9.08	1.4	564	51	448
LPG PAID BY HOUSEHOLD									
YES.....	3.3	393	36	330	9.20	2.1	514	47	414
NO.....	.1	236	22	199	9.23	.1	214	20	184
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	3.4	390	36	327	9.20	2.1	505	46	407
2 OR MORE UNITS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	.4	180	16	166	10.13	.2	248	23	217
4 TO 5.....	2.0	382	35	321	9.19	1.3	478	44	384
6 OR MORE.....	1.0	492	45	408	9.07	.6	652	60	522
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	1.2	378	35	319	9.25	.9	444	41	367
SOME.....	.9	431	39	359	9.12	.6	592	54	474
NONE.....	1.3	373	34	314	9.22	.7	511	47	404
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	1.5	288	26	248	9.43	1.0	360	35	315
1,000 TO 1,999.....	1.6	475	43	395	9.10	1.1	601	55	479
2,000 OR MORE.....	.3	461	42	379	9.00	.1	644	59	502
YEAR HOUSE BUILT									
1939 OR EARLIER.....	1.0	491	45	400	8.93	0.6	703	64	545
1940 TO 1959.....	.6	317	29	274	9.47	.3	451	41	357
1960 OR LATER.....	1.8	357	33	304	9.33	1.3	432	39	359
OWN/RENT									
OWN.....	2.5	392	36	332	9.28	1.6	500	46	407
RENT.....	.9	383	35	314	8.96	.5	521	48	406
1980 FAMILY INCOME									
LESS THAN \$10,000.....	1.5	398	36	332	9.14	.9	540	49	437
\$10,000 TO \$19,999.....	.8	380	35	315	9.08	.5	490	45	392
\$20,000 TO \$34,999.....	.8	336	31	298	9.70	.6	398	36	335
\$35,000 OR MORE.....	.2	565	52	450	8.73	.1	805	74	581
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	1.0	364	33	310	9.32	.6	491	45	409
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	1.2	375	34	315	9.20	.7	512	47	417
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.8	376	34	300	8.73	.6	465	42	363
35 TO 59 YEARS.....	1.3	356	32	306	9.41	.7	477	44	382
60 YEARS AND OVER.....	1.3	432	39	366	9.28	.8	557	51	460
HOUSEHOLD MEMBERS									
1.....	.6	282	26	254	9.87	.4	384	35	330
2.....	1.3	427	39	353	9.04	.9	547	50	432
3 OR MORE.....	1.4	403	37	337	9.15	.9	518	47	417
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	.2	153	14	152	10.84	-	-	-	-
FUEL OIL OR KEROSENE.....	.5	154	14	177	12.57	-	-	-	-
OTHER.....	2.6	460	42	375	8.92	2.1	505	46	407

See footnotes at end of table.



# Average Residential Liquefied Petroleum Gas Consumption and Expenditures

Table 7. (Continued)  
Census Region: South

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	1.9	334	30	286	9.37	1.3	424	39	353
FUEL OIL OR KEROSENE.....	.1	88	8	131	16.42	Q	Q	Q	Q
OTHER.....	1.4	485	44	397	8.97	.8	637	58	496
<b>MAIN HEATING EQUIPMENT USING LPG</b>									
CENTRAL WARM AIR FURNACE.....	1.0	465	42	381	8.97	1.0	465	42	381
OTHER/NONE.....	2.4	357	33	305	9.33	1.1	541	49	431
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 5,500 TO 7,000 HDD.....	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.6	362	33	338	10.22	.1	941	86	765
<2,000 CDD AND <4,000 HDD.....	1.3	459	42	374	8.93	.8	594	54	474
>2,000 CDD AND <4,000 HDD.....	1.5	343	31	285	9.08	1.2	391	36	318

See footnotes at end of table.





Table 7. (Continued)  
Census Division: South  
Atlantic

## Average Residential Liquefied Petroleum Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSE- HOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPEND- ITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSE- HOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPEND- ITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	2.1	345	32	313	9.94	1.2	471	43	405
AREA TYPE									
URBAN.....	.7	258	24	248	10.50	.4	306	28	285
RURAL.....	1.5	385	35	344	9.76	.8	546	50	460
SMSA									
SMSA.....	.8	275	25	262	10.41	.5	327	30	298
NON-SMSA.....	1.3	389	36	346	9.73	.7	582	53	488
LPG PAID BY HOUSEHOLD									
YES.....	2.1	345	32	314	9.94	1.2	473	43	407
NO.....	Q	Q	Q	Q	Q	Q	Q	Q	0
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	2.1	345	32	313	9.94	1.2	471	43	405
2 OR MORE UNITS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	.3	129	12	138	11.73	.1	154	14	162
4 TO 5.....	1.2	330	30	299	9.94	.8	438	40	374
6 OR MORE.....	.6	472	43	419	9.72	.3	666	61	569
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.6	319	29	305	10.47	.4	399	36	370
SOME.....	.5	379	35	345	9.97	.3	583	53	501
NONE.....	1.0	344	31	302	9.60	.5	470	43	382
MEASURED HEATED SPACE OF RESI- DENCE (IN SQUARE FEET)									
LESS THAN 999.....	1.0	245	22	225	10.07	.6	331	30	290
1,000 TO 1,999.....	1.0	427	39	388	9.94	.6	586	53	505
2,000 OR MORE.....	.2	439	40	380	9.47	.1	622	57	497
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.6	467	43	405	9.50	0.3	787	72	642
1940 TO 1959.....	.3	208	19	219	11.52	.1	291	27	274
1960 OR LATER.....	1.2	317	29	290	9.99	.8	389	36	343
OWN/RENT									
OWN.....	1.5	365	33	335	10.04	.9	490	45	425
RENT.....	.6	297	27	260	9.61	.3	408	37	339
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.9	360	33	322	9.80	.5	551	50	476
\$10,000 TO \$19,999.....	.5	342	31	307	9.81	.3	438	40	373
\$20,000 TO \$34,999.....	.6	283	26	273	10.57	.4	332	30	304
\$35,000 OR MORE.....	.1	532	49	457	9.41	.1	908	83	672
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.6	328	30	295	9.84	.3	492	45	433
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.8	344	31	304	9.70	.4	529	48	452
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.5	361	33	295	8.95	.3	466	43	373
35 TO 59 YEARS.....	.9	305	28	286	10.26	.4	403	37	345
60 YEARS AND OVER.....	.8	380	35	354	10.21	.4	543	50	489
HOUSEHOLD MEMBERS									
1.....	.4	243	22	241	10.86	.2	387	35	360
2.....	.9	374	34	336	9.85	.5	509	47	431
3 OR MORE.....	.8	367	34	326	9.73	.5	466	43	397
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	.2	131	12	142	11.83	-	-	-	-
FUEL OIL OR KEROSENE.....	.5	156	14	185	12.93	-	-	-	-
OTHER.....	1.5	430	39	374	9.52	1.2	471	43	405

See footnotes at end of table.



# Average Residential Liquefied Petroleum Gas Consumption and Expenditures

Table 7. (Continued)  
Census Division: South Atlantic

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	1.3	312	28	281	9.86	0.9	406	37	352
FUEL OIL OR KEROSENE.....	.1	88	8	131	16.42	Q	Q	Q	Q
OTHER.....	.7	431	39	390	9.92	.3	664	61	562
<b>MAIN HEATING EQUIPMENT USING LPG</b>									
CENTRAL WARM AIR FURNACE.....	.7	425	39	367	9.44	.7	425	39	367
OTHER/NONE.....	1.5	308	28	288	10.26	.5	529	48	454
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 5,500 TO 7,000 HDD.....	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.5	396	36	378	10.45	.1	1106	101	911
<2,000 CDD AND <4,000 HDD.....	.9	421	38	362	9.42	.5	561	51	470
>2,000 CDD AND <4,000 HDD.....	.8	237	22	226	10.42	.6	277	25	257

See footnotes at end of table.



Table 7. (Continued)  
Census Division: East South  
Central

## Average Residential Liquefied Petroleum Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	0.6	428	39	327	8.37	0.3	582	53	435
AREA TYPE									
URBAN.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
RURAL.....	.6	413	38	317	8.40	.3	570	52	427
SMSA									
SMSA.....	.1	457	42	364	8.71	.1	535	49	420
NON-SMSA.....	.5	423	39	321	8.31	.3	594	54	439
LPG PAID BY HOUSEHOLD									
YES.....	.6	428	39	327	8.37	.3	582	53	435
NO.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	.6	428	39	327	8.37	.3	582	53	435
2 OR MORE UNITS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	.1	321	29	245	8.34	.1	459	42	341
4 TO 5.....	.3	450	41	347	8.44	.2	594	54	451
6 OR MORE.....	.2	447	41	337	8.26	.1	632	58	458
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.3	481	44	359	8.16	.2	591	54	431
SOME.....	.1	349	32	275	8.63	.1	499	46	385
NONE.....	.2	404	37	317	8.59	.1	628	57	481
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	.3	355	32	279	8.62	.2	512	47	393
1,000 TO 1,999.....	.2	499	46	373	8.17	.2	615	56	452
2,000 OR MORE.....	.1	525	48	395	8.24	Q	Q	Q	Q
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.1	392	36	297	8.29	0.1	453	41	339
1940 TO 1959.....	.1	526	48	394	8.20	.1	825	75	603
1960 OR LATER.....	.3	396	36	307	8.49	.2	541	49	409
OWN/RENT									
OWN.....	.5	423	39	324	8.38	.3	588	54	439
RENT.....	.1	468	43	355	8.31	Q	Q	Q	Q
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.3	399	36	306	8.41	.2	511	47	385
\$10,000 TO \$19,999.....	.1	395	36	301	8.36	.1	718	66	536
\$20,000 TO \$34,999.....	.1	523	48	395	8.28	.1	645	59	480
\$35,000 OR MORE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.2	443	40	340	8.40	.1	552	50	420
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.3	406	37	314	8.45	.2	517	47	393
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.1	291	27	231	8.67	.1	390	36	297
35 TO 59 YEARS.....	.2	423	39	324	8.39	.1	665	61	497
60 YEARS AND OVER.....	.2	492	45	372	8.28	.2	584	53	435
HOUSEHOLD MEMBERS									
1.....	.1	347	32	271	8.53	.1	405	37	317
2.....	.2	415	38	320	8.43	.1	532	49	399
3 OR MORE.....	.3	463	42	351	8.29	.1	699	64	516
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	.1	150	14	131	9.58	-	-	-	-
OTHER.....	.5	476	43	361	8.31	.3	582	53	435

See footnotes at end of table.



# Average Residential Liquefied Petroleum Gas Consumption and Expenditures

Table 7. (Continued)  
Census Division: East South Central

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	0.4	404	37	312	8.45	0.2	537	49	408
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.2	481	44	360	8.21	.1	726	66	523
<b>MAIN HEATING EQUIPMENT USING LPG</b>									
CENTRAL WARM AIR FURNACE.....	.1	545	50	417	8.38	.1	545	50	417
OTHER/NONE.....	.4	388	35	296	8.36	.2	612	56	450
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 5,500 TO 7,000 HDD.....	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.1	253	23	209	9.03	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	.3	522	48	396	8.31	.2	633	58	475
>2,000 CDD AND <4,000 HDD.....	.1	394	36	292	8.11	.1	476	43	348

See footnotes at end of table.



Table 7. (Continued)  
Census Division: West South  
Central

## Average Residential Liquefied Petroleum Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	0.7	499	46	373	8.20	0.6	532	49	395
AREA TYPE									
URBAN.....	.1	492	45	389	8.66	.1	492	45	389
RURAL.....	.6	499	46	372	8.15	.5	536	49	396
SMSA									
SMSA.....	.2	570	52	408	7.84	.2	570	52	408
NON-SMSA.....	.5	473	43	361	8.35	.4	515	47	390
LPG PAID BY HOUSEHOLD									
YES.....	.6	524	48	390	8.15	.5	564	51	417
NO.....	.1	207	19	179	9.47	.1	207	19	179
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	.7	499	46	373	8.20	.6	532	49	395
2 OR MORE UNITS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	.1	176	16	164	10.21	Q	Q	Q	Q
4 TO 5.....	.4	492	45	367	8.16	.4	502	46	373
6 OR MORE.....	.2	588	54	435	8.10	.2	634	58	467
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.3	412	38	312	8.30	.3	422	39	319
SOME.....	.2	591	54	436	8.09	.2	634	58	467
NONE.....	.2	512	47	384	8.22	.1	592	54	437
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	.3	374	34	299	8.76	.2	404	37	320
1,000 TO 1,999.....	.4	591	54	427	7.92	.3	620	57	447
2,000 OR MORE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.3	587	54	428	8.00	0.2	678	62	489
1940 TO 1959.....	.1	367	33	282	8.42	.1	367	33	282
1960 OR LATER.....	.3	471	43	359	8.35	.3	490	45	372
OWN/RENT									
OWN.....	.5	445	41	334	8.20	.4	463	42	345
RENT.....	.2	616	56	460	8.18	.2	686	63	509
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.3	516	47	390	8.28	.3	539	49	406
\$10,000 TO \$19,999.....	.2	468	43	346	8.09	.2	529	48	387
\$20,000 TO \$34,999.....	.1	428	39	331	8.48	.1	428	39	331
\$35,000 OR MORE.....	.1	648	59	460	7.77	.1	729	67	512
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.2	415	38	334	8.83	.2	441	40	354
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.2	448	41	354	8.64	.2	474	43	372
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.2	447	41	341	8.37	.2	484	44	366
35 TO 59 YEARS.....	.2	517	47	381	8.07	.2	543	50	398
60 YEARS AND OVER.....	.3	530	48	395	8.15	.2	565	52	419
HOUSEHOLD MEMBERS									
1.....	.1	367	34	286	8.52	.1	367	34	286
2.....	.2	628	57	442	7.70	.2	639	58	450
3 OR MORE.....	.3	449	41	354	8.64	.2	513	47	400
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	-	-	-	-
OTHER.....	.6	518	47	386	8.16	.6	532	49	395

See footnotes at end of table.



# Average Residential Liquefied Petroleum Gas Consumption and Expenditures

Table 7. (Continued)  
Census Division: West South  
Central

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	0.2	338	31	263	8.53	0.2	357	33	276
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.5	568	52	420	8.11	.4	601	55	443
<b>MAIN HEATING EQUIPMENT USING LPG</b>									
CENTRAL WARM AIR FURNACE.....	.2	547	50	403	8.08	.2	547	50	403
OTHER/NONE.....	.5	480	44	361	8.25	.4	525	48	392
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 5,500 TO 7,000 HDD.....	-	-	-	-	-	-	-	-	-
<2,000 CDD AND 4,000 TO 5,499 HDD.....	-	-	-	-	-	-	-	-	-
<2,000 CDD AND <4,000 HDD.....	.1	586	54	406	7.58	.1	724	66	490
>2,000 CDD AND <4,000 HDD.....	.6	483	44	368	8.32	.5	503	46	381

See footnotes at end of table.



Table 7. (Continued)  
Census Region: West

## Average Residential Liquefied Petroleum Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	0.7	589	54	458	8.50	0.4	833	76	629
AREA TYPE									
URBAN.....	.1	332	30	265	8.73	.1	424	39	328
RURAL.....	.6	630	58	488	8.48	.4	906	83	682
SMSA									
SMSA.....	.2	571	52	487	9.34	.1	633	58	520
NON-SMSA.....	.6	595	54	449	8.27	.3	927	85	676
LPG PAID BY HOUSEHOLD									
YES.....	.7	602	55	467	8.50	.4	872	80	657
NO.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	.7	589	54	458	8.50	.4	833	76	629
2 OR MORE UNITS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	.1	345	31	273	8.68	.1	392	36	305
4 TO 5.....	.4	420	38	335	8.73	.2	641	59	479
6 OR MORE.....	.3	875	80	666	8.34	.2	1079	99	815
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.2	808	74	627	8.50	.2	808	74	627
SOME.....	.1	461	42	397	9.42	.1	570	52	459
NONE.....	.4	521	48	398	8.36	.2	935	85	680
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	.4	348	32	286	9.00	.1	574	52	433
1,000 TO 1,999.....	.3	712	65	552	8.49	.2	856	78	661
2,000 OR MORE.....	.1	1122	102	819	7.99	.1	1122	102	819
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.1	652	60	486	8.16	0.1	936	86	682
1940 TO 1959.....	.2	511	47	440	9.44	.1	679	62	574
1960 OR LATER.....	.4	605	55	455	8.25	.2	878	80	638
OWN/RENT									
OWN.....	.5	673	61	522	8.49	.4	875	80	662
RENT.....	.2	345	32	271	8.58	.1	587	54	432
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.2	514	47	389	8.30	.1	928	85	655
\$10,000 TO \$19,999.....	.2	596	54	453	8.32	.1	844	77	624
\$20,000 TO \$34,999.....	.3	492	45	388	8.64	.2	669	61	510
\$35,000 OR MORE.....	.1	902	82	716	8.68	.1	1026	94	814
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.1	541	49	396	8.02	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.1	604	55	442	8.03	.1	961	88	681
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.2	406	37	313	8.45	.1	606	55	441
35 TO 59 YEARS.....	.3	718	66	557	8.49	.2	980	90	744
60 YEARS AND OVER.....	.2	577	53	453	8.58	.1	746	68	567
HOUSEHOLD MEMBERS									
1.....	.1	417	38	325	8.53	.1	446	41	345
2.....	.2	552	50	454	8.99	.1	864	79	668
3 OR MORE.....	.4	643	59	487	8.28	.2	948	87	705
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	-	-	-	-
OTHER.....	.7	607	55	468	8.44	.4	833	76	629

See footnotes at end of table.



# Average Residential Liquefied Petroleum Gas Consumption and Expenditures

Table 7. (Continued)  
Census Region: West

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	0.1	433	40	348	8.82	0.1	662	60	518
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.6	627	57	484	8.45	.3	871	80	653
<b>MAIN HEATING EQUIPMENT USING LPG</b>									
CENTRAL WARM AIR FURNACE.....	.3	878	80	661	8.24	.3	878	80	661
OTHER/NONE.....	.4	400	37	324	8.88	.1	742	68	563
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	.1	962	88	663	7.55	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.1	700	64	523	8.18	.1	892	81	658
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.1	367	34	287	8.57	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	.3	673	61	537	8.73	.3	759	69	595
>2,000 CDD AND <4,000 HDD.....	.1	192	18	183	10.46	Q	Q	Q	Q

See footnotes at end of table.





Table 7. (Continued)  
Census Division: Mountain

## Average Residential Liquefied Petroleum Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	0.2	775	71	561	7.92	0.1	993	91	710
AREA TYPE									
URBAN.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
RURAL.....	.2	775	71	561	7.92	.1	993	91	710
SMSA									
SMSA.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NON-SMSA.....	.2	785	72	568	7.91	.1	1020	93	728
LPG PAID BY HOUSEHOLD									
YES.....	.2	787	72	569	7.91	.1	993	91	710
NO.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	.2	775	71	561	7.92	.1	993	91	710
2 OR MORE UNITS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
4 TO 5.....	.1	624	57	455	7.97	.1	691	63	502
6 OR MORE.....	.1	1340	122	951	7.77	Q	Q	Q	Q
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
SOME.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NONE.....	.2	804	73	580	7.90	.1	1077	98	766
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	.1	559	51	410	8.03	.1	679	62	491
1,000 TO 1,999.....	.1	760	69	545	7.84	Q	Q	Q	Q
2,000 OR MORE.....	.1	1169	107	841	7.88	.1	1169	107	841
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.1	905	83	662	8.01	0.1	1142	104	827
1940 TO 1959.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
1960 OR LATER.....	.1	720	66	519	7.89	.1	875	80	622
OWN/RENT									
OWN.....	.1	870	79	624	7.86	.1	1122	102	798
RENT.....	.1	578	53	428	8.12	Q	Q	Q	Q
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.1	517	47	379	8.02	Q	Q	Q	Q
\$10,000 TO \$19,999.....	.1	866	79	622	7.87	Q	Q	Q	Q
\$20,000 TO \$34,999.....	.1	1030	94	746	7.93	Q	Q	Q	Q
\$35,000 OR MORE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	.1	614	56	445	7.93	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	.1	507	46	374	8.07	Q	Q	Q	Q
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.1	587	54	430	8.02	.1	697	64	500
35 TO 59 YEARS.....	.1	803	73	570	7.77	Q	Q	Q	Q
60 YEARS AND OVER.....	.1	1101	101	802	7.98	Q	Q	Q	Q
HOUSEHOLD MEMBERS									
1.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
2.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
3 OR MORE.....	.2	756	69	547	7.92	.1	1036	95	739
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	-	-	-	-
OTHER.....	.2	787	72	569	7.91	.1	993	91	710

See footnotes at end of table.



# Average Residential Liquefied Petroleum Gas Consumption and Expenditures

Table 7. (Continued)  
Census Division: Mountain

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	0.2	789	72	567	7.87	0.1	1082	99	766
<b>MAIN HEATING EQUIPMENT USING LPG</b>									
CENTRAL WARM AIR FURNACE.....	.1	988	90	709	7.85	.1	988	90	709
OTHER/NONE.....	.1	619	57	453	8.00	Q	Q	Q	Q
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	.1	941	86	645	7.51	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.1	714	65	533	8.17	.1	929	85	684
<2,000 CDD AND 4,000 TO 5,499 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q

See footnotes at end of table.



Table 7. (Continued)  
Census Division: Pacific

## Average Residential Liquefied Petroleum Gas Consumption and Expenditures

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
TOTAL HOUSEHOLDS.....	0.5	508	46	412	8.89	0.3	754	69	588
AREA TYPE									
URBAN.....	.1	332	30	265	8.73	.1	424	39	328
RURAL.....	.4	550	50	448	8.91	.2	850	78	665
SMSA									
SMSA.....	.2	578	53	494	9.37	.1	644	59	538
NON-SMSA.....	.3	477	44	376	8.64	.2	845	77	631
LPG PAID BY HOUSEHOLD									
YES.....	.5	517	47	421	8.91	.2	804	73	628
NO.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TYPE OF HOUSING STRUCTURE									
SINGLE FAMILY OR MOBILE HOME..	.5	508	46	412	8.89	.3	754	69	588
2 OR MORE UNITS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
NUMBER OF ROOMS									
1 TO 3.....	.1	354	32	279	8.65	Q	Q	Q	Q
4 TO 5.....	.2	298	27	264	9.69	.1	565	52	445
6 OR MORE.....	.2	753	69	592	8.61	.2	916	84	714
NUMBER OF ROOMS THAT CAN BE AIR CONDITIONED									
ALL.....	.2	832	76	646	8.50	.2	832	76	646
SOME.....	.1	466	43	406	9.54	Q	Q	Q	Q
NONE.....	.3	297	27	254	9.36	.1	661	60	511
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)									
LESS THAN 999.....	.3	261	24	235	9.86	.1	468	43	375
1,000 TO 1,999.....	.2	698	64	554	8.68	.2	783	72	617
2,000 OR MORE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
YEAR HOUSE BUILT									
1939 OR EARLIER.....	0.1	401	37	311	8.49	Q	Q	Q	Q
1940 TO 1959.....	.2	494	45	438	9.72	0.1	644	59	555
1960 OR LATER.....	.3	548	50	424	8.48	.1	880	80	648
OWN/RENT									
OWN.....	.4	598	55	482	8.84	.3	784	72	612
RENT.....	.1	197	18	170	9.46	Q	Q	Q	Q
1980 FAMILY INCOME									
LESS THAN \$10,000.....	.1	510	47	401	8.62	Q	Q	Q	Q
\$10,000 TO \$19,999.....	.1	447	41	360	8.81	.1	704	64	537
\$20,000 TO \$34,999.....	.2	341	31	268	9.25	.1	473	43	378
\$35,000 OR MORE.....	.1	909	83	729	8.78	.1	999	91	801
TOTAL BELOW 100 PERCENT OF POVERTY LINE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
TOTAL BELOW 125 PERCENT OF POVERTY LINE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
AGE OF HOUSEHOLD HEAD									
UNDER 35 YEARS.....	.1	253	23	215	9.29	Q	Q	Q	Q
35 TO 59 YEARS.....	.2	695	63	553	8.72	.2	930	85	722
60 YEARS AND OVER.....	.1	372	34	315	9.29	.1	502	46	404
HOUSEHOLD MEMBERS									
1.....	.1	339	31	267	8.64	.1	370	34	288
2.....	.2	460	42	402	9.58	.1	744	68	607
3 OR MORE.....	.3	577	53	452	8.57	.1	898	82	686
MAIN HEATING FUEL									
NATURAL GAS.....	Q	Q	Q	Q	Q	-	-	-	-
ELECTRICITY.....	Q	Q	Q	Q	Q	-	-	-	-
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	-	-	-	-
OTHER.....	.5	526	48	423	8.81	.3	754	69	588

See footnotes at end of table.



# Average Residential Liquefied Petroleum Gas Consumption and Expenditures

Table 7. (Continued)  
Census Division: Pacific

HOUSEHOLD CHARACTERISTICS	ANY LIQUEFIED PETROLEUM GAS USED					LIQUEFIED PETROLEUM GAS USED AS MAIN HEATING FUEL			
	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)	AVG. PRICE (DOLLARS PER MILLION BTU)	NUMBER OF HOUSEHOLDS (MILLIONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (GALLONS)	AVG. AMOUNT CONSUMED PER HOUSEHOLD (MILLION BTU)	AVG. EXPENDITURES PER HOUSEHOLD (DOLLARS)
<b>HOT WATER FUEL</b>									
NATURAL GAS.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
ELECTRICITY.....	0.1	277	25	248	9.78	Q	Q	Q	Q
FUEL OIL OR KEROSENE.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
OTHER.....	.4	558	51	449	8.79	0.2	785	72	608
<b>MAIN HEATING EQUIPMENT USING LPG</b>									
CENTRAL WARM AIR FURNACE.....	.2	825	75	638	8.47	.2	825	75	638
OTHER/NONE.....	.3	309	28	271	9.60	.1	605	55	485
<b>HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE</b>									
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	Q	Q	Q	Q	Q	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.1	297	27	239	8.81	Q	Q	Q	Q
<2,000 CDD AND <4,000 HDD.....	.3	678	62	541	8.73	.3	767	70	602
>2,000 CDD AND <4,000 HDD.....	.1	192	18	183	10.46	Q	Q	Q	Q

"-" = DATA NOT APPLICABLE.

"Q" = DATA WITHHELD BECAUSE OF A LARGE VARIANCE.

NOTE: BECAUSE OF ROUNDING, DATA MAY NOT SUM TO TOTALS. PERCENTAGES ARE CALCULATED ON UNROUNDED NUMBERS. SEE GLOSSARY FOR DEFINITION OF TERMS USED IN THIS REPORT.

SOURCE: ENERGY INFORMATION ADMINISTRATION, OFFICE OF ENERGY MARKETS AND END USE, ENERGY END USE DIVISION, FORM EIA-457, THE 1981 RESIDENTIAL ENERGY CONSUMPTION SURVEY.



# Total and Average Residential Wood Consumption

**Table 8. U.S. Total and Average Residential Wood Consumption and Expenditures—April 1981 Through March 1982, United States**

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS BURNING WOOD		TOTAL NUMBER OF CORDS BURNED		AVERAGE NUMBER OF CORDS BURNED PER HOUSEHOLD
	(MILLIONS)	(PERCENT)	(MILLIONS)	(PERCENT)	
TOTAL HOUSEHOLDS.....	15.6	100.0	43.0	100.0	2.8
AREA TYPE					
URBAN.....	6.4	40.8	10.2	23.8	1.6
RURAL.....	9.2	59.2	32.8	76.2	3.5
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)					
LESS THAN 999.....	2.2	14.3	8.8	20.4	3.9
1,000 TO 1,999.....	6.9	44.3	17.8	41.5	2.6
2,000 OR MORE.....	6.5	41.4	16.4	38.1	2.5
1980 FAMILY INCOME					
LESS THAN \$10,000.....	2.3	14.6	9.5	22.2	4.2
\$10,000 TO \$19,999.....	3.9	25.2	13.3	30.9	3.4
\$20,000 TO \$34,999.....	5.4	34.4	12.4	28.9	2.3
\$35,000 OR MORE.....	4.0	25.8	7.8	18.1	1.9
AMOUNT OF WOOD BURNED					
1/3-1 CORD.....	7.1	45.8	5.3	12.3	.7
2 TO 3 CORDS.....	4.8	31.0	11.1	25.9	2.3
4 CORDS OR MORE.....	3.6	23.2	26.6	61.9	7.3
WOOD IS MAIN HEATING FUEL					
YES.....	5.0	32.0	24.6	57.3	4.9
NO.....	10.6	68.0	18.3	42.7	1.7
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE					
<2,000 CDD AND >7,000 HDD.....	2.8	18.1	15.9	36.9	5.6
<2,000 CDD AND 5,500 TO 7,000 HDD.....	3.6	23.0	8.9	20.7	2.5
<2,000 CDD AND 4,000 TO 5,499 HDD.....	4.6	29.4	10.3	23.9	2.2
<2,000 CDD AND <4,000 HDD.....	3.4	21.5	6.0	13.9	1.8
>2,000 CDD AND <4,000 HDD.....	1.2	7.9	2.0	4.6	1.6

See footnotes at end of table.



# Total and Average Residential Wood Consumption

Table 8. (Continued)  
Census Region: Northeast

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS BURNING WOOD		TOTAL NUMBER OF CORDS BURNED		AVERAGE NUMBER OF CORDS BURNED PER HOUSEHOLD
	(MILLIONS)	(PERCENT)	(MILLIONS)	(PERCENT)	
TOTAL HOUSEHOLDS.....	3.5	100.0	13.4	100.0	3.9
AREA TYPE					
URBAN.....	1.5	43.5	3.0	22.3	2.0
RURAL.....	2.0	56.5	10.5	77.7	5.3
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)					
LESS THAN 999.....	.3	8.6	1.9	14.4	6.4
1,000 TO 1,999.....	1.4	39.8	5.2	38.7	3.7
2,000 OR MORE.....	1.8	51.5	6.3	46.9	3.5
1980 FAMILY INCOME					
LESS THAN \$10,000.....	.3	8.6	2.1	15.9	7.1
\$10,000 TO \$19,999.....	.9	25.9	4.6	34.3	5.1
\$20,000 TO \$34,999.....	1.2	33.3	4.1	30.3	3.5
\$35,000 OR MORE.....	1.1	32.2	2.6	19.5	2.3
AMOUNT OF WOOD BURNED					
1/3-1 CORD.....	1.3	38.2	1.0	7.1	.7
2 TO 3 CORDS.....	.9	25.3	2.0	15.1	2.3
4 CORDS OR MORE.....	1.3	36.5	10.5	77.7	8.2
WOOD IS MAIN HEATING FUEL					
YES.....	1.1	31.6	8.4	62.6	7.6
NO.....	2.4	68.4	5.0	37.4	2.1
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE					
<2,000 CDD AND >7,000 HDD.....	1.1	30.7	8.6	63.6	8.0
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.3	38.4	3.1	23.4	2.3
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.1	30.9	1.7	13.0	1.6
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q

See footnotes at end of table.



# Total and Average Residential Wood Consumption

**Table 8. (Continued)**  
**Census Region: North Central**

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS BURNING WOOD		TOTAL NUMBER OF CORDS BURNED		AVERAGE NUMBER OF CORDS BURNED PER HOUSEHOLD
	(MILLIONS)	(PERCENT)	(MILLIONS)	(PERCENT)	
TOTAL HOUSEHOLDS.....	3.9	100.0	12.5	100.0	3.2
AREA TYPE					
URBAN.....	1.2	31.7	2.0	16.0	1.6
RURAL.....	2.7	68.3	10.5	84.0	3.9
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)					
LESS THAN 999.....	.5	12.5	3.0	23.7	6.1
1,000 TO 1,999.....	1.4	36.4	4.5	35.6	3.1
2,000 OR MORE.....	2.0	51.1	5.1	40.7	2.6
1980 FAMILY INCOME					
LESS THAN \$10,000.....	.7	17.8	3.9	31.1	5.6
\$10,000 TO \$19,999.....	1.0	26.2	3.3	26.0	3.2
\$20,000 TO \$34,999.....	1.4	36.2	3.5	27.6	2.4
\$35,000 OR MORE.....	.8	19.8	1.9	15.3	2.5
AMOUNT OF WOOD BURNED					
1/3-1 CORD.....	1.7	42.6	1.2	9.4	.7
2 TO 3 CORDS.....	1.1	28.0	2.5	19.8	2.3
4 CORDS OR MORE.....	1.1	29.4	8.9	70.8	7.7
WOOD IS MAIN HEATING FUEL					
YES.....	1.1	27.6	6.9	54.7	6.4
NO.....	2.8	72.4	5.7	45.3	2.0
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE					
<2,000 CDD AND >7,000 HDD.....	1.5	37.7	6.7	53.8	4.6
<2,000 CDD AND 5,500 TO 7,000 HDD.....	1.7	42.3	3.9	31.4	2.4
<2,000 CDD AND 4,000 TO 5,499 HDD.....	.8	20.0	1.9	14.9	2.4
<2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q
>2,000 CDD AND <4,000 HDD.....	Q	Q	Q	Q	Q

See footnotes at end of table.



# Total and Average Residential Wood Consumption

Table 8. (Continued)  
Census Region: South

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS BURNING WOOD		TOTAL NUMBER OF CORDS BURNED		AVERAGE NUMBER OF CORDS BURNED PER HOUSEHOLD
	(MILLIONS)	(PERCENT)	(MILLIONS)	(PERCENT)	
TOTAL HOUSEHOLDS.....	4.8	100.0	10.5	100.0	2.2
AREA TYPE					
URBAN.....	1.5	31.7	2.4	23.0	1.6
RURAL.....	3.3	68.3	8.1	77.0	2.5
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)					
LESS THAN 999.....	1.0	19.8	2.7	25.4	2.8
1,000 TO 1,999.....	2.2	45.8	5.0	47.2	2.2
2,000 OR MORE.....	1.7	34.4	2.9	27.4	1.7
1980 FAMILY INCOME					
LESS THAN \$10,000.....	1.0	20.0	2.5	24.1	2.6
\$10,000 TO \$19,999.....	1.3	25.9	3.5	32.8	2.8
\$20,000 TO \$34,999.....	1.5	30.7	2.7	26.0	1.9
\$35,000 OR MORE.....	1.1	23.4	1.8	17.1	1.6
AMOUNT OF WOOD BURNED					
1/3-1 CORD.....	2.2	45.6	1.7	16.3	.8
2 TO 3 CORDS.....	1.9	38.9	4.4	41.5	2.3
4 CORDS OR MORE.....	.8	15.5	4.5	42.3	5.9
WOOD IS MAIN HEATING FUEL					
YES.....	2.0	41.9	6.4	60.9	3.2
NO.....	2.8	58.1	4.1	39.1	1.5
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE					
<2,000 CDD AND >7,000 HDD.....	Q	Q	Q	Q	Q
<2,000 CDD AND 5,500 TO 7,000 HDD.....	Q	Q	Q	Q	Q
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.6	33.8	4.2	39.7	2.6
<2,000 CDD AND <4,000 HDD.....	2.0	42.4	4.5	42.7	2.2
>2,000 CDD AND <4,000 HDD.....	1.2	23.9	1.9	17.6	1.6

See footnotes at end of table.





# Total and Average Residential Wood Consumption

Table 8. (Continued)  
Census Region: West

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS BURNING WOOD		TOTAL NUMBER OF CORDS BURNED		AVERAGE NUMBER OF CORDS BURNED PER HOUSEHOLD
	(MILLIONS)	(PERCENT)	(MILLIONS)	(PERCENT)	
TOTAL HOUSEHOLDS.....	3.4	100.0	6.4	100.0	1.9
AREA TYPE					
URBAN.....	2.1	61.4	2.8	43.3	1.3
RURAL.....	1.3	38.6	3.6	56.7	2.8
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)					
LESS THAN 999.....	.5	14.2	1.2	18.5	2.5
1,000 TO 1,999.....	1.9	56.0	3.2	49.5	1.7
2,000 OR MORE.....	1.0	29.8	2.1	32.0	2.0
1980 FAMILY INCOME					
LESS THAN \$10,000.....	.3	9.2	.9	14.8	3.1
\$10,000 TO \$19,999.....	.8	22.3	1.9	30.0	2.6
\$20,000 TO \$34,999.....	1.3	39.0	2.1	33.0	1.6
\$35,000 OR MORE.....	1.0	29.5	1.4	22.2	1.4
AMOUNT OF WOOD BURNED					
1/3-1 CORD.....	1.9	57.5	1.4	22.1	.7
2 TO 3 CORDS.....	1.0	29.0	2.2	34.6	2.3
4 CORDS OR MORE.....	.5	13.5	2.8	43.3	6.1
WOOD IS MAIN HEATING FUEL					
YES.....	.8	23.4	2.9	45.2	3.7
NO.....	2.6	76.6	3.5	54.8	1.4
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE					
<2,000 CDD AND >7,000 HDD.....	.3	8.4	.6	8.7	2.0
<2,000 CDD AND 5,500 TO 7,000 HDD.....	.6	18.0	1.8	28.0	3.0
<2,000 CDD AND 4,000 TO 5,499 HDD.....	1.1	32.5	2.5	38.2	2.2
<2,000 CDD AND <4,000 HDD.....	1.3	38.9	1.5	22.8	1.1
>2,000 CDD AND <4,000 HDD.....	.1	2.3	.1	2.3	1.9

"-" = DATA NOT APPLICABLE.

"Q" = DATA WITHHELD BECAUSE OF A LARGE VARIANCE.

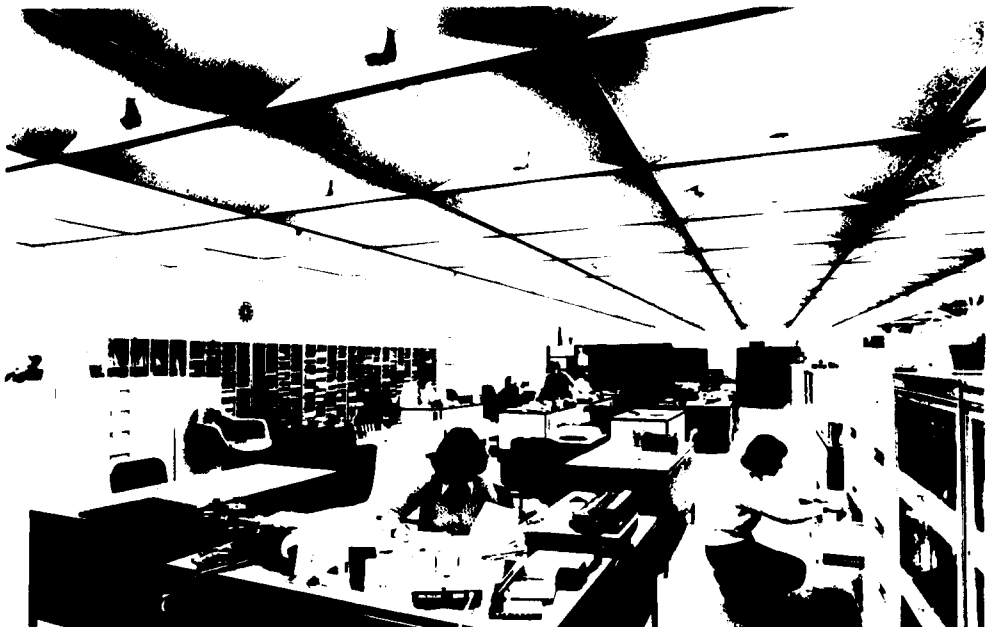
NOTE: BECAUSE OF ROUNDING, DATA MAY NOT SUM TO TOTALS. PERCENTAGES ARE CALCULATED ON UNROUNDED NUMBERS. SEE GLOSSARY FOR DEFINITION OF TERMS USED IN THIS REPORT.

SOURCE: ENERGY INFORMATION ADMINISTRATION, OFFICE OF ENERGY MARKETS AND END USE, ENERGY END USE DIVISION, FORM EIA-457, THE 1981 RESIDENTIAL ENERGY CONSUMPTION SURVEY.



**Appendix A**

How the Survey Was  
Conducted







# Appendix A

## Introduction

The Residential Energy Consumption Surveys (RECS) have been designed by the Energy Information Administration (EIA) to provide information concerning energy consumption within the residential sector. Information concerning the housing unit is collected through personal interviews with a representative national sample of households. Data concerning actual energy consumption are obtained from fuel records maintained by the household's fuel suppliers. An inventory of motor vehicles used by the household residents is also obtained at the time of the personal interview.

## Data Collection

The fieldwork for this study was conducted by a contractor, Response Analysis Corporation of Princeton, New Jersey. The original sample consisted of 7,668 units, of which some 118 either were not used for dwelling purposes or were not habitable. Of the 7,550 habitable housing units, 709 were ineligible for this study due to a current vacancy or seasonal occupancy (occupants did not live in the units for more than half the year). Personal interviews were conducted at 5,937 of the 6,841 eligible units, for a response rate of 86.8 percent. Subsequently, mail questionnaires were sent to 754 of the 904 households that had not participated in personal interviews. Completed questionnaires were returned by 332 of these households, or 44.0 percent of those mailed. Of the total eligible households, responses were received from 91.6 percent (or 6,269 households).

Interviewer contacts at sample households were begun in late September 1981 and continued through January 1982; more than 75 percent of the personal interviews were completed in October and November. Most of the 332 completed mail questionnaires were received in January and February 1982, with a few additional questionnaires received in March. In keeping with past practice in this series of surveys, November was regarded as the rough midpoint for data collection activity. Thus, November 1981 was the date for determining the independent estimates of the size of the universe of households used in the ratio estimation of survey results.

## The Interview

The average personal interview lasted 50 minutes, with 85 percent of the interviews lasting between 30 and 70 minutes. The interview with the householder (or his or her spouse) covered structural features of the house related to energy, such as insulation, doors, and windows; the heating and cooling systems, with the fuels used in these systems; use of wood; energy conservation efforts; household appliances; household vehicles; receipt of government assistance for the cost of heating; and demographic data on household members.

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<sup>1</sup>Fuel consumption for household vehicles is collected through the Household Transportation Panel, which uses rotating subsamples from the residential surveys. Data for the Household Transportation Panel collected for the period June 1979 through September 1981 are reported in Residential Energy Consumption Survey: Consumption Patterns of Household Vehicles, June 1979 to December 1980, DOE/EIA-0319 (Washington, D.C., April 1982) and Residential Energy Consumption Survey: Consumption Patterns of Household Vehicles, Supplement: January 1981 to September 1981, DOE/EIA-328 (Washington, D.C., February 1983). Data are being collected for 1983 using households from the 1982 RECS survey. Households from this survey have not participated in the Household Transportation Panel.



## Appendix A (Continued)

### The Interviewers

**Table A1. Experience and Training of 1981 RECS Interviewers**

Experience on RECS the Year Before	Training for This RECS <sup>a</sup>	Number of Interviewers
Yes <sup>b</sup>	Home study	160
Yes <sup>c</sup>	Regional training meeting	19
No	Regional training meeting	122
No	Home study	<u>6</u>
		307

<sup>a</sup>All interviewers completed a practice interview and quiz.

<sup>b</sup>Attended regional training meeting and completed interviews on RECS the year before.

<sup>c</sup>Completed interviews on RECS, but did not attend the regional training meeting the year before.

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.

Two-day regional training meetings were held in 13 locations around the country in September 1981. These meetings were attended by 141 interviewers, including almost all those who had not interviewed on the preceding RECS. Each session was led by a trainer who had attended a 2-day workshop in Princeton, New Jersey. The 2-day training session for interviewers covered general interviewing techniques, background of the Residential Energy Consumption Surveys, the household questionnaire, ways to measure the respondents' homes, the sampling tasks, and administrative requirements.

All interviewers were required to complete a practice interview and quiz on the questionnaire and sampling procedures. These materials were reviewed by the contractor's central office staff. The basic training document for both the regional meetings and home study was a 62-page manual, Instructions for Interviewers.



## Appendix A (Continued)

Interviewers were paid on an hourly basis for their work on RECS, including time for home study, attendance at training sessions, review of completed interviews, actual interviewing time, and travel time to and from training sessions and sample clusters. Interviewers were also reimbursed at standard mileage rates for use of personal vehicles and other travel expenses. Interviewers working in locations believed to present a hazard to their safety were compensated for use of an escort. Each interviewer conducted an average of 19 interviews. Twenty interviewers each completed fewer than 6 interviews; the average for this group of 20 interviewers was 2.7 completed interviews. The most interviews completed by one interviewer was 81. Twenty percent of the personal interviews were verified by telephone or mail to ensure that interviews were conducted as intended.

### Sample Design

The universe for this sample design includes all housing units occupied as the primary residence in the 50 States and the District of Columbia. The sample of households used as the basis for the 1981 estimates was selected by using a probability sampling design developed especially for the Residential Energy Consumption Survey. The sample design was used for the first time for the 1980 survey. The design required a sample with a minimum level of precision within each of the 10 Federal regions and 9 Census divisions. This requirement meant disproportionate sampling in each of the 17 intersections created by the overlap between the Federal regions and the Census divisions.

The 3,141 counties and independent cities in the 50 States and the District of Columbia were divided into 1,782 Primary Sampling Units (PSU's) on the basis of Standard Metropolitan Statistical Areas (SMSA's), county and independent city boundary lines, and population characteristics. The PSU's were grouped into 131 strata having roughly similar population totals within each of the 17 intersections. Each stratum contained PSU's similar in several characteristics, including, among others, the dominant space-heating fuel and, in some strata, weather conditions. Some PSU's comprising all or part of large metropolitan areas were large enough in population to be a stratum by themselves; 31 of the PSU's are of this type and are called Self-Representing (SR) because the sample from each PSU represented only that PSU. In the other 100 strata, one PSU was selected from among two or more PSU's in the stratum. Each of the 100 PSU's selected from these strata is called Non-Self-Representing (NSR) because each PSU also represents the nonselected PSU's in its stratum.

A number of intermediate probability sampling stages preceded the final selection of RECS households. These stages included the selection of Minor Civil Divisions (MCD's), such as cities, towns, townships, and other Census divisions within each PSU. Within the MCD's, Census tracts or Enumeration Districts (ED's) were selected. A segment of 25 or more housing units was selected within a tract or ED. Segments were formed from field counts in easily identified geographic units. Detailed field listings were created for each segment by a person who visited the area and identified each housing unit by street address or apartment number or other observable feature. A cluster of 25 housing units was selected from the sample segment. The ultimate cluster to be contacted for interviews (averaging about five housing units) was systematically selected from the cluster, and these housing units constituted the assignments given to the interviewers. The number of ultimate clusters totaled 1,515.

The 131 PSU's were selected in early 1980. The population sizes of PSU's were 1978 population estimates from the U.S. Bureau of the Census. Other data used in stratification, such as the dominant home heating fuel,



## Appendix A (Continued)

### Supplemental Sample

came from the 1970 Census. Definition of SMSA's is based on definitions using the 1970 Census results. These definitions will be updated in the future using results from the 1980 Census. For selection within PSU's, 1980 projected household counts for subareas of the PSU were used. The projections were based on data for MCD's provided by the National Planning Data Corporation. Within selected MCD's, the procedure for deriving estimated numbers of households in tracts and enumeration districts was based on data from a combination of sources, including Reuben H. Donnelley household address counts, 1970 Census data, and contacts with local sources of information such as a zoning board or agency issuing building permits.

A feature of the 1981 survey was a supplemental sample of households designed to be merged with the main RECS sample and to meet special analytical needs of the Office of Family Assistance, Social Security Administration. The supplemental sample comprised some 1,262 (18.4 percent) of the total sample of 6,841 eligible units.

The plan for the supplemental sample included procedures to "oversample" households below poverty level, particularly those using electricity, or fuel oil or kerosene, as the main home heating fuel. A relatively small proportion of all households use these heating fuels. Thus, procedures were designed to increase the sample size for households of these types to the extent feasible.

Housing units for the supplemental sample were selected in a subset of 382 of the same sample clusters used for the main RECS sample. Starting with the total of 1,515 sample segments used for this RECS, 137 were eliminated from consideration for the supplemental sample because the overall sampling rates applied to households in these sample segments for the main RECS were already at or close to the highest sampling rate used for any intersection in the main sample design. For the remaining 1,378 sample segments, two screening steps were used to identify locations that were likely to contain large proportions of households below the poverty level:

- Sample segments were divided into two groups--those with fewer than 10 percent of households below poverty level in 1970 (438 sample segments were in this first group) and those with 10 percent or more of households below poverty level in 1970 (940 sample segments were in this second group).
- For the second of the two groups, interviewers were instructed to rate the general income level of households in the sample segment (after completing their listing of housing units in the segment). Summaries of these ratings were used to place each sample segment in one of four groups: highest 25 percent (well-off or wealthy), upper middle, lower middle, or lowest 25 percent (poor or near poor).

Sample segments that were rated on income were also rated, whenever possible, on the predominant main home heating fuel. Interviewer judgments on household income and main heating fuel were used to place sample segments in groups and establish relative sampling rates as shown in Table A2.





## Appendix A (Continued)

**Table A2. Relative Sampling Rates for 940 Sample Segments Likely to Contain the Highest Density of Low-Income Households**

Main Home Heating Fuel	Income Rating		
	Upper Middle or Highest	Lower Middle	Lowest
Electricity, or Fuel Oil or Kerosene .....	1.0	2.2	3.4
All Other .....	1.0	1.6	2.2

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.

A relative sampling rate of 1.0 in Table A2 means that the overall sampling rate applied to households in the sample segment is the rate established for the main sample. Relative sampling rates higher than 1.0 were used for 382 sample segments in four "oversampled" groups of sample segments shown in Table A2. (A relative sampling rate of 2.2 means, for example, that sample segments in the group were sampled at a rate of 120 percent higher than the rate established for the main sample.) An estimated 1,262 additional households (that is, households selected as a result of the supplemental sampling process) were selected in these 382 segments, and 1,165 interviews were completed in these households (including both personal interviews and mailed questionnaires).<sup>2</sup>

Overall effects of the oversampling procedure are summarized in Table A3. Some 28.4 percent of completed interviews (in the supplemental sample) were with households below the poverty level, compared with 12.4 percent of completed interviews (in the main sample). The corresponding figures for 125 percent of poverty level were 38.7 percent and 17.9 percent of supplemental sample and main sample interviews, respectively.

<sup>2</sup>The estimated numbers of main sample interviews were derived by multiplying the number of units of a given type in each ultimate cluster by the ratio

$$\frac{\text{Sampling rate for main sample}}{\text{Sampling rate for total (main + supplemental) sample}}$$

In general, for example, the ratio for a sample segment rated "lower middle" for income level and "electricity, or fuel oil or kerosene" as main home heating fuel was equal to 1/2.2. The number of units in the supplemental sample was then equal to the total number of units in the ultimate cluster minus the estimated number in the main sample.



## Appendix A (Continued)

**Table A3. Poverty Status in 1980 and Home Heating Fuel of Poverty-Level Households in RECS Main and Supplemental Samples**

Poverty Status and Home Heating Fuel	Main Sample Households		Supplemental Sample Households	
	Number	Percent	Number	Percent
Total Sample .....	5,104	100.0	1,165	100.0
Below Poverty Level .....	633	12.4	331	28.4
Electricity .....	120	2.3	50	4.3
Fuel Oil or Kerosene .....	70	1.4	51	4.4
Other Fuels .....	443	8.7	230	19.7
Not Below Poverty Level ....	4,471	87.6	834	71.6
Below 125 Percent of Poverty Level .....	915	17.9	451	38.7
Electricity .....	170	3.3	71	6.1
Fuel Oil or Kerosene .....	115	2.3	73	6.3
Other Fuels .....	630	12.3	307	26.3
Not Below 125 Percent of Poverty Level .....	4,189	82.1	714	61.3

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.

### Survey Estimates

Survey estimates were developed to project sample results to the universe. The universe includes all households in the 50 States and the District of Columbia. Households on military installations are included. The definition of household is the same as that used by the U.S. Bureau of the Census. At the time of the survey, November 1981, the universe was estimated to contain 83,141,000 households, based on Current Population Survey (CPS) estimates of the population.

Weights were calculated for each sample household. The household weight reflected the probability of selection for that household and additional adjustments to correct for potential biases arising from the failure to contact all sample housing units and the failure to list all housing units in the sample area. Contacts were not successful with 8.4 percent of the eligible units.

The adjustment for these noninterviews was designed to spread the effects of noninterviews over the interviewed sample of households in the final cluster. This same procedure was used in the National Interim Energy Consumption Survey (NIECS) and the Screener Survey (see Glossary), but because the cluster size is smaller for the RECS (approximately 5 households to be contacted, on the average, for the RECS as compared with about 10 in the NIECS), the effects were spread over additional clusters within the PSU whenever the adjustment exceeded 2.0. In these cases, only that part of the noninterview adjustment that exceeded 2.0 was spread over the remaining ultimate clusters in the PSU.

The failure to list all housing units in the field-listing task is a common problem in surveys of this type. The result is an undercount of housing units in the sample area and, hence, an underestimate of the number of households in the universe. This problem is treated in



## Appendix A (Continued)

two ways in the RECS. One treatment occurs during the interviewing process and the second in the estimation process. During the interviewing stage, unlisted housing units or households are discovered by querying the household where interviews are conducted to determine if other households are present in the unit. In addition, the interviewer is instructed to conduct an interview at all housing units contained in the geographical area between the interviewed household and the next listed address. This tactic reduces the number of missed households but does not completely eliminate the noncoverage problem.

The noncoverage problem is also treated by using ratio estimation to adjust selected estimates of households to official population values. Ratio adjustment took place in two stages for the RECS. The first-stage adjustment was computed from information for PSU's in NSR strata only. A separate factor was created for each of 20 cells (four regions classified by five home heating fuel categories). The implementation of this factor reduced somewhat the amount of variance due to the sampling of PSU's. The first-stage adjustment for cell  $c$  is given by

$$R_{1c} = N_c / M_c$$

where  $N_c$  is the total number of households (1970 Census population) in cell  $c$  for all PSU's in RECS NSR strata, and

$M_c$  is an estimate of  $N_c$  generated by applying RECS PSU sampling weights to 1970 Census household totals for cell  $c$  in RECS NSR sample PSU's.

The second-stage factor adjusted data from the survey after nonresponse adjustment and first-stage ratio estimation to independently derived estimates of the number of households in 12 categories shown in Table A4. The second-stage adjustment for category  $k$  was given by

$$R_{2k} = H_k / G_k$$

where  $H_k$  is an independent estimate of the total, and

$G_k$  is the RECS estimate prior to the second-stage ratio adjustment of the total number of households in category  $k$ .

The numerator is based on a linear interpolation of values for each of the 12 cells between Current Population Survey estimates for March 1981 and March 1982. The second-stage factor reduced both the between-PSU variance and the within-PSU variance. An additional effect of applying this factor is that the final sample estimate of the number of households for each cell shown in Table A4 equals the control estimate.

**Table A4. Population Estimates Used as Controls In Ratio Estimates**

Census Region	SMSA-Central City	SMSA-Outside Central City	Non-SMSA	Total
Northeast .....	6,001,000	8,118,000	3,808,000	17,927,000
North Central ..	5,865,000	7,998,000	7,373,000	21,236,000
South .....	7,362,000	8,467,000	11,861,000	27,690,000
West .....	5,375,000	7,438,000	3,475,000	16,288,000
Total .....	24,603,000	32,021,000	26,517,000	83,141,000

Source: Estimates derived from March 1981 and March 1982 Current Population Surveys.



## Appendix A (Continued)

### Minimizing Nonresponse

In an effort to maximize the validity of the survey data, a multiwave, multicontact approach was employed. Before the initial contacts, a letter was sent to each household from the Administrator of the EIA, briefly describing the purposes and stressing the importance of the survey. Beginning in September 1981, interviewers made up to seven or more callbacks at different times of the day throughout the week in an effort to minimize the number of uncontacted households. The interviewers also queried neighbors regarding the most opportune times to contact the prospective respondent. By the end of the first wave, 118 addresses were found to be nonresidential and an additional 663 were found to be ineligible. Some 5,482 personal interviews were completed, leaving 1,405 nonrespondents in this wave. A \$2 incentive was not used in the personal interviews in this survey as it had been in previous RECS.

A second wave was initiated in an effort to contact households that were not available during the first wave and to attempt to convince selected first-wave refusals to reconsider. A new set of letters preceded the renewed effort and, in most cases, the sampled housing units were assigned to a different interviewer. Again, up to seven or more attempts were made to contact the prospective respondents. At the end of this wave, an additional 46 addresses were found to be ineligible. As a result of the second wave, an additional 446 interviews were completed, leaving 913 nonrespondents.

A third wave was initiated in an effort to reach nonrespondents in a few locations that had low completion rates. The third wave produced nine additional personal interviews.

In a final attempt to reduce nonresponse, an abbreviated version of the questionnaire (adapted for self-administration) was mailed to most of the remaining nonrespondents. A \$2 incentive was included in the mailing. As a result of this effort, 332 additional households responded.

After three waves of personal interview attempts and one mailed questionnaire, 572 households or 8.4 percent of all eligible housing units had not responded. These results are displayed in Table A5.

These efforts were successful in accomplishing the following:

- Approximately 87 percent of the households were contacted and agreed to be interviewed personally. An additional 4.8 percent of the sample households completed and returned mailed questionnaires.
- Of the 6,269 responses, 87.4 percent were obtained during the first wave of contacts; 7.1 percent were obtained during the second wave; and less than 0.2 percent resulted from third-wave contacts. Some 5.3 percent were responses to the mailed questionnaire.
- Of all households that participated in the personal interviews, 35.5 percent required only one visit and 78.2 percent were completed with no more than two callbacks.
- A total of 182 personal interviews were completed in the second and third waves with respondents who had previously refused to participate, representing 3.1 percent of all completed personal interviews. In addition, of the 332 mailed questionnaires that were completed and returned, 189 were from households that previously refused to participate.



## Appendix A (Continued)

**Table A5. Interviews Completed by Stage**

	Personal Interviews			Status After Third Wave	Mail	Final Status
	First Wave	Second Wave	Third Wave			
Total Listed Units.....	7,668	1,405	913	7,668	904	7,668
Nonhousing Units						
Business, Other .....	34	-	-	34	-	34
Not Habitable .....	15	-	-	15	-	15
Nonhousing Unit .....	69	-	-	69	-	69
Subtotal .....	118			118		118
Housing Units .....	7,550	1,405	913	7,550	904	7,550
Ineligible Units						
Vacant .....	489	31	-	520	-	520
Seasonal Vacant .....	174	15	-	189	-	189
Subtotal .....	663	46		709		709
Eligible Units .....	6,887	1,359	913	6,841	904	6,841
Not Completed--Personal						
No One Home .....	556	296	19	221	-	221
Eligible Respondent						
Not Home .....	50	16	1	26	-	26
Refused .....	650	349	9	<sup>a</sup> 562	-	562
Illness .....	27	2	1	15	-	15
Language Barrier ....	21	4	2	15	-	15
Wrong Respondent or Unit .....	9	2	-	7	-	7
Not Contacted <sup>b</sup> .....	35	223	872	22	-	22
Other .....	57	21	-	36	-	36
Subtotal .....	1,405	913	904	904		904
Not Completed--Mail						
Unusable Address ....	-	-	-	-	75	75
Post Master Return ..	-	-	-	-	74	74
Returned Blank .....	-	-	-	-	68	68
Returned Unusable ...	-	-	-	-	6	6
Not Returned .....	-	-	-	-	274	274
Other Not Mailed ....	-	-	-	-	75	75
Subtotal .....					572	572
Total Interviews						
Completed .....	5,482	446	9	5,937	33	6,269

<sup>a</sup>A household that refused an interview during any one of the three waves was classified as a "refusal" for the final status even though no one was at home in the second or third wave.

<sup>b</sup>Includes households that moved after initial contact.

"-" = Data not applicable.

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.



## Appendix A (Continued)

### Response Rates and Household Characteristics

This section of the report will compare various response and nonresponse rates across Census region, location type, and structure type. These rates are reported in Table A6.

Several patterns are clear from Table A6. First, personal interviews enjoyed the most success in the South (88.9 percent), in non-SMSA areas (91.1 percent), and among residents of mobile homes (89.2 percent). Conversely, the interviewers had their lowest success rates in the Northeast (83.2 percent), SMSA central cities (82.4 percent), and in buildings with five or more residential units (78.6 percent). It is important to keep in mind when looking at the categories that make up these groupings that there is no guarantee that the characteristics are independent. Rather, it is highly likely that they overlap, that is to say, the Northeast has a high concentration of central cities and large apartment buildings.

The total response-rate patterns with regard to highest and lowest rates are generally not affected by the addition of the responses to the mailed questionnaire; however, the range from highest to lowest decreases by several percentage points. The highest refusal rates correspond to the lowest success rates for the personal interviews. The lowest refusal-rate categories match the highest personal interview success groups.

**Table A6. Response Rates by Region, Location, and Type of Structure (Percentage of Eligible Housing Units)**

Characteristic	Response Rates			Personal Interview Non-response Rates	
	Personal Interview	Mail Questionnaire	Total Response	Refuse	Unable to Contact
Total .....	86.8	4.8	91.6	8.2	5.0
Census Region					
Northeast .....	83.2	6.3	89.5	10.5	6.3
North Central ....	86.7	5.2	91.9	8.8	4.4
South .....	88.9	3.4	92.3	6.2	4.9
West .....	86.9	5.3	92.2	8.4	4.7
Location Type					
SMSA-Central					
City .....	82.4	6.5	88.9	10.0	7.6
SMSA-Outside					
Central City ....	85.8	5.9	91.7	9.7	4.6
Non-SMSA .....	91.1	2.6	93.7	5.4	3.5
Structure Type					
Single-Family					
House .....	88.3	4.1	92.4	8.1	3.6
Mobile Home .....	89.2	2.6	91.8	6.1	4.7
Buildings with					
Two to Four					
Units .....	86.4	4.8	91.2	7.2	6.4
Buildings with Five					
or More Units ....	78.6	9.9	88.5	10.5	10.9

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.



## Appendix A (Continued)

### Adjustments for Item Nonresponse

Item nonresponse occurs when respondents do not know the answer or refuse to answer a question or when an interviewer does not ask a question or does not record an answer. Imputations were made for nonresponse to most items that were to be used for making national estimates and items that had less than 10-percent nonresponse. Items for which national estimates are made but for which imputations were not made include questions on the presence, type, and amount of attic and floor insulation; the presence of wall insulation; and the cost of adding storm windows, doors, and insulation. For these items, the number of missing cases was considered large enough that the imputations would have introduced too much additional error.

The most frequently used imputation procedure was hot-deck. This procedure requires sorting the file of households by variables related to the missing item. A household is then selected that has the same value of the related variables, and this "donor" household supplies the value for the variable that is missing in the "donee" household.

Less frequently used imputation methods included random selection from the distribution of the known values of a variable, regression estimates, and use of modal values. Regression procedures were used to impute the total square footage of the housing unit in 2 percent of the cases in which all data were missing. The random selection procedure was used only to assign dates (month and/or year) when those responses were missing. Discussion of the regression procedure and other imputations involved in the square footage estimates is found in Appendix B. A few variables were imputed by assigning modal values; this was done when the distribution of available data showed a highly skewed distribution.

The RECS personal interview questionnaire contained 356 items of information. These items were treated as follows with respect to imputations.

<u>Imputation Method</u>	<u>Number</u>
Not Imputed .....	81
Imputed .....	275
Hot-deck .....	207
Random .....	45
Modal .....	23
Total .....	356

Table A7 shows the most frequently imputed items, the number of cases requiring imputation, and the method used.

The 332 mail questionnaires had considerable missing data since the mail questionnaire was a small subset of questions from the household interview. For the mail questionnaires, the hot-deck imputation method was used. Households were selected by sorting the file by Census region, type of structure, space-heating fuel, hot-water fuel, air-conditioning fuel, family income, number of rooms, and number of persons in the household. The donor household was matched on these characteristics as closely as possible, and the entire set of responses from the donor household was imputed to the mailed questionnaire household. This meant that all the responses for the mailed questionnaire households were imputed except weather data, fuel consumption data acquired from the household's fuel suppliers, the geographic location of the mail questionnaire household, and those items in the hot-deck imputation procedure for which an exact match had been obtained.



## Appendix A (Continued)

**Table A7. 1981 Residential Energy Consumption Survey Items Most Frequently Imputed**

Item	Cases Imputed	Percentage of Total Sample <sup>a</sup> (6,269)	Method of Imputing
1980 Family Income .....	947	15	Hot-deck
Availability of Natural Gas ....	444	7	Hot-deck
Year House Was Built .....	351	6	Hot-deck
Same Main Heating Fuel Used Last Winter .....	284	5	Hot-deck
Most-Used Oven Is/Is Not Microwave .....	176	3	Hot-deck
Householder Completed Highest Grade .....	159	3	Hot-deck
Number of Cords of Wood Burned .....	147	2	Hot-deck
Central Water-Heating System for the Building .....	145	2	Hot-deck
Square Footage of Housing Unit .....	(b)	(b)	(b)
Condominium or Cooperative .....	126	2	Hot-deck
Spouse Completed Highest Grade .....	123	2	Hot-deck
Central Heating System for the Building .....	119	2	Hot-deck
Other Source of Income in 1980 .....	111	2	Hot-deck
Regular Contributions from Nonfamily Members Received in 1980 .....	101	2	Hot-deck
Second Oven Is/Is Not a Microwave .....	67	1	Hot-deck
Warm Air Forced Through Ducts... Other Public Assistance Received in 1980 .....	63	1	Hot-deck
Alimony Received in 1980 .....	99	2	Hot-deck
Government Pension Received in 1980 .....	99	2	Hot-deck
Private Pension Received in 1980.....	95	2	Hot-deck
Month Window or Door Caulking Added .....	86	1	Hot-deck
Dividends Received in 1980.....	81	1	Random
Disability Payments Received in 1980 .....	79	1	Hot-deck
SSI Received in 1980 .....	79	1	Hot-deck
Veteran's Payments Received in 1980 .....	79	1	Hot-deck
Workmen's Compensation Received in 1980.....	79	1	Hot-deck
Unemployment Compensation Received in 1980 .....	78	1	Hot-deck
Unemployment Compensation Received in 1980 .....	78	1	Hot-deck





## Appendix A (Continued)

Table A7. (Continued)

Item	Cases Imputed	Percentage of Total Sample <sup>a</sup> (6,269)	Method of Imputing
Net Rental Income Received in 1980 .....	77	1	Hot-deck
Aid to Families with Dependent Children Payments Received in 1980 .....	73	1	Hot-deck
Social Security Received in 1980 .....	73	1	Hot-deck
Money from Self-Employment Received in 1980 .....	72	1	Hot-deck
Monthly Rent of Dwelling .....	68	1	Hot-deck

<sup>a</sup>Mail questionnaires are not included in the percentage. To account for these, add 5 percentage points to the percentage listed, except for the 1980 family income item. Family income was not imputed for the mail questionnaires, but some shift within broad income categories may have occurred in the process of matching mail questionnaires to personal interviews.

<sup>b</sup>See Appendix B for details on the square footage imputations.  
Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.

### Rental Agent Survey

Telephone interviews were carried out with rental agents and landlords of RECS households living in multiunit dwellings who did not pay directly to utility companies or fuel suppliers for one or more household fuels. The primary purpose of the rental agent survey was to verify information from household respondents on fuels used and main heating equipment.

The telephone interviews with rental agents or their deputies were conducted in July 1982.

Altogether, 203 rental agents were interviewed. These interviews covered 466 households in 294 buildings. The 466 households were 62.5 percent of the total of 746 households living in multiunit buildings who had one or more fuels included in their rent.

### Editing Completed Questionnaires

Interviewers mailed completed questionnaires to the contractor, where they were carefully reviewed. The first step in the review process was to verify the accuracy of the basic identifying information. Next, the questionnaires were manually reviewed by two editors to ensure completeness and the logical consistency of selected patterns of responses and to prepare the questionnaires for translation into machine-readable form. Key punching of important items was fully verified. Overall, 25 percent of the key punching work was fully verified. Finally, the data were machine edited to further ensure completeness, logical consistency, and the legitimacy of coded values. The computer editing utilized a proprietary software package called EDITOR II.



## Appendix A (Continued)

The contractor attempted to resolve inconsistencies or ambiguities in the data internally, by reference to other parts of the questionnaire. When these efforts failed to resolve an important problem, particularly those involving heating fuels or heating equipment and/or relationships between questionnaire responses and data on fuel consumption, the contractor made telephone contact with a member of the household in question. Telephone contacts of this type were completed with approximately 14 percent of households during the course of data editing for this survey.

Comparisons were made between rental agent and household respondent reports on main heating fuel, main heating equipment, supplemental heating fuel, water-heating fuel, and air-conditioning fuel. Each discrepancy was individually examined. Changes were made in the household record whenever it was judged that the rental agent was more knowledgeable than the household respondent on specific fuels and/or equipment.

Editors followed the guideline that the rental agent was the more knowledgeable person when the landlord paid for the fuel and the fuel was used as the main home heating, water-heating, or air-conditioning fuel. The rental agent's view generally prevailed also in the case in which the rental agent paid for the main heating fuel and the rental agent's description of the main heating equipment differed from that of the household respondent.

Since a supplemental heating fuel was more likely to be under the household's control, even in a multiunit dwelling, the respondent's definition of supplemental heating fuel was generally accepted.

The changes in the household records that resulted from these inquiries are given in Table A8.

**Table A8. Changes Made in Household Records Based on Information from Rental Agents**

Type of Changes Made in Household Records	Fuel Paid by Rental Agent	Number with Changes Made	Percentage with Changes Made
All Households in Rental Agent Survey .....	466	140	30
Main Heating Fuel .....	368	58	16
Main Heating Equipment .....	(a)	52	14
Supplementary Heating Fuel .....	(a)	18	5
Water-Heating Fuel .....	389	82	21
Central Air-Conditioning Fuel ...	18	1	6

<sup>a</sup> Responses of rental agents and household respondents were compared for the 368 households for which the rental agent paid for the main heating fuel.

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.



## Appendix A (Continued)

### Fuel Supplier Survey

The overall objective of the fuel supplier survey was to provide data on which to estimate the annual fuel consumption and expenditures of sample households. Four utility fuels were covered in the annualization--electricity, natural gas, fuel oil, and LPG.<sup>3</sup> For each of the fuels, the goal was to obtain complete consumption records for the year April 1, 1981, through March 31, 1982.

Toward the end of the household interview, each household reported for each use of the fuel whether or not the fuel was paid for by the household, included in rent, or paid another way. For those households that paid directly, the respondent was asked for the names, addresses, and telephone numbers of the fuel companies supplying the household; these respondents were also asked to sign a waiver, authorizing Response Analysis to collect consumption data from the suppliers.

Altogether, the fuel supplier survey included initial contact attempts with 1,123 companies. The number of companies in the survey supplying each fuel and the total number of households supplied are shown in Table A9.

**Table A9. Companies in Fuel Supplier Survey and Number of Households Supplied**

Fuel Supplier	Number of Companies <sup>a</sup>	Number of Survey Households Supplied <sup>b</sup>
Electricity .....	282	5,261
Natural Gas .....	146	2,856
Fuel Oil or Kerosene .....	521	741
LPG .....	236	550

<sup>a</sup>The total number of companies in the survey was 1,123. These included 43 that supplied both electricity and natural gas; 5 that supplied natural gas and LPG; and 14 that supplied fuel oil and LPG.

<sup>b</sup>These figures represent the number of households that signed an authorization form and that paid directly to the utility company for all uses of the fuel. Excluded are 25 fuel oil households and 10 LPG households supplied by unknown companies.

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.

<sup>3</sup>Households using LPG only for outdoor cooking grills were not included in the LPG data collection; LPG used by these households is excluded from consumption and expenditures estimates. Data on usage of wood fuel were collected during the household interview, since it was not practical to collect these data from suppliers as is done with the major home fuels. Unless otherwise noted, consumption of wood is not included in the tables for this report.



## Appendix A (Continued)

### Data Collection Procedures

Data collection procedures for electricity and natural gas companies included at least the following steps:

- an initial letter from the Administrator of the Energy Information Administration, addressed to the president or other official in the company outlining the general nature of the request for participation. This letter also announced that a telephone contact would be made to determine the name of the person to whose attention the survey materials should be sent. Enclosures in the letter included a printed statement "About the Residential Energy Consumption Survey," specimen copies of reporting and authorization forms, and a postage-paid postcard with a checklist of available publications and data tapes;
- the telephone contact referred to in the initial letter;
- the mailing of survey materials to the person named as contact person;
- a follow-up telephone contact a few days later to answer questions or discuss survey procedures as necessary;
- completed forms or copies of records returned by mail; and
- a letter from the EIA thanking the company for its effort.

The personal contacts established at an early point largely precluded mailings of materials to an inappropriate person and the delays that might develop from such mailings.

Procedures for fuel oil or kerosene and LPG dealers were the same as for electric and natural gas companies up through and including the mailing of survey materials to the company person named as the contact. These companies, however, most often had only one or two households for which information was to be supplied, and data collection was generally completed by telephone. An earlier pretest of the procedure had indicated a somewhat greater likelihood that companies would respond by telephone than as a result of a request to complete and return the forms by mail.<sup>4</sup> Companies that chose to return the forms by mail, however, were not discouraged from doing so. After the company returned the information, additional contact with companies and households was sometimes required to identify the correct record in the company files.

#### Energy Consumption Records

The fuel supplier survey was conducted for households that paid their own fuel bills directly to the supplier and authorized access to

<sup>4</sup>The test is described in Residential Energy Consumption Survey: Consumption and Expenditures--April 1980 Through March 1981, Part 1: National Data, DOE/EIA-0321/1 (Washington, D.C., September 1982, Appendix A, 103).

### Energy Consumption Records



## Appendix A (Continued)

their records. These limitations meant that imputations of fuel consumption were required for households without consumption records (their fuel bills were included in the rent) and for households that did not permit access to their records.

Households lacking consumption records because they do not pay fuel bills directly to fuel suppliers occur most frequently among users of natural gas and fuel oil or kerosene (see Table A10). These households are 18.3 percent of users of natural gas and 24.9 percent of users of fuel oil or kerosene.

The proportion of households that did not sign authorization forms (access to records denied) was in the range of 7 to 8 percent for the four fuels. Most households that signed authorization forms did so at the time of the personal interview or at the time of completing the mailed questionnaire. To maximize the number of households with records, however, a follow-up request was mailed to those who did not sign a form at the time of the personal interview. About 3 percent of this group returned signed forms in response to the mail request and therefore were included in the fuel supplier survey.

**Table A10. Energy Consumption Records and Missing Data for Survey Households Using Electricity, Natural Gas, Fuel Oil or Kerosene, or LPG (Percentage of Households Using the Fuel)**

Survey Households	Electricity	Natural Gas	Fuel Oil or Kerosene	LPG
Total Households				
Using the Fuel .....	100.0	100.0	100.0	100.0
(Sample Number) .....	(6,263)	(3,850)	(1,122)	(627)
Usable Records Received from Fuel Supplier <sup>a</sup> .....	80.8	71.7	46.7	61.3
Unusable Records Received from Fuel Supplier .....	0.9	0.8	6.7	13.2
Household Pays Directly to Supplier--No Record Available for the Household .....	10.5	9.2	21.7	22.8
Household Not Identified in				
Company Records .....	2.3	1.7	11.9	12.7
Company Refused to Participate ...	*	*	0.8	0.5
Company Unknown or Not Located ...	*	*	2.2	1.6
Authorization Form Not Signed ....	8.2	7.5	6.8	8.0
Fuel Used Included in Rent or Paid in Other Way <sup>b</sup> .....	7.8	18.3	24.9	2.7

<sup>a</sup>Data were unusable for electricity and natural gas if the records covered less than 5 months and for fuel oil or kerosene and LPG if the record covered less than 1 year.

<sup>b</sup>Includes households with mixed payment methods: one or more uses of a specified fuel paid directly to a supplier, and other uses included in rent or paid in other way.

"\*" represents or rounds to zero.

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.



## Appendix A (Continued)

Table A10 shows that factors affecting nonresponse are somewhat different for fuel oil or kerosene and LPG than they are for electricity and natural gas. For example, the most frequent reason for nonresponse from fuel oil or kerosene and LPG dealers was their inability to identify survey households in their company records. Some dealers provide these fuels to households on a cash-and-carry basis and simply do not keep records of individual purchases. A second reason related to fuel oil or kerosene and LPG was the inability to locate the fuel oil or kerosene or LPG dealer. Some companies were no longer in business; others could not be contacted during the survey period even after repeated attempts over a period of several months; and some cash-and-carry customers could not identify their suppliers.

Refusal of companies to participate in the survey was not a significant factor.

Some additional factors related to the usability of fuel records are discussed in the section on imputations and adjustments for missing data.

Comparison with 1980 RECS. The proportion of households with usable fuel consumption records is lower in 1981 than 1980. The difference is 2 percentage points for electricity, 4 for natural gas, 8 for fuel oil or kerosene, and 4 for LPG. This decrease is attributed to a small increase in the proportion of sample households not signing authorization forms and in the proportion of sample households whose energy bills are included in their rent. The latter condition, for which energy billing records are not available, was fostered by the intentional oversampling of low-income households, which more often have energy costs included in their rent. In the case of fuel oil or kerosene, additional factors include a change in the mix of single-family and multifamily homes using fuel oil and increased use of kerosene that is usually purchased on a cash-and-carry basis.

### Data Collection Dates

The first set of advance letters was mailed to utility companies during the first two weeks of April 1982. The cut-off date for receipt of usable information was August 31, 1982.

### Fuel Consumption Imputations

Not all the fuel records that were collected in the fuel suppliers' survey could be used. For example, some covered too few months of usage and for others it was uncertain how the records were incomplete. The extent of these unusable records is shown in Table A10. The problem of unusable records is small for the metered fuels. For electricity and natural gas, 1 percent of the records covered fewer than 146 days and therefore were considered unusable. For fuel oil, kerosene, and LPG, however, the problem of unusable records is more serious inasmuch as 7 percent of fuel oil or kerosene records and 13 percent of LPG records were unusable. One reason for this is that partial year records of electricity and natural gas usage are considered usable, whereas a partial year record for the storage fuels (fuel oil, kerosene, LPG) is not used.<sup>5</sup>

<sup>5</sup>The number of households with partial year records, as a proportion of total households using the fuel, is 7.6 percent for electricity and 6.2 percent for natural gas.



## Appendix A (Continued)

A variety of information from household respondents as well as from suppliers is reviewed and used as a basis for declaring a fuel oil, kerosene, or LPG record complete or incomplete. Questionnaire information from respondents includes number of suppliers and an estimate of the annual number of deliveries. Suppliers provided dates of onset and termination of service to the household. In addition, follow-up contacts were made at some households that used combinations of fuel oil and kerosene when it was determined that delivery records did not include supplementary "cash-and-carry" purchases of kerosene that may have been made by the household. Estimates of the quantities of kerosene purchased (usually small relative to quantities of fuel oil) were then added to the delivery records for fuel oil to preclude the need for imputations.

Households with unusable records, as described earlier, and households with no records had their fuel consumption imputed using regression modeling techniques. The regression consumption models were developed using RECS sample households for which approximately a full year of data was available and acceptable. Separate regression models were developed for the four fuels: electricity, natural gas, fuel oil or kerosene, and LPG. Fuel oil and kerosene were treated as if they were identical fuels. The number of kerosene users in the sample is very small and the number of usable consumption records for these households is even smaller, since many kerosene users are "cash-and-carry" customers who leave no records of their transactions.

The strategy for modeling consumption was not the same for all fuels. There were five models of electricity consumption--one for each of the major types of housing structure. For the other fuels, dominance of the heating component was acknowledged, and modeling was by end use instead of structure type. This entails one model for all cases in which the modeled fuel is used as the main heating fuel and a separate model for cases in which the fuel is used only for appliances and/or hot water. Apart from electricity then, all structure types are modeled simultaneously with an allowance for differentiation of structure types within the models by inclusion of dummy variables (for each type of structure). The regression models make full use of the data including such variables as measured square footage of the housing unit, uses of fuels, heating and cooling degree-days, household size, and appliances.

Some electricity and utility gas models also contain a price variable calculated from the survey data. Some electricity models also include an income variable. The fuel oil and LPG models contain a variable on fuel wood burned. Fuel expenditures were imputed by applying a cost factor to the imputed consumption. The cost factor for electricity and utility gas was derived from the fuel consumption records of households in the same neighborhood or geographic area as the household for which data were missing; the cost factor for fuel oil and LPG was based on regression fits for cost versus quantity for all fuel users.

The consumption data were standardized to a 365-day period. For fuel oil, kerosene, and LPG, no adjustment was necessary since the annual consumption data were the accumulation of all delivery records between April 1, 1981, and March 31, 1982. For electricity and natural gas, an adjustment was made for those records covering 330 days or more. For those covering fewer than 330 days and those cases requiring regression imputations, the imputed quantity was for a 365-day period.



## Appendix A (Continued)

The 12-month fuel consumption quantities were scaled down in accordance with respondent-supplied information as to the proportion of the fuel used for nonhousehold purposes such as for drying grain or operating a commercial welding shop. This adjustment was made to the consumption and expenditures for 3 percent of the households using electricity, 3 percent using LPG, 1 percent using natural gas, and 0.4 percent using fuel oil or kerosene.

A final adjustment was made to all imputed fuel quantities. To maintain the variance structure of the unimputed fuel consumption data, rather than impute a single value for all households that may be equivalent on the independent variables in the regression model, an error term was added to the predicted fuel consumption. This allowed estimates for sampling error to be calculated without separating imputed from unimputed data.

Table All shows the availability of consumption records by the type of housing structure. Usable records were most often obtained for single-family units, more often for electricity (88.5 percent of the units) and natural gas (88.2 percent) than for fuel oil or kerosene (64.2 percent) or LPG (62.8 percent). The problems inherent in collecting data for the storage fuels were described earlier: multiple suppliers, cash-and-carry customers, purchase data being supplied instead of usage data, and economic instability of the supplying companies.

The consumption and expenditures data for large apartment buildings, especially the natural gas and fuel oil, are mostly imputed data. Usable records were obtained for only 13.0 percent of the apartments in large buildings that used natural gas and for none of those using fuel oil or kerosene. Liquefied petroleum gas is infrequently used in large apartment buildings. Electricity data for these apartments were obtained in 52.1 percent of the cases.





## Appendix A (Continued)

**Table A11. Energy Consumption Records and Missing Data for Survey Households, by Fuel Used and by Type of Housing Structure (Percent)**

Type of Fuel Used	Total Households Using the Fuel	Mobile Home	Single-Family	Two to Four Units	Five or More Units
Electricity .....	100.0	100.0	100.0	100.0	100.0
(Sample Number) .....	(6,263)	(390)	(4,343)	(697)	(833)
Usable Record .....	80.8	80.0	88.5	67.3	52.1
Unusable Record <sup>a</sup> .....	0.9	1.5	0.6	1.6	2.1
Records Not Available .....	10.5	11.6	9.7	13.8	11.5
Fuel Used Is Included in Rent or Paid in Other Ways <sup>b</sup> ...	7.8	6.9	1.2	17.3	34.3
Natural Gas .....	100.0	100.0	100.0	100.0	100.0
(Sample Number) .....	(3,850)	(119)	(2,650)	(544)	(537)
Usable Record .....	71.7	69.7	88.2	49.5	13.0
Unusable Record <sup>a</sup> .....	0.8	3.4	0.6	1.8	0.2
Records Not Available .....	9.2	10.1	9.6	11.9	4.5
Fuel Used Is Included in Rent or Paid in Other Ways <sup>b</sup> ...	18.3	16.8	1.6	36.8	82.3
Fuel Oil or Kerosene .....	100.0	100.0	100.0	100.0	100.0
(Sample Number) .....	(1,122)	(70)	(724)	(159)	(169)
Usable Record .....	46.7	37.1	64.2	20.7	*
Unusable Record <sup>a</sup> .....	6.7	12.9	8.6	1.9	0.6
Records Not Available .....	21.7	50.0	26.0	12.6	*
Fuel Used Is Included in Rent or Paid in Other Ways <sup>b</sup> ...	24.9	*	1.2	64.8	99.4
LPG .....	100.0	100.0	100.0		
(Sample Number) .....	(627)	(144)	(465)	(16)	(2)
Usable Record .....	61.3	56.9	62.8	(9)	(1)
Unusable Record <sup>a</sup> .....	13.2	13.2	13.5	(1)	*
Records Not Available .....	22.8	23.6	22.8	(2)	(1)
Fuel Used Is Included in Rent or Paid in Other Ways <sup>b</sup> ...	2.7	6.3	0.9	(4)	*

<sup>a</sup>Data were unusable for electricity and natural gas if the records covered fewer than 5 months and for fuel oil, kerosene, and LPG if the record covered less than 1 year.

<sup>b</sup>Includes households with mixed payment methods: one or more uses of a specified fuel paid directly to a supplier, and other uses included in rent or paid in another way.

"\*" represents or rounds to zero.

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.



## Appendix A (Continued)

The reason consumption and expenditures data are so often imputed for multiunit structures is that energy use is not directly metered for individual apartments. A master meter registers the usage for a number of units in the building. Under these circumstances, there is no way of measuring the consumption of individual apartments, and imputations based on metered units may be biased since the imputations assume similar energy use for metered and nonmetered apartments.

Other segments of the data for which the lack of usable records may lead to an imputation bias include natural gas and fuel oil or kerosene for apartments in smaller buildings (two to four units per building) and fuel oil or kerosene and LPG used in mobile homes. Usable records in these segments were obtained for between 20.7 percent and 56.9 percent of the households.

### Bias in Estimates of Fuel Usage in Apartments

Concern with the large amount of imputed fuel data for apartment units led to a special effort in 1981 to obtain consumption records for apartment buildings. This effort used the permission of the apartment building's agent to obtain actual fuel records for the building. These records were used to estimate fuel consumption for each apartment in the building, including the sample units that were the main concern of the collection effort. The building's fuel use was allocated to individual apartments proportionate to the number of units in the building. A comparison of these estimates, derived from actual records, with the imputed values assigned by the regression modeling indicates the following bias in some imputed values:

<u>Households Using</u>	<u>Imputed Values Are</u>	<u>Corrective Multipliers Are</u>
Electricity with air conditioning	Too low by 50 percent	1.84
Electricity without air conditioning	Too high by 10 percent	None
Natural gas for space heating	About right	None
Natural gas, but not for space heating	Too low by 50 percent	2.04

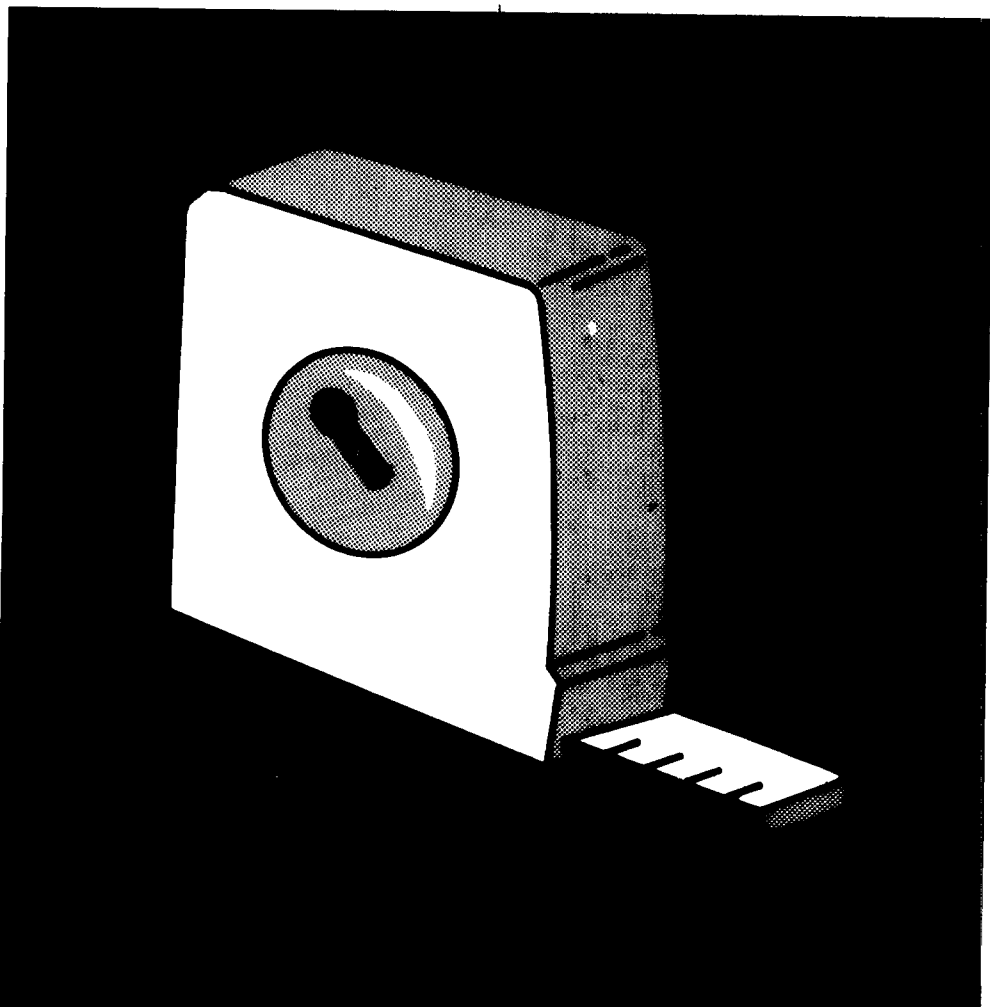
The number of records for fuel oil and LPG were insufficient for making estimates of the bias in their imputed values. The imputations for fuel use in apartments were corrected to counteract the imputation bias. The corrective multipliers are given in the preceding tabulation.





## Appendix B

### Estimates of the Size of U.S. Housing Units in Square Feet







## Appendix B

### Introduction

Interviewers for the 1981 Residential Energy Consumption Survey were given 50-foot tape measures and were instructed to measure the dimensions of each housing unit where they conducted an interview. The instructions were to measure the "area enclosed from the weather." This included garages attached to the house, attics either heated or finished, and basements enclosed from the weather (see Square Feet in Glossary for further definition). Interviewers also recorded the dimensions of areas that were heated and unheated. This further breakdown into heated and unheated areas provides a closer approximation to the area of the housing unit that places the demand on the heating system and, therefore, is the figure that may prove to be more useful in analyzing residential energy consumption. All measurements were rounded to the nearest foot by the interviewer or in the editing process. Interviewers were given an option of measuring the home from the inside, taking into account the thickness of inside walls, or from the outside. These measurements provide the first data on a national sample of all types of residential housing units, including apartment units and mobile homes.

Interviewers attempted to measure the size of the 5,937 housing units where personal interviews were conducted. In 108 cases, the measurements were taken from a floor plan. In 98 percent of the cases, usable measurements were acquired. In 2 percent, the measurements either were not usable or were not made. Although most cases contained the basic information, some imputations were required to produce a final set of three figures for each housing unit:

HOMEAREA = total square footage of area enclosed from the weather

HEATED = total square footage of heated area

UNHEATED = HOMEAREA - HEATED = total square footage of unheated area.

Table B1 indicates the number of cases with missing data. The imputations required standardizing all measurements to outside measurements when the measurement was made from inside the home, characterizing a measurement as inside or outside when this was unknown, apportioning the total space between heated and unheated when this proportion was unknown or partially known, and estimating the total square footage when the measurements were not made or not usable.

### Scaling Up Outside Measurements

As shown in Table B1, 4,883 homes had complete dimensions for the total area, the heated area, and the unheated area. The only adjustment required was to scale up the measurement for the 1,857 homes that were measured on the inside. The inside measurements were standardized to



## Appendix B (Continued)

outside dimensions. The scaling value was determined for each housing unit as a quadratic function of HOMEAREA for the housing unit.<sup>1</sup>

$$\text{SCALE} = 902 + 1.93\text{E-}04 \times \text{HOMEAREA} - 3.63\text{E-}08 \times (\text{HOMEAREA})^2 \quad (\text{B1})$$

This formula indicates that the larger the HOMEAREA, the larger the scaling-up value. These scale values, which increased the inside measurements, ranged from 5.9 to 15.9 percent, depending on the size of HOMEAREA. For any case in which HOMEAREA was less than 1,000, SCALE was set to 1.059; for HOMEAREA greater than 2,700, SCALE was set to 1.159.

**Table B1. Completeness of Data on Square Footage of Housing Units**

Amount of Information Collected	Number of Households	Percent
Complete Set of Dimensions .....	4,883	82
Outside measurement of home .....	3,026	51
Inside measurement of home .....	1,857	31
Partial Information		
Information available on heated and unheated areas. Unknown whether dimensions are for inside or outside of home .....	545	9
Total area known, but information on heated and unheated areas is missing. Also may be unknown whether dimensions are for inside or outside of home .....	162	3
Basement dimensions missing .....	150	3
Complete set of dimensions for all floors except basement. Basement total area known, but information on heated and unheated areas for basement is missing .....	56	1
All dimensions missing or unusable ....	141	2
Total .....	5,937	100

Note: The floor area for the 332 households responding by mail was imputed through a hot-deck procedure. The mail questionnaires are not included in this table.

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.

<sup>1</sup>This equation was developed in the following manner: Regression prediction equations were developed independently for homes measured from the inside and homes measured from the outside. Both equations were used to generate estimates of floorspace for homes measured from the inside in the range of 1,000 to 3,500 square feet. The relationship between the ratio of predicted "outside" to "inside" floorspace and the actual inside floorspace for these homes was fitted in a quadratic equation. The predicted scale factors from the quadratic equation were then applied to cases measured from the outside to estimate "inside" floorspace. A second quadratic fit of "outside" to "inside" floorspace was executed, this time using all households measured from the outside or inside with predicted or measured inside area in the range of 1,000 to 3,500 square feet. The last two steps were repeated until the quadratic fit of "outside" to "inside" converged to a stable solution.





## Appendix B (Continued)

### Treatment of Housing Units with Some Missing Data

The 545 cases lacking information as to whether the measurements were inside or outside, or in which the measurements may have been a combination of inside and outside, were treated to a hot-deck imputation scheme.<sup>2</sup> Those cases in which the imputed method of measurement became inside were then scaled up to outside dimensions by using Equation B1.

The 162 cases lacking information on the ratio of heated to unheated space were treated to a hot-deck procedure. The donor household provided the ratio of heated to unheated area. For most of these cases, information was also lacking as to whether the measurements were inside or outside. The donor household then furnished this information as well. The inside measurements were scaled up to outside dimensions.

For the 150 cases with missing basement dimensions, the basement area was imputed by using a simple regression based on the area of the first floor. The heated and unheated areas were determined or imputed and then added to known totals for the remaining floors. The total area was then scaled up to outside dimensions, if necessary.

There were 56 cases in which the ratio of heated to unheated space for the basement was unknown. This ratio was imputed by using an appropriate empirical distribution of heated to unheated ratios. Two such distributions were used: one for homes with basements only, and one for homes with a basement plus crawl space and/or slab.

### Regression Model

Two regression equations were used for the 141 cases with no usable data. The first was used whenever there were no questions about the presence of a basement; the second was used when basement existence could not be determined.

After HOMEAREA had been imputed by using the regression model, a hot-deck procedure was used to impute the ratio of heated to unheated space. All estimates were then scaled up. This was necessary since the regression equations estimated inside dimensions. The prediction equations for outside dimensions were not used in the imputations because regression models based on cases with inside measurements yielded substantially better fits.

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<sup>2</sup>See Glossary for explanation of hot-deck imputation.



## Appendix C

Limitations of  
the Data

$$RSE(X/Y) = \sqrt{RSE^2(X) + RSE^2(Y)}$$





# Appendix C

## Introduction

Data from the 1981 Residential Energy Consumption Survey (RECS) are subject to many sources of sampling error, nonsampling error, and bias. Sampling error is a measure of the variability in the data because a sample of households was surveyed rather than the entire population. Because the survey used probability sampling techniques, sampling errors of the survey estimates can be estimated and used as a guide in making inferences from the sample estimates to the total population.

Nonsampling error and bias are measures of variability due to the conduct of the survey. They can include population undercoverage during sampling, response bias and variance, interviewer error, coding and/or keypunching error, and nonresponse bias. The wording and format of survey questionnaires, the procedures used to select and train interviewers, and the quality control built into the data collection, receipt, and processing operations were all designed to minimize these sources of error (for discussion of these procedures, see Appendix A, "How the Survey Was Conducted"). In addition, response adjustments and ratio estimations were incorporated into the survey estimator to help reduce both sampling and nonsampling error. These procedures also are discussed in Appendix A.

## Nonsampling Errors

### Completeness of Data

This section discusses a number of factors related to the completeness of the consumption and expenditures data. Data are not collected for the following two types of housing units:

- Vacant housing units. These units may have minimal heating for protection from the weather and lighting for security. They also may not be vacant all year long. The Annual Housing Survey (AHS) estimated that there were about 5.5 million vacant housing units in 1977.
- Second homes for the owner's use. The AHS estimated that these homes numbered about 3 million in 1977.

These two types of units are not included primarily because of the difficulty in acquiring data and limitations in the availability of funds. The RECS data are collected by interviewing someone who knows the housing unit and who may sign an authorization form for release of fuel records from the fuel supplier. In these units, that type of person is not likely to be available.

In addition, the consumption and expenditures data for the household's primary residence do not include the following fuels:

- Gasoline and other fuels used in household vehicles. The RECS collects gasoline data through monthly purchase diaries from a subset of respondents composing a Household Transportation Panel and is reported separately.



## Appendix C (Continued)

- Wood used for heating. Although wood consumption data are collected, they are not included in this report. (Wood consumption is reported in Residential Energy Consumption Survey: Housing Characteristics, 1981, DOE/EIA-0314(81), (Washington, D.C., August 1983). This was done because the wood data are for the 12 months before the interview, rather than the April 1981 through March 1982 period, and are probably inflated estimates. Evidence indicates that more detailed questioning often leads a respondent to lower initial estimates of wood use. Some change in the questioning procedures and exhibits used is being planned for future RECS. These changes are designed to reduce confusion between a cord and a face cord (a face cord is 4 feet high and 8 feet wide, but the depth varies according to the length of the cut wood). Although the price of the most recent purchase of wood was collected, no attempt was made to use these data to estimate the total expenditures for wood.
- LPG used in outdoor gas grills, for camping, or for other recreational activities occurring away from the home.
- Coal, coke, corncobs, charcoal, alcohol, purchased steam, and solar energy used for household purposes.

The effect of these omissions is to underestimate the amount of energy consumed in the residential sector.

Upward adjustments were not made to account for these omissions. The effect of these omissions on average consumption and expenditures per household is difficult to assess and will require further methodological research. The most serious omission because of its size is for wood fuel consumption. The size of the underestimation for the omission of wood can be estimated from data collected in the survey and is estimated to equal 10 million Btu for 1981, about the same level as for 1980. If added to the average household energy use, the average would increase from 114 million to 124 million Btu. This estimate of wood fuel use is subject to the errors affecting data on wood fuel consumption (see Wood Burned in the Glossary).

One source of overcounting arises because some household bills contain nonhousehold uses such as for operating a welding shop or drying grain. Double counting could also occur when an owner's billing record also contains consumption for a rental unit. The RECS respondents estimated the amount of this nonhousehold use that is included on their bill. Using these estimates, downward adjustments were made for individual households to subtract their nonhousehold uses from their consumption and expenditures data.

The reader should also be aware that the data for fuel oil, kerosene, and LPG are for fuel delivered to the household between April 1, 1981, and March 31, 1982, not for fuel consumed. For this reason and because attempts to acquire actual fuel bills for these fuels are more often unsuccessful, these data should be viewed as less reliable than the electricity and natural gas data. Readers should also be aware that natural gas and fuel oil data for apartment buildings of five or more units are based largely on imputed estimates and, therefore, may contain an unknown amount of error from the imputation procedures.



## Appendix C (Continued)

### Quality of Specific Data Items

Expenditures as a Percentage of Income. The 1981 RECS is the first one for which expenditures for energy are shown as a percentage of the family's income. Several problems have stood in the way of reporting this statistic. First, RECS collects income data in categories, so that a family's income is known only by a range. The problem of not having a precise value was resolved for incomes less than \$20,000 by using the category midpoint when dividing the expenditures by the income; that is, \$3,500 was used for each household in the category \$3,000 to \$3,999. For incomes above \$20,000, the following values were assigned:

Income Category	Value Assigned		
	Family Size Is Not Used	Family Size Is One	Family Size Is More than One
\$20,000-24,999	\$22,323		
\$25,000-29,999	\$27,248		
\$30,000-34,999	\$32,177		
\$35,000-39,999			\$37,157
\$35,000-49,999		\$40,898	
\$40,000-49,999			\$44,153
\$50,000-74,999			\$58,370
\$50,000 and over		\$68,064	
\$75,000 and over			\$99,547

The second problem is that energy expenditures are based on the period April 1981 through March 1982, while income is based on calendar year 1980. The difference in time periods has the effect of increasing the size of the percentage, since an income from an earlier period is likely to be smaller, having been subject to less inflation. If the income had been "aged" to represent income for the consumption period, the 5.3-percent figure for the United States would probably have been reduced to 4.8 percent. This represents a 9-percent reduction in the national figure. It is not known how much the percentages would change for various income categories by using "aged" income data.

Indoor Temperatures. The data on indoor temperatures are believed to be generally accurate for the purpose of ordering households along a temperature gradient. The following limitations, however, are causes for further study of the role these data play in residential energy consumption. The questionnaire asked respondents for indoor temperatures during sleeping hours and during the day when the home was occupied and when it was unoccupied; the questionnaire did not ask for temperatures on a specific day. The implication was that typical temperatures were being requested. The reported temperatures, especially for some respondents, are impressions of typical temperatures and may not represent the actual temperatures, or the averages of actual temperatures, in the home. The tendency to give impressions is more likely to occur for households that turn off their heat during the day or night. Indoor temperatures for these households may not be known or may not follow a typical pattern since the outdoor weather conditions and the thermal characteristics of the housing unit will determine the indoor temperature.



## Appendix C (Continued)

Other factors likely to make these reports unreliable indicators of the actual temperatures include the following: respondents may not check temperatures or thermostat settings on a regular basis or may not have thermostats that are marked with degree settings; temperatures may differ from thermostat settings (a home can become warmer than the thermostat setting); thermostats may need to be recalibrated; and, finally, disagreement may exist among household members as to the typical temperature. The unreliability of these data for some respondents was highlighted when a small number of households were called back to inquire about nighttime temperatures that exceeded daytime temperatures. Many of these households changed their reports by 5 to 10 degrees or more.

Urban-Rural. The U.S. Bureau of the Census has developed rules for defining places as urban or rural. The general import of these rules is to classify a place as urban if it contains more than 2,500 individuals. The rules contain exceptions, however, and the boundaries of places classified as urban by the Bureau of the Census may be ambiguous. As a result, the rules may not always have been applied to the RECS, Screener, and NIECS households in the way intended by the Bureau of the Census. For this reason, estimates of urban and rural populations from the RECS, Screener, and NIECS surveys may differ from the Bureau of the Census figures. The classification scheme for metropolitan areas (SMSA and non-SMSA) used for the RECS, Screener, and NIECS surveys does correspond to the classifications used by the Bureau of the Census. The designation of metropolitan areas is based on county boundary lines (except New England), which is a less ambiguous defining characteristic.

### Sampling Errors

The form of the sampling error that is presented here is the relative standard error (RSE). For a given survey statistic, Y, the relative standard error, RSE (Y), is given by

$$RSE (Y) = (S_Y / Y) \times 100\%.$$

Thus the standard error of Y is given by

$$S_Y = RSE (Y) \times Y/100.$$

This section provides generalized procedures and examples for use in calculating relative standard errors for several types of statistics from the 1981 RECS survey.<sup>1</sup> The generalized procedures involve the use of tables that relate the RSE of a statistic to the number of households over which the statistic applies. These tables are based on regression equations developed using RSE's computed by a half-sample replication procedure. They were developed for the 1981 RECS data and will change for subsequent surveys. The end of this section provides a discussion of the half-sample replication technique and the generalized sampling error equations developed and used in this section. Generalized procedures are provided for household counts, percentages based upon counts, aggregate totals, and averages per household for consumption and expenditures for each fuel and the total of all fuels.

<sup>1</sup>The source of data for the calculation of relative standard errors is the 1981 Residential Energy Consumption Survey.





## Appendix C (Continued)

**Table C1. Relative Standard Errors for Survey Estimates of the Number of Households**

Million Household	One Relative Standard Error (Percent)
0.1	44.4
0.2	34.1
0.3	29.0
0.4	25.8
0.5	23.5
0.6	21.7
0.7	20.3
0.8	19.2
0.9	18.2
1.0	17.4
1.5	14.5
2.0	12.7
3.0	10.5
4.0	9.1
5.0	8.2
10.0	5.7
20.0	4.0
40.0	2.7

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.

**Table C2. Clustering Factors for Calculation of Relative Standard Errors for Survey Estimates of the Number of Households**

Cell Definition	Value of 10 <sup>B</sup>
Heating and Cooling Degree-Days .....	1.67
Electricity Is Main Heating Fuel .....	1.21
Other Main Heating Fuel <sup>a</sup> .....	1.15
Natural Gas Is Main Heating Fuel .....	1.07
LPG Is Main Heating Fuel .....	1.06
Temperature Setting When At Home .....	1.06
Wood Is Main Heating Fuel .....	1.04
Year Built .....	1.03
Age of Head of Household .....	0.98
Number of Heated Square Footage .....	0.89
Fuel Oil Is Main Heating Fuel .....	0.87
Family Income .....	0.85
Number of Household Members .....	0.82

<sup>a</sup>Main heating fuel other than electricity, natural gas, LPG, wood, or fuel oil.

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.



## Appendix C (Continued)

### Determination of Relative Sampling Errors for Household Counts

Procedures are presented here for determining relative sampling errors (RSE) for statistics that are counts of households. The counts can be obtained from this report, previous reports of the 1981 RECS, or the public-use data tape for the 1981 RECS. For some household counts, the RSE is zero. Household counts with a zero RSE are called control totals. A simplified method for determining RSE's for household counts that are not control totals is presented, followed by a more complete, longer method. The simplified method can be used for any household count, but it will produce overestimates of sampling errors in some cases.

Control Totals. For each of the four Census regions, the number of households that live in central cities of SMSA's, the number that live in SMSA's but outside central cities, and the number that do not live in SMSA's were used as design parameters for the 1981 RECS. These household counts are listed in Table C3. The counts will have zero RSE's or sampling error in the RECS. They are based on results of the Current Population Survey (CPS) compiled by the U.S. Bureau of the Census. The CPS surveys are subject to their own sampling variances. Any errors in these numbers can be considered to be biases of the 1981 RECS. In this report, these household counts or sums of these counts are referred to as control totals.

Simplified Method. For a household count that is not a control total, read or extrapolate its RSE value from Table C1. (The RSE's listed in Table C1 can be obtained by using the first equation listed in Table C9.) The value should be adjusted by multiplying by the appropriate value or values for  $10^B$  from Table C2.

If the characteristic of the statistic being considered is not listed in Table C2, use  $B=0$  ( $10^B=1$ ), or use a value for a characteristic that has similar clustering tendencies. If two characteristics define the statistic, multiply by both values of  $10^B$  from Table C2. If more than two characteristics define the variable, choose no more than two and select the two that are the least correlated. A more complete discussion of the clustering factors is given later in this appendix. (See "Discussion of Generalized Variance Equations.")

Longer Method. The second method for calculating sampling errors for household counts uses the control totals listed in Table C3.

- Step 1: Find the statistic's appropriate control from Table C3. The control total is the number of households in the Census division/SMSA status cell for which the sampling error is being determined. The control may be the sum of several control totals provided. If the correct control is not obvious, use the larger of several, which may be correct. If the household count is a control total, set the RSE equal to zero; otherwise, proceed to Step 2.
- Step 2: If the household count is less than one-half of its control total, use method one described earlier. If not, compute a control complement for the household count and proceed to Step 3. Control complement = (control total - household count).
- Step 3: Use the control complement as the new household count. Then read or extrapolate its RSE value from Table C1. Multiply this value by the appropriate  $10^B$  value or values from Table C2. Denote this as CCRSE.
- Step 4: Multiply the CCRSE value from Step 3 by the control complement and divide by the household count. This yields:  
$$RSE = CCRSE \times (\text{control complement}) / (\text{household count}).$$



## Appendix C (Continued)

**Table C3. Relative Standard Error Control Totals (Million Households)**

Type of Aggregate	Control Totals	Upper Bound for Direct Application of Formula or Table
National .....	83.1	41.6
Census Region		
Northeast .....	17.9	9.0
North Central .....	21.2	10.6
South .....	27.7	13.8
West .....	16.3	8.1
SMSA Status		
SMSA-Central City .....	24.6	12.3
SMSA-Outside Central City .....	32.0	16.0
Non-SMSA .....	26.5	13.3
Census Region by SMSA		
Northeast		
SMSA-Central City .....	6.0	3.0
SMSA-Outside Central City .....	8.1	4.1
Non-SMSA .....	3.8	1.9
North Central		
SMSA-Central City .....	5.9	2.9
SMSA-Outside Central City .....	8.0	4.0
Non-SMSA .....	7.4	3.7
South		
SMSA-Central City .....	7.4	3.7
SMSA-Outside Central City .....	8.5	4.2
Non-SMSA .....	11.9	5.9
West		
SMSA-Central City .....	5.4	2.7
SMSA-Outside Central City .....	7.4	3.7
Non-SMSA .....	3.5	1.7

Source: Estimates derived from the 1980 Decennial Census and Current Population Surveys.

Consider the computation of sampling error for the estimate; 15.4 million households heat with natural gas in the North Central region.

- Step 1: From Table C3, the control total is 21.2 million, the number of households that live in the North Central region.
- Step 2: The number 15.4 million is more than one-half of 21.2. Its control complement then is  $(21.2 - 15.4 = 5.8)$ .
- Step 3: Extrapolating from Table C1, the RSE for 5.8 is 7.58 percent. Multiply 7.58 by the values for  $10^B$  from Table C2 for household counts over categories restricted to households whose main space-heating fuel is natural gas.  $(7.58 \times 1.07 = 8.11$  percent.)



## Appendix C (Continued)

### Determination of Relative Sampling Errors for Percentages Based Upon Household Counts

Step 4: Multiply CCRSE by the control complement divided by the household count.  
(RSE =  $8.11 \times 5.8/15.4 = 3.05$  percent.)

The standard error corresponding to this relative standard error applies to both the control complement and the original household count.

Let X be an estimate of the number of households that have characteristics  $C_1$  and  $C_2$ . Let Z be an estimate of the number of households that have characteristic  $C_1$  but do not have characteristic  $C_2$ . Set  $Y = X + Z$ . Then Y is an estimate of the number of households that have characteristic  $C_1$ . Set  $p = 100 X/Y$ . Then p is an estimate of the percentage of households that have characteristic  $C_2$  among all households that have characteristic  $C_1$ . The RSE of p can be approximated using

$$RSE(p) = \sqrt{RSE^2(X) - RSE^2(Y)}$$

This approximation works best when RSE(X) and RSE(Y) are estimated using a generalized variance equation. The approximation may differ greatly from the correct value if RSE(X) and RSE(Y) are half-sample estimates. This equation may also produce inaccurate approximations when it is applied to percentages that are not based on household counts or are based on ratios of household counts that cannot be characterized by the format.

### Determination of Relative Standard Errors for Fuel Consumption and Expenditure Statistics

The RSE's of statistics that give the aggregate total or average per household fuel consumption or expenditures can be approximated by using Tables C4 through C8. The RSE's listed in Tables C4 through C8 can be obtained using the equations listed in Table C9.

The tables give the RSE of a statistic as a function of the number of households involved in calculating the statistic. For total consumption or expenditures, the number of households is the number over which the total applies. For consumption or expenditures by fuel, the number of households is the number that use the fuel in question and whose consumption or expenditures are used in calculating the statistic for which one desires an RSE. For example, consider the Northeast Census region. The weights for the observations used in the RECS were adjusted so that the number of households in the Northeast Census region equals 17.9 million. This is the number used when computing the RSE for the total residential energy consumption in the Northeast. For electricity consumption, again use 17.9 million. But for natural gas consumption, the number of households equals 11.3 million. This is the number of households that live in the Northeast and use natural gas. The counts of households are provided for the "all fuels" category in Tables 1 through 3 in the report. But for specific fuels such as natural gas, the reader should turn to the table that covers that fuel for the appropriate household counts to be used in computing an RSE.

The tables for aggregate total consumption, total expenditures, electricity consumption, and electricity expenditures contain an indicator variable. This variable equals 1 when the household count is a control total from Table C3. It equals zero otherwise. Consider the following examples of the use of these tables.



## Appendix C (Continued)

**Table C4. Relative Standard Errors for Aggregate Statistics of Total Consumption and Expenditures (Natural Gas, Electricity, Fuel Oil or Kerosene, and LPG—Combined)**

Million Households	Relative Standard Error (Percent)			
	Consumption (Btu) Indicator Variable		Expenditures (Dollars) Indicator Variable	
	One	Zero	One	Zero
0.1	36.0	43.8	27.5	43.2
0.2	26.6	32.4	20.1	31.6
0.3	22.3	27.2	16.8	26.4
0.4	19.7	24.0	14.8	23.2
0.5	17.9	21.8	13.4	21.0
0.6	16.5	20.1	12.3	19.3
0.7	15.5	18.8	11.5	18.0
0.8	14.6	17.7	10.8	17.0
0.9	13.9	16.9	10.3	16.1
1.0	13.2	16.1	9.8	15.4
1.5	11.1	13.5	8.2	12.8
2.0	9.8	11.9	7.2	11.3
3.0	8.2	10.0	6.0	9.4
4.0	7.3	8.8	5.3	8.3
5.0	6.6	8.0	4.8	7.5
10.0	4.9	5.9	3.5	5.5
20.0	3.6	4.4	2.6	4.0
40.0	2.7	3.2	1.9	2.9
80.0	2.0	2.4	1.4	2.2

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.

There are 1.5 million households that heat with electricity in the Northeast region. Reading from Table C5, column 3 yields an RSE of 14.6 for total electricity consumption for households in the Northeast that heat with electricity. An indicator value of zero was used because 1.5 is not a control total listed in Table C3.

As another example, there are 27.7 million households that consume electricity in the South region. The control totals in Table C3 indicate that 27.7 million households live in the South. In this case, choose an indicator value of 1, since the household count is identical to the control total. Extrapolating from Table C5, column 2 yields an RSE of 3.4 percent for total electricity consumption for the 27.7 million households.

Relative Standard Errors for  
Average Price

The relative standard errors of statistics giving average price were not generalized. The magnitude of the RSE's can be obtained by examining Tables C5, C7, C10, and C11 in the report, Residential Energy Consumption Survey: Consumption and Expenditures-- April 1980 Through March 1981, Part 1: National Data (DOE/EIA-0321/1, Washington, D.C., September 1982). An inspection of these tables reveals that there is not a linear relationship between the logarithms of the RSE's and the corresponding household counts. As a result, the RSE's were not generalized.



## Appendix C (Continued)

**Table C5. Relative Standard Errors for Aggregate Statistics of Electricity Consumption and Expenditures**

Million Households	Relative Standard Error (Percent)			
	Consumption (Btu or kWh) Indicator Variable		Expenditures (Dollars) Indicator Variable	
	One	Zero	One	Zero
0.1	41.1	49.0	32.7	48.8
0.2	30.2	35.9	23.8	35.6
0.3	25.2	30.0	19.8	29.6
0.4	22.1	26.4	17.4	26.0
0.5	20.0	23.9	15.7	23.5
0.6	18.5	22.0	14.5	21.6
0.7	17.2	20.5	13.5	20.2
0.8	16.2	19.3	12.7	19.0
0.9	15.4	18.3	12.0	18.0
1.0	14.7	17.5	11.5	17.1
1.5	12.3	14.6	9.6	14.3
2.0	10.8	12.8	8.4	12.5
3.0	9.0	10.7	7.0	10.4
4.0	7.9	9.4	6.1	9.1
5.0	7.2	8.5	5.5	8.3
10.0	5.2	6.2	4.0	6.0
20.0	3.8	4.6	2.9	4.4
40.0	2.8	3.4	2.2	3.2
80.0	2.1	2.5	1.6	2.3

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.



## Appendix C (Continued)

**Table C6. Relative Standard Errors for Aggregate Statistics of Natural Gas, Fuel Oil or Kerosene, and LPG Consumption and Expenditures**

Million Households	Relative Standard Error (Percent)					
	Natural Gas		Fuel Oil or Kerosene		LPG	
	Consumption (Btu or Cubic Ft.)	Expenditures (Dollars)	Consumption (Btu or Gallons)	Expenditures (Dollars)	Consumption (Btu or Gallons)	Expenditures (Dollars)
0.1	46.5	45.9	48.6	48.4	52.5	50.0
0.2	35.2	34.5	35.8	35.7	40.7	39.3
0.3	29.9	29.2	29.9	29.8	35.1	34.2
0.4	26.7	25.9	26.4	26.3	31.6	31.0
0.5	24.4	23.7	23.9	23.8	29.1	28.7
0.6	22.7	21.9	22.0	22.0	27.2	26.9
0.7	21.3	20.6	20.6	20.5	25.7	25.5
0.8	20.2	19.5	19.4	19.4	24.5	24.4
0.9	19.3	18.6	18.4	18.4	23.4	23.4
1.0	18.5	17.8	17.6	17.5	22.5	22.5
1.5	15.7	15.0	14.7	14.7	19.4	19.6
2.0	14.0	13.4	12.9	12.9	17.5	17.7
3.0	11.9	11.3	10.8	10.8	15.1	15.4
4.0	10.6	10.0	9.5	9.5	13.6	14.0
5.0	9.7	9.2	8.6	8.6	12.5	12.9
10.0	7.3	6.9	6.3	6.3	9.6	10.1
20.0	5.6	5.2	4.7	4.7	7.5	8.0
40.0	4.2	3.9	3.4	3.4	5.8	6.3
80.0	3.2	2.9	2.5	2.5	4.5	4.9

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.



## Appendix C (Continued)

**Table C7. Relative Standard Errors for Total Consumption and Expenditures per Household (Natural Gas, Electricity, Fuel Oil or Kerosene, and LPG—Combined)**

Million Households	Relative Standard Error (Percent)	
	Consumption per Household (Btu)	Expenditures per Household (Dollars)
0.1	17.3	15.6
0.2	13.7	12.1
0.3	12.0	10.5
0.4	10.9	9.4
0.5	10.1	8.7
0.6	9.5	8.1
0.7	9.0	7.7
0.8	8.6	7.3
0.9	8.3	7.0
1.0	8.0	6.8
1.5	7.0	5.8
2.0	6.4	5.3
3.0	5.5	4.5
4.0	5.0	4.1
5.0	4.7	3.8
10.0	3.7	2.9
20.0	2.9	2.3
40.0	2.3	1.8
80.0	1.8	1.4

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.





## Appendix C (Continued)

**Table C8. Relative Standard Errors for Natural Gas, Electricity, Fuel Oil or Kerosene, and LPG Consumption and Expenditures per Household**

Million Households	Relative Standard Error (Percent)							
	Natural Gas		Electricity		Fuel Oil or Kerosene		LPG	
	Consumption per Household (Btu or Cubic Feet)	Expenditures per Household (Dollars)	Consumption per Household (Btu or kWh)	Expenditures per Household (Dollars)	Consumption per Household (Btu or Gallons)	Expenditures per Household (Dollars)	Consumption per Household (Btu or Gallons)	Expenditures per Household (Dollars)
0.1	20.7	21.2	25.7	22.9	27.5	27.4	37.4	32.4
0.2	16.2	16.1	19.6	17.3	19.6	19.5	28.4	25.0
0.3	14.0	13.7	16.7	14.7	16.1	16.0	24.2	21.4
0.4	12.6	12.2	14.9	13.1	14.0	13.9	21.6	19.2
0.5	11.6	11.2	13.7	11.9	12.5	12.5	19.8	17.7
0.6	10.9	10.4	12.7	11.1	11.4	11.4	18.4	16.5
0.7	10.3	9.7	12.0	10.4	10.6	10.6	17.3	15.5
0.8	9.8	9.2	11.4	9.9	9.9	9.9	16.4	14.8
0.9	9.4	8.8	10.8	9.4	9.4	9.4	15.7	14.1
1.0	9.1	8.5	10.4	9.0	8.9	8.9	15.0	13.6
1.5	7.9	7.2	8.9	7.7	7.3	7.3	12.8	11.7
2.0	7.1	6.4	7.9	6.8	6.4	6.3	11.4	10.5
3.0	6.1	5.4	6.8	5.8	5.2	5.2	9.7	9.0
4.0	5.5	4.9	6.0	5.1	4.5	4.5	8.7	8.0
5.0	5.1	4.4	5.5	4.7	4.1	4.1	7.9	7.4
10.0	4.0	3.4	4.2	3.5	2.9	2.9	6.0	5.7
20.0	3.1	2.6	3.2	2.7	2.1	2.1	4.6	4.4
40.0	2.4	1.9	2.4	2.0	1.5	1.5	3.5	3.4
80.0	1.9	1.5	1.9	1.5	1.0	1.0	2.7	2.4

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.



## Appendix C (Continued)

**Table C9. Relative Standard Error Equations**

Type of Statistic	Generalized Variance Equation
Household Counts .....	$\text{Log(RSE)} = 1.240 - 0.444 \times \text{Log(NHSLD)} - 0.037 \times [(\text{Log(NHSLD)})^2]$ .
Total Consumption .....	$\text{Log(RSE)} = 1.207 - 0.434 \times \text{Log(NHSLD)} - 0.085 \times (\text{CONTOT})$ .
Total Expenditures .....	$\text{Log(RSE)} = 1.187 - 0.448 \times \text{Log(NHSLD)} - 0.196 \times (\text{CONTOT})$ .
Electricity Consumption ....	$\text{Log(RSE)} = 1.243 - 0.447 \times \text{Log(NHSLD)} - 0.076 \times (\text{CONTOT})$ .
Electricity Expenditures ...	$\text{Log(RSE)} = 1.234 - 0.454 \times \text{Log(NHSLD)} - 0.174 \times (\text{CONTOT})$ .
Natural Gas Consumption ....	$\text{Log(RSE)} = 1.267 - 0.400 \times \text{Log(NHSLD)}$ .
Natural Gas Expenditures ...	$\text{Log(RSE)} = 1.250 - 0.412 \times \text{Log(NHSLD)}$ .
Fuel Oil or Kerosene Consumption .....	$\text{Log(RSE)} = 1.245 - 0.442 \times \text{Log(NHSLD)}$ .
Fuel Oil or Kerosene Expenditures .....	$\text{Log(RSE)} = 1.244 - 0.441 \times \text{Log(NHSLD)}$ .
LPG Consumption .....	$\text{Log(RSE)} = 1.353 - 0.367 \times \text{Log(NHSLD)}$ .
LPG Expenditures .....	$\text{Log(RSE)} = 1.353 - 0.346 \times \text{Log(NHSLD)}$ .
Average Total Energy Consumption .....	$\text{Log(RSE)} = 0.904 - 0.335 \times \text{Log(NHSLD)}$ .
Average Total Energy Expenditures .....	$\text{Log(RSE)} = 0.830 - 0.362 \times \text{Log(NHSLD)}$ .
Average Electricity Consumption .....	$\text{Log(RSE)} = 1.017 - 0.393 \times \text{Log(NHSLD)}$ .
Average Electricity Expenditures .....	$\text{Log(RSE)} = 0.955 - 0.405 \times \text{Log(NHSLD)}$ .
Average Natural Gas Consumption .....	$\text{Log(RSE)} = 0.958 - 0.358 \times \text{Log(NHSLD)}$ .
Average Natural Gas Expenditures .....	$\text{Log(RSE)} = 0.927 - 0.400 \times \text{Log(NHSLD)}$ .
Average Fuel Oil or Kerosene Consumption .....	$\text{Log(RSE)} = 0.950 - 0.489 \times \text{Log(NHSLD)}$ .
Average Fuel Oil or Kerosene Expenditures .....	$\text{Log(RSE)} = 0.949 - 0.488 \times \text{Log(NHSLD)}$ .
Average LPG Consumption ....	$\text{Log(RSE)} = 1.177 - 0.396 \times \text{Log(NHSLD)}$ .
Average LPG Expenditures ...	$\text{Log(RSE)} = 1.133 - 0.378 \times \text{Log(NHSLD)}$ .

Note: NHSLD is the number of households in millions. Logarithms are calculated to the base 10. CONTOT is an indicator variable.

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.



## Appendix C (Continued)

Relative Standard Errors for  
Residential Wood Consumption  
and Expenditures

The relative standard errors for residential wood consumption and expenditures are found in Table C10. The RSE's for these statistics were not generalized as were most other statistics.

**Table C10. Relative Standard Errors: U.S. Residential Wood Consumption and Expenditures for the Year Ending November 1981, United States**

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS BURNING WOOD		TOTAL NUMBER OF CORDS BURNED		AVERAGE NUMBER OF CORDS BURNED PER HOUSEHOLD
	(MILLIONS)	(PERCENT)	(MILLIONS)	(PERCENT)	
TOTAL HOUSEHOLDS.....	5.0	0.0	15.9	0.0	14.5
AREA TYPE					
URBAN.....	7.1	6.9	8.6	14.4	8.9
RURAL.....	8.0	4.8	19.5	4.5	16.4
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)					
LESS THAN 999.....	15.0	12.3	24.2	17.6	16.1
1,000 TO 1,999.....	6.0	4.1	14.2	6.6	14.0
2,000 OR MORE.....	6.1	4.8	19.7	7.8	18.3
1980 FAMILY INCOME					
LESS THAN \$10,000.....	12.6	10.5	22.9	14.1	18.3
\$10,000 TO \$19,999.....	11.1	9.5	25.1	9.8	17.9
\$20,000 TO \$34,999.....	6.8	5.0	15.3	9.0	16.1
\$35,000 OR MORE.....	10.2	9.5	12.2	17.7	11.1
AMOUNT OF WOOD BURNED					
1/3-1 CORD.....	8.8	7.7	9.4	21.5	2.8
2 TO 3 CORDS.....	9.9	8.6	10.3	20.6	1.6
4 CORDS OR MORE.....	18.4	17.2	27.4	12.3	10.2
WOOD IS MAIN HEATING FUEL					
YES.....	12.4	10.3	24.7	10.1	15.8
NO.....	6.4	4.9	8.1	13.5	8.2
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE					
<2,000 CDD AND >7,000 HDD.....	30.1	28.6	47.2	32.4	21.7
<2,000 CDD AND 5,500 TO 7,000 HDD.....	15.4	16.0	16.9	25.2	12.6
<2,000 CDD AND 4,000 TO 5,499 HDD.....	16.4	15.1	16.8	25.7	7.0
<2,000 CDD AND <4,000 HDD.....	13.5	13.9	15.8	20.6	8.0
>2,000 CDD AND <4,000 HDD.....	18.4	18.0	20.9	28.7	10.0

See footnotes at end of table.



## Appendix C (Continued)

**Table C10. (Continued)**  
**Census Region: Northeast**

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS BURNING WOOD		TOTAL NUMBER OF CORDS BURNED		AVERAGE NUMBER OF CORDS BURNED PER HOUSEHOLD
	(MILLIONS)	(PERCENT)	(MILLIONS)	(PERCENT)	
TOTAL HOUSEHOLDS.....	12.8	0.0	48.1	0.0	34.6
AREA TYPE					
URBAN.....	13.5	15.5	24.4	33.7	20.2
RURAL.....	21.6	11.9	55.6	9.6	36.0
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)					
LESS THAN 999.....	31.1	21.4	55.9	31.3	34.8
1,000 TO 1,999.....	12.3	5.6	44.8	9.4	33.7
2,000 OR MORE.....	12.6	4.2	50.6	8.0	38.3
1980 FAMILY INCOME					
LESS THAN \$10,000.....	41.5	28.7	61.6	28.0	31.9
\$10,000 TO \$19,999.....	30.0	17.3	67.5	22.1	38.6
\$20,000 TO \$34,999.....	12.5	7.9	50.5	12.8	39.7
\$35,000 OR MORE.....	11.6	17.9	12.6	49.0	11.6
AMOUNT OF WOOD BURNED					
1/3-1 CORD.....	15.6	23.7	16.9	69.2	4.8
2 TO 3 CORDS.....	16.7	20.1	15.2	62.4	3.4
4 CORDS OR MORE.....	46.9	33.4	63.7	18.2	19.7
WOOD IS MAIN HEATING FUEL					
YES.....	45.6	31.4	66.3	21.4	26.4
NO.....	7.9	14.6	20.7	35.9	22.8
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE					
<2,000 CDD AND >7,000 HDD.....	62.5	47.7	80.4	36.4	26.2
<2,000 CDD AND 5,500 TO 7,000 HDD.....	25.0	31.9	28.2	72.4	19.1
<2,000 CDD AND 4,000 TO 5,499 HDD.....	27.2	32.1	32.9	72.6	9.2
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-

See footnotes at end of table.



# Appendix C (Continued)

**Table C10. (Continued)**  
**Census Region: North Central**

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS BURNING WOOD		TOTAL NUMBER OF CORDS BURNED		AVERAGE NUMBER OF CORDS BURNED PER HOUSEHOLD
	(MILLIONS)	(PERCENT)	(MILLIONS)	(PERCENT)	
TOTAL HOUSEHOLDS.....	12.4	0.0	19.3	0.0	14.5
AREA TYPE					
URBAN.....	18.6	15.8	22.3	36.7	20.2
RURAL.....	15.2	7.4	24.0	7.0	15.7
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)					
LESS THAN 999.....	37.4	33.1	51.9	39.5	28.2
1,000 TO 1,999.....	14.9	11.2	17.5	16.5	18.5
2,000 OR MORE.....	15.1	10.9	13.9	16.2	10.5
1980 FAMILY INCOME					
LESS THAN \$10,000.....	27.3	20.2	41.4	27.2	28.1
\$10,000 TO \$19,999.....	14.7	13.9	22.0	11.3	14.6
\$20,000 TO \$34,999.....	12.9	7.5	14.0	22.2	10.2
\$35,000 OR MORE.....	25.1	21.4	43.4	49.6	40.2
AMOUNT OF WOOD BURNED					
1/3-1 CORD.....	16.8	9.6	17.2	22.5	7.3
2 TO 3 CORDS.....	16.4	17.8	17.8	33.1	4.2
4 CORDS OR MORE.....	24.3	18.2	27.7	11.2	11.3
WOOD IS MAIN HEATING FUEL					
YES.....	25.0	19.7	33.6	18.5	17.3
NO.....	13.5	7.5	12.9	22.3	6.3
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE					
<2,000 CDD AND >7,000 HDD.....	35.1	31.5	45.3	33.3	24.7
<2,000 CDD AND 5,500 TO 7,000 HDD.....	23.3	19.0	26.0	36.6	21.9
<2,000 CDD AND 4,000 TO 5,499 HDD.....	40.8	45.0	56.7	70.7	21.6
<2,000 CDD AND <4,000 HDD.....	-	-	-	-	-
>2,000 CDD AND <4,000 HDD.....	-	-	-	-	-

See footnotes at end of table.



## Appendix C (Continued)

**Table C10. (Continued)**  
**Census Region: South**

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS BURNING WOOD		TOTAL NUMBER OF CORDS BURNED		AVERAGE NUMBER OF CORDS BURNED PER HOUSEHOLD
	(MILLIONS)	(PERCENT)	(MILLIONS)	(PERCENT)	
TOTAL HOUSEHOLDS.....	9.4	0.0	7.7	0.0	6.9
AREA TYPE					
URBAN.....	11.5	14.1	15.1	18.1	9.3
RURAL.....	14.2	6.6	11.8	5.4	9.3
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)					
LESS THAN 999.....	25.9	21.4	27.3	23.5	13.5
1,000 TO 1,999.....	9.7	7.9	12.0	11.7	9.8
2,000 OR MORE.....	12.2	8.3	14.6	13.4	6.4
1980 FAMILY INCOME					
LESS THAN \$10,000.....	20.2	17.7	19.3	16.1	16.2
\$10,000 TO \$19,999.....	14.6	9.1	12.4	7.6	16.9
\$20,000 TO \$34,999.....	18.2	15.2	21.1	21.1	8.9
\$35,000 OR MORE.....	15.4	14.9	18.6	17.1	9.5
AMOUNT OF WOOD BURNED					
1/3-1 CORD.....	14.1	8.2	15.7	13.1	3.1
2 TO 3 CORDS.....	16.4	12.5	18.1	18.4	3.3
4 CORDS OR MORE.....	15.9	19.2	22.4	19.4	8.4
WOOD IS MAIN HEATING FUEL					
YES.....	13.4	10.7	13.5	9.7	10.2
NO.....	13.1	7.7	15.7	15.2	6.7
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE					
<2,000 CDD AND >7,000 HDD.....	-	-	-	-	-
<2,000 CDD AND 5,500 TO 7,000 HDD.....	-	-	-	-	-
<2,000 CDD AND 4,000 TO 5,499 HDD.....	34.0	28.4	30.3	26.0	18.5
<2,000 CDD AND <4,000 HDD.....	15.4	19.2	18.9	22.7	8.8
>2,000 CDD AND <4,000 HDD.....	18.3	16.5	20.4	18.8	10.4

See footnotes at end of table.



# Appendix C (Continued)

**Table C10. (Continued)  
Census Region: West**

HOUSEHOLD CHARACTERISTICS	NUMBER OF HOUSEHOLDS BURNING WOOD		TOTAL NUMBER OF CORDS BURNED		AVERAGE NUMBER OF CORDS BURNED PER HOUSEHOLD
	(MILLIONS)	(PERCENT)	(MILLIONS)	(PERCENT)	
TOTAL HOUSEHOLDS.....	8.1	0.0	11.8	0.0	8.4
AREA TYPE					
URBAN.....	9.9	7.7	12.4	10.0	8.0
RURAL.....	16.0	12.3	16.1	7.6	12.2
MEASURED HEATED SPACE OF RESIDENCE (IN SQUARE FEET)					
LESS THAN 999.....	16.9	15.1	26.6	22.4	17.3
1,000 TO 1,999.....	10.4	6.2	14.3	9.7	8.6
2,000 OR MORE.....	15.4	13.6	20.6	16.4	13.6
1980 FAMILY INCOME					
LESS THAN \$10,000.....	13.9	12.8	23.4	20.1	23.0
\$10,000 TO \$19,999.....	20.1	20.5	23.2	15.4	16.9
\$20,000 TO \$34,999.....	12.1	7.4	12.8	7.9	11.5
\$35,000 OR MORE.....	14.0	10.2	14.8	16.7	9.2
AMOUNT OF WOOD BURNED					
1/3-1 CORD.....	11.3	6.5	14.0	15.2	5.0
2 TO 3 CORDS.....	11.9	11.5	12.8	13.4	2.5
4 CORDS OR MORE.....	21.8	19.8	23.1	14.2	5.2
WOOD IS MAIN HEATING FUEL					
YES.....	14.2	12.7	19.9	12.6	14.5
NO.....	9.4	3.9	12.4	10.4	10.0
HEATING DEGREES-DAYS (HDD) AND COOLING DEGREES-DAYS (CDD)--LONG-TERM AVERAGE					
<2,000 CDD AND >7,000 HDD.....	15.4	16.5	28.5	27.1	15.8
<2,000 CDD AND 5,500 TO 7,000 HDD.....	30.5	29.8	27.2	23.6	18.4
<2,000 CDD AND 4,000 TO 5,499 HDD.....	25.7	24.1	28.8	22.3	15.5
<2,000 CDD AND <4,000 HDD.....	19.1	17.5	19.9	25.9	4.8
>2,000 CDD AND <4,000 HDD.....	45.9	44.0	47.3	45.3	55.8

"-" = DATA NOT APPLICABLE.

"Q" = DATA WITHHELD BECAUSE OF A LARGE VARIANCE.

NOTE: BECAUSE OF ROUNDING, DATA MAY NOT SUM TO TOTALS. PERCENTAGES ARE CALCULATED ON UNROUNDED NUMBERS. SEE GLOSSARY FOR DEFINITION OF TERMS USED IN THIS REPORT.

SOURCE: ENERGY INFORMATION ADMINISTRATION, OFFICE OF ENERGY MARKETS AND END USE, ENERGY END USE DIVISION, FORM EIA-457, THE 1981 RESIDENTIAL ENERGY CONSUMPTION SURVEY.

## Discussion of the Generalized Variance Equations

The generalized variance equations shown in Table C9 were obtained using a least squares regression. They can be used to approximate the RSE's of statistics that give household counts, fuel consumption, or expenditures. The RSE's used as input data in the regression procedure were obtained using a half-sample variance estimating procedure. The details of this procedure follow this discussion. The generalized variance equations were developed to provide users of the 1981 RECS data with a procedure for obtaining RSE's.



## Appendix C (Continued)

The regression equations will not exactly reproduce the RSE's for some published statistics from the 1981 RECS reports. These are half-sample estimates. Half-sample estimates were used to determine the generalized variance equations. Generally, a regression line will not pass through all points used in estimating the parameters of the regression line.

The generalized variance equations listed in this report apply only to data for the 1981 RECS. These equations will have to be changed if they are to be applied to data from other RECS surveys. They cannot be used with any other data sets, since they reflect the sample design of the 1981 Residential Energy Consumption Survey.

In calculating sampling errors for household count statistics, the appropriate control total depends upon the geographic division to which the household count is restricted. Table C3 lists control totals for the country as a whole, the four Census regions, SMSA status, and Census region by SMSA status. Control totals can also be sums of the control totals listed in Table C3. For example, if one is considering the number of households in the country whose main heating fuel is fuel oil, then from Table C3, the control total is the estimated number of households in the country (83.1 million). If one wants the number of households that heat with fuel oil in central cities in New England, the appropriate control total is the number of households in the Northeast located in SMSA-central cities (6.0 million), from Table C3. The New England Census division is contained in the Northeast Census region, but Census division was not used as a control total. If the appropriate control total is not obvious, use the larger of the ones that may be appropriate. This will be a conservative choice.

A household count statistic is an estimate of the number of households that belong to a certain subset of all households in the country. The subset is defined by restrictions on certain characteristics. The value of  $10^B$  from Table C2, the cell definition factor, depends partly on the amount of clustering of the characteristics used in defining the cell. In particular, the value of  $10^B$  depends on the strength of the tendency of households with similar characteristics to live in groups within each replicate pair. (See "Half-Sample Estimation Procedures for Sampling Errors" heading for a discussion of replication.) If the characteristic is highly clustered, the value of  $10^B$  is greater than one. If the characteristic is widely spread out, the value of  $10^B$  is less than one. For example, one possible characteristic is heating and cooling degree-days. People who live close to each other experience the same weather conditions; consequently, the value of  $10^B$  for heating and cooling degree-days is greater than one. On the other hand, there is some clustering of households headed by people of the same age group, but this tendency is less pronounced than for most other characteristics. As a result, the value of  $10^B$  for age of household head is less than one. As a final example, consider the Census region in which households are contained. Everyone in the same pair of replicate groups lives in the same Census region. Therefore, there is no way of defining a cluster based on Census region within a pair of replicate groups. As a result, the value of  $10^B$  for Census regions is 1.0.





## Appendix C (Continued)

The generalized variance equations for RSE's for consumption, expenditures, average consumption, and average expenditures are conservative. If restrictions are placed on the subset over which statistics are calculated that restrict the possible consumption, the RSE's may be lower than the equations predict. An example of where this could happen would be the total energy consumption of all households using between 15 million and 20 million Btu per year. In this case, the RSE approaches the RSE of the number of households as the range narrows. For averages, the RSE approaches zero as the range narrows. The generalized variance equations were estimated using RSE's for statistics where only broad restrictions were used in defining the subsets. The indicator variable (CONTOT) used in some of the generalized variance equations takes on only values of 0 and 1. A variable that has a range of possible values may yield better results.

The generalized variance equations for aggregate fuel consumption and expenditures express the logarithm of the RSE as a linear function of the logarithm of the number of households using the fuel or fuels in question. In addition, in four equations, an indicator variable that equals one when the household count is a control total is also part of the equation. The logarithms were all computed using base 10. The value of the RSE is given as a percentage. The value of the number of households is given in millions. The units used for consumption or expenditures do not matter. In the total consumption statistics, the Btu amounts for electricity are added to the Btu amounts for the other fuels without any adjustments.

In these equations, the number of households refers to the estimated number of households that use the fuel or one of the fuels in question and whose consumption or expenditures is counted in the statistic. For example, if one wants the RSE of the consumption of LPG in the Northeast Census region, one uses the number of households that use LPG in the Northeast (1.2 million). For this case, it would be incorrect to use the total number of households in the Northeast.

For electricity consumption, electricity expenditures, total consumption, or total expenditures, the number of households can be set equal to the estimated number of households in the subset over which the consumption or expenditure estimate applies. Only six households in the RECS sample did not use electricity. These six households represented somewhere in the order of 36,000 households nationally. Treating these households as if they are electricity consumers with zero consumption will have only a small effect on the RSE estimates. Note the difference between this case and the case in which the consumption of LPG in the Northeast was being estimated.



## Appendix C (Continued)

### Half-Sample Estimation Procedures for Sampling Errors

The complex multistage, multiframe design of the survey makes it almost impossible to construct an exact algebraic variance estimator. The method used to produce variances for the RECS is balanced half-sample replication (see References 1 and 2). The generalized variance equations described were based on sampling errors produced by this half-sample technique. To apply the half-sample technique to this survey, the 131 Primary Sampling Units (PSU's) were grouped into 81 strata. Thirty-one of the strata were treated as self-representing; either they consisted of large metropolitan areas that came into the sample with certainty or they were PSU's in a stratum that could not be paired with another stratum that had similar characteristics. In these strata, segments were divided into two replication groups. Each of the remaining 50 strata consisted of two sample PSU's belonging to the same Census division. The two replication groups in these strata consisted of one PSU each.

To save time and effort, a fully balanced half-sample design was not used. Instead, the half-samples were balanced only among strata in the same Census region. If a fully balanced design were used, it would require 88 half-samples. By balancing only within Census regions, a balanced design could be constructed using 32 half-samples.

The survey was constructed so that the results in each Census region can stand alone. No PSU lines cross Census region boundaries. The non-self-representing PSU's were paired within Census regions. All controlled selection was done within each Census region. The ratio estimation was also done within each Census region. Consequently, the national totals can be considered to be the sum of four independent totals for the four Census regions. Therefore, the variance of a national total is the sum of the variances for its four corresponding regional totals. This fact was used as one justification for balancing the half-sample design only within Census regions.

The 32 half-sample design is defined by a  $32 \times 81$  matrix of +1's and -1's. The 32 rows correspond to the 32 half-samples and the 81 columns correspond to the 81 pairs of replication groups. The +1's and -1's determine which of the groups in the pairs is used in each half-sample. All column totals are 0. Therefore, each of the groups is used in exactly 16 of the half-samples. The columns for sets of pairs that fall within the same Census region are orthogonal. This is not necessarily true for columns corresponding to pairs that fall into different Census regions.

The  $32 \times 81$  design matrix was constructed using a  $32 \times 32$  orthogonal matrix adapted from an article by Plackett and Burman (Reference 3). The rows of this  $32 \times 32$  matrix were randomly sorted. The sorting preserves orthogonality. For each Census region,  $K$  columns were randomly selected from the sort matrix. Therefore,  $K$  is the number of replication groups in a Census region. After the columns for a Census region have been selected, the rows are randomly sorted again.

Without the random sortings, any two of the columns would either be orthogonal or identical. For any column, at most three other columns could be identical to it. The three other columns would correspond to pairs in the three other Census regions. When two columns are identical, it means the groups corresponding to the +1's will always be in 16 half-samples together. (The groups corresponding to the -1's would follow a similar pattern.) Random sorting makes the possibility of two identical rows zero for all practical purposes.



## Appendix C (Continued)

Variance estimates for selected survey statistics were created by computing 32 half-sample estimates for each statistic. If a +1 falls in the  $i^{\text{th}}$  row and  $j^{\text{th}}$  column of the design matrix, the replication group corresponding to the +1 in the  $j^{\text{th}}$  pair was used in the  $i^{\text{th}}$  half-sample. The sampling weights in each half-sample were ratio-adjusted upward so that the total number of households in each Census region classified by SMSA status corresponded to the control total for that cell.

As a result of using control totals, the total number of households in each of the 12 cells (Census region classified by SMSA status) is the same for all half-samples. The variance for these 12 totals, then, is zero. Any errors in these numbers are biases. In particular, they are affected by any undercount or overcount in the 1980 Census.

The half-sample variance estimate for the survey estimate  $Y'$  of characteristic  $Y$  is given by

$$s_{Y'}^2 = \sum (Y'_i - Y')^2 / 32,$$

where  $Y'_i$  is the  $i^{\text{th}}$  half-sample estimate of  $Y$ , and  $Y'$  is the full-sample estimate of  $Y$ . The half-sample procedure measures variability due to sampling error and random response variance.

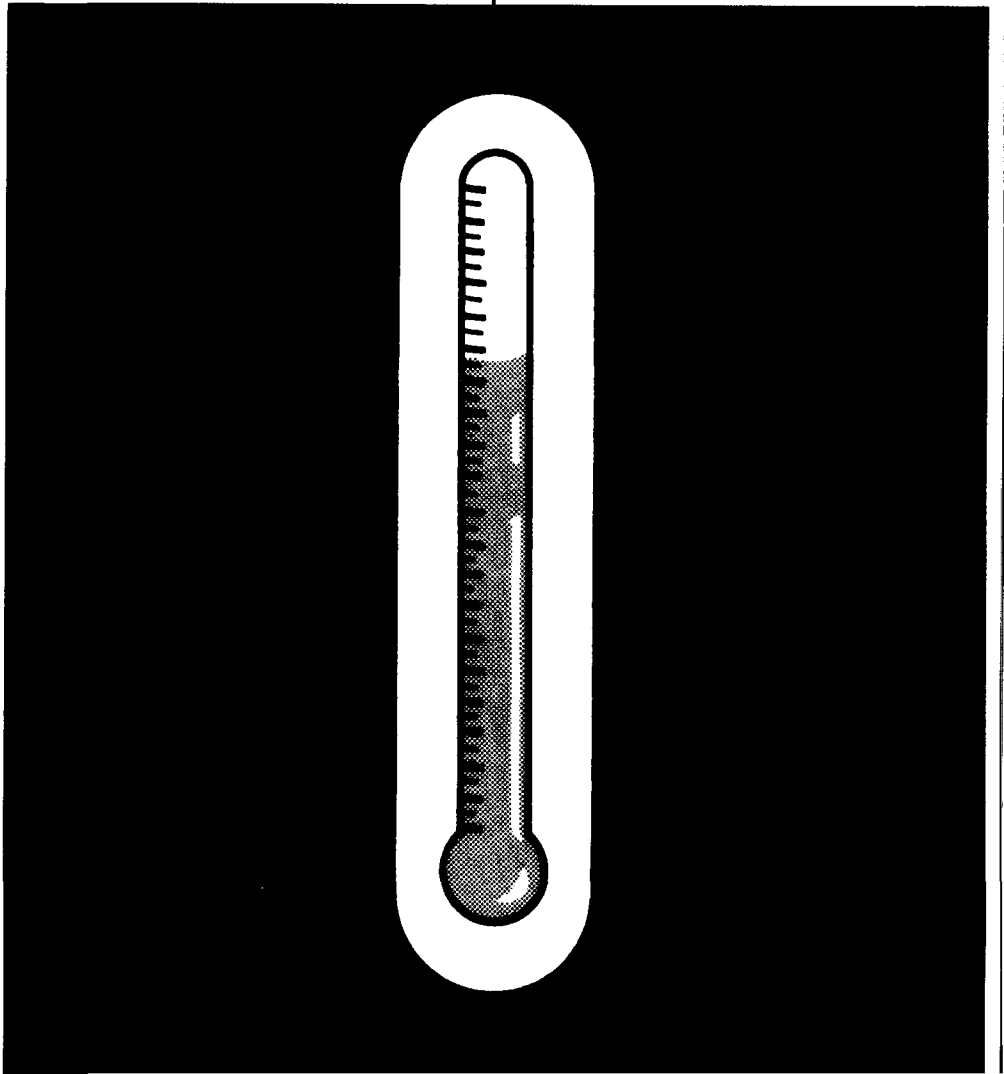
### References

1. National Center for Health Statistics. "Replication: An Approach to the Analysis of Data from Complex Surveys." Vital and Health Statistics. U.S. Public Health Service Publication No. 1000--Series 2--No. 14. Washington, D.C.: U.S. Government Printing Office, April 1966.
2. National Center for Health Statistics. "Pseudoreplication: Further Evaluation and Application of the Balanced Half-Sample Technique." Vital and Health Statistics. U.S. Public Health Service Publication No. 1000--Series 2--No. 31. Washington, D.C.: U.S. Government Printing Office, January 1969.
3. Plackett, R. L., and Burman, J. P. "The Design of Optimum Multifactorial Experiments." Biometrika 33 (1946): 305-325.



**Appendix D**

U.S.  
Weather Zone  
Map

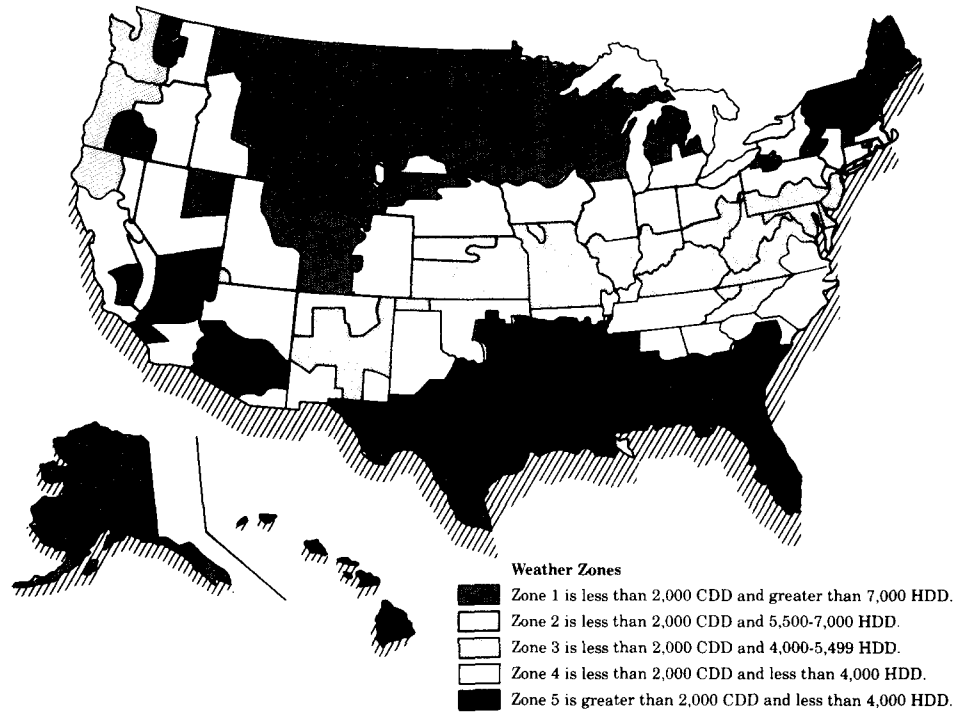






# Appendix D

**U.S. Weather Zone Map of Heating Degree-Days (HDD) and Cooling Degree-Days (CDD)**

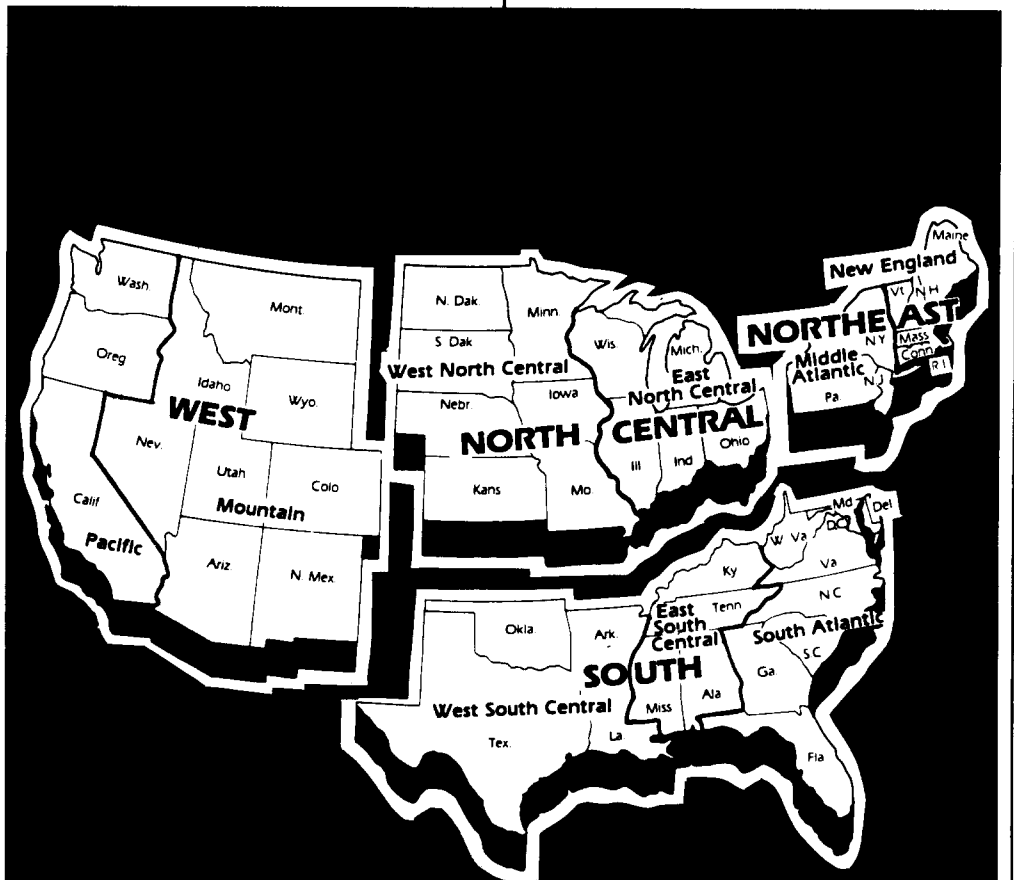






# Appendix E

## U.S. Census Regions and Divisions

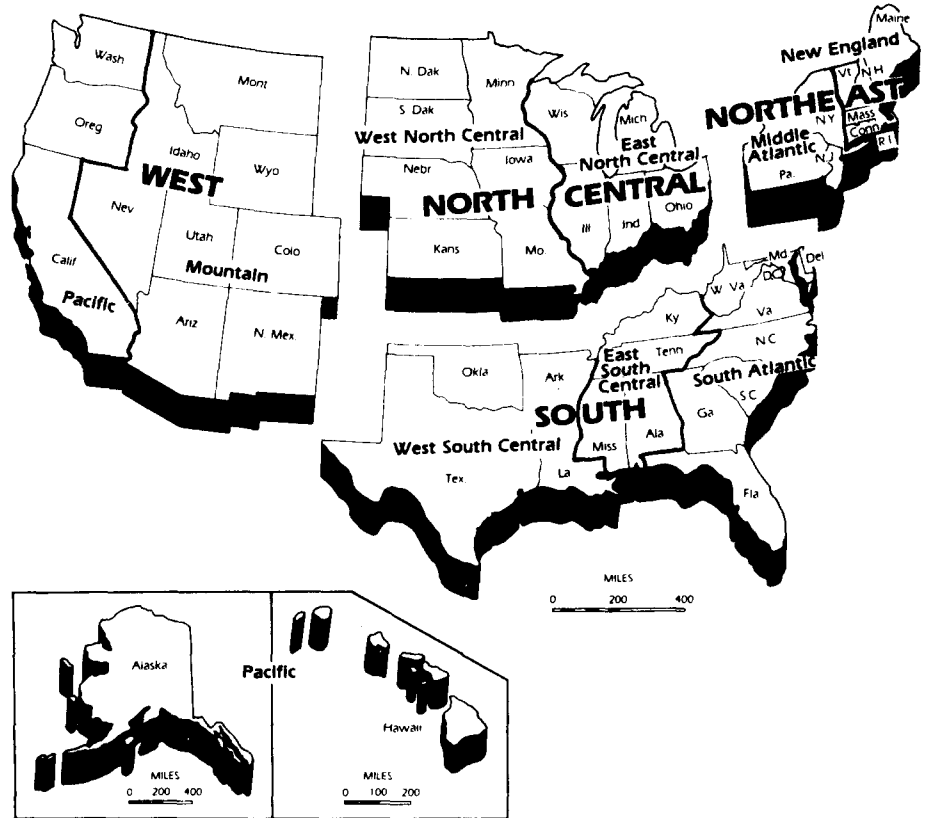






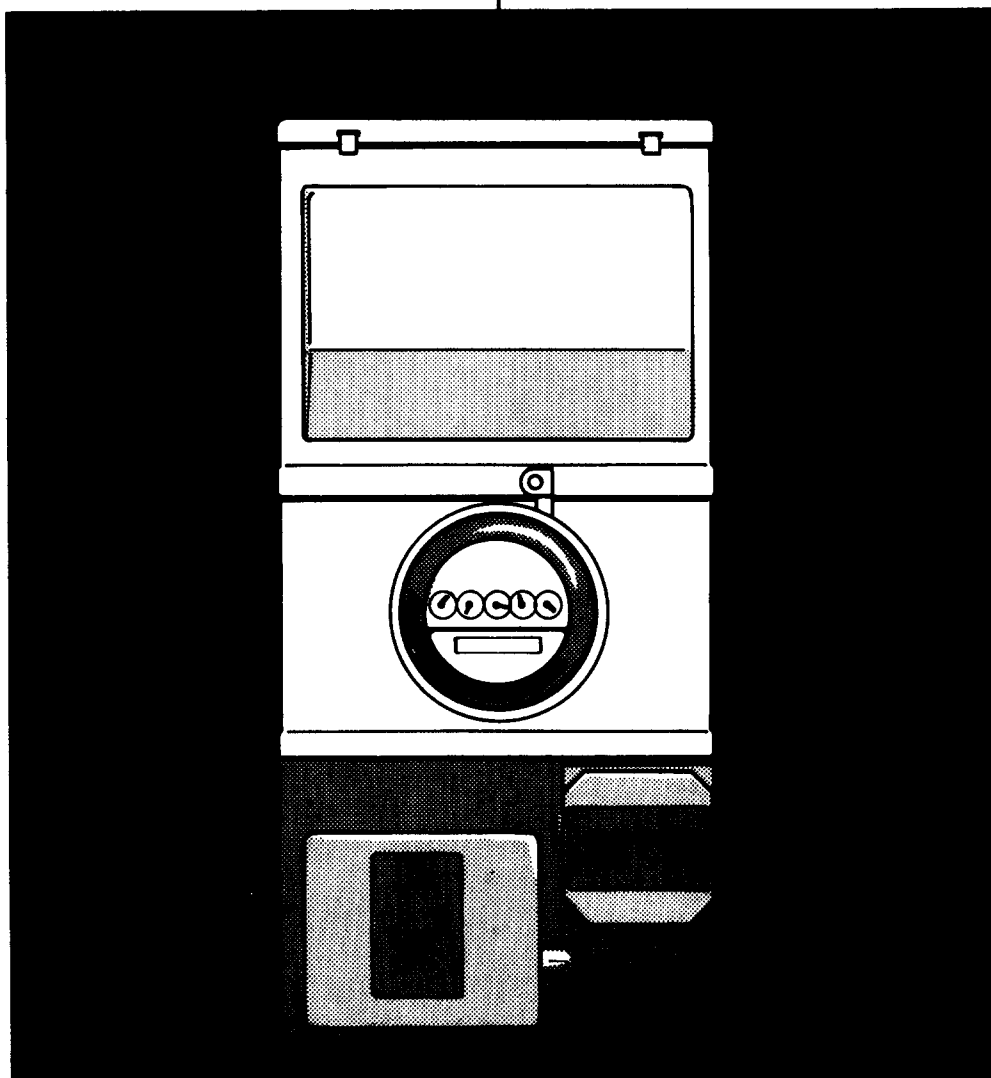
# Appendix E

## U.S. Census Regions and Divisions





# Glossary







# Glossary

Air Conditioning: Cooling of air by a refrigeration unit. This does not include fans, blowers, or evaporative cooling systems not connected to a refrigeration unit. Air-conditioning units that are not currently in working condition or are not used, but are in place in the housing unit, are included in this survey.

"Number of rooms that can be air conditioned" refers to the number of rooms the air-conditioning equipment is capable of cooling when the equipment is used. Question 36 "How many rooms in your house (apartment) are cooled by air conditioning?" refers to rooms that could be cooled if the air-conditioning equipment were used. There are, therefore, no cases in the data set of a household with air-conditioning equipment that cooled zero rooms.

"All rooms air conditioned" means that 100 percent of the rooms are air conditioned. "Some rooms air conditioned" means that fewer than 100 percent are air conditioned.

"Central air-conditioning system" refers to a system that air-conditions a number of rooms in a home. See also Central System for the Building. For a definition of rooms, see Number of Rooms.

All-Electric Home: Uses electricity for space heating, water heating, and cooking. Other fuels may be used for supplementary heating or other purposes.

Appliances Used: Appliances possessed and used by the household. Appliances possessed by the household but not used are not counted. Air-conditioning units are an exception. Air conditioning is counted as present whether or not it is used. (See Air Conditioning.) Appliances loaned to the household for their regular use are included. Appliances temporarily not in working condition but generally used by the household are included only if a repair person has been called or the appliance has been taken to a repair shop. "Swimming pool heater" applies only to swimming pools that are for the exclusive use of the housing unit. Swimming pools in apartment buildings, condominiums, or cooperatives that are for the use of many resident households are not included. "Oven" includes microwave and convection ovens, but does not include toaster ovens. "An evaporative cooler (swamp cooler)" is an air-cooling unit that turns air into moist, cool air by saturating the air with water vapor. (See also Refrigerators.)

April 1981 through March 1982: The annual consumption period is a 365-day period beginning as close as possible to April 1, 1981. For natural gas and electricity, the actual beginning date for a household may vary from April 1 in either direction by several weeks depending on that household's billing cycle. For fuel oil or kerosene and LPG, the beginning date is always April 1, but the amounts represent deliveries received by the household during the 365-day period, not gallons consumed. (See Consumed.)

Availability of Natural Gas in the Neighborhood: Respondents who did not use natural gas answered "yes," "no," or "don't know" to the question, "Is gas from underground pipes available in this neighborhood?" Respondents were not provided with a definition of "available" or "neighborhood," so some variation is expected in what these concepts mean to each respondent. This question was asked only of households living in single-family or mobile homes in the 1980 RECS.

Basement: An enclosed space in which a person can walk upright under all or part of the building. A "crawl space" is the space between the ground and the floor of a house. An "enclosed" crawl space is one not accessible from the outside of the house because the walls of the space



## Glossary (Continued)

protect it from the weather. A crawl space "open to the outside" is accessible from outside the house even though it may be covered by a trellis or lathwork, or some kind of brickwork that leaves space for circulation of air.

**Bathroom:** A "complete" bathroom has a flush toilet, a bathtub or shower, and a sink or washbasin with running water. A "half-bath" has a flush toilet or a bathtub or shower but does not have all the facilities for a complete bathroom.

**Billing Period:** 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 that 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.

**Btu (British Thermal Units):** A Btu is the amount of energy required to raise the temperature of 1 pound of water 1 degree Fahrenheit at or near 39.2 degrees Fahrenheit and 1 atmosphere of pressure. One Btu is about equal to the heat given off by a blue-tip match.

Btu conversion factors for this survey are

Electricity .....	3,412 Btu/kilowatt-hour
Natural Gas .....	1,027 Btu/cubic foot
Fuel Oil No. 1 .....	135,000 Btu/gallon
Kerosene .....	135,000 Btu/gallon
Fuel Oil No. 2 .....	138,690 Btu/gallon
LPG (propane) .....	21,540 Btu/pound
	91,330 Btu/gallon
	2,510 Btu/cubic foot
	88,640 Btu/cubic meter
Wood .....	20 million Btu/cord

Other conversion factors used include

1 therm =	100,000 Btu
1 barrel =	42 gallons

Almost all LPG reported by the fuel suppliers was propane. Hence, the LPG conversion factors are those for propane. See Wood Burned for discussion of the Btu value of wood.

**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.

**Central System for the Building:** A central system serving one or more buildings of two or more housing units each that is used for main heating, water heating, or air conditioning. A system that is for the respondent's living quarters only is not a central system for the building.

**Central Warm-Air Furnace:** A central furnace providing warm air through ducts leading to the various rooms. Heat pumps are not included in this category. A "forced-air" furnace is one in which a fan is used to force the air through the ducts. In a "gravity" furnace, air is circulated by gravity. The warm air rises through ducts and the cold air falls through ducts that return it to the furnace to be reheated. This completes the circulation cycle.





## Glossary (Continued)

**Condominium Ownership:** 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 apply to single-family houses, rowhouses, townhouses, or apartments.

**Conservation Items Added:** Energy-saving items added to the housing unit the household now occupies. Items added to a previous place of residence and changes made by previous occupants of the housing unit are not counted. Changes made by a landlord are counted.

"Automatic or clock thermostat" is a thermostat that can be set to turn the heating system off and on at certain preset times of day.

"Adjustments to thermostat control (recalibration)" assure that the temperature the thermostat is set for is the actual temperature maintained in the house.

"An additional thermostat (zoning the home)" allows a household to regulate the temperature in different parts of the home. For example, the sleeping areas of the home can be kept at a lower temperature than the living areas.

"Smaller nozzle or burner or smaller line on furnace" will cut down on the amount of fuel an oil furnace burns.

"Flame-retention head burner for furnace (fuel oil)" is a device that controls the pattern of flame in the combustion chamber of a boiler or furnace.

"Automatic flue door (vent damper)" automatically closes the flue when the furnace goes off, preventing heat loss up the chimney.

"Electrical or mechanical furnace ignition system (spark ignition)" added to the furnace means that fuel will ignite from an electrically or mechanically produced spark rather than from a pilot light that burns continuously.

"Insulation around heating ducts" is extra insulation to reduce heat loss as the hot air travels through the ducts to different parts of the residence.

"Insulation around hot water pipes" is blanket insulation wrapped around the hot water heater to reduce heat loss. This is in addition to any insulation provided by the manufacturer.

"Meter that displays the cost of energy" is a device to show the homeowner how much energy is being used in the home at a given time and/or to add up the cost of energy usage over a specific period of time.

"Closeable shutters, plastic sheets, insulating drapes" are counted if any one of these has been added to any door or window in the housing unit. Shutters that close to provide an insulating effect are counted. Decorative shutters that do not close are not counted.

"Caulking around any windows or doors to the outside" is available in these types: oil or resin base, latex, butyl or polyvinyl base, elastomeric or a filler such as oakum, caulking cotton, sponge rubber, or glass fiber. Caulking is counted whether done on the inside or outside of the home.



## Glossary (Continued)

"Weather stripping around any windows or doors to the outside" can be applied on the inside or outside of the home. Weather stripping is available in these basic types: thin spring metal, rolled vinyl, or foam rubber with adhesive backing.

Constant 1981 Dollar: Expenditures expressed in constant 1981 dollars have the effects of inflation removed. This allows one to compare changes in expenditures without the confounding influence of inflation. To get a constant 1981 dollar figure, the 1978 figures are multiplied by 1.2998, the 1979 figures by 1.1964, and the 1980 figures by 1.0944. The gross national product implicit price deflator (GNP ID) is the basis of constant dollars in this report.

Consumed: Is the amount of electricity or natural gas used by the household during the 365-day period. For fuel oil, kerosene, and LPG, the quantity represents fuel purchased, not fuel consumed. If the level of fuel in the tank was the same at the beginning and end of the annual period, then the quantity consumed would be the same as the quantity purchased. Measurements or reports of the level of fuel in the tank were not included in the data collection.

Cooling Degree-Days: Refers to the number of degrees per day 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. The average daily temperature is the mean of the maximum and minimum temperatures for a 24-hour period. The cooling degree-days for RECS households in the 48 States and the District of Columbia were assigned according to the NOAA division in which each household was located (See NOAA Division). Cooling degree-day totals for Alaskan and Hawaiian households were assigned by appropriate nearby weather stations.

Doors: (Outside doors) go from a heated area to the outside or to an unheated area, such as a porch or garage. Doors to a heated hallway in an apartment building, doors permanently sealed shut, and doors to an unheated attic or basement were not counted because these doors are not usually fitted with storm doors. The NIECS survey counted doors to an unheated attic or basement, but this rule was not followed in the RECS survey. Double doors were counted as one door. A pair of sliding glass doors was counted as one door in this survey. A pair of sliding glass doors was counted as two doors in the NIECS survey. "Standard" doors include doors with and without glass panels.

Electricity: See "Fuels."

Electricity Paid by Household: The household paid directly to the electric utility company for all household uses of electricity, such as for water heating, space heating, air conditioning, cooking, lighting, and operating other appliances. (See Fuels.)

Estimated Bills: Are 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, usage by similar households, and weather data.



## Glossary (Continued)

**Expenditures:** Refers to the cost for electricity or natural gas consumed during the 365-day period. Expenditures include State and local taxes, but exclude merchandise, repairs, or special service charges. For households on a budget plan, the expenditures are for the actual consumption. Fuel oil, kerosene, and LPG expenditures are for the amount of fuel purchased, which may differ from the amount of fuel consumed (see Consumed). For households that do not pay directly to their fuel supplier, the expenditures for fuels are estimated and included in the tables.

**Expenditures as a Percentage of Income:** Is determined by taking each household's energy expenditures and dividing it by the family's income. The median value of this statistic over the sample households, weighted to represent the universe, is reported in Table 6. The median percentage is the percentage of income that is spent on energy for the middle household when households are listed according to the percentage they spend on energy. That is, 50 percent of the weighted households in the cell spend a lower percentage on energy than the median value.

The percentage of income spent on energy is overestimated because the calculation uses family income for the year 1980 but the energy expenditure data are for a later year, April 1981 through March 1982. For further discussion of this overestimate, see Appendix C, "Limitations of the Data."

The reader should also be aware that the consumption and expenditures data include households that do not pay directly for the energy used. For 16 percent of the households in 1981, the cost of energy is included in a tenant's rent or paid by someone outside of the household.

**Family Income:** Is the total combined income in 1980 of all members of the family from all sources before taxes and deductions. It includes wages, salaries, tips, commissions, and income from Social Security, pensions, interest, dividends, rent, public assistance, and unemployment insurance. This includes the total income for all family members who lived in the household in 1980, regardless of whether they were living there at the time of the interview. Income of nonfamily members of the household is not included. "Family" includes the following types of relationships: mother, father, sister, brother, son, daughter, father-in-law, uncle, aunt, niece, grandchild, foster child, and similar relationships.



## Glossary (Continued)

Federal Regions: The States are divided into 10 groups as follows:

<u>Region</u>	<u>States</u>
1	Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut
2	New York, New Jersey
3	Delaware, Pennsylvania, Maryland, Virginia, West Virginia, District of Columbia
4	Kentucky, Tennessee, North Carolina, South Carolina, Georgia, Alabama, Mississippi, Florida
5	Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota
6	Louisiana, Arkansas, Texas, Oklahoma, New Mexico
7	Missouri, Iowa, Nebraska, Kansas
8	Colorado, Utah, North Dakota, South Dakota, Wyoming, Montana
9	Hawaii, Arizona, California, Nevada
10	Alaska, Idaho, Oregon, Washington.

Fireplace: Is any masonry or prebuilt installed fireplace. Fireplaces in mobile homes are included. A fireplace must have a permanent chimney built into the wall of the house. A freestanding fireplace that can be detached from its chimney is a heating stove. A fireplace insert is classified as a fireplace.

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 the primary fuel delivered to the residential site. It may be converted at the site to some other energy form. "Electricity" is included in this report as a fuel.

"Coal" includes coke.

"Electricity" refers to metered electric power supplied by a central utility company to a residence via underground or aboveground power lines. It does not refer to electricity generated onsite for the exclusive use of the residence. In this case, the fuel used for the generator will be indicated. The Btu equivalent for electricity is the energy value of electricity as received by the household (3,412 Btu per kilowatt-hours). Electrical energy losses that occur in the generation



## Glossary (Continued)

and transmission of electricity are not included in the conversion of electricity into Btu for this report. If these losses were to be included, in general, the conversion rate would be about 10,353 Btu per kilowatt-hour.

"Fuel Oil" is No. 1, No. 2, or No. 4 grade fuel oil or residual oil that is burned for space- or water-heating purposes. No. 1 distillate fuel oil is a form of heating oil used mostly as a blending stock to assure that heavier grades of fuel flow under severe cold weather conditions. No. 2 distillate collectively refers to No. 2 heating oil and No. 2 diesel fuel. Although these products are not precisely identical, they are essentially interchangeable in most applications. No. 2 fuel oil is the most common form of heating oil. No. 4 distillate is a blend of No. 2 and No. 5 or No. 6 residual fuel oil used in large stationary diesel engines and boilers equipped with fuel preheating equipment. Residual fuel oil refers to the heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are boiled off in refinery operations.

"Kerosene" refers to a distilled product of oil or coal with the generic name "kerosene." Kerosene is similar to No. 1 distillate fuel oil and is used for space heating or water heating or lighting equipment using wicks. It is sometimes sold under the names "range oil" or "stove oil."

"LPG or liquefied petroleum gas" refers to any fuel gas supplied to a residence in liquid form such as propane or butane. It is usually delivered by tank truck and stored near the residence in a tank or cylinder until used. Propane was the most common liquefied petroleum gas supplied to RECS households. Household use of LPG solely for outdoor gas grills is not considered sufficient use to mark the household as an LPG user.

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

"Solar collector" refers to active, thermal, concentrating collectors using either air or liquid as the working fluid. It does not refer to passive collection of solar thermal energy.

Fuel Oil Paid by Household: The household paid directly to the fuel supplier for all household uses of fuel oil or kerosene such as for space heating or water heating. (See Fuels.)

Gas Paid by Household: The household paid directly to the utility company for all household uses of natural gas such as for water heating, space heating, air conditioning, cooking, and operating appliances including outdoor gas lights. (See Fuels.)

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. (See also Householder.)

Heating Degree-Days: The number of degrees per day 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. The average daily temperature is the mean of the maximum and minimum temperature for a 24-hour period.



## Glossary (Continued)

The heating degree-days for RECS households in the 48 States and the District of Columbia were assigned according to the NOAA division in which each household is located (See NOAA Division). Heating degree-days for Alaskan and Hawaiian households were assigned by appropriate nearby weather stations.

Heating Stove Burning Wood, Coal, and Coke: Any freestanding box or controlled draft stove or built-in fireplace stove. Stoves are made of cast iron, sheet metal, or plate steel. Freestanding fireplaces that can be detached from their chimneys are considered heating stoves. "Airtight" stoves have a gasket around the doors to close off air leakage and control the amount of air intake. "Non-airtight" stoves do not have gaskets around their door openings.

Heat Pump (Reverse Cycle System): 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.

When the heat pump is attached to a central furnace, the heat pump is either the main or secondary heating equipment depending on how often the heat pump operates. If it operates for a short time and then the furnace comes on, the heat pump is secondary (or additional heating equipment). If the heat pump is sufficient to provide the desired warmth, the heat pump is the main heating equipment.

Hot-Deck Imputation: A procedure by which the household file is sorted by variables related to the missing item. A household is then selected that has the same value on the matching variables, and this "donor" household supplies the value for the missing item. (See Imputation).

Household: A group of up to 12 persons occupying the same housing unit. "Occupy" means the housing unit was the person's usual or permanent place of residence at the time of the first field contact. The household includes babies, lodgers, boarders, employed persons who live in the housing unit, and persons who usually live in the household, but are away traveling or in a hospital. The household does not include persons who are normally members of the household but who were away from home as college students or members of the armed forces at the time of the contact.

The household does not include persons temporarily visiting with the household if they have a place of residence elsewhere, persons who take their meals with the household but usually lodge or sleep elsewhere, domestic employees or other persons employed by the household who do not sleep in the same housing unit, or persons who are former members of the household, but have since become inmates of correction or penal institutions, mental institutions, homes for the aged or needy, homes or hospitals for the chronically ill or handicapped, nursing homes, convents or monasteries, or other places in which residents may remain for long periods of time. By definition, the count of households is the same as the count of occupied housing units.

Householder: The person (or one of the persons) in whose name the home is owned or rented. If there is no lease or similar agreement or if the person who owns the home or pays the rent does not live in the housing unit, the householder is the person responsible for paying the household bills or generally in charge.

Housing Structure: One of four structure types used to categorize the building in which the housing unit was located.

A "single-family housing unit" refers to a structure that provides living space for one household or family. The structure may be



## Glossary (Continued)

detached, attached on one side (semidetached), 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. A single-family house is contained within walls that go from the basement to the roof.

A "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 that 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.

A "building with five or more housing units" refers to a building containing living quarters for five or more separate households or families.

A "mobile home or trailer" refers to a structure that 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. If additional rooms are added to the structure, it is still considered a mobile home.

Housing Unit: A structure or part of a structure where a household (family or individual) lives or could live. It has direct access from the outside of the building or through a common hall. Housing units do not include group quarters such as prisons, hospitals, dormitories, nursing homes, fraternity houses, or convents where 10 or more unrelated persons live. Hotel rooms, motel rooms, mobile homes, or trailers are considered housing units if occupied.

Imputation: Is a statistical method used to estimate the response to specific questions for which answers are missing. In general, it is a procedure for filling in missing data values.

Insulation: Refers to any material that, when placed between the interior of the dwelling and the outdoor environment, reduces the rate of heat loss to the environment or heat gain from the environment. The four forms of insulation, illustrated in a drawing shown to respondents, are listed below:

"Blankets or batts"--rolls or pieces of insulation that are nailed or stapled between the rafters or wall joists (beams). It is usually made of fiberglass or rock wool.

"Loose particles or loose fill"--loose insulation comes in a bag and is poured between joists (beams). Loose insulation can also be blown into open spaces. Loose fill can be glass fiber, rock-wool fibers, cellulose fiber, or vermiculite.

"Firm foam or firm plastic"--rigid boards (such as styrofoam) that can be cut to size and either edged, nailed, or glued into place.

"Sprayed-in urethane foam" is not shown separately as a category because the description used in the survey was inaccurate. Urethane foam is not sprayed in because it expands so much that confined areas may be broken apart by the force of the expanding substance. The more general category of "sprayed foam" will be used in the future to include all types of foam insulation.

"Floor insulation" is insulation between the bottom floor and the unheated basement or crawl space. Carpeting or carpeting pads are not insulation.



## Glossary (Continued)

LPG Paid by Household: The household paid directly to the fuel supplier for all household uses of LPG such as for water heating, space heating, air conditioning, cooking (cooking on an outdoor grill is not counted), and operating appliances. (See Fuels.)

Main Cooking Fuel: Is the answer to the question: "Thinking of all the different kinds of cooking done here, including cooking in the oven, on a range, and with small appliances, which fuel is used most?"

Main Heating Equipment: (See description of specific heating equipment.) Main heating equipment, if temporarily out of order, is reported as the main heating equipment. If two types of heating equipment are used, the main equipment is the one used more. If both are used equally, the main equipment is the one that appears first on the list in the question.

Main Heating Fuel: The fuel mentioned by the respondent in response to Question 11: "What is the main fuel used for heating this house (apartment)?" Question 13 asked about the main heating fuel used to heat the house (apartment) in November 1980. This question does not apply to housing units not built by November 1980 or to housing units not heated in November 1981 (and assumed not to have been heated in November 1980).

Main Outside Wall Material: The predominant type of wall material. Houses built with two materials used in approximately the same amount are classified as having a "combination" of materials.

Master Metered: The method used by utility companies (e.g., electricity and natural gas) to measure the total volume of energy used by several individual customers collectively.

NIECS: The National Interim Energy Consumption Survey, the first developmental survey in the planned series of Residential Energy Consumption Surveys. The NIECS contacted 4,081 households in October and November 1978. Fuel suppliers provided data on consumption and expenditures for the period April 1978 through March 1979.

NOAA Division: One of the 344 weather divisions designated by the National Oceanic and Atmospheric Administration (NOAA) encompassing the 48 contiguous States. These divisions usually follow county borders to encompass counties with similar weather conditions. The NOAA division does not follow county borders when weather conditions vary considerably within a county such as is likely to happen when the county borders the ocean or contains high mountains. A State contains an average of seven NOAA divisions; a NOAA division contains an average of nine counties.

Nominal Dollars: is the value of dollars for the year specified. Sometimes called "current dollars," nominal dollars have not been modified to remove the effects of inflation. (See also Constant 1981 Dollars.)

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 that are used year-round. Rooms used for offices by a person living in the unit are included in this survey.





## Glossary (Continued)

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 a 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 with permanently installed walls, windows, and roof and can be heated.

Occupied Housing Unit: A unit someone was living in as his or her usual or permanent place of residence at the time of the first field contact.

Origin: Each respondent was asked, "Which of the groups on this exhibit best describes (HOUSEHOLDER)?" The groups included white, black or Negro, American Indian, Alaskan native, Asian, Pacific Islander. The word "race" was not used in either the questionnaire or the instructions.

Owner/Renter: Own/rent refers to the structure itself, not the land on which it is located. The household is classified "renter" even if the rent is paid by someone not living in the unit. "Rent free" means the unit is not owned or being bought and no money is paid or contracted for rent. Such units are usually provided in exchange for services rendered or as an allowance or favor from a relative or friend not living in the unit. "Rent free" also includes occupants who pay only for utilities. Unless shown separately, "rent free" households are grouped together with "renters."

Poverty: "Below 100 Percent of Poverty" defines a group of households with incomes below the poverty level defined by the Bureau of the Census. "Below 125 Percent of Poverty" defines a group of households with incomes below 125 percent of the poverty level. This group of the poor and near poor represents an alternative level for defining poverty. The definitions of poor are based on the number of family members in the household and family income. Because income data were collected by using categories of income (for example, \$3,000 to \$3,999), an exact match of Census thresholds could not be made. In addition, the RECS survey did not ask about the farm-nonfarm distinction, thus further limiting a closer match to Census thresholds that are lower for farm households.



## Glossary (Continued)

**Table G1. Definition of Poverty**

Number of Persons per Family	Below 100 Percent of Poverty		Below 125 Percent of Poverty	
	1980 RECS Income Range Less Than:	Census Threshold <sup>a</sup>	1980 RECS Income Range Less Than:	125 Percent Threshold
1	\$4,000	\$4,184	\$5,000	\$5,230
2	\$5,000	\$5,338	\$7,000	\$6,673
3	\$7,000	\$6,539	\$8,000	\$8,174
4	\$8,000	\$8,385	\$10,000	\$10,481
5	\$10,000	\$9,923	\$12,000	\$12,404
6	\$11,000	\$11,215	\$14,000	\$14,019
7 or More	\$14,000	\$13,883	\$17,000	\$17,354

<sup>a</sup>Figures from the U.S. Bureau of the Census, Characteristics of the Population Below the Poverty Level: 1980 (Current Population Reports, Series P-60, No. 133) (July 1982, Table A2, 187).

Source: Energy Information Administration, 1981 Residential Energy Consumption Survey.

The preceding definitions produced an estimate of 11.031 million poor households (below 100 percent of poverty). The Bureau of the Census estimate for March 1981 is 10.968 million poor households (below 100 percent of poverty).

Portable Heater(s): Heaters that can be picked up and moved, including electric heaters that get current through a cord plugged into an electrical wall outlet. Portable space heaters are included in this category.

Quadrillion: Equals 1,000,000,000,000 or  $10^{15}$ .

Race: See Origin.

Receive Assistance in Energy Payments: Indicates the household received assistance from the Low-Income Energy Assistance Program (LIEAP) during the Fiscal Year 1981 that began in October 1980 and ended September 1981. The purpose of the program was to provide assistance to low-income households to offset the rising costs of home energy that are excessive in relation to household income. Further information on the program is found in U.S. Department of Health and Human Services, Low-Income Energy Assistance Program: Report to Congress for Fiscal Year 1981, August 31, 1982. Copies are available from

Office of Family Assistance  
Welfare Management Institute  
Transpoint Building  
2100 Second Street, S.W.  
Washington, D.C. 20201



## Glossary (Continued)

Note: There is a basic incongruity of time periods that the readers should note. Recipients of LIEAP were identified in this survey for the period October 1980 up to the time of the interview, which generally was November 1981. The fuel bills for these households, however, were for a somewhat later period--April 1981 through March 1982. Family income, on the other hand, covers the calendar year 1980. For an estimate of how these different time periods affect the figures on percentage of income spent on home energy, see Appendix C, "Limitations of the Data."

Residential: Refers to occupied housing units including mobile homes, single-family housing units (attached and detached), and apartments. The definition of housing units is the same as that used by the U.S. Bureau of the Census. (See Household and Housing Unit for further definition.)

Rooms: (See Number of Rooms.)

Refrigerators: With no freezer sections are included in the non-frost-free category. "Frost-free" means that frost does not build up on the insides of the freezer section or ice cube section.

Room Heaters Burning Gas, Oil, Kerosene: Are circulating heaters, convectors, radiant gas heaters, space heaters, or other nonportable room heaters that may or may not be connected to a flue, vent, or chimney.

Rural: Refers to places that had a population of less than 2,500 in the 1970 Census.

Screener Survey: The Residential Energy Consumption Survey that contacted 4,033 households in October and November 1979. Fuel suppliers provided data on consumption and expenditures for the period April 1979 through March 1980. This survey was named the Household Screener Survey because it was used to screen households for participation in the Household Transportation Panel.

Secondary Heating Equipment: Equipment used in addition to the main equipment. Description of the secondary heating equipment is the same as for the main heating equipment.

SMSA: A group of households located within Standard Metropolitan Statistical Areas (SMSA's) as defined in the 1970 Census. Except in New England, an SMSA is a county or group of contiguous counties that contain at least one city of 50,000 inhabitants or more, or "twin cities" with a combined population of at least 50,000. The contiguous counties are included in an SMSA if, according to certain criteria, they are essentially metropolitan in character and are socially and economically integrated with the central city. In New England, SMSA's consist of towns and cities, rather than counties. "Non-SMSA" refers to households not located within SMSA's as defined in the 1970 Census.

Square Feet: The floor area of the housing unit that is enclosed from the weather. Basements are included whether or not they contain finished space. Garages are included if they have a wall in common with the house. Attics that have finished space and attics that have some heated space are included. Crawl spaces are not included even if they are enclosed from the weather. Sheds and other buildings that are not attached to the house are not included. "Measured" square feet means that the measurement of the dimensions of the home did not rely on the respondent's reports but was an actual measurement by the interviewer using a metallic, retractable, 50-foot tape measure. For details on how the measurement was made and how the data were treated, see Appendix B.



## Glossary (Continued)

"Heated square feet" are that portion of the measured square feet that is heated during most of the season. Rooms that are shut off during the heating season to save on fuel use are not counted as heated square footage. Attached garages that are unheated and unheated areas in basements and attics are not counted as heated square feet.

Steam or Hot Water System with Radiators or Convector: 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 that are part of a combined heating/ventilating or heating/air-conditioning system. This category also includes radiant heating through hot water pipes inlaid in a concrete, slab floor.

Storm Doors and Windows: Storm doors made of double 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 counted as a storm door.

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

Note: Responses of "don't know" for storm doors, windows, and/or attic insulation were treated the same as "do not have." For example, a respondent who indicated that his or her house had storm windows (some or all) and storm doors (some or all), but who did not know if it had attic insulation, was counted in the "have one or two of these" category.

Urban: Includes housing in places of 2,500 inhabitants or more as defined in the 1970 Census.

Utilities Paid by Household: Fuel suppliers or utility companies paid directly for all electricity, natural gas, fuel oil, kerosene, or liquefied petroleum gas used by the household. Households paying directly to the utility company were classified in this survey as "all paid." Households that paid directly for at least one but not all their fuels used and had at least one fuel charge included in their rent were classified as "some paid, some included in rent." Households in which all fuels used were included in their rent were classified as "all included in rent." Some households were classified as "other" if they did not fall into any of those three categories. Included are households for which fuel bills were paid by a department of social services or a relative and households that paid for some of their fuels used but paid for other fuels through some other arrangement.

Vacant Housing Unit: A housing unit 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.

Water-Heating Fuel: The answer to the question, "Which fuel is used most for heating water?" Households that did not have running water in their home were also asked this question. The fuel is used for heating water for bathing and washing. The hot water may have been available anywhere in the same building as the respondent's living quarters. This may have been in a hallway, in a room used by several units in the building, in the basement, or in an enclosed porch, provided the respondent's household had access to it.



## Glossary (Continued)

**Windows:** All windows in the year-round living space. Windows in the basement, attic, garage, and porch are counted only if these areas are heated. Windows in doors are not counted. Each window that opens separately is counted as one window. Windows fixed in place are also counted. Panes of glass in a large window are not counted individually unless they open separately. Skylights and stained-glass windows are counted as windows.

**Wood Burned:** Amount of wood burned in the home at any time in the past 12 months in a fireplace, stove, or furnace as reported by the respondent at the time of the interview. The figures for wood burned cover the last part of the 1980-1981 heating season and the first part of the 1981-1982 heating season.

A "cord" measures 4 feet by 4 feet by 8 feet and is approximately 128 cubic feet. A third of a cord measures 16 inches by 4 feet by 8 feet. The accompanying drawing of a cord and a rack (third of a cord) was shown to respondents.

Converting cords of wood into a Btu equivalent is an imprecise exercise. The number of cords burned by each household is imprecise, as the estimate requires the respondent to sum up the use of wood over a 12-month period during which time wood may have been added to the supply as well as removed. In addition to the recall errors inherent in this task, the estimates are subject to problems in definition and perception of what a cord is. The nominal cord as delivered to a suburban residential buyer may differ from the dimensions of the standard cord. This can occur because wood is most often cut between the length that makes a third of a cord (16 inches) and a half a cord (24 inches).

In other cases, wood is bought or cut in unusual units (e.g., pickup truck load or trunk load). Finally, volume estimates are difficult to make when the wood is not stacked up but is left in a pile.

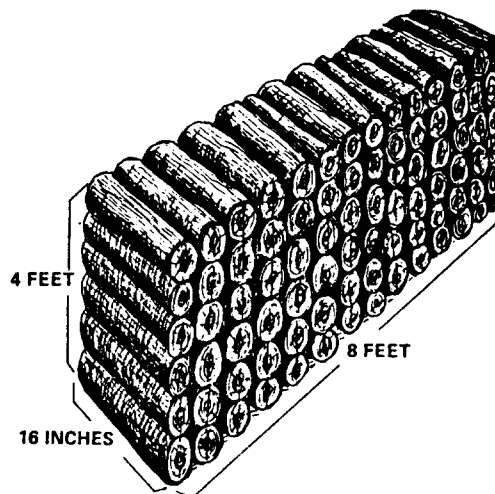
Other factors that make it difficult to estimate the Btu value of the wood burned is that the amount of empty space between the stacked logs may vary from 12 to 40 percent of the volume. The moisture content may vary from 20 percent in dried wood to 50 percent in green wood. Moisture reduces the useful Btu output because energy is used to drive off the moisture. Finally, some tree species contain twice the Btu content of species with the lowest Btu value. Generally, hardwoods have greater Btu value than softwoods. Wood was converted to Btu at the rate of 20 million Btu per cord, which is a rough average taking all these factors into account.



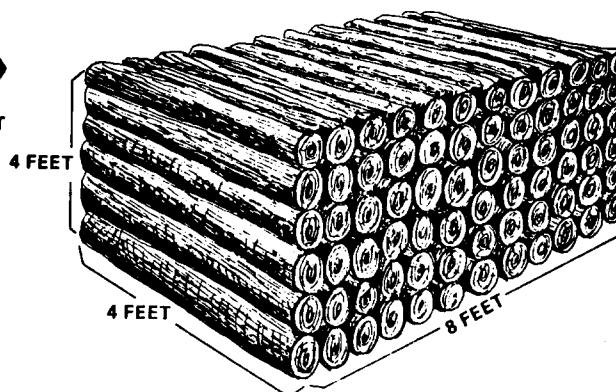
## Glossary (Continued)

### Size and Volume Contained In a Rack and a Cord of Firewood

**RACK** →  
CONTAINS  
43 CUBIC FEET



**CORD** →  
CONTAINS  
128 CUBIC FEET



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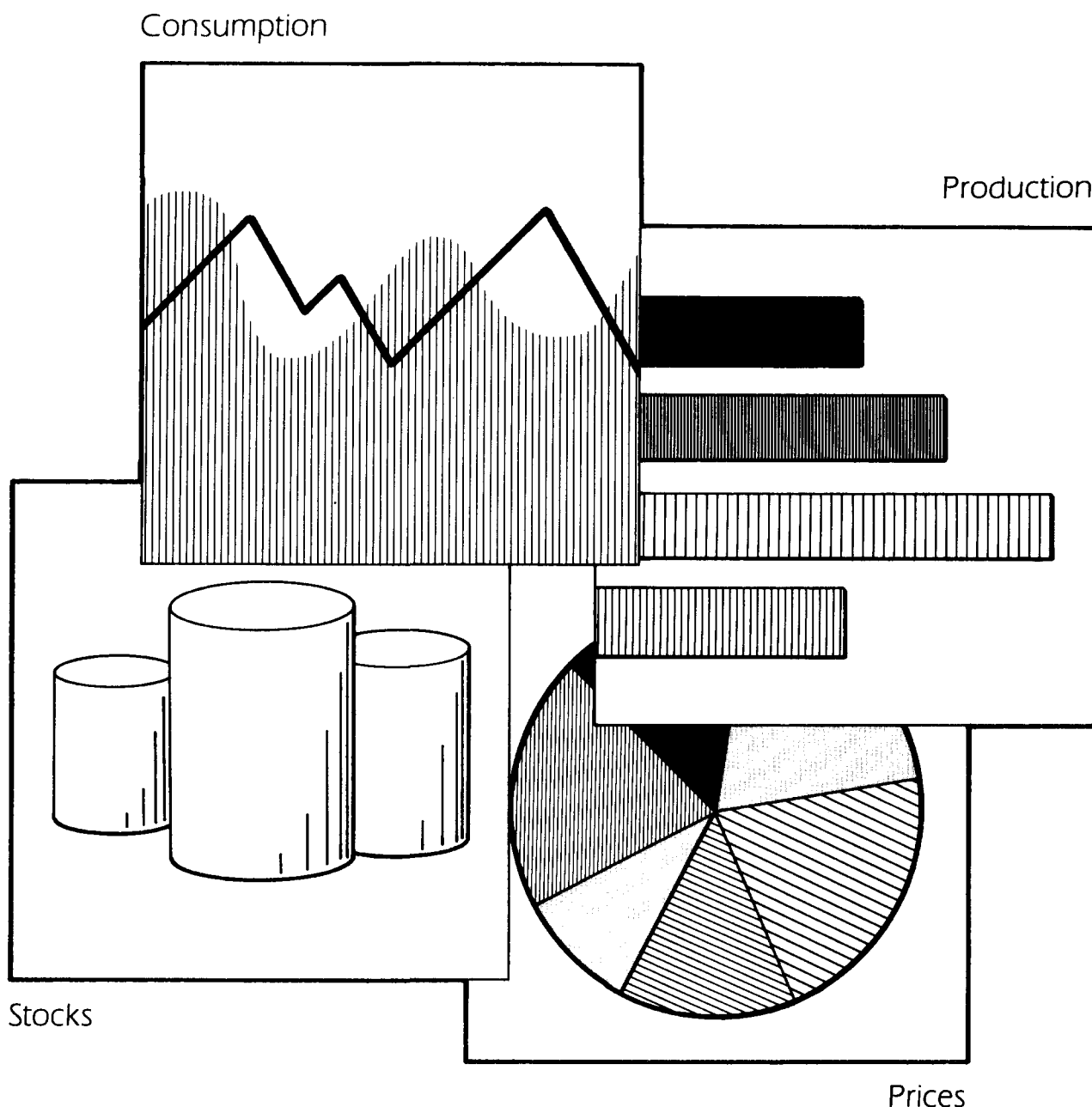
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## Materials on the Residential Energy Consumption Survey

1. Residential Energy Consumption Survey: Characteristics of the Housing Stock and Households, 1978; February 1980, DOE/EIA-0207/2, GPO Stock No. 061-003-00093-2, \$4.25.
2. Residential Energy Consumption Survey: Conservation; February 1980, DOE/EIA-0207/3, GPO Stock No. 061-003-00087-8, \$6.00.
3. Residential Energy Consumption Survey: Consumption and Expenditures, April 1978 to March 1979; July 1980, DOE/EIA-0207/5, GPO Stock No. 061-003-00131-9, \$6.50.
4. Residential Energy Consumption Survey: 1979-1980 Consumption and Expenditures (Part 1: National Data Including Conservation); April 1981, DOE/EIA-0262/1, GPO Stock No. 061-003-00191-2, \$5.50.
5. Residential Energy Consumption Survey: 1978-1980 Consumption and Expenditures (Part 2: Regional Data); June 1981, DOE/EIA-0262/2, \$8.50.
6. National Interim Energy Consumption Survey: Exploring the Variability in Energy Consumption; July 1981, DOE/EIA-0272, GPO Stock No. 061-003-00205-6, \$4.25.
7. Residential Energy Consumption Survey: Housing Characteristics, 1980; June 1982, DOE/EIA-0314, GPO Stock No. 061-003-00256-1, \$11.00.
8. Residential Energy Consumption Survey: Consumption and Expenditures, April 1980 Through March 1981, Part 1: National Data; September 1982, DOE/EIA-0321/1, GPO Stock No. 061-003-00278-1, \$7.50.
9. Residential Energy Consumption Survey: Consumption and Expenditures, April 1980 Through March 1981, Part 2: Regional Data; June 1983, DOE/EIA-0321/2, GPO Stock No. 061-003-00319-2, \$7.00.
10. Residential Energy Consumption Survey: Housing Characteristics, 1981; August 1983, DOE/EIA-0314(81), GPO Stock No. 061-003-00330-3, \$6.50.
11. Residential Energy Consumption Survey: Consumption and Expenditures, April 1981 Through March 1982, Part 1: National Data; September 1983, DOE/EIA-0321/1(81), GPO Stock No. 061-003-00340-1, \$6.00.

Copies of the above reports are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Residential Energy Consumption Survey: Consumption Patterns of Household Vehicles, June 1979 to December 1980; April 1982, DOE/EIA-0319. Copies are available free of charge from the National Energy Information Center, 1F-048, Forrestal Building, U.S. Department of Energy, Washington, DC 20585.

Copies of the household data files on magnetic tape with name, address, and other potentially identifying data removed are available from the National Technical Information Service, Computer Products Division, 5285 Port Royal Road, Springfield, VA 22161. Telephone: 703-487-4808.

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