

5. Detailed Tables

The following 28 tables present detailed data describing the consumption of and expenditures for energy used by households in the residential sector. The data are presented at the national level, Census region and division levels, for climate zones and for the most populous States, as well as for other selected characteristics of households. This section provides assistance in reading the tables by explaining some of the headings for the categories of data. It also explains the use of the row and column factors to compute the relative standard error of the estimates given in the tables. The section concludes with a "Quick-Reference Guide" to the statistics in the different tables.

Organization of the Tables

The tables cover consumption and expenditures for six topical areas:

- Major Energy Source
- Space-Heating End Use
- Air-Conditioning End Use
- Water-Heating End Use
- Refrigerator End Use
- Appliance End Use

The tables displaying data by major source (Tables 5.1 through 5.10) present household energy consumption and expenditure data that were obtained from the energy suppliers of the households. The tables present the average consumption and expenditures for all energy sources, followed by tables displaying statistics on individual energy sources. Statistics are provided both for the aggregate of all households and by per-household averages.

The tables presenting data by total end use and by space heating, air-conditioning, water heating, refrigerators, and appliances (Tables 5.11 through 5.28) contain nonlinear regression estimates of energy consumption and expenditures. Details concerning the methodology used for the end-use estimates are in Appendix C, "End-Use Estimation Methodology." Data are presented for a total of all energy sources, followed by tables displaying statistics for each energy source. Statistics are provided both by all households and per household averages.

Categories of Data in the Table Rows

The row categories classify data by specific features of the households. The following, listed in alphabetical order, are explanations of some of the row categories that may require clarification.

Below Poverty Line (100 Percent and 125 Percent)—Low-income classifications to which certain households are assigned. "Below 100 percent of poverty line" includes households with incomes below the poverty level as defined by the U.S. Bureau of the Census and the Office of Management and Budget. "Below 125 percent of poverty" includes households with incomes below 125 percent of the poverty level. These groups of the poor and near-poor represent alternative levels for defining poverty. The poverty line varies with the number of family members in the household and the income of the entire family. (See **Eligible for Federal Assistance** below.)

Census Region—Four regions as defined by the U.S. Bureau of Census. For a map showing the four Census regions (and nine Census divisions), see Appendix F. For a listing of the States included in each Census region (and division), see the Glossary.

Climate Zone—One of five climatically distinct areas, defined by long-term weather conditions affecting the heating and cooling loads in buildings. The zones were developed by the Energy End Use and Integrated Statistics Division (EEUISD) from seven distinct climate categories originally identified by the American Institute of Architects (AIA) for the U.S. Department of Energy and the U.S. Department of Housing and Urban Development. The zones were determined according to the 30-year average (1961-1990) of the annual heating and cooling degree-days (base 65 degrees Fahrenheit). For a map, see Appendix F. For additional details, see the Glossary.

Eligible for Federal Assistance—Households are categorized as eligible for federal energy assistance if their income is below the federal maximum standard. The Federal standard is 150 percent of the poverty line or 60 percent of statewide median income, whichever is the higher income. Individual States can set the standard at a lower level than the federal maximum. (See **Below Poverty Line** above.)

Family Income—The total combined income (before taxes and deductions) of all members of the family from all sources, for the 12 months prior to the interview. This definition includes the total income of all family members who lived in the household during the 12 months prior to the interview, regardless of whether they were living there at the time of the interview. For additional details, see **Family Income Category** in the Glossary.

Heated Floorspace—The portion of floorspace that is heated during most of the winter season. Rooms that are shut off during the heating season to save fuel are not counted as heated square footage. Attached garages that are unheated and unheated areas in basements and attics are not counted as heated floorspace.

Ownership of Housing Unit describes the relationship of a housing unit's occupants to the structure itself, not the land on which the structure is sited. "Owned" means the owner or co-owner is a member of the household and the housing unit is either fully paid for or mortgaged. A household is classified "rented" even if the rent is paid by someone not living in the unit. "Rent-free" means the unit is not owned 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. Unless shown separately, rent-free households are grouped with rented households.

Type of Housing Unit—"Single-Family Housing Unit" is a unit that provides living space for one household or family. The structure may be detached or attached to another unit. 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 or the ground floor (if there is no basement) to the roof. (A mobile home with one or more rooms added is classified as a single-family home.) Townhouses, rowhouses, and duplexes are considered single-family attached housing units, as long as there is no household living above another one within the walls that go from the basement to the roof to separate the units.

"Multifamily (two to four units)" is a housing unit in a building with two to four housing units—a structure that is divided into living quarters for two, three, or four families or households and in which one household lives above another. This category also includes houses originally intended for occupancy by one family (or for some other use) that have been converted into separate dwellings 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.

"Multifamily (five or more units)" is a housing unit in a building with five or more housing units—a structure that is divided into living quarters for five or more families or households and in which one household lives above another.

"Mobile Home" is a housing unit built on a movable chassis and moved to the site. It may be placed on a permanent or temporary foundation and may contain one or more rooms. If rooms are added to the structure, it is considered a single-family housing unit. A manufactured house assembled on site is a single-family housing unit, not a mobile home.

Statistical Significance of Data

Row and Column Factors

The tables provide row factors in the far-right column and column factors on the top line of each table. These factors are to be used to determine the Relative Standard Error (RSE) for each estimate, which, in turn, can be used to determine the standard error and the confidence level of the estimate and to determine whether the difference between any two figures is statistically significant. However, since the RSE's are only approximate, standard errors, confidence intervals, and statistical tests must also be regarded as only approximate. For more details about the derivation of the row and column RSE factors, see Appendix B, "Quality of the Data."

To calculate the RSE for a specific estimate, multiply the row factor by the column factor, as illustrated in Figure 5.1, an excerpt from Table 5.10 of this report. This table shows that the average expenditure for natural gas in 1993 among U. S. households that were located in suburban areas was \$6.03 per million Btu. Multiplying 1.9 (the row factor) by 0.8 (the column factor) yields an approximate RSE of 1.52 percent.

Figure 5.1. Use of RSE Row and Column Factors

Characteristics	Major Energy Sources	Electricity	Natural Gas	Fuel Oil	Kerosene	Liquefied Petroleum Gas	RSE Row Factors
RSE Column Factors:	1.0	0.8	0.8	0.8	1.3	1.7	
Largest Populated States							
California	14.47	32.86	6.09	Q	Q	15.42	2.2
Florida	22.63	24.41	8.48	Q	9.52	16.00	5.9
New York	13.01	40.62	8.37	6.28	7.79	13.83	3.1
Texas	14.24	23.52	5.54	NC	Q	8.98	5.6
Urban Status							
Urban	12.35	25.70	6.17	6.48	8.21	10.92	1.7
Central City	11.84	26.99	6.35	5.94	7.87	12.28	2.5
Suburban	12.67	25.55	6.03	6.67	8.38	10.72	1.9
Rural	12.50	21.82	5.55	6.41	8.96	9.62	2.3
Climate Zone							
Under 2,000 CDD and—Over 7,000 HDD	10.11	22.19	5.39	6.31	7.69	9.51	2.7
5,500 to 7,000 HDD	10.50	25.15	5.85	6.52	8.17	9.10	3.5
4,000 to 5,499 HDD	12.54	24.75	6.82	6.47	8.95	9.92	3.7
Under 4,000 HDD	14.10	25.91	6.20	6.53	8.04	11.12	3.8
2,000 CDD or More and—Under 4,000 HDD	16.03	24.27	5.90	Q	8.97	11.31	3.2

Source: Energy Information Administration, Office of Energy Markets and End Use, the 1993 Residential Energy Consumption Survey.

Standard Errors

Since the estimates presented in the following tables are based on a sample of residential housing units, they are subject to sampling error, or standard error. To determine the standard error for an estimate in these tables, multiply the approximate RSE by the estimate. For example, to determine the standard error of the average expenditures for natural gas in 1993 among U.S. households located in suburban areas, multiply \$6.03 per million Btu by .0152 (the approximate RSE). The result, \$0.09 per million Btu, is the approximate standard error for the estimate.

Confidence Levels

For each of the estimates given in the tables, a 95-percent confidence range can be determined with the estimate at the midpoint. To calculate the 95-percent confidence range for a given figure:

1. Multiply the RSE row factor by the RSE column factor to determine the approximate RSE.
2. Multiply the approximate RSE (divided by 100) by the estimate given in the table to determine the approximate standard error.
3. Multiply the result by 1.96 to determine approximate 2 standard errors.
4. Subtract the result of Step 3 from the given estimate to determine the bottom of the range.
5. Add the result of Step 3 to the given estimate to determine the top of the range.

The result of these steps will yield a range with the property where by, in repeated surveys, the estimate would fall in the range constructed in this way 95 percent of the time.

For example, to determine the confidence range for the estimated average expenditures for natural gas of \$6.03 per million Btu in 1993 among U.S. households located in the suburban areas:

1. Multiply 1.9 (the RSE row factor) by 0.8 (the RSE column factor), which yields 1.52 percent (the approximate RSE).
2. Multiply .0152 (the approximate RSE) by \$6.03 per million Btu (the estimate), which yields \$0.091656 per million Btu (the approximate standard error).
3. Multiply \$0.091656 per million Btu by 1.96, which yields \$0.18 per million Btu (approximate 2 standard errors).
4. To determine the bottom of the range, subtract \$0.18 per million Btu from \$6.03 per million Btu, which yields \$5.85 per million Btu.
5. To determine the top of the range, add \$0.18 per million Btu to \$6.03 per million Btu, which yields \$6.21 per million Btu.

It can then be said with 95-percent confidence that, in 1993, the average expenditures for natural gas among U.S. households located in suburban areas fell between \$5.85 and \$6.21 per million Btu.

Statistical Significance Between Two Statistics

The difference between any two estimates given in the detailed tables may or may not be statistically significant. Statistical significance for the difference between two independent variables is computed as:

$$S_{x_1-x_2} = \sqrt{[S_{x_1}]^2 + [S_{x_2}]^2}$$

where S is the standard error, x_1 is the first estimate, and x_2 is the second estimate. The result of this computation is to be multiplied by 1.96, and if this result is less than the difference between the two estimates, the difference is statistically significant.

For example, the average expenditures for natural gas among U.S. households located in suburban areas in 1993 was \$6.03 per million Btu. The comparable amount for U.S. households located in rural areas was \$5.55 per million Btu, an estimated difference of \$0.48 per million Btu. The standard error for the \$6.03 per million Btu suburban estimate (\bar{x}) is \$0.09, and the standard error for the \$5.55 per million Btu rural estimate (\bar{x}_2) is \$0.10:

$$S_{\bar{x}_1 - \bar{x}_2} = \sqrt{0.09^2 + 0.10^2}$$

$$S_{\bar{x}_1 - \bar{x}_2} = 0.13$$

Multiplying \$0.13 by 1.96 yields \$0.26 per million Btu. Since \$0.26 per million Btu is less than the \$0.48 per million Btu difference between the 1993 suburban and rural natural gas estimates, the difference is statistically significant.

Quick-Reference Guide

Following is a Quick-Reference Guide that lists the table headings covered in the detailed tables and shows the table number for each of the tables.

Quick-Reference Guide	
Topic	Table Numbers
Energy Consumption and Expenditures	
Average of All Major Sources	5.1
Consumption by Each Major Source	5.2
Expenditures by Each Major Source	5.3
Electricity, per Household	5.4
Natural Gas, per Household	5.5
Fuel Oil, per Household	5.6
Kerosene, per Household	5.7
Liquefied Petroleum Gas (LPG), per Household	5.8
Wood Consumption	5.9
Average Expenditures by Each Major Energy Source	5.10
Energy End Use	
Consumption and Expenditures by End Use	5.11
Consumption by End Use, per Household	5.12
Expenditures by End Use, per Household	5.13
Space-Heating Consumption and Expenditures	
Electricity and Natural Gas	5.14
Fuel Oil, Kerosene, and LPG	5.15
Electricity, per Household	5.16
Natural Gas, per Household	5.17
Fuel Oil, per Household	5.18
LPG, per Household	5.19
Air-Conditioning Consumption and Expenditures	
Electricity for all A/C and Central A/C	5.20
Electricity for Room A/C	5.21
Water-Heating Consumption and Expenditures	
Electricity and Natural Gas	5.22
Fuel Oil and Natural Gas	5.23
Electricity and Natural Gas, per Household	5.24
Fuel Oil and Natural Gas, per Household	5.25
Appliances and Refrigerator Consumption and Expenditures	
Electricity, Natural Gas, and LPG	5.26
Electricity, per Household	5.27
Natural Gas and LPG, per Household	5.28

Table 5.1. Consumption and Expenditures in U.S. Households, 1993

Characteristics	Average of Major Energy Sources ¹											RSE Row Factors
	Residential Buildings			Consumption				Expenditures (dollars)				
	Total Households (million)	Total Number (million)	Total Floor-space (billion sq. ft.)	per Building (million Btu)	per Square Foot (thousand Btu)	per Household (million Btu)	per Household Member (million Btu)	per Building	per Square Foot	per Household	per Household Member	
RSE Column Factors:	1.4	1.4	1.4	1.0	0.8	1.0	1.0	0.9	0.8	0.8	0.8	
Total U.S. Households	96.6	76.5	181.2	131	55	103.6	40	1,620	0.68	1,282	491	1.3
Census Region and Division												
Northeast	19.5	13.8	40.1	173	60	122.4	47	2,157	.74	1,526	583	2.4
New England	5.1	3.7	10.6	168	59	123.1	48	2,094	.73	1,532	598	4.1
Middle Atlantic	14.4	10.1	29.4	175	60	122.1	46	2,181	.75	1,523	578	2.9
Midwest	23.3	19.0	50.6	165	62	134.3	52	1,640	.62	1,336	521	2.3
East North Central	16.4	13.1	35.3	173	64	138.8	54	1,697	.63	1,358	526	2.5
West North Central	6.9	5.9	15.2	146	56	123.8	49	1,512	.58	1,282	508	4.6
South	33.5	28.4	57.1	104	52	87.9	34	1,540	.76	1,304	503	2.5
South Atlantic	17.4	14.2	29.9	95	45	77.8	31	1,577	.75	1,288	506	3.5
East South Central	6.0	5.5	10.8	104	53	94.9	37	1,315	.67	1,200	463	4.3
West South Central	10.1	8.7	16.5	118	62	101.1	38	1,619	.86	1,391	522	4.6
West	20.4	15.4	33.5	101	46	76.0	28	1,263	.58	953	353	2.6
Mountain	5.4	4.4	9.3	118	57	98.1	38	1,236	.59	1,025	396	4.3
Pacific	15.0	10.9	24.2	94	42	68.2	25	1,274	.58	928	338	3.3
Largest Populated States												
California	11.1	8.0	17.9	91	41	65.2	23	1,313	.59	944	330	3.5
Florida	5.6	4.3	9.3	67	31	52.1	20	1,527	.71	1,180	453	5.7
New York	6.8	3.7	12.8	225	64	121.2	45	2,925	.84	1,577	590	4.7
Texas	6.4	5.4	10.8	114	57	94.7	36	1,622	.81	1,349	506	6.2
Urban Status												
Urban	75.8	57.2	140.5	137	56	103.2	39	1,689	.69	1,275	488	1.5
Central City	30.6	19.8	47.1	151	63	97.6	38	1,785	.75	1,155	455	2.4
Suburban	45.2	37.4	93.4	129	52	107.0	40	1,639	.66	1,356	509	1.7
Rural	20.8	19.3	40.7	113	54	104.7	40	1,415	.67	1,309	501	2.6
Climate Zone ²												
Under 2,000 CDD and Over 7,000 HDD	8.7	7.6	19.3	142	56	124.0	48	1,434	.57	1,254	481	4.8
5,500 to 7,000 HDD	26.5	20.4	55.2	168	62	129.2	51	1,762	.65	1,356	534	3.6
4,000 to 5,499 HDD	22.5	17.0	44.0	143	55	108.3	42	1,796	.69	1,359	521	4.4
Under 4,000 HDD	17.8	13.9	28.5	101	49	78.5	29	1,419	.69	1,107	408	4.9
2,000 CDD or More and Under 4,000 HDD	21.2	17.6	34.2	95	49	79.0	30	1,525	.79	1,267	482	3.8
Type of Housing Unit												
Single-Family	66.8	66.8	152.2	119	52	118.5	43	1,441	.63	1,441	517	1.4
Detached	59.5	59.5	139.1	121	52	121.2	43	1,462	.63	1,462	520	1.5
Attached	7.3	7.3	13.1	96	53	96.3	37	1,266	.70	1,266	487	4.7
Mobile Home	5.6	5.6	5.4	82	84	81.9	31	1,203	1.23	1,203	454	4.3
Multifamily	24.2	4.1	23.6	398	69	67.3	32	5,108	.89	863	406	3.0
2 to 4 Units	8.0	2.9	9.6	276	83	99.5	41	3,085	.93	1,112	461	4.4
5 or More Units	16.2	1.2	14.0	692	60	51.5	26	9,951	.86	740	373	3.7
Heated Floorspace (square feet)												
Fewer than 1,000	29.3	15.3	24.2	128	81	66.7	31	1,675	1.06	875	411	2.3
1,000 to 1,999	40.2	34.6	68.2	117	59	100.7	37	1,492	.76	1,286	473	1.6
2,000 to 2,999	17.8	17.4	48.6	140	50	136.6	47	1,661	.60	1,622	552	2.1
3,000 or More	9.3	9.1	40.3	172	39	168.8	55	1,936	.44	1,901	620	3.6

See footnotes at end of table.

Table 5.1. Consumption and Expenditures in U.S. Households, 1993 (Continued)

Characteristics	Average of Major Energy Sources ¹											RSE Row Factors
	Residential Buildings			Consumption				Expenditures (dollars)				
	Total Households (million)	Total Number (million)	Total Floor-space (billion sq. ft.)	per Building (million Btu)	per Square Foot (thousand Btu)	per Household (million Btu)	per Household Member (million Btu)	per Building	per Square Foot	per Household	per Household Member	
RSE Column Factors:	1.4	1.4	1.4	1.0	0.8	1.0	1.0	0.9	0.8	0.8	0.8	
Total Number of Rooms (Excluding Bathrooms)												
1 or 2	3.2	0.7	1.7	195	78	41.3	29	2,702	1.08	574	409	7.9
3 to 5	47.4	31.0	59.6	122	63	79.6	35	1,578	.82	1,032	451	1.8
6 to 8	40.2	39.1	97.7	130	52	126.3	42	1,572	.63	1,529	514	1.6
9 or More	5.8	5.7	22.1	179	46	175.5	51	2,050	.53	2,008	588	4.6
Ownership of Unit												
Owned	63.2	60.8	143.5	123	52	118.5	44	1,514	.64	1,457	537	1.4
Rented	33.4	15.7	37.7	161	67	75.2	31	2,033	.84	953	393	2.3
Public Housing	3.4	.8	2.9	263	69	58.2	27	3,396	.89	753	350	8.5
Not Public Housing	30.0	14.9	34.8	155	67	77.2	31	1,963	.84	976	397	2.5
Rent Subsidy	2.0	.7	2.2	214	70	75.8	33	2,552	.84	905	390	8.2
No Rent Subsidy	28.0	14.2	32.6	152	66	77.3	31	1,934	.84	981	397	2.6
Year of Construction												
1939 or Before	20.4	16.0	40.6	164	65	129.4	51	1,682	.66	1,325	525	2.7
1940 to 1949	6.9	5.9	11.6	132	67	111.8	45	1,463	.74	1,240	496	3.7
1950 to 1959	13.1	11.7	24.7	128	60	114.1	41	1,555	.73	1,387	495	3.6
1960 to 1969	15.0	11.3	27.2	136	57	102.9	43	1,665	.69	1,257	522	3.1
1970 to 1979	18.1	13.1	31.7	122	50	87.9	34	1,694	.70	1,222	472	2.9
1980 to 1984	8.5	6.5	14.7	105	46	80.3	30	1,632	.72	1,247	459	3.6
1985 to 1987	5.5	4.3	10.8	108	44	85.2	30	1,631	.66	1,284	459	4.8
1988 to 1990	4.7	4.0	10.0	106	43	90.4	31	1,544	.62	1,322	452	4.3
1991 to 1993 ³	4.5	3.7	10.0	108	40	88.9	33	1,455	.53	1,200	448	6.0
All Utilities Paid by Household												
Yes	82.9	73.1	168.8	123	53	108.3	40	1,536	.67	1,356	503	1.3
No	13.8	3.3	12.4	309	83	75.2	36	3,453	.93	840	397	3.8
1993 Family Income												
Less than \$5,000	4.1	2.3	4.6	139	71	79.8	35	1,724	.88	991	433	5.5
\$5,000 to \$9,999	10.6	6.9	12.9	125	67	81.4	43	1,502	.80	977	511	3.5
\$10,000 to \$14,999	11.1	7.8	16.0	128	62	89.7	38	1,502	.73	1,051	446	3.5
\$15,000 to \$19,999	9.6	7.5	15.4	128	62	99.2	41	1,498	.73	1,163	478	3.6
\$20,000 to \$24,999	8.7	6.8	14.4	125	59	96.6	41	1,526	.72	1,182	501	3.2
\$25,000 to \$34,999	14.1	11.5	26.4	127	55	103.5	39	1,592	.69	1,302	493	2.8
\$35,000 to \$49,999	17.5	14.6	37.5	130	51	108.5	38	1,648	.64	1,379	477	2.3
\$50,000 to \$74,999	12.6	11.5	29.9	131	50	119.2	38	1,638	.63	1,493	478	2.5
\$75,000 or More	8.3	7.6	24.3	153	48	139.9	45	1,983	.62	1,809	588	3.7
Below Poverty Line												
100 Percent	14.4	9.3	17.7	133	70	85.8	31	1,631	.86	1,055	377	3.1
125 Percent	19.4	13.1	25.0	130	68	87.8	32	1,592	.83	1,078	388	2.6
150 Percent	24.8	16.9	32.8	129	67	88.6	32	1,595	.82	1,092	395	2.3
Eligible for Federal Assistance ⁴												
	30.7	21.1	42.5	132	65	90.7	35	1,595	.79	1,096	419	2.2
Age of Householder												
Under 25 Years	5.7	3.0	6.4	143	67	75.4	30	1,810	.85	956	377	5.7
25 to 34 Years	19.9	14.0	31.8	136	60	95.4	32	1,690	.74	1,187	394	2.4
35 to 44 Years	21.4	18.0	42.8	126	53	105.9	32	1,640	.69	1,380	417	2.1
45 to 59 Years	21.9	18.8	46.5	132	53	113.5	43	1,663	.67	1,429	546	2.2
60 Years and Over	27.8	22.7	53.7	129	55	105.6	59	1,500	.63	1,227	681	2.1

See footnotes at end of table.

Table 5.1. Consumption and Expenditures in U.S. Households, 1993 (Continued)

Characteristics	Average of Major Energy Sources ¹											RSE Row Fac- tors
	Residential Buildings			Consumption				Expenditures (dollars)				
	Total Households (million)	Total Number (million)	Total Floor-space (billion sq. ft.)	per Building (million Btu)	per Square Foot (thousand Btu)	per Household (million Btu)	per Household Member (million Btu)	per Building	per Square Foot	per Household	per Household Member	
RSE Column Factors:	1.4	1.4	1.4	1.0	0.8	1.0	1.0	0.9	0.8	0.8	0.8	
Education of Householder												
12 Years or Fewer	51.5	41.0	85.6	126	61	100.6	38	1,540	0.74	1,226	463	1.6
13 to 16 Years	33.6	26.6	69.1	133	51	105.0	40	1,681	.65	1,330	512	1.9
17 Years or More	11.5	8.9	26.5	146	49	112.4	45	1,808	.61	1,394	556	3.0
Race of Householder												
White	80.2	66.2	158.6	128	53	105.3	41	1,584	.66	1,307	513	1.4
Black	10.9	7.0	15.2	167	77	106.7	39	1,956	.90	1,250	461	4.0
Other ⁵	5.5	3.3	7.4	121	55	72.7	22	1,642	.74	988	295	5.3
Householder of Hispanic Descent												
Yes	7.9	5.2	11.2	123	57	81.2	25	1,612	.75	1,065	332	4.5
No	88.7	71.3	170.1	131	55	105.5	41	1,621	.68	1,302	508	1.3
Household Size												
1 Person	23.5	14.8	32.1	122	56	76.7	77	1,437	.66	904	904	2.5
2 Persons	31.7	25.8	61.9	124	52	101.3	51	1,540	.64	1,253	626	1.8
3 Persons	16.6	13.9	32.3	135	58	112.9	38	1,693	.73	1,416	472	2.2
4 Persons	14.6	13.0	32.4	140	56	125.2	31	1,750	.70	1,561	390	2.0
5 Persons	6.8	6.1	15.0	136	55	122.3	24	1,770	.72	1,588	318	3.2
6 or More Persons	3.5	3.0	7.5	158	62	133.9	20	2,012	.79	1,708	251	6.7

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

² Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes 1.7 million householders who described themselves as Hispanic rather than White, Black, or other.

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.2. Total Consumption in U.S. Households, 1993

Characteristics	Major Energy Sources ¹ (quad-rillion Btu)	Electricity			Natural Gas		Fuel Oil		Kerosene		Liquefied Petroleum Gas		RSE Row Factors
		Primary (quad-rillion Btu)	Site		(quad-rillion Btu)	(bil-lion cubic feet)	(quad-rillion Btu)	(bil-lion gal-lons)	(quad-rillion Btu)	(bil-lion gal-lons)	(quad-rillion Btu)	(bil-lion gal-lons)	
			(quad-rillion Btu)	(bil-lion kWh)									
RSE Column Factors:	0.4	0.4	0.4	0.4	0.7	0.7	1.3	1.3	2.8	2.8	2.0	2.0	
Total U.S. Households	10.01	9.89	3.28	962	5.27	5,131	1.02	7.38	0.05	0.34	0.38	4.16	4.8
Census Region and Division													
Northeast	2.38	1.42	.47	138	1.11	1,081	.76	5.46	.02	.15	.03	.28	10.7
New England .....	.62	.37	.12	36	.19	184	.29	2.10	.01	.06	.01	.15	14.9
Middle Atlantic	1.76	1.05	.35	102	.92	897	.47	3.36	.01	.08	.01	.13	13.8
Midwest	3.13	2.23	.74	217	2.07	2,013	.13	.92	Q	Q	.19	2.04	10.0
East North Central	2.27	1.50	.50	146	1.59	1,549	.07	.51	Q	Q	.10	1.13	11.6
West North Central .....	.86	.74	.24	72	.48	463	.06	.41	Q	Q	.08	.91	16.8
South	2.95	4.54	1.51	442	1.18	1,149	.11	.77	.02	.15	.13	1.43	7.8
South Atlantic	1.35	2.25	.75	219	.42	409	.10	.72	.02	.13	.07	.73	9.3
East South Central .....	.57	.90	.30	88	.22	217	Q	Q	Q	Q	.04	.41	16.2
West South Central	1.02	1.39	.46	135	.54	523	NC	NC	Q	Q	.03	.29	13.7
West	1.55	1.70	.56	166	.91	888	.03	.23	Q	Q	.04	.41	10.6
Mountain .....	.53	.50	.17	49	.33	317	Q	Q	Q	Q	.03	.30	13.8
Pacific	1.02	1.20	.40	117	.59	571	.03	.19	Q	Q	.01	.11	12.7
Largest Populated States													
California .....	.73	.68	.22	66	.49	478	Q	Q	Q	Q	.01	.07	8.8
Florida .....	.29	.76	.25	74	.02	18	Q	Q	Q	Q	.01	.14	19.8
New York .....	.82	.40	.13	39	.42	411	.25	1.83	Q	Q	Q	Q	22.9
Texas .....	.61	.88	.29	86	.30	295	NC	NC	Q	Q	.02	.17	20.1
Urban Status													
Urban	7.82	7.33	2.43	713	4.47	4,351	.78	5.59	.02	.16	.12	1.32	5.9
Central City	2.99	2.51	.83	244	1.93	1,876	.20	1.45	.01	.05	.02	.17	9.1
Suburban	4.84	4.82	1.60	469	2.54	2,475	.57	4.14	.01	.11	.11	1.15	6.6
Rural	2.18	2.57	.85	250	.80	779	.25	1.79	.02	.18	.26	2.84	9.4
Climate Zone²													
Under 2,000 CDD and Over 7,000 HDD	1.08	.82	.27	80	.52	506	.20	1.48	.01	.08	.07	.77	25.1
5,500 to 7,000 HDD	3.42	2.38	.79	232	2.14	2,083	.37	2.64	.01	.08	.11	1.23	17.8
4,000 to 5,499 HDD	2.43	2.33	.77	226	1.16	1,133	.42	3.02	.01	.07	.07	.76	16.6
Under 4,000 HDD	1.40	1.64	.54	159	.75	733	.03	.21	.01	.08	.06	.67	22.4
2,000 CDD or More and Under 4,000 HDD	1.68	2.72	.90	265	.70	677	Q	Q	.01	.04	.07	.73	15.9
Type of Housing Unit													
Single-Family	7.92	7.77	2.58	756	4.17	4,060	.83	6.02	.03	.19	.30	3.31	5.8
Detached	7.21	7.04	2.34	685	3.77	3,666	.78	5.65	.03	.19	.30	3.27	6.2
Attached .....	.70	.73	.24	71	.41	394	.05	.37	(*)	.01	Q	Q	17.7
Mobile Home .....	.46	.64	.21	63	.14	132	.02	.13	.02	.13	.07	.79	17.0
Multifamily	1.63	1.48	.49	144	.97	939	.17	1.23	(*)	.02	.01	.06	12.3
2 to 4 Units .....	.80	.50	.17	49	.54	523	.09	.64	(*)	.01	(*)	.04	17.3
5 or More Units .....	.83	.97	.32	95	.43	416	.08	.59	Q	Q	Q	Q	13.4
Heated Floorspace (square feet)													
Fewer than 1,000	1.96	2.06	.68	200	1.02	992	.14	.99	.02	.18	.09	.99	7.3
1,000 to 1,999	4.05	4.29	1.43	418	2.11	2,056	.35	2.52	.02	.12	.14	1.56	6.9
2,000 to 2,999	2.44	2.23	.74	217	1.29	1,254	.32	2.34	(*)	.02	.08	.88	9.0
3,000 or More	1.57	1.31	.43	127	.85	828	.21	1.53	Q	Q	.07	.73	12.6
Total Number of Rooms (Excluding Bathrooms)													
1 or 2 .....	.13	.13	.04	13	.07	69	.02	.13	Q	Q	Q	Q	23.4
3 to 5	3.77	4.00	1.33	389	1.92	1,866	.33	2.39	.03	.25	.16	1.76	6.5
6 to 8	5.08	4.91	1.63	478	2.71	2,634	.54	3.87	.01	.09	.19	2.09	7.3
9 or More	1.02	.85	.28	83	.58	561	.14	.99	(*)	(*)	.03	.30	15.6

See footnotes at end of table.

Table 5.2. Total Consumption in U.S. Households, 1993 (Continued)

Characteristics	Major Energy Sources ¹ (quad-rillion Btu)	Electricity			Natural Gas		Fuel Oil		Kerosene		Liquefied Petroleum Gas		RSE Row Factors
		Primary	Site		(quad-rillion Btu)	(bil-lion cubic feet)	(quad-rillion Btu)	(bil-lion gal-lons)	(quad-rillion Btu)	(bil-lion gal-lons)	(quad-rillion Btu)	(bil-lion gal-lons)	
		(quad-ril-lion Btu)	(quad-ril-lion Btu)	(bil-lion kWh)									
RSE Column Factors:	0.4	0.4	0.4	0.4	0.7	0.7	1.3	1.3	2.8	2.8	2.0	2.0	
Ownership of Unit													
Owned	7.49	7.43	2.47	723	3.86	3,755	0.81	5.88	0.03	0.23	0.32	3.50	5.7
Rented	2.52	2.46	.82	240	1.41	1,376	.21	1.50	.01	.11	.06	.66	7.2
Public Housing .....	.20	.22	.07	21	.12	114	.01	.06	Q	Q	Q	Q	24.2
Not Public Housing	2.32	2.25	.75	218	1.30	1,261	.20	1.44	.01	.10	.06	.65	7.6
Rent Subsidy .....	.15	.12	.04	12	.09	89	.02	.12	Q	Q	Q	Q	20.4
No Rent Subsidy	2.16	2.12	.71	207	1.21	1,172	.18	1.32	.01	.10	.06	.62	8.1
Year of Construction													
1939 or Before	2.63	1.54	.51	150	1.55	1,507	.43	3.12	.01	.10	.13	1.39	9.3
1940 to 1949 .....	.77	.61	.20	59	.44	424	.10	.74	(*)	.03	.03	.32	15.3
1950 to 1959	1.49	1.27	.42	123	.85	824	.19	1.37	(*)	.03	.03	.31	12.5
1960 to 1969	1.55	1.46	.49	142	.90	872	.11	.76	.01	.04	.05	.58	12.1
1970 to 1979	1.59	2.15	.71	209	.69	667	.12	.88	.01	.09	.06	.69	10.0
1980 to 1984 .....	.68	1.06	.35	103	.29	278	.02	.15	(*)	.02	.02	.19	13.8
1985 to 1987 .....	.47	.69	.23	67	.20	195	.02	.12	(*)	.01	.02	.23	16.9
1988 to 1990 .....	.43	.62	.21	60	.18	173	.02	.14	Q	Q	.02	.21	18.2
1991 to 1993 ³ .....	.40	.50	.16	48	.20	190	.01	.10	Q	Q	.02	.25	22.4
All Utilities Paid by Household													
Yes	8.97	9.25	3.07	900	4.62	4,493	.88	6.33	.04	.32	.36	3.97	5.3
No	1.03	.64	.21	62	.66	638	.15	1.05	(*)	.02	.02	.19	12.4
1993 Family Income													
Less than \$5,000 .....	.32	.29	.10	28	.18	175	.03	.21	(*)	.02	.02	.17	18.9
\$5,000 to \$9,999 .....	.86	.78	.26	76	.48	465	.08	.55	.01	.05	.04	.47	11.9
\$10,000 to \$14,999	1.00	.86	.29	84	.58	561	.09	.66	.01	.06	.04	.38	10.6
\$15,000 to \$19,999 .....	.95	.89	.30	87	.52	508	.09	.63	.01	.08	.04	.43	13.0
\$20,000 to \$24,999 .....	.84	.85	.28	83	.43	422	.08	.59	(*)	.03	.04	.46	11.9
\$25,000 to \$34,999	1.45	1.53	.51	149	.70	682	.16	1.16	.01	.04	.08	.84	10.4
\$35,000 to \$49,999	1.90	1.97	.65	191	.96	937	.21	1.51	(*)	.03	.07	.73	8.6
\$50,000 to \$74,999	1.51	1.56	.52	152	.78	755	.17	1.21	(*)	.01	.04	.47	9.9
\$75,000 or More	1.17	1.15	.38	112	.64	626	.12	.86	Q	Q	.02	.21	14.5
Below Poverty Line													
100 Percent	1.23	1.15	.38	112	.68	666	.09	.68	.01	.09	.06	.66	10.5
125 Percent	1.70	1.60	.53	156	.93	902	.14	1.00	.02	.12	.09	.96	9.5
150 Percent	2.19	2.12	.70	207	1.19	1,156	.18	1.31	.02	.14	.10	1.12	8.6
Eligible for Federal Assistance⁴													
	2.78	2.56	.85	249	1.54	1,498	.25	1.83	.02	.18	.12	1.28	7.7
Age of Householder													
Under 25 Years .....	.43	.47	.16	46	.24	231	.02	.17	(*)	.02	.01	.12	17.5
25 to 34 Years	1.90	1.91	.63	186	1.05	1,025	.14	1.01	.01	.07	.06	.66	9.1
35 to 44 Years	2.27	2.46	.82	239	1.15	1,121	.21	1.52	.01	.09	.07	.81	7.9
45 to 59 Years	2.48	2.57	.85	250	1.25	1,213	.26	1.89	.01	.07	.11	1.18	8.2
60 Years and Over	2.93	2.48	.82	241	1.58	1,541	.39	2.79	.01	.09	.13	1.40	8.6
Education of Householder													
12 Years or Fewer	5.18	5.02	1.67	488	2.69	2,620	.53	3.79	.03	.26	.26	2.87	6.0
13 to 16 Years	3.53	3.66	1.21	356	1.85	1,795	.36	2.60	.01	.07	.10	1.10	6.7
17 Years or More	1.29	1.21	.40	118	.74	715	.14	.99	Q	Q	.02	.19	11.9
Race of Householder													
White	8.44	8.55	2.84	832	4.28	4,159	.93	6.68	.04	.27	.36	3.97	5.5
Black	1.16	.94	.31	91	.76	740	.07	.50	.01	.06	.01	.15	14.4
Other ⁵ .....	.40	.40	.13	39	.24	231	.03	.20	Q	Q	(*)	.04	17.0

See footnotes at end of table.

Table 5.2. Total Consumption in U.S. Households, 1993 (Continued)

Characteristics	Major Energy Sources ¹ (quadrillion Btu)	Electricity			Natural Gas		Fuel Oil		Kerosene		Liquefied Petroleum Gas		RSE Row Factors
		Primary	Site		(quadrillion Btu)	(billion cubic feet)	(quadrillion Btu)	(billion gallons)	(quadrillion Btu)	(billion gallons)	(quadrillion Btu)	(billion gallons)	
		(quadrillion Btu)	(quadrillion Btu)	(billion kWh)									
RSE Column Factors:	0.4	0.4	0.4	0.4	0.7	0.7	1.3	1.3	2.8	2.8	2.0	2.0	

Householder of Hispanic

Descent													
Yes	0.64	0.61	0.20	59	0.35	342	0.07	0.53	Q	Q	0.01	0.13	16.1
No	9.37	9.28	3.08	903	4.92	4,788	.95	6.85	0.04	0.33	.37	4.03	5.2

Household Size

1 Person	1.80	1.56	.52	152	1.02	989	.20	1.43	.01	.08	.06	.66	8.0
2 Persons	3.21	3.25	1.08	316	1.64	1,592	.33	2.41	.01	.10	.14	1.58	7.8
3 Persons	1.87	1.85	.61	180	.98	958	.20	1.45	.01	.07	.06	.71	8.9
4 Persons	1.83	1.85	.61	180	.98	958	.17	1.21	.01	.04	.06	.62	8.0
5 Persons .....	.83	.91	.30	89	.40	391	.08	.55	.01	.04	.04	.45	12.9
6 or More Persons .....	.47	.47	.16	46	.25	243	.05	.33	Q	Q	.01	.14	16.9

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

² Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

(*) = Value rounds to zero in the units displayed.

NC = No cases in sample.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Site electricity is the amount of electricity delivered to households. Primary electricity, which is not included in the "Major Energy Sources" category, is site electricity plus the conversion losses in the electric generation process at the utility plant. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.3. Total Expenditures in U.S. Households, 1993
(Billion Dollars)

Characteristics	Major Energy Sources ¹	Electricity	Natural Gas	Fuel Oil	Kerosene	Liquefied Petroleum Gas	RSE Row Factors
RSE Column Factors:	0.4	0.4	0.7	1.4	3.0	2.0	
Total U.S. Households	123.91	81.08	32.04	6.61	0.37	3.81	4.6
Census Region and Division							
Northeast	29.72	15.76	8.60	4.85	.15	.35	9.5
New England	7.77	4.04	1.59	1.89	.07	.17	13.7
Middle Atlantic	21.95	11.72	7.00	2.96	.09	.18	12.3
Midwest	31.12	17.55	11.13	.79	.05	1.59	10.1
East North Central	22.21	12.21	8.62	.44	Q	.90	11.3
West North Central	8.91	5.34	2.52	.34	Q	.70	14.2
South	43.67	34.08	7.24	.73	.17	1.46	7.7
South Atlantic	22.37	17.70	3.01	.69	.14	.83	10.4
East South Central	7.20	5.50	1.26	Q	Q	.38	13.8
West South Central	14.09	10.88	2.97	NC	Q	.24	12.6
West	19.41	13.69	5.07	.24	Q	.41	9.1
Mountain	5.49	3.63	1.57	Q	Q	.26	10.4
Pacific	13.91	10.06	3.50	.20	Q	.15	11.5
Largest Populated States							
California	10.50	7.39	2.99	Q	Q	.10	9.1
Florida	6.58	6.16	.16	Q	Q	.20	18.6
New York	10.73	5.43	3.54	1.59	.06	.11	19.7
Texas	8.70	6.88	1.68	NC	Q	.14	20.3
Urban Status							
Urban	96.61	62.50	27.59	5.03	.18	1.32	5.5
Central City	35.34	21.65	12.25	1.19	.06	.19	8.0
Suburban	61.27	40.85	15.34	3.83	.12	1.13	6.3
Rural	27.30	18.58	4.44	1.58	.19	2.50	9.1
Climate Zone ²							
Under 2,000 CDD and Over 7,000 HDD	10.90	6.06	2.80	1.29	.08	.67	24.9
5,500 to 7,000 HDD	35.93	19.91	12.52	2.39	.09	1.03	16.9
4,000 to 5,499 HDD	30.51	19.10	7.94	2.71	.07	.69	15.2
Under 4,000 HDD	19.70	14.09	4.67	.19	.09	.68	20.5
2,000 CDD or More and Under 4,000 HDD	26.87	21.92	4.10	Q	.05	.76	14.6
Type of Housing Unit							
Single-Family	96.27	62.66	24.87	5.54	.22	2.99	5.7
Detached	87.02	56.44	22.23	5.20	.21	2.95	5.9
Attached	9.25	6.22	2.65	.34	.01	Q	16.3
Mobile Home	6.71	4.93	.76	.12	.14	.76	16.5
Multifamily	20.93	13.48	6.40	.95	.02	.07	11.7
2 to 4 Units	8.92	4.72	3.56	.58	.01	.04	16.0
5 or More Units	12.01	8.76	2.84	.37	Q	Q	12.2
Heated Floorspace (square feet)							
Fewer than 1,000	25.65	17.20	6.48	.79	.20	.98	7.0
1,000 to 1,999	51.68	34.97	12.84	2.28	.13	1.45	6.8
2,000 to 2,999	28.93	18.23	7.74	2.14	.02	.80	8.9
3,000 or More	17.66	10.68	4.97	1.40	Q	.59	12.2
Total Number of Rooms (Excluding Bathrooms)							
1 or 2	1.84	1.21	.51	.10	Q	Q	21.0
3 to 5	48.88	33.01	11.89	2.03	.27	1.68	6.3
6 to 8	61.46	39.73	16.21	3.56	.10	1.86	7.1
9 or More	11.73	7.13	3.42	.91	.01	.27	15.7
Ownership of Unit							
Owned	92.07	60.10	23.15	5.40	.26	3.16	5.4
Rented	31.84	20.98	8.88	1.21	.12	.65	7.0
Public Housing	2.59	1.80	.74	.04	Q	Q	22.8
Not Public Housing	29.25	19.19	8.14	1.17	.11	.64	7.5
Rent Subsidy	1.80	1.08	.61	.09	Q	Q	20.7
No Rent Subsidy	27.45	18.11	7.54	1.08	.11	.62	7.9

See footnotes at end of table.

Table 5.3. Total Expenditures in U.S. Households, 1993 (Continued)
(Billion Dollars)

Characteristics	Major Energy Sources ¹	Electricity	Natural Gas	Fuel Oil	Kerosene	Liquefied Petroleum Gas	RSE Row Factors
RSE Column Factors:	0.4	0.4	0.7	1.4	3.0	2.0	
Year of Construction							
1939 or Before	26.97	13.34	9.60	2.75	0.11	1.18	9.1
1940 to 1949	8.56	4.91	2.70	.64	.03	.29	14.8
1950 to 1959	18.12	11.22	5.28	1.28	.03	.30	13.6
1960 to 1969	18.89	12.26	5.35	.69	.04	.55	11.9
1970 to 1979	22.18	16.74	3.92	.78	.09	.64	9.7
1980 to 1984	10.55	8.48	1.73	.13	.03	.18	13.3
1985 to 1987	7.05	5.47	1.22	.11	.01	.23	16.8
1988 to 1990	6.23	4.81	1.05	.13	Q	.22	17.6
1991 to 1993 ³	5.36	3.85	1.19	.09	Q	.23	22.0
All Utilities Paid by Household							
Yes	112.36	74.75	27.81	5.82	.35	3.64	5.1
No	11.55	6.33	4.23	.79	.03	.18	11.2
1993 Family Income							
Less than \$5,000	4.02	2.52	1.14	.18	.02	.16	17.9
\$5,000 to \$9,999	10.34	6.42	2.94	.47	.06	.45	11.2
\$10,000 to \$14,999	11.69	7.17	3.51	.58	.06	.37	10.2
\$15,000 to \$19,999	11.20	7.08	3.08	.55	.09	.40	12.5
\$20,000 to \$24,999	10.34	6.75	2.62	.51	.03	.42	11.8
\$25,000 to \$34,999	18.29	12.24	4.20	1.05	.05	.76	10.4
\$35,000 to \$49,999	24.07	16.18	5.87	1.36	.03	.64	8.1
\$50,000 to \$74,999	18.85	12.66	4.66	1.11	.02	.41	9.2
\$75,000 or More	15.10	10.06	4.02	.81	Q	.20	14.7
Below Poverty Line							
100 Percent	15.18	9.61	4.26	.57	.09	.64	9.9
125 Percent	20.88	13.26	5.75	.84	.13	.91	8.9
150 Percent	27.03	17.39	7.32	1.11	.15	1.07	8.2
Eligible for Federal Assistance ⁴							
	33.62	21.15	9.48	1.57	.19	1.23	7.5
Age of Householder							
Under 25 Years	5.46	3.77	1.41	.15	.02	.11	17.2
25 to 34 Years	23.64	15.68	6.39	.87	.08	.62	8.8
35 to 44 Years	29.51	20.17	7.09	1.37	.10	.78	7.6
45 to 59 Years	31.22	20.86	7.51	1.71	.08	1.06	8.0
60 Years and Over	34.09	20.59	9.64	2.51	.09	1.25	8.3
Education of Householder							
12 Years or Fewer	63.15	40.63	16.30	3.32	.28	2.63	5.7
13 to 16 Years	44.70	30.08	11.17	2.37	.07	1.01	6.4
17 Years or More	16.06	10.37	4.57	.92	Q	.17	11.5
Race of Householder							
White	104.81	69.20	25.69	6.02	.29	3.60	5.0
Black	13.63	8.17	4.79	.43	.07	.16	14.5
Other ⁵	5.47	3.71	1.55	.16	Q	.05	16.6
Householder of Hispanic Descent							
Yes	8.41	5.56	2.28	.42	Q	.14	15.3
No	115.50	75.51	29.76	6.19	.36	3.67	5.0

See footnotes at end of table.

Table 5.3. Total Expenditures in U.S. Households, 1993 (Continued)
(Billion Dollars)

Characteristics	Major Energy Sources ¹	Electricity	Natural Gas	Fuel Oil	Kerosene	Liquefied Petroleum Gas	
RSE Column Factors:	0.4	0.4	0.7	1.4	3.0	2.0	RSE Row Factors
Household Size							
1 Person	21.26	13.11	6.18	1.29	0.08	0.60	7.4
2 Persons	39.71	26.15	9.85	2.15	.12	1.45	7.2
3 Persons	23.47	15.30	6.12	1.31	.08	.66	8.7
4 Persons	22.78	15.12	5.94	1.09	.05	.58	7.8
5 Persons	10.74	7.40	2.42	.48	.05	.40	12.6
6 or More Persons	5.94	3.99	1.52	.29	Q	.13	18.1

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

² Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

NC = No cases in sample.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.4. Electricity Consumption and Expenditures in U.S. Households, 1993

Characteristics	Households Using Electricity (million)	Average per Household					Expenditures (cents per kWh)	RSE Row Factors
		Consumption			Expenditures (dollars)	Floorspace (square feet)		
		Primary	Site					
		(million Btu)	(million Btu)	(kWh)				
RSE Column Factors:	1.4	1.1	1.1	1.1	1.0	0.8	0.6	
Total U.S. Households	96.6	102.4	34.0	9,965	840	1,876	8.4	1.5
Census Region and Division								
Northeast	19.5	72.7	24.1	7,071	809	2,056	11.4	3.9
New England	5.1	72.5	24.1	7,049	797	2,101	11.3	3.7
Middle Atlantic	14.4	72.8	24.2	7,078	814	2,041	11.5	5.0
Midwest	23.3	95.9	31.8	9,327	753	2,170	8.1	3.8
East North Central	16.4	91.6	30.4	8,906	747	2,160	8.4	4.7
West North Central	6.9	106.1	35.2	10,319	769	2,194	7.5	5.5
South	33.4	135.8	45.1	13,212	1,019	1,707	7.7	2.2
South Atlantic	17.3	130.0	43.1	12,642	1,023	1,724	8.1	2.5
East South Central	6.0	150.8	50.0	14,666	917	1,796	6.2	4.5
West South Central	10.1	137.0	45.5	13,323	1,074	1,626	8.1	5.2
West	20.4	83.6	27.7	8,131	672	1,644	8.3	3.0
Mountain	5.4	93.9	31.2	9,130	677	1,730	7.4	5.8
Pacific	15.0	79.9	26.5	7,775	671	1,613	8.6	3.6
Largest Populated States								
California	11.1	60.9	20.2	5,924	664	1,609	11.2	3.3
Florida	5.6	136.6	45.3	13,287	1,107	1,667	8.3	4.4
New York	6.8	59.2	19.7	5,763	799	1,888	13.9	8.9
Texas	6.4	136.6	45.3	13,289	1,067	1,668	8.0	6.5
Urban Status								
Urban	75.8	96.7	32.1	9,407	825	1,854	8.8	1.8
Central City	30.6	82.1	27.2	7,986	708	1,540	8.9	2.4
Suburban	45.2	106.6	35.4	10,368	904	2,067	8.7	1.6
Rural	20.8	123.4	40.9	12,000	894	1,954	7.4	2.8
Climate Zone ¹								
Under 2,000 CDD and Over 7,000 HDD	8.7	94.7	31.4	9,209	697	2,218	7.6	4.8
5,500 to 7,000 HDD	26.5	90.0	29.9	8,758	752	2,085	8.6	4.7
4,000 to 5,499 HDD	22.4	103.8	34.4	10,096	852	1,963	8.4	3.2
Under 4,000 HDD	17.8	92.1	30.6	8,954	792	1,603	8.8	4.8
2,000 CDD or More and Under 4,000 HDD	21.2	128.4	42.6	12,495	1,035	1,612	8.3	3.2
Type of Housing Unit								
Single-Family	66.7	116.5	38.7	11,328	939	2,279	8.3	1.5
Detached	59.4	118.5	39.3	11,528	950	2,338	8.2	1.5
Attached	7.3	99.8	33.1	9,704	852	1,799	8.8	5.1
Mobile Home	5.6	115.6	38.4	11,241	884	975	7.9	4.3
Multifamily	24.2	60.9	20.2	5,919	556	972	9.4	2.8
2 to 4 Units	8.0	62.8	20.8	6,105	588	1,198	9.6	4.4
5 or More Units	16.2	59.9	19.9	5,827	540	861	9.3	3.6
Heated Floorspace (square feet)								
Fewer than 1,000	29.3	70.3	23.3	6,835	587	826	8.6	1.9
1,000 to 1,999	40.2	106.9	35.5	10,402	871	1,697	8.4	1.9
2,000 to 2,999	17.8	125.1	41.5	12,165	1,022	2,722	8.4	2.2
3,000 or More	9.3	141.0	46.8	13,717	1,150	4,335	8.4	3.1
Total Number of Rooms (Excluding Bathrooms)								
1 or 2	3.2	40.6	13.5	3,947	377	531	9.6	6.9
3 to 5	47.3	84.4	28.0	8,213	698	1,259	8.5	1.8
6 to 8	40.2	122.3	40.6	11,895	988	2,431	8.3	1.7
9 or More	5.8	145.8	48.4	14,187	1,220	3,791	8.6	4.2

See footnotes at end of table.

Table 5.4. Electricity Consumption and Expenditures in U.S. Households, 1993 (Continued)

Characteristics	Average per Household						Expenditures (cents per kWh)	RSE Row Factors
	Households Using Electricity (million)	Consumption			Expenditures (dollars)	Floorspace (square feet)		
		Primary	Site					
		(million Btu)	(million Btu)	(kWh)				
RSE Column Factors:	1.4	1.1	1.1	1.1	1.0	0.8	0.6	
Ownership of Unit								
Owned	63.2	117.6	39.0	11,443	951	2,272	8.3	1.4
Rented	33.4	73.7	24.5	7,170	628	1,127	8.8	2.1
Public Housing	3.4	63.0	20.9	6,133	523	842	8.5	7.0
Not Public Housing	30.0	74.9	24.9	7,289	640	1,160	8.8	2.2
Rent Subsidy	2.0	60.7	20.2	5,908	541	1,082	9.2	7.1
No Rent Subsidy	28.0	75.9	25.2	7,387	647	1,166	8.8	2.3
Year of Construction								
1939 or Before	20.3	76.0	25.2	7,396	657	1,995	8.9	2.8
1940 to 1949	6.9	88.0	29.2	8,564	712	1,676	8.3	4.1
1950 to 1959	13.1	97.1	32.2	9,447	859	1,890	9.1	3.0
1960 to 1969	15.0	97.5	32.3	9,480	816	1,811	8.6	3.1
1970 to 1979	18.1	118.3	39.3	11,509	923	1,746	8.0	2.8
1980 to 1984	8.5	125.4	41.6	12,203	1,002	1,740	8.2	3.4
1985 to 1987	5.5	124.9	41.4	12,146	997	1,959	8.2	3.8
1988 to 1990	4.7	131.2	43.5	12,759	1,020	2,118	8.0	3.7
1991 to 1993 ²	4.5	111.1	36.9	10,805	861	2,244	8.0	5.5
All Electricity Paid by Household								
Yes	90.3	105.6	35.1	10,275	865	1,946	8.4	1.5
No	6.3	56.6	18.8	5,503	480	869	8.7	6.0
1993 Family Income								
Less than \$5,000	4.0	72.4	24.0	7,044	622	1,124	8.8	5.2
\$5,000 to \$9,999	10.6	73.9	24.5	7,187	608	1,218	8.5	3.5
\$10,000 to \$14,999	11.1	77.4	25.7	7,531	645	1,437	8.6	2.9
\$15,000 to \$19,999	9.6	92.6	30.7	9,006	736	1,596	8.2	3.1
\$20,000 to \$24,999	8.7	97.5	32.3	9,480	772	1,644	8.1	3.3
\$25,000 to \$34,999	14.1	109.1	36.2	10,611	871	1,879	8.2	2.3
\$35,000 to \$49,999	17.4	112.8	37.5	10,976	928	2,146	8.5	2.4
\$50,000 to \$74,999	12.6	123.5	41.0	12,016	1,002	2,368	8.3	2.5
\$75,000 or More	8.3	138.3	45.9	13,449	1,205	2,911	9.0	3.6
Below Poverty Line								
100 Percent	14.4	80.1	26.6	7,793	669	1,228	8.6	3.1
125 Percent	19.4	82.8	27.5	8,056	685	1,293	8.5	2.8
150 Percent	24.7	86.0	28.5	8,366	704	1,326	8.4	2.5
Eligible for Federal Assistance ³								
30.6	83.5	27.7	8,122	691	1,388	8.5	2.1	
Age of Householder								
Under 25 Years	5.7	82.3	27.3	8,010	660	1,129	8.2	4.6
25 to 34 Years	19.9	96.0	31.9	9,340	788	1,596	8.4	2.2
35 to 44 Years	21.4	115.2	38.2	11,201	944	2,002	8.4	1.9
45 to 59 Years	21.9	117.7	39.1	11,450	955	2,127	8.3	2.2
60 Years and Over	27.7	89.4	29.7	8,693	742	1,936	8.5	2.1
Education of Householder								
12 Years or Fewer	51.5	97.6	32.4	9,491	790	1,662	8.3	1.7
13 to 16 Years	33.6	108.9	36.2	10,596	895	2,057	8.4	1.8
17 Years or More	11.5	105.3	34.9	10,241	901	2,303	8.8	3.0
Race of Householder								
White	80.1	106.7	35.4	10,383	863	1,979	8.3	1.6
Black	10.9	86.1	28.6	8,374	750	1,395	9.0	3.2
Other ⁵	5.5	72.3	24.0	7,036	670	1,333	9.5	4.7

See footnotes at end of table.

Table 5.4. Electricity Consumption and Expenditures in U.S. Households, 1993 (Continued)

Characteristics	Households Using Electricity (million)	Average per Household					Expenditures (cents per kWh)	RSE Row Factors
		Consumption			Expenditures (dollars)	Floorspace (square feet)		
		Primary	Site					
		(million Btu)	(million Btu)	(kWh)				
RSE Column Factors:	1.4	1.1	1.1	1.1	1.0	0.8	0.6	
Householder of Hispanic Descent								
Yes	7.9	77.1	25.6	7,497	704	1,412	9.4	3.8
No	88.7	104.7	34.8	10,185	852	1,917	8.4	1.5
Household Size								
1 Person	23.5	66.6	22.1	6,476	559	1,367	8.6	2.6
2 Persons	31.7	102.6	34.1	9,982	825	1,954	8.3	1.9
3 Persons	16.6	111.4	37.0	10,838	923	1,950	8.5	2.2
4 Persons	14.6	126.6	42.0	12,311	1,036	2,220	8.4	2.1
5 Persons	6.8	134.8	44.7	13,110	1,094	2,213	8.3	3.0
6 or More Persons	3.5	136.3	45.2	13,258	1,154	2,152	8.7	6.1

¹ Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

² Does not include all new construction for 1993.

³ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Site electricity is the amount of electricity delivered to households. Primary electricity is site electricity plus the conversion losses in the electric generation process at the utility plant. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.5. Natural Gas Consumption and Expenditures in U.S. Households, 1993

Characteristics	Households Using Natural Gas (million)	Average per Household				Expenditures (dollars per thousand cf)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(thousand cf)				
RSE Column Factors:	1.8	1.0	1.0	1.0	0.9	0.5	
Total U.S. Households	58.7	89.9	87.5	546	1,908	6.2	1.7
Census Region and Division							
Northeast	12.2	90.9	88.4	703	1,906	8.0	3.8
New England	2.2	85.7	83.4	722	1,903	8.7	5.8
Middle Atlantic	10.0	92.0	89.5	699	1,906	7.8	4.4
Midwest	17.5	118.4	115.1	637	2,152	5.5	2.1
East North Central	13.3	119.3	116.1	646	2,114	5.6	2.2
West North Central	4.1	115.2	112.0	609	2,274	5.4	5.1
South	14.7	80.1	77.9	491	1,796	6.3	3.7
South Atlantic	5.4	78.0	75.8	557	1,836	7.3	4.5
East South Central	2.4	92.8	90.2	524	2,064	5.8	9.1
West South Central	6.9	77.4	75.3	428	1,671	5.7	5.8
West	14.2	64.3	62.5	357	1,726	5.7	2.9
Mountain	3.7	89.1	86.7	429	1,805	4.9	5.1
Pacific	10.5	55.7	54.2	332	1,699	6.1	3.1
Largest Populated States							
California	9.6	51.0	49.6	311	1,635	6.3	3.2
Florida .....	.5	38.0	37.0	322	1,692	8.7	12.4
New York	5.2	80.9	78.7	677	1,759	8.6	8.3
Texas	4.2	72.1	70.1	400	1,713	5.7	9.0
Urban Status							
Urban	50.8	88.0	85.6	543	1,877	6.3	1.8
Central City	22.8	84.6	82.3	537	1,599	6.5	2.9
Suburban	28.0	90.7	88.3	547	2,104	6.2	2.2
Rural	7.8	102.6	99.8	569	2,106	5.7	4.6
Climate Zone ¹							
Under 2,000 CDD and							
Over 7,000 HDD	4.5	115.0	111.9	620	2,292	5.5	5.1
5,500 to 7,000 HDD	18.8	114.1	111.0	667	2,070	6.0	2.7
4,000 to 5,499 HDD	13.0	89.9	87.5	613	1,967	7.0	4.9
Under 4,000 HDD	12.2	61.9	60.3	384	1,685	6.4	4.8
2,000 CDD or More and							
Under 4,000 HDD	10.3	67.8	65.9	400	1,634	6.1	4.7
Type of Housing Unit							
Single-Family	41.4	100.8	98.1	601	2,295	6.1	1.7
Detached	36.7	102.8	100.0	606	2,345	6.1	1.8
Attached	4.7	85.4	83.1	558	1,901	6.7	4.5
Mobile Home	1.8	73.3	71.3	411	996	5.8	5.7
Multifamily	15.4	62.7	60.9	416	978	6.8	3.4
2 to 4 Units	5.6	96.4	93.8	639	1,241	6.8	4.6
5 or More Units	9.8	43.5	42.3	289	829	6.8	3.7
Heated Floorspace (square feet)							
Fewer than 1,000	17.1	59.7	58.1	379	816	6.5	2.5
1,000 to 1,999	24.5	86.1	83.7	523	1,704	6.2	2.1
2,000 to 2,999	11.1	116.4	113.3	699	2,704	6.2	2.6
3,000 or More	5.9	143.2	139.3	836	4,404	6.0	3.3
Total Number of Rooms (Excluding Bathrooms)							
1 or 2	2.1	33.1	32.2	240	520	7.4	5.6
3 to 5	27.1	70.8	68.8	439	1,248	6.4	2.4
6 to 8	25.4	106.7	103.8	639	2,420	6.2	1.9
9 or More	4.0	143.2	139.3	848	3,861	6.1	4.3

See footnotes at end of table.

Table 5.5. Natural Gas Consumption and Expenditures in U.S. Households, 1993 (Continued)

Characteristics	Households Using Natural Gas (million)	Average per Household				Expenditures (dollars per thousand cf)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(thousand cf)				
RSE Column Factors:	1.8	1.0	1.0	1.0	0.9	0.5	
Ownership of Unit							
Owned	37.7	102.3	99.5	614	2,327	6.2	1.8
Rented	20.9	67.6	65.7	424	1,152	6.5	2.7
Public Housing	2.0	58.5	56.9	367	871	6.4	7.3
Not Public Housing	18.9	68.5	66.7	431	1,182	6.5	2.9
Rent Subsidy	1.4	63.5	61.8	422	1,094	6.8	8.7
No Rent Subsidy	17.5	68.9	67.1	431	1,190	6.4	3.0
Year of Construction							
1939 or Before	14.8	105.0	102.1	650	1,938	6.4	3.1
1940 to 1949	4.9	88.8	86.4	549	1,637	6.4	4.2
1950 to 1959	9.4	90.4	87.9	563	1,872	6.4	3.5
1960 to 1969	9.9	90.5	88.1	541	1,834	6.1	3.7
1970 to 1979	8.6	79.5	77.3	455	1,817	5.9	3.8
1980 to 1984	4.0	72.1	70.1	435	1,842	6.2	4.7
1985 to 1987	2.6	75.8	73.8	463	2,131	6.3	6.0
1988 to 1990	2.1	84.6	82.3	499	2,499	6.1	5.5
1991 to 1993 ²	2.4	82.5	80.2	502	2,396	6.3	7.9
All Gas Paid by Household							
Yes	48.2	95.6	93.0	578	2,124	6.2	1.8
No	10.5	63.8	62.0	400	912	6.4	4.3
1993 Family Income							
Less than \$5,000	2.4	73.8	71.8	469	1,176	6.5	5.4
\$5,000 to \$9,999	6.5	74.0	72.0	455	1,269	6.3	3.8
\$10,000 to \$14,999	7.1	81.5	79.3	495	1,459	6.2	4.0
\$15,000 to \$19,999	5.8	90.7	88.2	535	1,654	6.1	4.1
\$20,000 to \$24,999	5.1	85.8	83.4	519	1,646	6.2	3.8
\$25,000 to \$34,999	7.8	90.2	87.8	541	1,853	6.2	3.1
\$35,000 to \$49,999	10.4	92.3	89.8	562	2,162	6.3	2.6
\$50,000 to \$74,999	8.0	97.1	94.5	583	2,339	6.2	3.0
\$75,000 or More	5.7	113.6	110.5	708	3,004	6.4	4.5
Below Poverty Line							
100 Percent	8.9	77.3	75.2	481	1,283	6.4	3.8
125 Percent	11.8	78.8	76.6	488	1,328	6.4	3.6
150 Percent	14.9	79.7	77.5	491	1,352	6.3	3.1
Eligible for Federal Assistance ³							
	18.7	82.3	80.1	506	1,416	6.3	2.7
Age of Householder							
Under 25 Years	3.2	75.2	73.1	447	1,267	6.1	6.0
25 to 34 Years	12.6	83.6	81.3	507	1,651	6.2	2.7
35 to 44 Years	13.0	88.5	86.1	545	2,028	6.3	2.6
45 to 59 Years	13.0	96.2	93.6	580	2,171	6.2	2.5
60 Years and Over	16.9	93.6	91.1	569	1,926	6.3	2.6
Education of Householder							
12 Years or Fewer	30.7	87.7	85.3	531	1,663	6.2	2.2
13 to 16 Years	20.2	91.4	88.9	553	2,109	6.2	2.4
17 Years or More	7.8	94.8	92.2	589	2,357	6.4	3.3
Race of Householder							
White	47.0	91.0	88.5	547	2,017	6.2	2.0
Black	7.7	98.9	96.2	622	1,506	6.5	3.9
Other ⁴	4.0	59.8	58.1	391	1,394	6.7	5.1

See footnotes at end of table.

Table 5.5. Natural Gas Consumption and Expenditures in U.S. Households, 1993 (Continued)

Characteristics	Households Using Natural Gas (million)	Average per Household				Expenditures (dollars per thousand cf)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(thousand cf)				
RSE Column Factors:	1.8	1.0	1.0	1.0	0.9	0.5	
Householder of Hispanic Descent							
Yes	5.8	61.2	59.5	395	1,359	6.6	4.8
No	52.9	93.1	90.5	563	1,968	6.2	1.7
Household Size							
1 Person	14.2	71.8	69.9	437	1,370	6.2	2.8
2 Persons	18.4	88.9	86.5	535	1,984	6.2	2.3
3 Persons	10.3	95.1	92.5	592	1,982	6.4	2.9
4 Persons	9.4	104.7	101.8	632	2,273	6.2	2.9
5 Persons	4.1	98.9	96.2	595	2,304	6.2	3.3
6 or More Persons	2.3	109.5	106.5	667	2,086	6.3	7.8

¹ Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

² Does not include all new construction for 1993.

³ Below 150 percent of poverty line or 60 percent of median State income.

⁴ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and F of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.6. Fuel Oil Consumption and Expenditures in U.S. Households, 1993

Characteristics	Households Using Fuel Oil (million)	Average per Household				Expenditures (dollars per gallon)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(gallons)				
RSE Column Factors:	2.1	1.2	1.2	1.3	0.9	0.3	
Total U.S. Households	10.8	94.7	684	612	2,262	0.90	3.3
Census Region and Division							
Northeast	7.4	102.6	740	658	2,218	.89	4.2
New England	2.6	110.1	794	716	2,387	.90	5.7
Middle Atlantic	4.7	98.4	710	625	2,124	.88	5.4
Midwest	1.4	91.6	664	570	2,663	.86	4.7
East North Central .....	.7	94.3	682	592	2,675	.87	7.7
West North Central .....	.6	88.4	642	544	2,648	.85	6.0
South	1.6	67.3	486	464	2,075	.95	6.7
South Atlantic	1.5	67.5	487	465	2,103	.96	7.0
East South Central	Q	Q	Q	Q	Q	Q	NF
West South Central	NC	NC	NC	NC	NC	NC	NC
West .....	.5	71.7	518	520	2,418	1.00	21.7
Mountain	Q	Q	Q	Q	Q	Q	NF
Pacific	Q	69.9	504	511	2,446	1.01	26.9
Largest Populated States							
California	Q	Q	Q	Q	Q	Q	NF
Florida	Q	Q	Q	Q	Q	Q	NF
New York	2.6	95.7	690	601	1,840	.87	7.6
Texas	NC	NC	NC	NC	NC	NC	NF
Urban Status							
Urban	8.2	94.8	683	614	2,194	.90	4.2
Central City	2.7	74.1	534	440	1,548	.82	4.3
Suburban	5.5	105.0	757	701	2,515	.92	5.1
Rural	2.6	94.7	685	607	2,477	.89	3.2
Climate Zone ¹							
Under 2,000 CDD and							
Over 7,000 HDD	2.0	100.4	726	633	2,582	.87	4.7
5,500 to 7,000 HDD	3.4	108.7	785	709	2,530	.90	6.4
4,000 to 5,499 HDD	4.8	87.9	634	569	1,977	.90	5.7
Under 4,000 HDD .....	.4	66.0	476	431	1,805	.91	12.5
2,000 CDD or More and							
Under 4,000 HDD	Q	Q	Q	Q	Q	Q	NF
Type of Housing Unit							
Single-Family	8.0	104.3	753	692	2,666	.92	3.3
Detached	7.4	105.7	763	701	2,706	.92	3.4
Attached .....	.6	86.9	627	571	2,160	.91	10.0
Mobile Home .....	.3	57.0	414	390	789	.94	8.6
Multifamily	2.5	68.6	495	384	1,144	.78	6.5
2 to 4 Units .....	.9	101.6	733	666	1,675	.91	6.1
5 or More Units	1.6	50.7	365	230	854	.63	4.5
Heated Floorspace (square feet)							
Fewer than 1,000	2.4	57.3	414	329	821	.79	4.8
1,000 to 1,999	3.9	89.8	648	588	1,942	.91	3.6
2,000 to 2,999	2.9	112.5	812	742	2,778	.91	3.2
3,000 or More	1.6	129.8	936	857	4,227	.92	5.4
Total Number of Rooms (Excluding Bathrooms)							
1 or 2 .....	.4	46.6	336	272	601	.81	14.8
3 to 5	4.3	76.2	550	467	1,521	.85	4.2
6 to 8	5.1	104.3	752	692	2,721	.92	2.7
9 or More .....	.9	149.1	1076	994	3,887	.92	6.9

See footnotes at end of table.

Table 5.6. Fuel Oil Consumption and Expenditures in U.S. Households, 1993 (Continued)

Characteristics	Households Using Fuel Oil (million)	Average per Household				Expenditures (dollars per gallon)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(gallons)				
RSE Column Factors:	2.1	1.2	1.2	1.3	0.9	0.3	
Ownership of Unit							
Owned	7.7	105.7	763	701	2,615	0.92	3.2
Rented	3.1	67.4	487	393	1,382	.81	4.7
Public Housing .....	.2	47.6	343	206	1,077	.60	31.5
Not Public Housing	2.9	68.7	496	404	1,401	.82	4.8
Rent Subsidy .....	.2	69.9	505	393	1,085	.78	12.4
No Rent Subsidy	2.7	68.6	495	405	1,430	.82	5.5
Year of Construction							
1939 or Before	4.3	101.5	733	646	2,219	.88	3.8
1940 to 1949	1.2	84.9	613	538	1,853	.88	7.2
1950 to 1959	1.9	102.3	738	691	2,362	.94	7.9
1960 to 1969	1.3	82.2	593	534	2,264	.90	8.6
1970 to 1979	1.4	88.1	636	565	2,354	.89	7.7
1980 to 1984 .....	.3	70.5	508	461	2,372	.91	8.8
1985 to 1987 .....	.2	103.0	742	668	3,124	.90	13.4
1988 to 1990 .....	.2	88.0	635	573	2,423	.90	10.7
1991 to 1993 ² .....	.1	105.4	760	697	3,443	.92	9.7
All Fuel Oil Paid by Household							
Yes	8.6	102.8	742	682	2,577	.92	3.2
No	2.1	62.2	449	331	994	.74	6.0
1993 Family Income							
Less than \$5,000 .....	.4	68.6	495	421	1,439	.85	13.7
\$5,000 to \$9,999 .....	.9	82.1	593	514	1,601	.87	6.5
\$10,000 to \$14,999	1.0	92.8	671	581	1,814	.87	7.9
\$15,000 to \$19,999 .....	.9	94.7	684	600	1,866	.88	7.0
\$20,000 to \$24,999 .....	.9	87.3	630	541	2,021	.86	7.5
\$25,000 to \$34,999	1.7	94.8	684	616	2,376	.90	6.8
\$35,000 to \$49,999	2.4	88.8	640	575	2,388	.90	4.9
\$50,000 to \$74,999	1.6	105.0	757	696	2,665	.92	4.2
\$75,000 or More .....	.9	125.9	907	856	3,166	.94	7.7
Below Poverty Line							
100 Percent	1.3	74.7	539	453	1,595	.84	6.7
125 Percent	1.8	76.5	553	463	1,582	.84	6.3
150 Percent	2.3	79.1	572	487	1,625	.85	5.5
Eligible for Federal Assistance ³							
.....	3.0	84.8	612	527	1,704	.86	5.2
Age of Householder							
Under 25 Years .....	.4	58.9	426	367	1,368	.86	13.2
25 to 34 Years	1.6	89.8	648	555	1,878	.86	5.5
35 to 44 Years	2.4	86.1	621	561	2,336	.90	4.7
45 to 59 Years	2.7	97.4	703	635	2,373	.90	4.4
60 Years and Over	3.7	104.5	754	680	2,391	.90	4.8
Education of Householder							
12 Years or Fewer	6.0	87.6	632	554	2,026	.88	3.3
13 to 16 Years	3.6	99.8	720	656	2,488	.91	4.4
17 Years or More	1.2	115.5	833	774	2,768	.93	7.4
Race of Householder							
White	9.6	96.7	698	628	2,367	.90	3.4
Black .....	.8	83.6	602	528	1,551	.88	8.2
Other ⁴ .....	.4	70.8	511	399	1,180	.78	9.6

See footnotes at end of table.

Table 5.6. Fuel Oil Consumption and Expenditures in U.S. Households, 1993 (Continued)

Characteristics	Households Using Fuel Oil (million)	Average per Household				Expenditures (dollars per gallon)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(gallons)				
RSE Column Factors:	2.1	1.2	1.2	1.3	0.9	0.3	

Householder of Hispanic Descent

Yes	0.9	79.7	575	456	1,600	0.79	6.8
No	9.9	96.2	694	627	2,324	.90	3.3

Household Size

1 Person	2.4	84.0	607	547	1,717	.90	5.9
2 Persons	3.5	94.8	684	608	2,326	.89	4.6
3 Persons	2.0	100.2	723	654	2,490	.91	4.5
4 Persons	1.7	98.7	712	644	2,438	.90	4.6
5 Persons .....	.8	98.8	712	625	2,412	.88	8.4
6 or More Persons .....	.4	104.5	754	663	2,682	.88	8.9

¹ Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

² Does not include all new construction for 1993.

³ Below 150 percent of poverty line or 60 percent of median State income.

⁴ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

NC = No cases in sample.

NF = No applicable RSE row factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and G of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.7. Kerosene Consumption and Expenditures in U.S. Households, 1993

Characteristics	Households Using Kerosene (million)	Average per Household				Expenditures (dollars per gallon)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(gallons)				
RSE Column Factors:	1.5	1.7	1.7	1.7	0.7	0.2	
Total U.S. Households	3.6	12.8	95	103	1,854	1.09	7.5
Census Region and Division							
Northeast .....	.8	25.3	187	193	1,771	1.03	10.2
New England .....	.3	34.3	254	262	1,650	1.03	14.2
Middle Atlantic .....	.5	21.0	155	160	1,828	1.03	13.4
Midwest	1.0	6.0	45	54	2,640	1.20	19.3
East North Central .....	.9	6.1	45	54	2,608	1.19	21.7
West North Central .....	.1	5.3	39	48	2,899	1.21	32.4
South	1.8	11.5	85	95	1,512	1.12	9.5
South Atlantic	1.4	12.2	91	101	1,448	1.12	10.5
East South Central .....	.3	Q	Q	Q	1,655	1.08	17.4
West South Central	Q	Q	Q	Q	Q	Q	NF
West	Q	Q	Q	Q	Q	Q	NF
Mountain	Q	Q	Q	Q	Q	Q	NF
Pacific	Q	Q	Q	Q	Q	Q	NF
Largest Populated States							
California	Q	Q	Q	Q	Q	Q	NF
Florida	Q	13.2	98	125	1,090	1.28	30.6
New York .....	.3	25.2	187	197	1,638	1.05	19.1
Texas	Q	Q	Q	Q	Q	Q	NF
Urban Status							
Urban	1.8	11.9	88	98	1,994	1.11	10.7
Central City .....	.5	13.6	101	107	1,476	1.06	14.4
Suburban	1.3	11.3	83	94	2,208	1.13	14.5
Rural	1.8	13.7	101	109	1,710	1.07	10.2
Climate Zone ¹							
Under 2,000 CDD and							
Over 7,000 HDD .....	.4	30.0	222	230	1,843	1.04	13.2
5,500 to 7,000 HDD .....	.9	11.9	88	97	2,616	1.10	17.3
4,000 to 5,499 HDD	1.1	8.6	64	68	1,862	1.07	14.2
Under 4,000 HDD .....	.8	13.7	101	110	1,317	1.09	12.0
2,000 CDD or More and							
Under 4,000 HDD .....	.5	9.9	73	89	1,292	1.21	16.2
Type of Housing Unit							
Single-Family	2.6	9.9	73	81	2,188	1.11	8.8
Detached	2.5	10.2	75	84	2,228	1.11	9.1
Attached .....	.2	Q	Q	Q	1,556	1.09	25.7
Mobile Home .....	.7	26.2	194	207	894	1.07	11.1
Multifamily .....	.3	7.4	55	58	1,109	1.06	15.2
2 to 4 Units .....	.2	5.6	42	44	1,289	1.06	20.7
5 or More Units	Q	Q	Q	Q	Q	Q	NF
Heated Floorspace (square feet)							
Fewer than 1,000	1.2	19.7	146	157	851	1.08	9.2
1,000 to 1,999	1.4	11.2	83	91	1,783	1.09	9.9
2,000 to 2,999 .....	.6	4.6	34	40	2,649	1.16	16.1
3,000 or More .....	.3	Q	Q	Q	4,377	1.10	12.9
Total Number of Rooms (Excluding Bathrooms)							
1 or 2	Q	Q	Q	Q	Q	Q	NF
3 to 5	1.9	17.5	130	139	1,236	1.07	8.6
6 to 8	1.4	8.3	62	69	2,403	1.13	11.2
9 or More .....	.2	2.7	20	25	3,679	1.26	24.3

See footnotes at end of table.

Table 5.7. Kerosene Consumption and Expenditures in U.S. Households, 1993 (Continued)

Characteristics	Households Using Kerosene (million)	Average per Household				Expenditures (dollars per gallon)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(gallons)				
RSE Column Factors:	1.5	1.7	1.7	1.7	0.7	0.2	
Ownership of Unit							
Owned	2.5	12.4	92	101	2,137	1.10	8.8
Rented	1.1	13.8	102	109	1,186	1.07	11.4
Public Housing	Q	Q	Q	Q	Q	Q	NF
Not Public Housing	1.1	13.2	98	104	1,191	1.07	11.5
Rent Subsidy	Q	Q	Q	Q	Q	Q	NF
No Rent Subsidy	1.0	13.4	99	106	1,196	1.07	11.4
Year of Construction							
1939 or Before	1.1	11.7	86	95	1,994	1.10	11.7
1940 to 1949 .....	.3	13.9	103	107	1,941	1.04	17.7
1950 to 1959 .....	.4	9.6	71	89	1,469	1.25	23.4
1960 to 1969 .....	.7	7.6	56	66	1,998	1.18	16.9
1970 to 1979 .....	.6	19.7	146	150	1,760	1.03	14.5
1980 to 1984 .....	.2	15.2	113	125	1,631	1.11	16.8
1985 to 1987 .....	.2	10.2	76	81	1,725	1.07	17.3
1988 to 1990 .....	.2	21.0	156	160	1,888	1.02	25.5
1991 to 1993 ²	Q	Q	Q	Q	Q	Q	NF
1993 Family Income							
Less than \$5,000 .....	.2	17.7	131	135	1,055	1.03	20.6
\$5,000 to \$9,999 .....	.5	14.6	108	115	1,251	1.07	13.9
\$10,000 to \$14,999 .....	.4	17.9	133	140	1,288	1.06	17.9
\$15,000 to \$19,999 .....	.6	19.2	142	155	1,801	1.09	14.1
\$20,000 to \$24,999 .....	.3	15.5	115	136	1,288	1.18	22.2
\$25,000 to \$34,999 .....	.5	12.4	92	97	1,531	1.05	20.1
\$35,000 to \$49,999 .....	.5	6.3	46	51	2,297	1.10	12.9
\$50,000 to \$74,999 .....	.4	5.1	37	46	2,960	1.22	17.7
\$75,000 or More .....	.3	Q	Q	Q	3,004	1.19	21.3
Below Poverty Line							
100 Percent .....	.8	15.6	116	123	1,176	1.06	11.3
125 Percent	1.0	15.6	115	125	1,322	1.08	11.0
150 Percent	1.2	15.1	112	120	1,374	1.07	10.4
Eligible for Federal Assistance ³							
.....	1.4	16.8	125	134	1,450	1.07	9.6
Age of Householder							
Under 25 Years .....	.2	11.3	84	87	825	1.03	20.9
25 to 34 Years .....	.6	13.8	103	121	1,602	1.18	15.2
35 to 44 Years	1.0	13.2	98	104	1,805	1.07	10.5
45 to 59 Years	1.0	9.7	72	78	2,093	1.08	14.1
60 Years and Over .....	.7	16.2	120	128	2,134	1.07	14.1
Education of Householder							
12 Years or Fewer	2.5	14.1	105	115	1,642	1.10	8.3
13 to 16 Years .....	.9	10.4	77	82	1,985	1.06	12.3
17 Years or More .....	.3	Q	Q	Q	3,157	1.10	23.7
Race of Householder							
White	3.0	12.1	90	97	1,991	1.07	7.7
Black .....	.5	16.4	121	140	1,164	1.16	17.7
Other ⁴	Q	Q	Q	Q	Q	Q	NF
Householder of Hispanic Descent							
Yes .....	.2	Q	Q	Q	1,879	1.06	33.8
No	3.5	12.9	95	104	1,852	1.09	7.7

See footnotes at end of table.

Table 5.7. Kerosene Consumption and Expenditures in U.S. Households, 1993 (Continued)

Characteristics	Households Using Kerosene (million)	Average per Household				Expenditures (dollars per gallon)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(gallons)				
RSE Column Factors:	1.5	1.7	1.7	1.7	0.7	0.2	
Household Size							
1 Person	0.6	17.5	130	134	1,317	1.03	12.5
2 Persons	1.1	13.0	96	108	1,819	1.12	12.1
3 Persons .....	.9	10.9	81	90	2,112	1.11	15.8
4 Persons .....	.6	9.4	70	74	2,186	1.06	14.0
5 Persons .....	.4	15.9	118	132	1,739	1.12	16.5
6 or More Persons	Q	Q	Q	Q	Q	Q	NF

¹ Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

² Does not include all new construction for 1993.

³ Below 150 percent of poverty line or 60 percent of median State income.

⁴ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

NF = No applicable RSE row factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and G of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.8. Liquefied Petroleum Gas Consumption and Expenditures in U.S. Households, 1993

Characteristics	Households Using LPG (million)	Average per Household				Expenditures (dollars per gallon)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(gallons)				
RSE Column Factors:	1.9	1.3	1.3	1.0	0.7	0.5	
Total U.S. Households	8.1	46.8	513	470	1,841	0.92	4.5
Census Region and Division							
Northeast	1.2	20.6	226	286	1,971	1.27	13.7
New England .....	.6	23.8	260	310	1,905	1.19	18.7
Middle Atlantic .....	.7	17.9	196	266	2,026	1.36	15.8
Midwest	2.2	86.0	942	736	2,424	.78	5.0
East North Central	1.1	96.2	1053	834	2,648	.79	8.0
West North Central	1.1	76.0	832	639	2,204	.77	6.6
South	4.0	32.9	360	366	1,532	1.02	5.8
South Atlantic	2.3	28.6	313	355	1,587	1.14	10.1
East South Central .....	.9	40.7	446	411	1,413	.92	7.3
West South Central .....	.7	37.0	405	343	1,508	.85	17.3
West .....	.8	50.2	549	551	1,581	1.00	9.7
Mountain .....	.4	66.4	728	626	1,564	.86	8.6
Pacific .....	.3	29.8	326	458	1,602	1.40	10.9
Largest Populated States							
California .....	.3	26.0	285	401	1,491	1.41	7.8
Florida .....	.8	15.8	173	252	1,589	1.46	11.7
New York .....	.4	21.6	236	298	2,304	1.26	16.5
Texas	Q	32.7	358	294	1,528	.82	27.8
Urban Status							
Urban	3.2	37.5	410	409	1,920	1.00	6.6
Central City .....	.6	26.1	286	320	1,669	1.12	17.4
Suburban	2.6	40.0	438	429	1,976	.98	7.0
Rural	4.9	53.0	580	510	1,789	.88	5.6
Climate Zone ¹							
Under 2,000 CDD and							
Over 7,000 HDD	1.3	53.0	580	504	2,130	.87	10.0
5,500 to 7,000 HDD	1.6	69.5	761	632	2,255	.83	13.7
4,000 to 5,499 HDD	1.3	54.7	599	542	2,069	.91	20.6
Under 4,000 HDD	1.6	38.6	422	429	1,397	1.02	8.5
2,000 CDD or More and							
Under 4,000 HDD	2.3	28.8	316	326	1,564	1.03	9.8
Type of Housing Unit							
Single-Family	6.0	50.5	553	498	2,149	.90	5.2
Detached	5.9	50.6	554	499	2,153	.90	5.2
Attached	Q	Q	Q	Q	Q	Q	NF
Mobile Home	1.9	38.6	423	406	904	.96	7.0
Multifamily .....	.3	20.6	226	278	1,460	1.23	21.0
2 to 4 Units .....	.2	17.0	186	233	1,672	1.25	28.4
5 or More Units	Q	Q	Q	Q	Q	Q	NF
Heated Floorspace (square feet)							
Fewer than 1,000	2.6	34.9	382	380	856	.99	6.7
1,000 to 1,999	3.2	44.6	489	453	1,630	.93	5.6
2,000 to 2,999	1.5	53.5	586	532	2,716	.91	6.5
3,000 or More .....	.8	80.4	880	705	4,144	.80	8.3
Total Number of Rooms (Excluding Bathrooms)							
1 or 2	Q	Q	Q	Q	Q	Q	NF
3 to 5	4.3	37.9	415	394	1,261	.95	6.3
6 to 8	3.4	56.1	615	548	2,403	.89	5.4
9 or More .....	.4	65.0	712	627	3,261	.88	12.3

See footnotes at end of table.

Table 5.8. Liquefied Petroleum Gas Consumption and Expenditures in U.S. Households, 1993 (Continued)

Characteristics	Households Using LPG (million)	Average per Household				Expenditures (dollars per gallon)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(gallons)				
RSE Column Factors:	1.9	1.3	1.3	1.0	0.7	0.5	
Ownership of Unit							
Owned	6.5	49.1	538	487	1,962	0.91	4.6
Rented	1.6	37.6	412	402	1,353	.98	7.8
Public Housing	Q	Q	Q	Q	Q	Q	NF
Not Public Housing	1.6	37.3	408	399	1,359	.98	7.9
Rent Subsidy	Q	Q	Q	Q	Q	Q	NF
No Rent Subsidy	1.6	36.1	396	390	1,332	.99	8.4
Year of Construction							
1939 or Before	2.2	58.8	644	546	2,260	.85	5.8
1940 to 1949 .....	.6	51.9	569	518	1,573	.91	16.2
1950 to 1959 .....	.8	34.5	377	363	1,532	.96	10.3
1960 to 1969	1.1	46.5	509	486	1,721	.95	9.6
1970 to 1979	1.6	40.4	443	413	1,550	.93	6.2
1980 to 1984 .....	.5	31.9	350	337	1,580	.96	11.8
1985 to 1987 .....	.4	47.5	521	509	1,929	.98	13.2
1988 to 1990 .....	.5	39.0	427	446	1,777	1.04	13.8
1991 to 1993 ² .....	.4	55.2	604	553	2,371	.92	13.6
All LPG Paid by Household							
Yes	7.9	46.7	512	469	1,853	.92	4.6
No .....	.2	49.9	546	505	1,421	.92	15.9
1993 Family Income							
Less than \$5,000 .....	.4	34.5	378	368	1,104	.97	15.9
\$5,000 to \$9,999	1.0	42.3	464	443	1,186	.96	10.1
\$10,000 to \$14,999	1.0	35.5	389	377	1,430	.97	7.2
\$15,000 to \$19,999 .....	.9	44.8	490	456	1,599	.93	10.4
\$20,000 to \$24,999 .....	.9	46.4	508	465	1,617	.92	8.1
\$25,000 to \$34,999	1.6	48.4	530	477	1,910	.90	6.2
\$35,000 to \$49,999	1.2	56.6	620	546	2,394	.88	7.6
\$50,000 to \$74,999 .....	.7	60.7	664	588	2,845	.88	10.4
\$75,000 or More .....	.4	46.4	509	466	2,683	.92	12.9
Below Poverty Line							
100 Percent	1.6	38.6	423	410	1,177	.97	8.6
125 Percent	2.3	38.4	421	397	1,208	.94	7.2
150 Percent	2.7	38.4	420	401	1,259	.95	6.7
Eligible for Federal Assistance ³							
3.0	3.0	38.3	419	404	1,386	.96	6.1
Age of Householder							
Under 25 Years .....	.3	32.6	357	336	893	.94	12.2
25 to 34 Years	1.4	42.6	466	437	1,669	.94	6.4
35 to 44 Years	1.8	41.2	451	433	1,980	.96	7.4
45 to 59 Years	2.1	52.0	569	511	1,914	.90	8.0
60 Years and Over	2.5	50.9	557	499	1,901	.90	7.7
Education of Householder							
12 Years or Fewer	5.7	45.9	502	459	1,636	.91	5.2
13 to 16 Years	2.1	48.4	530	488	2,303	.92	5.2
17 Years or More .....	.3	54.6	598	559	2,523	.93	12.0
Race of Householder							
White	7.4	48.8	535	486	1,893	.91	4.3
Black .....	.6	24.0	263	287	1,174	1.09	10.5
Other ⁴ .....	.1	31.0	340	371	1,779	1.09	26.7

See footnotes at end of table.

Table 5.8. Liquefied Petroleum Gas Consumption and Expenditures in U.S. Households, 1993 (Continued)

Characteristics	Households Using LPG (million)	Average per Household				Expenditures (dollars per gallon)	RSE Row Factors
		Consumption		Expenditures (dollars)	Floorspace (square feet)		
		(million Btu)	(gallons)				
RSE Column Factors:	1.9	1.3	1.3	1.0	0.7	0.5	

Householder of Hispanic Descent

Yes	0.5	25.5	279	307	1,484	1.10	17.8
No	7.7	48.1	527	480	1,862	.91	4.5

Household Size

1 Person	1.5	40.7	445	408	1,315	.92	9.3
2 Persons	2.9	49.6	543	497	1,907	.92	6.9
3 Persons	1.4	45.9	503	468	1,981	.93	8.9
4 Persons	1.2	45.9	503	469	1,983	.93	7.8
5 Persons .....	.8	51.1	560	493	1,964	.88	9.8
6 or More Persons .....	.3	47.0	515	462	2,230	.90	14.3

¹ Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

² Does not include all new construction for 1993.

³ Below 150 percent of poverty line or 60 percent of median State income.

⁴ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

NF = No applicable RSE row factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and D of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.9. Wood Consumption in U.S. Households, December 1992 Through November 1993

Characteristics	Households Using Wood					Wood Used as Main Space-Heating Fuel					RSE Row Fac- tors
	Consumption					Consumption					
	Total		Average per Household			Total		Average per Household			
	House- holds (mil- lions)	(quad- rillion Btu)	(million cords)	(million Btu)	(cords)	House- holds (mil- lions)	(quad- rillion Btu)	(million cords)	(million Btu)	(cords)	
RSE Column Factors:	0.6	1.0	1.0	0.8	0.8	1.1	1.5	1.5	1.0	1.0	
Total U.S. Households	20.4	0.55	27.4	26.8	1.3	3.1	0.25	12.6	81.3	4.1	8.3
Census Region and Division											
Northeast	3.4	.14	7.1	41.1	2.1	.5	.06	3.0	132.3	6.6	20.5
New England	1.1	.05	2.3	44.1	2.2	.2	.02	1.0	105.4	5.3	17.0
Middle Atlantic	2.4	.10	4.8	39.8	2.0	.3	.04	2.0	152.6	7.6	29.2
Midwest	4.1	.11	5.5	27.2	1.4	.4	.05	2.5	129.0	6.4	21.4
East North Central	2.6	.07	3.4	26.2	1.3	.2	.03	1.5	136.9	6.8	27.5
West North Central	1.5	.04	2.1	28.9	1.4	Q	Q	Q	118.7	5.9	29.5
South	7.2	.17	8.7	24.3	1.2	1.1	.07	3.7	64.4	3.2	12.7
South Atlantic	3.9	.09	4.7	24.0	1.2	.7	.04	2.2	66.0	3.3	19.3
East South Central	1.3	.05	2.4	37.5	1.9	.3	.02	1.2	76.2	3.8	17.1
West South Central	2.0	.03	1.7	16.7	.8	.2	.01	.4	38.4	1.9	23.0
West	5.7	.12	6.0	21.2	1.1	1.1	.07	3.4	61.0	3.1	10.2
Mountain	1.3	.03	1.5	23.6	1.2	.2	.01	.7	71.8	3.6	24.3
Pacific	4.4	.09	4.5	20.4	1.0	.9	.05	2.7	58.7	2.9	11.6
Largest Populated States											
California	3.0	.06	3.0	20.0	1.0	.6	.03	1.6	53.5	2.7	14.7
Florida	1.0	Q	Q	10.8	.5	Q	Q	Q	Q	Q	51.8
New York	1.0	.06	2.8	56.7	2.8	.2	Q	Q	179.1	9.0	41.3
Texas	1.3	.01	.7	10.8	.5	Q	Q	Q	Q	Q	25.8
Urban Status											
Urban	15.6	.30	14.8	19.1	1.0	1.2	.10	4.8	79.5	4.0	12.0
Central City	4.0	.05	2.4	12.2	.6	.3	.02	.9	65.0	3.2	19.2
Suburban	11.6	.25	12.4	21.4	1.1	.9	.08	3.9	83.7	4.2	13.0
Rural	4.9	.25	12.6	51.7	2.6	1.9	.16	7.8	82.5	4.1	11.8
Climate Zone ¹											
Under 2,000 CDD and											
Over 7,000 HDD	2.3	.14	7.0	59.9	3.0	.7	.08	4.1	122.0	6.1	19.5
5,500 to 7,000 HDD	4.5	.11	5.6	24.9	1.2	.3	.04	1.8	111.1	5.6	19.8
4,000 to 5,499 HDD	5.4	.14	6.8	25.5	1.3	.8	.07	3.5	83.7	4.2	18.1
Under 4,000 HDD	4.0	.09	4.6	22.8	1.1	.8	.05	2.5	62.3	3.1	12.7
2,000 CDD or More and											
Under 4,000 HDD	4.2	.07	3.4	16.0	.8	.5	.02	.8	31.4	1.6	19.1
Type of Housing Unit											
Single-Family	18.8	.51	25.6	27.2	1.4	2.8	.23	11.5	82.1	4.1	8.2
Detached	17.9	.50	25.2	28.1	1.4	2.7	.23	11.4	83.1	4.2	8.3
Attached .....	.9	.01	.4	9.4	.5	Q	Q	Q	Q	Q	27.3
Mobile Home .....	.6	.03	1.3	40.5	2.0	.2	.02	.9	75.3	3.8	31.4
Multifamily .....	.9	.01	.5	10.1	.5	Q	Q	Q	Q	Q	37.3
2 to 4 Units .....	.5	.01	.4	16.2	.8	Q	Q	Q	Q	Q	48.3
5 or More Units .....	.5	(*)	.1	4.0	.2	NC	NC	NC	NC	NC	44.2
Heated Floorspace (square feet)											
Fewer than 1,000	1.4	.05	2.6	38.7	1.9	.6	.04	2.1	76.1	3.8	18.8
1,000 to 1,999	8.5	.22	10.8	25.4	1.3	1.5	.11	5.4	71.9	3.6	10.7
2,000 to 2,999	6.4	.17	8.6	26.8	1.3	.7	.06	3.2	95.3	4.8	13.5
3,000 or More	4.1	.11	5.3	25.9	1.3	.4	.04	1.9	102.0	5.1	16.1

See footnotes at end of table.

Table 5.9. Wood Consumption in U.S. Households, December 1992 Through November 1993 (Continued)

Characteristics	Households Using Wood					Wood Used as Main Space-Heating Fuel					RSE Row Factors
	Households (mil-lions)	Consumption				Households (mil-lions)	Consumption				
		Total		Average per Household			Total		Average per Household		
		(quad-rillion Btu)	(million cords)	(million Btu)	(cords)		(quad-rillion Btu)	(million cords)	(million Btu)	(cords)	
RSE Column Factors:	0.6	1.0	1.0	0.8	0.8	1.1	1.5	1.5	1.0	1.0	

Total Number of Rooms (Excluding Bathrooms)

1 or 2	Q	Q	Q	Q	Q	NC	NC	NC	NC	NC	NF
3 to 5	5.2	0.17	8.7	33.8	1.7	1.3	0.11	5.6	87.6	4.4	12.2
6 to 8	12.8	.31	15.7	24.5	1.2	1.6	.12	5.8	72.1	3.6	11.3
9 or More	2.5	.06	3.0	24.4	1.2	.2	.03	1.3	110.5	5.5	24.5

Ownership of Unit

Owned	17.9	.49	24.4	27.3	1.4	2.7	.22	10.8	81.2	4.1	8.5
Rented	2.5	.06	3.0	23.7	1.2	.4	.04	1.8	81.9	4.1	18.1
Public Housing	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Not Public Housing	2.5	.06	2.9	23.9	1.2	.4	.04	1.8	85.7	4.3	18.0
Rent Subsidy	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Rent Subsidy	2.4	.05	2.7	22.7	1.1	.4	.03	1.6	78.1	3.9	16.0

Year of Construction

1939 or Before	2.7	.13	6.7	50.2	2.5	.7	.08	3.8	113.5	5.7	16.9
1940 to 1949	1.2	.03	1.5	26.0	1.3	.2	.01	.7	65.6	3.3	17.4
1950 to 1959	2.7	.07	3.4	24.8	1.2	.4	.03	1.4	65.9	3.3	17.5
1960 to 1969	3.1	.07	3.4	22.2	1.1	.4	.03	1.4	67.9	3.4	16.3
1970 to 1979	4.5	.12	6.1	27.1	1.4	.8	.06	2.8	72.7	3.6	12.8
1980 to 1984	2.1	.07	3.4	31.9	1.6	.3	.04	1.9	112.7	5.6	16.7
1985 to 1987	1.5	.02	1.0	13.6	.7	.1	.01	.3	57.9	2.9	22.7
1988 to 1990	1.5	.02	1.1	14.1	.7	.2	.01	.3	39.1	2.0	24.9
1991 to 1993 ²	1.2	.02	.8	13.8	.7	Q	Q	Q	Q	Q	24.6

1993 Family Income

Less than \$5,000 .....	.3	.01	.7	50.4	2.5	Q	Q	Q	Q	Q	49.1
\$5,000 to \$9,999 .....	.8	.04	1.8	46.2	2.3	.3	.03	1.3	91.5	4.6	25.9
\$10,000 to \$14,999	1.1	.06	2.9	51.8	2.6	.4	.04	2.1	96.0	4.8	17.0
\$15,000 to \$19,999	1.4	.05	2.3	33.0	1.6	.2	.03	1.3	112.4	5.6	26.6
\$20,000 to \$24,999	1.3	.06	2.8	43.1	2.2	.3	.03	1.4	105.2	5.3	19.6
\$25,000 to \$34,999	2.7	.07	3.4	25.9	1.3	.4	.03	1.3	67.8	3.4	15.9
\$35,000 to \$49,999	4.6	.12	5.9	25.9	1.3	.7	.06	2.8	77.3	3.9	15.0
\$50,000 to \$74,999	4.7	.09	4.3	18.2	.9	.4	.03	1.5	70.9	3.5	14.8
\$75,000 or More	3.7	.07	3.3	17.9	.9	.2	.01	.7	62.4	3.1	17.2

Below Poverty Line

100 Percent	1.2	.06	3.2	51.7	2.6	.5	.04	2.0	80.6	4.0	22.1
125 Percent	1.9	.11	5.3	56.6	2.8	.8	.07	3.6	92.6	4.6	18.4
150 Percent	2.6	.13	6.3	48.5	2.4	.9	.08	4.2	91.4	4.6	16.9

Eligible for Federal Assistance ³

Assistance ³	3.3	.15	7.7	47.4	2.4	1.1	.10	5.2	90.5	4.5	14.1
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Age of Householder

Under 25 Years5	.01	.4	16.0	.8	Q	Q	Q	Q	Q	38.9
25 to 34 Years	3.6	.06	3.1	17.5	.9	.4	.03	1.5	66.4	3.3	15.4
35 to 44 Years	5.9	.16	8.0	27.1	1.4	.9	.08	3.9	87.4	4.4	10.7
45 to 59 Years	6.0	.17	8.6	28.4	1.4	1.0	.08	4.0	83.9	4.2	13.9
60 Years and Over	4.5	.15	7.3	32.9	1.6	.7	.06	3.0	81.4	4.1	13.9

See footnotes at end of table.

Table 5.9. Wood Consumption in U.S. Households, December 1992 Through November 1993 (Continued)

Characteristics	Households Using Wood					Wood Used as Main Space-Heating Fuel					RSE Row Factors
	Households (mil- lions)	Consumption				Households (mil- lions)	Consumption				
		Total		Average per Household			Total		Average per Household		
		(quad- rillion Btu)	(million cords)	(million Btu)	(cords)		(quad- rillion Btu)	(million cords)	(million Btu)	(cords)	
RSE Column Factors:	0.6	1.0	1.0	0.8	0.8	1.1	1.5	1.5	1.0	1.0	
Education of Householder											
12 Years or Fewer	8.0	0.30	15.2	38.1	1.9	1.9	0.16	8.1	83.7	4.2	11.7
13 Years or More	12.4	.24	12.1	19.6	1.0	1.2	.09	4.5	77.4	3.9	9.0
Race of Householder											
White	18.9	.53	26.3	27.8	1.4	2.9	.24	12.0	83.8	4.2	8.8
Black .....	.9	.01	.6	13.6	.7	.2	.01	.3	39.7	2.0	24.4
Other ⁴ .....	.6	.01	.5	17.9	.9	Q	Q	Q	Q	Q	41.9
Householder of Hispanic Descent											
Yes .....	.9	.02	.8	17.5	.9	.2	.01	.4	Q	Q	31.1
No	19.5	.53	26.6	27.3	1.4	2.9	.24	12.2	83.0	4.2	8.3
Household Size											
1 Person	2.1	.05	2.7	25.5	1.3	.4	.03	1.3	70.6	3.5	20.5
2 Persons	7.4	.19	9.4	25.7	1.3	1.0	.08	3.8	74.8	3.7	10.6
3 Persons	3.7	.10	5.2	28.3	1.4	.6	.05	2.5	89.2	4.5	17.8
4 Persons	4.6	.11	5.3	23.1	1.2	.6	.05	2.5	83.1	4.2	15.5
5 Persons	1.9	.07	3.4	35.1	1.8	.3	.04	1.9	107.6	5.4	22.1
6 or More Persons .....	.8	.03	1.4	35.7	1.8	.2	.01	.6	62.1	3.1	24.4
Main Heating Fuel											
Natural Gas	8.8	.11	5.5	12.4	.6	--	--	--	--	--	11.4
Electricity	5.4	.09	4.3	15.7	.8	--	--	--	--	--	13.9
Fuel Oil or Kerosene	2.3	.08	4.1	35.2	1.8	--	--	--	--	--	18.7
Wood	3.1	.25	12.6	81.3	4.1	3.1	.25	12.6	81.3	4.1	10.1
Heating Stove	2.4	.19	9.4	79.3	4.0	2.4	.19	9.4	79.3	4.0	10.1
Fireplace .....	.4	.02	1.0	45.4	2.3	.4	.02	1.0	45.4	2.3	22.9
Furnace/Other .....	.3	.04	2.2	151.5	7.6	.3	.04	2.2	151.5	7.6	20.1
LPG .....	.7	.02	.9	26.9	1.3	--	--	--	--	--	31.4
Other	Q	Q	Q	Q	Q	--	--	--	--	--	NF
Secondary Heating Equipment Used											
.....	.8	.08	3.8	89.6	4.5	.7	.07	3.4	99.2	5.0	14.2
Amount of Wood Burned in Past 12 Months											
Less than One-half Cord	9.6	.03	1.5	3.2	.2	Q	Q	Q	Q	Q	5.7
One-half to Less than 1	4.1	.05	2.4	11.7	.6	.4	(*)	.2	12.4	.6	6.3
1 to Less than 2	2.1	.04	2.2	21.8	1.1	.4	.01	.5	24.4	1.2	7.0
2 to 4 Cords	2.7	.15	7.4	54.3	2.7	1.2	.07	3.4	59.7	3.0	6.0
More than 4 Cords	1.7	.28	13.8	164.7	8.2	1.0	.17	8.4	163.5	8.2	10.9

See footnotes at end of table.

Table 5.9. Wood Consumption in U.S. Households, December 1992 Through November 1993 (Continued)

Characteristics	Households Using Wood					Wood Used as Main Space-Heating Fuel					RSE Row Fac- tors
	House- holds (mil- lions)	Consumption				House- holds (mil- lions)	Consumption				
		Total		Average per Household			Total		Average per Household		
		(quad- rillion Btu)	(million cords)	(million Btu)	(cords)		(quad- rillion Btu)	(million cords)	(million Btu)	(cords)	
RSE Column Factors:	0.6	1.0	1.0	0.8	0.8	1.1	1.5	1.5	1.0	1.0	

Purchased Firewood

Yes	6.9	0.24	12.0	34.6	1.7	1.4	0.12	5.8	83.3	4.2	13.0
No	13.2	.31	15.4	23.3	1.2	1.6	.14	6.8	84.7	4.2	8.4

¹ Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

² Does not include all new construction for 1993.

³ Below 150 percent of poverty line or 60 percent of median State income.

⁴ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

(*) = Value rounds to zero in the units displayed.

-- = Data not applicable.

NC = No cases in sample.

NF = No applicable RSE row factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, and C of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.10. Average Expenditures for Major Energy Sources in U.S. Households, 1993
(Dollars per Million Btu)

Characteristics	Major Energy Sources ¹	Electricity	Natural Gas	Fuel Oil	Kerosene	Liquefied Petroleum Gas	RSE Row Factors
RSE Column Factors:	1.0	0.8	0.8	0.8	1.3	1.7	
Total U.S. Households	12.38	24.69	6.07	6.46	8.08	10.04	1.3
Census Region and Division							
Northeast	12.47	33.55	7.73	6.41	7.64	13.90	2.2
New England	12.45	33.14	8.43	6.51	7.64	13.04	2.8
Middle Atlantic	12.47	33.69	7.59	6.35	7.64	14.86	2.5
Midwest	9.94	23.67	5.38	6.22	8.86	8.55	2.5
East North Central	9.79	24.57	5.41	6.28	8.85	8.67	3.3
West North Central	10.35	21.84	5.29	6.15	8.98	8.41	3.4
South	14.82	22.61	6.13	6.89	8.26	11.13	2.5
South Atlantic	16.55	23.71	7.15	6.90	8.27	12.44	3.0
East South Central	12.64	18.32	5.65	Q	8.00	10.10	4.4
West South Central	13.76	23.62	5.52	NC	Q	9.27	4.3
West	12.54	24.23	5.55	7.24	Q	10.99	3.8
Mountain	10.45	21.72	4.81	Q	Q	9.41	4.6
Pacific	13.61	25.29	5.96	7.31	Q	15.38	3.1
Largest Populated States							
California	14.47	32.86	6.09	Q	Q	15.42	2.2
Florida	22.63	24.41	8.48	Q	9.52	16.00	5.9
New York	13.01	40.62	8.37	6.28	7.79	13.83	3.1
Texas	14.24	23.52	5.54	NC	Q	8.98	5.6
Urban Status							
Urban	12.35	25.70	6.17	6.48	8.21	10.92	1.7
Central City	11.84	25.99	6.35	5.94	7.87	12.28	2.5
Suburban	12.67	25.55	6.03	6.67	8.38	10.72	1.9
Rural	12.50	21.82	5.55	6.41	7.96	9.62	2.3
Climate Zone ²							
Under 2,000 CDD and Over 7,000 HDD	10.11	22.19	5.39	6.31	7.69	9.51	2.7
5,500 to 7,000 HDD	10.50	25.15	5.85	6.52	8.17	9.10	3.5
4,000 to 5,499 HDD	12.54	24.75	6.82	6.47	7.95	9.92	3.7
Under 4,000 HDD	14.10	25.91	6.20	6.53	8.04	11.12	3.8
2,000 CDD or More and Under 4,000 HDD	16.03	24.27	5.90	Q	8.97	11.31	3.2
Type of Housing Unit							
Single-Family	12.16	24.29	5.96	6.63	8.21	9.87	1.4
Detached	12.06	24.14	5.90	6.64	8.22	9.87	1.5
Attached	13.15	25.72	6.53	6.57	8.09	Q	3.4
Mobile Home	14.69	23.06	5.61	6.84	7.91	10.49	3.1
Multifamily	12.82	27.53	6.63	5.60	7.82	13.48	2.4
2 to 4 Units	11.18	28.25	6.62	6.56	7.87	13.70	3.0
5 or More Units	14.39	27.16	6.65	4.54	Q	Q	2.4
Heated Floorspace (square feet)							
Fewer than 1,000	13.12	25.19	6.35	5.74	7.98	10.88	1.9
1,000 to 1,999	12.77	24.54	6.08	6.54	8.11	10.14	1.6
2,000 to 2,999	11.87	24.61	6.00	6.59	8.60	9.95	2.3
3,000 or More	11.27	24.58	5.84	6.60	8.15	8.77	2.5
Total Number of Rooms (Excluding Bathrooms)							
1 or 2	13.88	28.03	7.24	5.82	Q	Q	6.3
3 to 5	12.96	24.89	6.20	6.13	7.96	10.40	1.6
6 to 8	12.10	24.35	5.99	6.64	8.36	9.76	1.7
9 or More	11.45	25.21	5.92	6.66	9.34	9.64	3.2
Ownership of Unit							
Owned	12.29	24.37	6.00	6.63	8.16	9.91	1.5
Rented	12.66	25.67	6.28	5.82	7.89	10.70	1.8
Public Housing	12.94	24.98	6.27	4.34	Q	Q	4.5
Not Public Housing	12.64	25.74	6.28	5.89	7.90	10.70	1.9
Rent Subsidy	11.93	26.82	6.65	5.62	Q	Q	4.6
No Rent Subsidy	12.69	25.68	6.25	5.91	7.90	10.79	1.9

See footnotes at end of table.

Table 5.10. Average Expenditures for Major Energy Sources in U.S. Households, 1993 (Continued)
(Dollars per Million Btu)

Characteristics	Major Energy Sources ¹	Electricity	Natural Gas	Fuel Oil	Kerosene	Liquefied Petroleum Gas	RSE Row Factors
RSE Column Factors:	1.0	0.8	0.8	0.8	1.3	1.7	
Year of Construction							
1939 or Before	10.24	26.03	6.20	6.36	8.15	9.29	2.0
1940 to 1949	11.09	24.36	6.18	6.33	7.68	9.97	2.7
1950 to 1959	12.16	26.66	6.23	6.76	9.25	10.52	2.6
1960 to 1969	12.22	25.22	5.97	6.49	8.76	10.45	2.5
1970 to 1979	13.91	23.49	5.72	6.41	7.60	10.22	2.1
1980 to 1984	15.53	24.07	6.03	6.53	8.20	10.54	3.2
1985 to 1987	15.06	24.05	6.11	6.49	7.96	10.71	2.8
1988 to 1990	14.63	23.42	5.90	6.51	7.58	11.42	3.3
1991 to 1993 ³	13.49	23.35	6.09	6.62	Q	10.02	3.0
All Utilities Paid by Household							
Yes	12.52	24.34	6.02	6.64	8.10	10.03	1.4
No	11.17	29.82	6.45	5.42	7.77	10.09	2.7
1993 Family Income							
Less than \$5,000	12.41	25.89	6.35	6.13	7.65	10.67	3.4
\$5,000 to \$9,999	11.99	24.80	6.16	6.27	7.90	10.47	2.5
\$10,000 to \$14,999	11.72	25.10	6.08	6.26	7.83	10.61	2.3
\$15,000 to \$19,999	11.73	23.94	5.90	6.34	8.07	10.18	2.5
\$20,000 to \$24,999	12.24	23.86	6.05	6.20	8.72	10.03	2.9
\$25,000 to \$34,999	12.58	24.06	5.99	6.50	7.78	9.87	2.0
\$35,000 to \$49,999	12.70	24.78	6.10	6.47	8.11	9.63	1.8
\$50,000 to \$74,999	12.52	24.44	6.00	6.63	9.02	9.69	2.5
\$75,000 or More	12.93	26.25	6.24	6.80	8.85	10.03	3.1
Below Poverty Line							
100 Percent	12.30	25.15	6.22	6.06	7.88	10.61	2.1
125 Percent	12.27	24.91	6.20	6.05	7.99	10.33	2.0
150 Percent	12.32	24.68	6.16	6.15	7.95	10.45	1.9
Eligible for Federal Assistance ⁴							
	12.08	24.94	6.15	6.21	7.95	10.54	1.6
Age of Householder							
Under 25 Years	12.68	24.16	5.95	6.22	7.65	10.30	3.2
25 to 34 Years	12.45	24.72	6.06	6.18	8.72	10.27	2.0
35 to 44 Years	13.02	24.70	6.15	6.52	7.92	10.50	1.7
45 to 59 Years	12.59	24.44	6.03	6.52	8.03	9.82	1.9
60 Years and Over	11.62	25.03	6.08	6.51	7.90	9.81	1.8
Education of Householder							
12 Years or Fewer	12.19	24.38	6.05	6.32	8.12	10.00	1.5
13 to 16 Years	12.67	24.77	6.05	6.58	7.87	10.09	1.4
17 Years or More	12.40	25.77	6.21	6.70	8.13	10.24	2.3
Race of Householder							
White	12.42	24.37	6.01	6.50	7.95	9.94	1.4
Black	11.72	26.26	6.29	6.32	8.57	11.96	2.6
Other ⁵	13.59	27.91	6.54	5.63	Q	11.94	4.1
Householder of Hispanic Descent							
Yes	13.12	27.53	6.46	5.72	7.85	12.07	3.1
No	12.33	24.51	6.05	6.52	8.09	9.97	1.4

See footnotes at end of table.

Table 5.10. Average Expenditures for Major Energy Sources in U.S. Households, 1993 (Continued)
(Dollars per Million Btu)

Characteristics	Major Energy Sources ¹	Electricity	Natural Gas	Fuel Oil	Kerosene	Liquefied Petroleum Gas	
RSE Column Factors:	1.0	0.8	0.8	0.8	1.3	1.7	RSE Row Factors
Household Size							
1 Person	11.79	25.28	6.08	6.51	7.64	10.04	2.0
2 Persons	12.37	24.23	6.02	6.41	8.26	10.02	1.7
3 Persons	12.54	24.95	6.22	6.53	8.25	10.19	2.2
4 Persons	12.47	24.67	6.04	6.52	7.85	10.21	1.8
5 Persons	12.98	24.45	6.02	6.33	8.29	9.65	2.5
6 or More Persons	12.75	25.52	6.09	6.34	Q	9.83	3.8

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

² Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

NC = No cases in sample.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

**Table 5.11. Total Consumption and Expenditures by End Uses
in U.S. Households, 1993**

Characteristics	Space Heating		Air Conditioning		Water Heating		Refrigerator		Appliances		RSE Row Factors
	Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (quadrillion Btu)	Expenditures (billion dollars)	
RSE Column Factors:	1.1 ¹	0.9 ¹	1.5 ¹	1.5 ¹	0.9 ¹	0.8 ¹	0.9 ¹	0.9 ¹	0.9 ¹	0.9 ¹	
Total U.S. Households	5.32	39.67	0.46	11.33	1.83	16.99	0.46	11.98	1.94	43.95	1.6
Census Region and Division											
Northeast	1.49	11.39	.04	1.39	.43	4.17	.08	2.66	.35	10.10	3.6
New England .....	.40	3.12	.01	.24	.11	1.17	.02	.64	.09	2.60	6.7
Middle Atlantic	1.09	8.27	.03	1.15	.32	3.00	.06	2.02	.26	7.51	4.2
Midwest	1.92	12.09	.08	1.90	.52	4.06	.11	2.59	.50	10.48	3.3
East North Central	1.41	8.69	.05	1.26	.39	2.84	.07	1.88	.35	7.55	4.0
West North Central .....	.52	3.40	.03	.64	.14	1.22	.03	.71	.15	2.93	4.7
South	1.21	11.09	.31	7.11	.51	5.89	.19	4.38	.73	15.19	2.8
South Atlantic .....	.56	5.83	.14	3.46	.22	3.20	.09	2.18	.34	7.71	4.0
East South Central .....	.25	2.19	.05	.97	.09	1.01	.04	.66	.14	2.38	5.0
West South Central .....	.40	3.08	.11	2.69	.20	1.68	.06	1.54	.25	5.10	5.3
West .....	.70	5.09	.03	.92	.36	2.87	.09	2.35	.37	8.18	3.8
Mountain .....	.28	1.73	.01	.37	.10	.81	.02	.55	.10	2.04	6.1
Pacific .....	.42	3.36	.02	.56	.26	2.06	.06	1.80	.26	6.13	4.9
Largest Populated States											
California .....	.27	2.07	.02	.53	.21	1.51	.04	1.47	.18	4.92	5.2
Florida .....	.05	.88	.06	1.44	.04	.89	.03	.78	.11	2.59	9.1
New York .....	.51	3.95	.01	.50	.16	1.51	.02	1.01	.12	3.76	7.6
Texas .....	.23	1.85	.07	1.65	.12	1.03	.04	.97	.15	3.19	7.4
Urban Status											
Urban	4.11	30.17	.36	9.18	1.50	13.02	.36	9.70	1.50	34.53	1.9
Central City	1.56	11.18	.13	3.19	.62	5.05	.13	3.73	.54	12.19	3.1
Suburban	2.54	19.00	.24	5.99	.88	7.97	.22	5.97	.96	22.34	2.3
Rural	1.21	9.49	.10	2.15	.33	3.97	.10	2.27	.45	9.41	4.2
Climate Zone²											
Under 2,000 CDD and Over 7,000 HDD .....	.69	4.39	.01	.26	.17	1.66	.03	.79	.18	3.80	21.6
5,500 to 7,000 HDD	2.11	14.28	.07	1.67	.59	4.89	.11	3.05	.54	12.05	9.7
4,000 to 5,499 HDD	1.35	10.77	.10	2.57	.44	4.20	.10	2.75	.44	10.22	9.3
Under 4,000 HDD .....	.60	5.03	.08	1.85	.31	2.84	.08	2.27	.32	7.72	12.5
2,000 CDD or More and Under 4,000 HDD .....	.57	5.20	.21	4.98	.31	3.41	.12	3.12	.46	10.16	7.6
Type of Housing Unit											
Single-Family	4.31	31.36	.37	8.87	1.33	12.09	.35	8.97	1.56	34.99	2.3
Detached	3.96	28.47	.33	7.92	1.19	10.82	.32	8.02	1.42	31.79	2.5
Attached .....	.36	2.89	.04	.95	.14	1.27	.03	.94	.14	3.19	9.1
Mobile Home .....	.22	1.93	.03	.82	.07	1.11	.02	.55	.11	2.30	9.8
Multifamily .....	.79	6.37	.06	1.63	.43	3.79	.08	2.46	.27	6.67	5.3
2 to 4 Units .....	.48	3.59	.02	.43	.17	1.43	.03	.86	.11	2.61	8.1
5 or More Units .....	.31	2.79	.04	1.20	.26	2.36	.06	1.61	.16	4.05	6.9
Heated Floorspace (square feet)											
Fewer than 1,000 .....	.94	7.72	.08	2.04	.45	4.48	.11	3.00	.38	8.41	3.7
1,000 to 1,999	2.05	15.72	.21	5.03	.76	7.10	.19	5.02	.83	18.80	2.9
2,000 to 2,999	1.39	9.93	.11	2.61	.39	3.48	.10	2.53	.45	10.38	4.0
3,000 or More .....	.94	6.30	.07	1.64	.22	1.93	.06	1.42	.28	6.36	7.2

See footnotes at end of table.

Table 5.11. Total Consumption and Expenditures by End Uses in U.S. Households, 1993 (Continued)

Characteristics	Space Heating		Air Conditioning		Water Heating		Refrigerator		Appliances		RSE Row Factors
	Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (quadrillion Btu)	Expenditures (billion dollars)	
RSE Column Factors:	1.1 ¹	0.9 ¹	1.5 ¹	1.5 ¹	0.9 ¹	0.8 ¹	0.9 ¹	0.9 ¹	0.9 ¹	0.9 ¹	
Total Number of Rooms (Excluding Bathrooms)											
1 or 2	0.05	0.50	(*)	0.13	0.04	0.38	0.01	0.26	0.02	0.57	12.9
3 to 5	1.88	15.01	0.17	4.25	.79	7.71	.20	5.24	.74	16.68	2.9
6 to 8	2.79	20.20	.24	5.71	.85	7.66	.21	5.49	1.00	22.40	3.2
9 or More .....	.60	3.95	.05	1.25	.15	1.24	.04	.99	.19	4.30	9.4
Ownership of Unit											
Owned	4.10	30.04	.36	8.80	1.22	11.45	.33	8.52	1.48	33.25	2.2
Rented	1.22	9.62	.10	2.53	.60	5.54	.12	3.46	.47	10.70	3.6
Public Housing .....	.09	.77	.01	.18	.06	.51	.01	.30	.04	.82	12.5
Not Public Housing	1.13	8.85	.09	2.35	.55	5.02	.11	3.15	.43	9.88	4.1
Rent Subsidy .....	.08	.61	(*)	.11	.04	.31	.01	.19	.03	.59	12.0
No Rent Subsidy	1.06	8.25	.09	2.24	.51	4.72	.11	2.96	.40	9.28	4.3
Year of Construction											
1939 or Before	1.69	11.17	.04	1.11	.42	3.57	.09	2.36	.39	8.76	5.5
1940 to 1949 .....	.45	3.04	.02	.50	.13	1.14	.03	.86	.14	3.01	8.5
1950 to 1959 .....	.81	5.76	.06	1.53	.27	2.26	.07	1.85	.29	6.73	6.3
1960 to 1969 .....	.82	6.03	.08	1.85	.29	2.45	.07	1.94	.29	6.62	5.8
1970 to 1979 .....	.73	6.21	.10	2.32	.31	3.21	.09	2.26	.37	8.18	5.0
1980 to 1984 .....	.26	2.54	.06	1.45	.14	1.56	.04	1.11	.17	3.89	6.5
1985 to 1987 .....	.19	1.75	.04	1.05	.10	1.04	.03	.65	.11	2.56	9.2
1988 to 1990 .....	.18	1.65	.03	.77	.08	.96	.02	.52	.11	2.33	8.3
1991 to 1993 ³ .....	.18	1.51	.03	.75	.08	.81	.02	.43	.09	1.87	11.0
All Utilities Paid by Household											
Yes	4.79	35.96	.44	10.66	1.55	14.97	.41	10.63	1.79	40.13	1.8
No .....	.53	3.70	.02	.67	.28	2.02	.04	1.35	.16	3.81	5.4
1993 Family Income											
Less than \$5,000 .....	.17	1.31	.01	.33	.07	.65	.02	.44	.06	1.30	10.2
\$5,000 to \$9,999 .....	.48	3.80	.03	.69	.16	1.49	.04	1.17	.15	3.19	5.7
\$10,000 to \$14,999 .....	.56	4.05	.03	.74	.19	1.76	.05	1.24	.18	3.90	5.0
\$15,000 to \$19,999 .....	.54	3.84	.04	.91	.16	1.57	.04	1.10	.17	3.79	6.5
\$20,000 to \$24,999 .....	.46	3.44	.04	.88	.15	1.43	.04	1.01	.16	3.58	5.6
\$25,000 to \$34,999 .....	.77	5.86	.07	1.73	.25	2.50	.07	1.72	.29	6.47	4.9
\$35,000 to \$49,999 .....	.97	7.17	.10	2.37	.36	3.36	.08	2.20	.39	8.97	4.1
\$50,000 to \$74,999 .....	.77	5.68	.08	1.94	.28	2.50	.07	1.72	.31	7.01	5.0
\$75,000 or More .....	.61	4.51	.07	1.74	.20	1.73	.05	1.38	.24	5.74	7.6
Below Poverty Line											
100 Percent .....	.63	4.84	.04	1.00	.27	2.50	.06	1.61	.24	5.23	4.9
125 Percent .....	.88	6.72	.06	1.39	.36	3.39	.08	2.18	.33	7.20	4.3
150 Percent	1.13	8.68	.08	1.92	.45	4.35	.11	2.81	.43	9.27	3.7
Eligible for Federal Assistance⁴											
	1.50	11.32	.09	2.27	.55	5.19	.13	3.47	.51	11.37	3.6
Age of Householder											
Under 25 Years .....	.20	1.63	.02	.49	.10	1.00	.02	.55	.08	1.80	9.7
25 to 34 Years .....	.94	7.06	.09	2.22	.41	3.83	.08	2.10	.38	8.43	3.8
35 to 44 Years	1.09	8.29	.12	2.88	.46	4.41	.10	2.63	.49	11.30	3.4
45 to 59 Years	1.28	9.51	.13	3.13	.45	4.21	.11	2.98	.51	11.39	4.0
60 Years and Over	1.81	13.17	.10	2.62	.39	3.54	.14	3.72	.48	11.03	3.6

See footnotes at end of table.

**Table 5.11. Total Consumption and Expenditures by End Uses
in U.S. Households, 1993 (Continued)**

Characteristics	Space Heating		Air Conditioning		Water Heating		Refrigerator		Appliances		RSE Row Factors
	Consumption (quad- rillion Btu)	Expend- itures (billion dollars)	Consumption (quad- rillion Btu)	Expend- itures (billion dollars)	Consumption (quad- rillion Btu)	Expend- itures (billion dollars)	Consumption (quad- rillion Btu)	Expend- itures (billion dollars)	Consumption (quad- rillion Btu)	Expend- itures (billion dollars)	
RSE Column Factors:	1.1 ¹	0.9 ¹	1.5 ¹	1.5 ¹	0.9 ¹	0.8 ¹	0.9 ¹	0.9 ¹	0.9 ¹	0.9 ¹	
Education of Householder											
Less than 13 Years	2.78	20.64	0.21	5.00	0.95	9.02	0.24	6.24	1.00	22.26	2.5
13 to 16 Years	1.84	13.87	.18	4.61	.64	6.01	.16	4.24	.70	15.98	2.9
17 Years or More .....	.70	5.16	.07	1.72	.23	1.96	.06	1.50	.24	5.71	5.3
Race of Householder											
White	4.54	33.86	.40	9.80	1.46	13.91	.38	9.91	1.65	37.33	1.9
Black .....	.61	4.42	.05	1.10	.25	2.13	.05	1.41	.21	4.58	6.9
Other ⁵ .....	.17	1.39	.02	.43	.11	.95	.02	.66	.08	2.04	9.5
Householder of Hispanic Descent											
Yes .....	.28	2.16	.03	.72	.17	1.37	.03	.95	.14	3.21	9.1
No	5.04	37.51	.43	10.60	1.66	15.63	.42	11.02	1.81	40.73	1.9
Household Size											
1 Person	1.12	8.53	.07	1.79	.26	2.36	.09	2.54	.26	6.03	2.7
2 Persons	1.77	13.32	.16	3.78	.53	5.06	.16	4.09	.60	13.46	2.8
3 Persons .....	.96	7.09	.09	2.23	.37	3.43	.08	2.13	.38	8.60	4.5
4 Persons .....	.90	6.46	.08	2.08	.38	3.43	.07	1.86	.40	8.96	3.7
5 Persons .....	.38	2.83	.04	.96	.18	1.73	.03	.85	.20	4.36	6.6
6 or More Persons .....	.20	1.44	.02	.48	.11	.98	.02	.51	.11	2.53	11.0

¹ This factor is underestimated because it contains no error for estimating this end use.

² Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-H of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.12. Consumption by End Uses, per U.S. Household, 1993

Characteristics	All Uses		Space Heating		Air Conditioning		Water Heating		Refrigerator		Appliances		RSE Row Factors
	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	
RSE Column Factors:	1.1	0.8	1.1	1.1 ¹	1.3	1.3 ¹	1.1	0.8 ¹	1.1	0.7 ¹	1.1	0.7 ¹	
Total U.S. Households	96.6	103.6	94.6	56.3	64.0	7.2	95.9	19.0	96.4	4.7	96.6	20.1	1.6
Census Region and Division													
Northeast	19.5	122.4	19.1	77.7	10.9	3.7	19.3	22.2	19.4	3.9	19.5	18.1	3.9
New England	5.1	123.1	4.9	81.7	2.1	3.6	5.0	21.2	5.1	3.7	5.1	17.5	6.0
Middle Atlantic	14.4	122.1	14.2	76.3	8.8	3.7	14.3	22.6	14.3	3.9	14.4	18.3	4.4
Midwest	23.3	134.3	23.2	82.8	16.4	4.9	23.3	22.4	23.3	4.5	23.3	21.4	3.2
East North Central	16.4	138.8	16.3	86.3	10.8	4.7	16.4	23.6	16.4	4.5	16.4	21.5	3.6
West North Central	6.9	123.8	6.9	74.5	5.6	5.2	6.9	19.7	6.9	4.6	6.9	21.2	5.3
South	33.5	88.1	32.8	36.8	29.4	10.5	33.2	15.5	33.4	5.7	33.5	21.7	2.7
South Atlantic	17.3	78.0	16.8	33.1	15.0	9.6	17.1	12.7	17.3	5.2	17.3	19.7	3.6
East South Central	6.0	94.9	5.9	43.3	5.3	10.0	5.9	15.4	6.0	5.8	6.0	22.8	3.9
West South Central	10.1	101.1	10.1	39.1	9.2	12.1	10.1	20.1	10.1	6.3	10.1	24.6	5.3
West	20.4	76.0	19.4	36.2	7.2	4.4	20.2	17.9	20.3	4.2	20.4	18.0	4.4
Mountain	5.4	98.1	5.3	53.3	2.1	6.6	5.3	19.4	5.4	4.4	5.4	19.3	7.5
Pacific	15.0	68.2	14.1	29.8	5.1	3.5	14.9	17.4	15.0	4.2	15.0	17.5	5.3
Largest Populated States													
California	11.1	65.2	10.6	25.8	4.4	3.7	11.1	18.7	11.1	4.0	11.1	16.6	5.4
Florida	5.6	52.3	5.3	9.2	5.1	11.5	5.5	7.7	5.6	5.7	5.6	19.6	6.3
New York	6.8	121.2	6.7	76.2	3.9	2.9	6.7	24.1	6.8	3.5	6.8	17.1	6.9
Texas	6.4	94.7	6.4	35.1	5.8	12.0	6.4	18.7	6.4	6.3	6.4	24.0	7.4
Urban Status													
Urban	75.8	103.2	74.4	55.2	50.3	7.2	75.3	19.9	75.7	4.7	75.8	19.8	1.9
Central City	30.6	97.7	29.9	52.4	18.9	6.7	30.4	20.4	30.5	4.4	30.6	17.7	2.2
Suburban	45.2	107.0	44.6	57.1	31.3	7.5	44.9	19.5	45.1	4.9	45.2	21.2	1.7
Rural	20.8	104.9	20.2	60.1	13.7	7.1	20.6	15.9	20.8	4.8	20.8	21.5	3.0
Climate Zone ²													
Under 2,000 CDD and													
Over 7,000 HDD	8.7	124.0	8.5	80.9	4.0	2.9	8.6	19.5	8.7	3.9	8.7	20.4	9.5
5,500 to 7,000 HDD	26.5	129.2	26.3	80.4	15.5	4.2	26.4	22.5	26.5	4.3	26.5	20.3	5.6
4,000 to 5,499 HDD	22.4	108.5	22.1	61.3	16.0	6.2	22.2	19.9	22.3	4.5	22.4	19.6	5.4
Under 4,000 HDD	17.8	78.5	17.2	35.0	10.3	7.5	17.7	17.5	17.8	4.6	17.8	18.3	6.8
2,000 CDD or More and													
Under 4,000 HDD	21.2	79.1	20.5	27.5	18.1	11.4	21.0	14.9	21.1	5.9	21.2	21.9	4.9
Type of Housing Unit													
Single-Family	66.8	118.6	65.5	65.9	45.1	8.1	66.3	20.0	66.7	5.2	66.8	23.4	1.6
Detached	59.5	121.3	58.3	67.9	39.9	8.2	59.0	20.1	59.4	5.3	59.5	23.9	1.7
Attached	7.3	96.3	7.2	49.6	5.2	7.2	7.3	19.0	7.3	4.7	7.3	18.8	6.9
Mobile Home	5.6	81.9	5.4	40.1	3.7	9.3	5.5	13.2	5.6	4.1	5.6	19.4	6.2
Multifamily	24.2	67.3	23.6	33.4	15.1	4.0	24.1	17.7	24.2	3.4	24.2	11.3	3.6
2 to 4 Units	8.0	99.5	7.9	60.3	3.9	3.8	8.0	21.0	8.0	3.5	8.0	13.9	5.8
5 or More Units	16.2	51.5	15.8	19.9	11.2	4.0	16.1	16.0	16.2	3.4	16.2	10.1	4.4
Heated Floorspace (square feet)													
Fewer than 1,000	29.3	66.8	28.1	33.4	17.2	4.7	28.9	15.6	29.2	3.8	29.3	12.8	2.6
1,000 to 1,999	40.2	100.7	39.6	51.8	27.4	7.5	40.0	19.1	40.1	4.8	40.2	20.7	2.1
2,000 to 2,999	17.8	136.6	17.7	78.8	12.8	8.4	17.8	21.7	17.8	5.5	17.8	25.3	2.8
3,000 or More	9.3	168.8	9.2	102.0	6.6	10.1	9.2	24.1	9.3	6.0	9.3	30.5	4.6
Total Number of Rooms (Excluding Bathrooms)													
1 or 2	3.2	41.3	3.0	18.2	1.6	3.0	3.1	13.5	3.2	2.8	3.2	7.1	8.3
3 to 5	47.3	79.7	46.2	40.7	30.4	5.6	47.0	16.7	47.2	4.1	47.3	15.6	2.1
6 to 8	40.2	126.3	39.7	70.3	27.7	8.5	40.0	21.2	40.2	5.3	40.2	24.8	2.1
9 or More	5.8	175.5	5.7	104.4	4.3	11.4	5.8	26.0	5.8	6.4	5.8	32.5	5.8

See footnotes at end of table.

Table 5.12. Consumption by End Uses, per U.S. Household, 1993 (Continued)

Characteristics	All Uses		Space Heating		Air Conditioning		Water Heating		Refrigerator		Appliances		RSE Row Factors
	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	
RSE Column Factors:	1.1	0.8	1.1	1.1 ¹	1.3	1.3 ¹	1.1	0.8 ¹	1.1	0.7 ¹	1.1	0.7 ¹	
Ownership of Unit													
Owned	63.2	118.6	62.0	66.1	44.3	8.2	62.9	19.4	63.2	5.2	63.2	23.4	1.6
Rented	33.4	75.2	32.6	37.5	19.7	5.0	33.1	18.3	33.3	3.8	33.4	14.0	2.5
Public Housing	3.4	58.2	3.4	25.3	2.2	3.2	3.4	16.6	3.4	3.4	3.4	11.3	9.5
Not Public Housing	30.0	77.2	29.2	38.9	17.5	5.2	29.7	18.5	29.8	3.8	30.0	14.3	2.9
Rent Subsidy	2.0	75.8	1.9	40.1	1.1	3.7	2.0	19.0	2.0	3.3	2.0	13.2	10.1
No Rent Subsidy	28.0	77.3	27.3	38.8	16.4	5.3	27.7	18.4	27.9	3.8	28.0	14.3	3.1
Year of Construction													
1939 or Before	20.3	129.6	19.7	85.7	9.9	4.5	20.1	21.2	20.3	4.2	20.3	19.0	3.6
1940 to 1949	6.9	112.0	6.8	66.5	3.8	5.3	6.9	19.5	6.9	4.7	6.9	19.8	5.2
1950 to 1959	13.1	114.1	12.8	63.3	8.4	6.8	13.0	20.8	13.1	5.1	13.1	21.9	4.1
1960 to 1969	15.0	102.9	14.7	56.0	10.6	7.1	14.9	19.1	15.0	4.8	15.0	19.2	3.9
1970 to 1979	18.1	87.9	17.7	41.5	12.4	7.9	18.0	17.1	18.1	5.0	18.1	20.1	3.7
1980 to 1984	8.5	80.3	8.3	31.3	6.7	8.9	8.5	16.7	8.5	5.2	8.5	20.6	4.5
1985 to 1987	5.5	85.2	5.5	34.6	4.7	9.1	5.5	17.4	5.5	4.7	5.5	20.8	6.6
1988 to 1990	4.7	90.4	4.6	39.3	3.8	8.4	4.7	17.9	4.7	4.5	4.7	22.6	5.8
1991 to 1993 ³	4.5	88.9	4.5	40.1	3.8	8.4	4.5	18.4	4.5	3.9	4.5	19.4	8.5
All Utilities Paid by Household													
Yes	82.9	108.3	81.3	58.9	56.4	7.7	82.5	18.7	82.8	5.0	82.9	21.6	1.8
No	13.7	75.5	13.3	39.9	7.6	3.1	13.5	20.8	13.6	3.1	13.7	11.5	3.9
1993 Family Income													
Less than \$5,000	4.0	80.1	4.0	42.8	2.4	5.2	4.0	17.3	4.0	4.0	4.0	14.2	6.7
\$5,000 to \$9,999	10.6	81.7	10.2	47.1	6.1	4.7	10.3	15.7	10.5	4.2	10.6	13.8	4.2
\$10,000 to \$14,999	11.1	89.7	10.8	51.4	6.3	4.7	11.1	17.0	11.1	4.2	11.1	15.9	3.7
\$15,000 to \$19,999	9.6	99.2	9.3	57.6	6.0	6.2	9.6	17.0	9.6	4.5	9.6	18.0	4.3
\$20,000 to \$24,999	8.7	96.6	8.6	53.3	5.5	6.4	8.7	17.0	8.7	4.5	8.7	18.7	3.8
\$25,000 to \$34,999	14.1	103.5	13.8	55.7	9.7	7.4	14.0	18.1	14.0	4.9	14.1	20.6	3.4
\$35,000 to \$49,999	17.5	108.5	17.1	56.6	12.4	7.8	17.4	20.6	17.4	4.8	17.5	22.3	2.9
\$50,000 to \$74,999	12.6	119.2	12.4	62.0	9.1	8.9	12.6	22.3	12.6	5.2	12.6	24.4	3.3
\$75,000 or More	8.3	139.9	8.2	73.6	6.5	10.2	8.3	24.6	8.3	6.0	8.3	28.8	5.0
Below Poverty Line													
100 Percent	14.4	85.9	13.9	45.2	7.9	5.1	14.1	19.1	14.3	4.2	14.4	16.7	3.7
125 Percent	19.4	87.9	18.7	46.8	11.0	5.1	19.0	18.8	19.3	4.2	19.4	17.0	3.2
150 Percent	24.7	88.8	23.9	47.2	14.4	5.5	24.4	18.7	24.6	4.3	24.7	17.2	2.8
Eligible for Federal Assistance⁴													
	30.6	90.9	29.7	50.4	17.7	5.2	30.3	18.1	30.6	4.3	30.6	16.8	2.5
Age of Householder													
Under 25 Years	5.7	75.4	5.6	36.6	3.2	6.1	5.6	18.2	5.7	3.8	5.7	14.6	6.5
25 to 34 Years	19.9	95.4	19.5	48.2	13.3	6.7	19.8	20.8	19.9	4.0	19.9	19.0	2.7
35 to 44 Years	21.4	105.9	21.0	51.9	14.2	8.3	21.3	21.8	21.3	4.7	21.4	23.1	2.4
45 to 59 Years	21.9	113.5	21.3	59.9	14.7	8.7	21.7	20.8	21.9	5.2	21.9	23.3	2.8
60 Years and Over	27.7	105.7	27.3	66.5	18.5	5.6	27.5	14.4	27.7	5.0	27.7	17.3	2.5
Education of Householder													
Less than 13 Years	51.5	100.7	50.2	55.4	32.5	6.4	51.0	18.7	51.4	4.7	51.5	19.5	1.8
13 to 16 Years	33.6	105.0	33.1	55.6	23.3	7.9	33.4	19.2	33.6	4.8	33.6	20.8	2.2
17 Years or More	11.5	112.4	11.3	62.0	8.2	8.3	11.5	20.0	11.5	4.8	11.5	20.9	4.1
Race of Householder													
White	80.2	105.3	78.8	57.6	54.5	7.3	79.7	18.4	80.1	4.8	80.2	20.6	1.8
Black	10.9	106.8	10.7	56.6	6.7	6.7	10.8	23.5	10.9	4.7	10.9	18.9	5.0
Other ⁵	5.5	72.7	5.0	34.1	2.8	5.9	5.5	20.1	5.5	4.0	5.5	15.3	6.2

See footnotes at end of table.

Table 5.12. Consumption by End Uses, per U.S. Household, 1993 (Continued)

Characteristics	All Uses		Space Heating		Air Conditioning		Water Heating		Refrigerator		Appliances		RSE Row Factors
	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	Households (million)	Consumption (million Btu)	
RSE Column Factors:	1.1	0.8	1.1	1.1 ¹	1.3	1.3 ¹	1.1	0.8 ¹	1.1	0.7 ¹	1.1	0.7 ¹	

Householder of Hispanic Descent

Yes	7.9	81.2	7.4	37.6	4.3	6.4	7.8	21.2	7.9	4.1	7.9	17.2	5.8
No	88.7	105.6	87.1	57.8	59.7	7.2	88.2	18.8	88.6	4.8	88.7	20.4	1.7

Household Size

1 Person	23.5	76.8	23.0	48.6	15.0	4.8	23.1	11.3	23.4	4.0	23.5	11.0	3.0
2 Persons	31.7	101.3	31.2	56.7	21.9	7.1	31.6	16.7	31.7	5.0	31.7	19.0	2.1
3 Persons	16.6	112.9	16.3	59.0	11.1	8.2	16.5	22.2	16.6	4.8	16.6	22.8	2.9
4 Persons	14.6	125.2	14.4	62.2	9.9	8.5	14.6	25.9	14.6	4.9	14.6	27.3	2.6
5 Persons	6.8	122.3	6.5	57.6	4.3	9.2	6.7	26.9	6.8	4.9	6.8	29.0	4.2
6 or More Persons	3.5	133.9	3.2	63.5	1.9	9.8	3.5	32.6	3.5	5.3	3.5	32.5	7.1

¹ This factor is underestimated because it contains no error for estimating this end use.

² Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-H of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.13. Expenditures by End Uses, per U.S. Household, 1993

Characteristics	All Uses		Space Heating		Air Conditioning		Water Heating		Refrigerators		Appliances		RSE Row Factors
	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	
RSE Column Factors:	1.2	0.6	1.1	0.9 ¹	1.4	1.4 ¹	1.2	0.6 ¹	1.2	0.8 ¹	1.2	0.8 ¹	
Total U.S. Households	96.6	1,283	94.6	419	64.0	177	95.9	177	96.4	124	96.6	455	1.6
Census Region and Division													
Northeast	19.5	1,526	19.1	595	10.9	127	19.3	216	19.4	137	19.5	519	3.7
New England	5.1	1,532	4.9	634	2.1	111	5.0	234	5.1	126	5.1	512	4.9
Middle Atlantic	14.4	1,523	14.2	582	8.8	131	14.3	210	14.3	141	14.4	521	4.3
Midwest	23.3	1,336	23.2	521	16.4	116	23.3	174	23.3	111	23.3	450	3.2
East North Central	16.4	1,358	16.3	533	10.8	117	16.4	174	16.4	115	16.4	461	4.2
West North Central	6.9	1,282	6.9	492	5.6	114	6.9	176	6.9	103	6.9	422	4.2
South	33.5	1,305	32.8	338	29.4	242	33.2	178	33.4	131	33.5	454	2.5
South Atlantic	17.3	1,292	16.8	346	15.0	231	17.1	187	17.3	126	17.3	445	3.7
East South Central	6.0	1,200	5.9	373	5.3	185	5.9	170	6.0	110	6.0	396	3.8
West South Central	10.1	1,391	10.1	304	9.2	291	10.1	167	10.1	152	10.1	504	4.6
West	20.4	953	19.4	263	7.2	128	20.2	142	20.3	116	20.4	402	4.0
Mountain	5.4	1,025	5.3	327	2.1	175	5.3	151	5.4	102	5.4	382	6.5
Pacific	15.0	928	14.1	238	5.1	109	14.9	139	15.0	120	15.0	409	5.0
Largest Populated States													
California	11.1	944	10.6	195	4.4	120	11.1	136	11.1	132	11.1	442	5.5
Florida	5.6	1,182	5.3	165	5.1	281	5.5	162	5.6	141	5.6	466	5.9
New York	6.8	1,577	6.7	590	3.9	128	6.7	224	6.8	149	6.8	552	6.5
Texas	6.4	1,349	6.4	288	5.8	287	6.4	161	6.4	151	6.4	494	6.7
Urban Status													
Urban	75.8	1,275	74.4	405	50.3	183	75.3	173	75.7	128	75.8	456	1.8
Central City	30.6	1,156	29.9	374	18.9	168	30.4	166	30.5	122	30.6	399	2.0
Suburban	45.2	1,356	44.6	426	31.3	191	44.9	177	45.1	132	45.2	494	1.6
Rural	20.8	1,312	20.2	471	13.7	157	20.6	193	20.8	110	20.8	452	2.8
Climate Zone ²													
Under 2,000 CDD and													
Over 7,000 HDD	8.7	1,254	8.5	517	4.0	64	8.6	193	8.7	91	8.7	437	9.3
5,500 to 7,000 HDD	26.5	1,356	26.3	543	15.5	108	26.4	185	26.5	115	26.5	455	5.2
4,000 to 5,499 HDD	22.4	1,361	22.1	488	16.0	160	22.2	189	22.3	123	22.4	456	5.8
Under 4,000 HDD	17.8	1,107	17.2	292	10.3	179	17.7	160	17.8	128	17.8	434	5.7
2,000 CDD or More and													
Under 4,000 HDD	21.2	1,268	20.5	253	18.1	275	21.0	162	21.1	147	21.2	479	4.4
Type of Housing Unit													
Single-Family	66.8	1,442	65.5	479	45.1	197	66.3	182	66.7	134	66.8	524	1.5
Detached	59.5	1,464	58.3	488	39.9	198	59.0	183	59.4	135	59.5	535	1.7
Attached	7.3	1,266	7.2	403	5.2	183	7.3	174	7.3	129	7.3	437	6.1
Mobile Home	5.6	1,203	5.4	357	3.7	221	5.5	200	5.6	99	5.6	412	5.9
Multifamily	24.2	863	23.6	269	15.1	108	24.1	158	24.2	102	24.2	275	3.2
2 to 4 Units	8.0	1,112	7.9	454	3.9	110	8.0	179	8.0	107	8.0	326	5.1
5 or More Units	16.2	740	15.8	177	11.2	107	16.1	147	16.2	99	16.2	250	4.1
Heated Floorspace (square feet)													
Fewer than 1,000	29.3	876	28.1	275	17.2	119	28.9	155	29.2	103	29.3	287	2.5
1,000 to 1,999	40.2	1,286	39.6	397	27.4	183	40.0	178	40.1	125	40.2	468	2.0
2,000 to 2,999	17.8	1,622	17.7	561	12.8	205	17.8	196	17.8	142	17.8	582	2.7
3,000 or More	9.3	1,901	9.2	685	6.6	249	9.2	208	9.3	153	9.3	685	4.7
Total Number of Rooms (Excluding Bathrooms)													
1 or 2	3.2	574	3.0	166	1.6	82	3.1	122	3.2	83	3.2	178	8.1
3 to 5	47.3	1,033	46.2	325	30.4	140	47.0	164	47.2	111	47.3	352	1.9
6 to 8	40.2	1,529	39.7	509	27.7	206	40.0	191	40.2	137	40.2	557	2.1
9 or More	5.8	2,008	5.7	691	4.3	290	5.8	214	5.8	169	5.8	736	6.2

See footnotes at end of table.

Table 5.13. Expenditures by End Uses, per U.S. Household, 1993 (Continued)

Characteristics	All Uses		Space Heating		Air Conditioning		Water Heating		Refrigerators		Appliances		RSE Row Factors
	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	
RSE Column Factors:	1.2	0.6	1.1	0.9 ¹	1.4	1.4 ¹	1.2	0.6 ¹	1.2	0.8 ¹	1.2	0.8 ¹	
Ownership of Unit													
Owned	63.2	1,458	62.0	484	44.3	199	62.9	182	63.2	135	63.2	526	1.5
Rented	33.4	953	32.6	296	19.7	128	33.1	167	33.3	104	33.4	320	2.5
Public Housing	3.4	753	3.4	228	2.2	79	3.4	151	3.4	89	3.4	239	8.9
Not Public Housing	30.0	976	29.2	303	17.5	134	29.7	169	29.8	106	30.0	329	2.8
Rent Subsidy	2.0	905	1.9	317	1.1	97	2.0	155	2.0	97	2.0	299	9.3
No Rent Subsidy	28.0	981	27.3	303	16.4	137	27.7	170	27.9	106	28.0	332	3.0
Year of Construction													
1939 or Before	20.3	1,327	19.7	566	9.9	112	20.1	178	20.3	116	20.3	431	3.6
1940 to 1949	6.9	1,242	6.8	450	3.8	132	6.9	166	6.9	126	6.9	437	5.2
1950 to 1959	13.1	1,387	12.8	450	8.4	182	13.0	173	13.1	142	13.1	515	4.3
1960 to 1969	15.0	1,257	14.7	410	10.6	175	14.9	164	15.0	129	15.0	441	3.7
1970 to 1979	18.1	1,222	17.7	352	12.4	188	18.0	179	18.1	125	18.1	451	3.3
1980 to 1984	8.5	1,247	8.3	306	6.7	217	8.5	184	8.5	131	8.5	460	4.3
1985 to 1987	5.5	1,284	5.5	320	4.7	223	5.5	190	5.5	118	5.5	466	6.0
1988 to 1990	4.7	1,322	4.6	356	3.8	201	4.7	204	4.7	111	4.7	494	5.5
1991 to 1993 ³	4.5	1,200	4.5	338	3.8	197	4.5	180	4.5	96	4.5	419	7.7
All Utilities Paid by Household													
Yes	82.9	1,356	81.3	442	56.4	189	82.5	182	82.8	128	82.9	484	1.6
No	13.7	843	13.3	278	7.6	88	13.5	150	13.6	99	13.7	278	3.8
1993 Family Income													
Less than \$5,000	4.0	994	4.0	330	2.4	134	4.0	164	4.0	110	4.0	321	6.1
\$5,000 to \$9,999	10.6	980	10.2	372	6.1	113	10.3	144	10.5	111	10.6	302	4.1
\$10,000 to \$14,999	11.1	1,051	10.8	374	6.3	118	11.1	159	11.1	112	11.1	350	3.5
\$15,000 to \$19,999	9.6	1,163	9.3	410	6.0	151	9.6	164	9.6	114	9.6	394	3.9
\$20,000 to \$24,999	8.7	1,182	8.6	401	5.5	159	8.7	164	8.7	115	8.7	409	3.6
\$25,000 to \$34,999	14.1	1,302	13.8	423	9.7	179	14.0	178	14.0	123	14.1	461	3.1
\$35,000 to \$49,999	17.5	1,379	17.1	419	12.4	191	17.4	193	17.4	126	17.5	514	2.7
\$50,000 to \$74,999	12.6	1,493	12.4	457	9.1	214	12.6	199	12.6	136	12.6	555	2.9
\$75,000 or More	8.3	1,809	8.2	546	6.5	269	8.3	209	8.3	166	8.3	687	4.8
Below Poverty Line													
100 Percent	14.4	1,056	13.9	349	7.9	127	14.1	178	14.3	112	14.4	364	3.5
125 Percent	19.4	1,078	18.7	359	11.0	126	19.0	178	19.3	113	19.4	372	3.0
150 Percent	24.7	1,094	23.9	363	14.4	133	24.4	179	24.6	114	24.7	375	2.6
Eligible for Federal Assistance⁴													
	30.6	1,098	29.7	381	17.7	128	30.3	172	30.6	114	30.6	371	2.2
Age of Householder													
Under 25 Years	5.7	956	5.6	293	3.2	150	5.6	177	5.7	97	5.7	315	5.8
25 to 34 Years	19.9	1,187	19.5	363	13.3	167	19.8	193	19.9	106	19.9	423	2.5
35 to 44 Years	21.4	1,380	21.0	395	14.2	202	21.3	207	21.3	123	21.4	528	2.2
45 to 59 Years	21.9	1,429	21.3	446	14.7	212	21.7	194	21.9	136	21.9	521	2.7
60 Years and Over	27.7	1,229	27.3	483	18.5	142	27.5	129	27.7	134	27.7	398	2.3
Education of Householder													
Less than 13 Years	51.5	1,227	50.2	411	32.5	154	51.0	177	51.4	121	51.5	432	1.7
13 to 16 Years	33.6	1,330	33.1	419	23.3	198	33.4	180	33.6	126	33.6	476	2.0
17 Years or More	11.5	1,394	11.3	456	8.2	210	11.5	171	11.5	130	11.5	496	3.8
Race of Householder													
White	80.2	1,307	78.8	429	54.5	180	79.7	175	80.1	124	80.2	466	1.8
Black	10.9	1,252	10.7	411	6.7	163	10.8	198	10.9	129	10.9	420	4.6
Other ⁵	5.5	988	5.0	277	2.8	154	5.5	173	5.5	120	5.5	369	5.9

See footnotes at end of table.

Table 5.13. Expenditures by End Uses, per U.S. Household, 1993 (Continued)

Characteristics	All Uses		Space Heating		Air Conditioning		Water Heating		Refrigerators		Appliances		RSE Row Factors
	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	Households (million)	Expenditures (dollars)	
RSE Column Factors:	1.2	0.6	1.1	0.9 ¹	1.4	1.4 ¹	1.2	0.6 ¹	1.2	0.8 ¹	1.2	0.8 ¹	

Householder of Hispanic

Descent													
Yes	7.9	1,065	7.4	290	4.3	169	7.8	175	7.9	121	7.9	407	5.3
No	88.7	1,302	87.1	430	59.7	178	88.2	177	88.6	124	88.7	459	1.7

Household Size

1 Person	23.5	906	23.0	371	15.0	120	23.1	102	23.4	109	23.5	257	2.7
2 Persons	31.7	1,253	31.2	427	21.9	173	31.6	160	31.7	129	31.7	425	2.0
3 Persons	16.6	1,416	16.3	436	11.1	201	16.5	208	16.6	128	16.6	519	2.7
4 Persons	14.6	1,561	14.4	448	9.9	211	14.6	235	14.6	127	14.6	614	2.5
5 Persons	6.8	1,588	6.5	433	4.3	226	6.7	257	6.8	126	6.8	645	4.0
6 or More Persons	3.5	1,708	3.2	449	1.9	249	3.5	285	3.5	147	3.5	728	7.6

¹ This factor is underestimated because it contains no error for estimating this end use.

² Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-H of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.14. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in U.S. Households, 1993

Characteristics	Electricity				Natural Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(quad-rillion Btu)	(billion kWh)			(quad-rillion Btu)	(billion cubic feet)		
RSE Column Factors:	0.9	1.3 ¹	1.3 ¹	1.2 ¹	0.7	0.9 ¹	0.9 ¹	0.9 ¹	
Total U.S. Households	37.1	0.41	119	8.66	52.6	3.67	3,570	21.95	4.3
Census Region and Division									
Northeast	4.1	.04	12	1.13	9.5	.78	754	5.82	11.9
New England	1.0	.01	3	.30	1.6	.13	123	1.05	19.3
Middle Atlantic	3.1	.03	9	.83	7.9	.65	631	4.78	14.2
Midwest	5.8	.07	22	1.54	17.0	1.56	1,519	8.40	11.1
East North Central	3.5	.04	13	.95	13.0	1.20	1,167	6.49	10.9
West North Central	2.4	.03	9	.59	4.1	.36	351	1.91	26.0
South	18.8	.21	61	4.42	13.6	.78	757	4.75	6.4
South Atlantic	10.7	.11	31	2.41	4.9	.29	280	2.03	8.6
East South Central	3.4	.05	15	.88	2.4	.16	160	.93	18.0
West South Central	4.8	.05	15	1.12	6.3	.33	317	1.79	10.6
West	8.3	.08	25	1.57	12.4	.56	541	2.99	6.3
Mountain	2.0	.02	6	.39	3.5	.23	227	1.10	8.9
Pacific	6.3	.06	19	1.18	9.0	.32	314	1.89	8.2
Largest Populated States									
California	3.9	.02	5	.50	8.1	.25	245	1.51	6.7
Florida	4.7	.03	8	.67	Q	Q	Q	Q	9.7
New York	1.1	Q	Q	Q	3.6	.29	282	2.33	26.8
Texas	3.2	.03	10	.75	3.7	.18	176	.99	16.2
Urban Status									
Urban	28.3	.28	82	6.21	45.1	3.06	2,973	18.56	4.5
Central City	10.8	.09	25	1.93	19.7	1.30	1,265	8.10	7.2
Suburban	17.6	.19	57	4.28	25.4	1.76	1,708	10.46	5.1
Rural	8.8	.13	38	2.45	7.5	.61	597	3.40	12.4
Climate Zone ²									
Under 2,000 CDD and Over 7,000 HDD	2.3	.03	8	.44	4.4	.40	393	2.19	17.6
5,500 to 7,000 HDD	6.9	.10	28	2.06	17.7	1.59	1,544	9.19	14.0
4,000 to 5,499 HDD	8.6	.12	36	2.50	10.5	.81	792	5.37	11.6
Under 4,000 HDD	7.5	.06	18	1.45	10.6	.45	437	2.77	15.8
2,000 CDD or More and Under 4,000 HDD	11.8	.10	28	2.21	9.3	.41	403	2.43	9.9
Total Number of Rooms (Excluding Bathrooms)									
1 or 2	1.2	.01	2	.18	1.6	.04	35	.25	18.7
3 to 5	19.5	.19	57	4.18	23.4	1.26	1,222	7.65	5.6
6 to 8	14.6	.19	54	3.89	23.9	1.95	1,896	11.55	5.5
9 or More	1.8	.02	6	.42	3.7	.43	417	2.51	14.0
Type of Housing Unit									
Single-Family	24.3	.30	88	6.23	38.8	2.99	2,906	17.63	4.8
Detached	21.2	.26	77	5.41	34.5	2.72	2,645	15.89	5.2
Attached	3.1	.04	11	.82	4.3	.27	262	1.74	14.8
Mobile Home	2.1	.03	8	.58	1.8	.10	97	.56	17.8
Multifamily	10.7	.08	23	1.85	12.0	.58	567	3.77	8.1
2 to 4 Units	2.8	.03	8	.66	4.8	.37	361	2.42	12.8
5 or More Units	7.9	.05	15	1.19	7.2	.21	206	1.35	10.1
Heated Floorspace (square feet)									
Fewer than 1,000	11.9	.10	31	2.29	14.1	.63	618	3.93	5.6
1,000 to 1,999	16.2	.18	54	3.90	22.4	1.44	1,397	8.63	5.7
2,000 to 2,999	6.0	.08	23	1.67	10.5	.95	924	5.64	6.7
3,000 or More	2.9	.04	11	.79	5.6	.65	632	3.76	10.1

See footnotes at end of table.

Table 5.14. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in U.S. Households, 1993 (Continued)

Characteristics	Electricity				Natural Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(quad- rillion Btu)	(billion kWh)			(quad- rillion Btu)	(billion cubic feet)		
RSE Column Factors:	0.9	1.3 ¹	1.3 ¹	1.2 ¹	0.7	0.9 ¹	0.9 ¹	0.9 ¹	
Ownership of Unit									
Owned	23.1	0.28	83	5.93	35.3	2.80	2,720	16.60	4.7
Rented	14.0	.12	36	2.73	17.3	.87	851	5.36	6.2
Public Housing	1.6	.01	4	.33	1.7	.07	63	.41	18.6
Not Public Housing	12.4	.11	32	2.40	15.5	.81	787	4.95	6.8
Rent Subsidy .....	.8	.01	2	.17	1.0	.06	54	.35	17.5
No Rent Subsidy	11.6	.10	30	2.23	14.5	.75	733	4.60	7.0
Year of Construction									
1939 or Before	4.8	.03	10	.68	12.9	1.15	1,123	6.98	9.3
1940 to 1949	1.8	.02	5	.31	4.4	.31	301	1.87	13.6
1950 to 1959	3.9	.04	10	.79	8.4	.58	568	3.59	9.0
1960 to 1969	5.3	.06	17	1.25	9.2	.63	612	3.73	9.0
1970 to 1979	8.8	.12	34	2.43	7.8	.45	442	2.56	8.0
1980 to 1984	4.8	.06	17	1.27	3.6	.17	166	1.02	10.0
1985 to 1987	3.2	.03	10	.74	2.3	.13	122	.76	11.7
1988 to 1990	2.5	.03	9	.69	1.9	.12	114	.68	12.6
1991 to 1993 ³	2.1	.02	7	.50	2.1	.13	124	.77	15.7
Electric Space-Heating									
Paid by Household	35.3	.39	114	8.24	--	--	--	--	5.7
Natural Gas Space-Heating									
Paid by Household	--	--	--	--	45.1	3.29	3,202	19.64	6.0
1993 Family Income									
Less than \$5,000	1.6	.01	4	.29	2.1	.12	113	.72	14.6
\$5,000 to \$9,999	4.1	.04	13	.99	5.4	.33	321	1.99	8.8
\$10,000 to \$14,999	4.2	.04	11	.79	6.2	.41	395	2.42	9.1
\$15,000 to \$19,999	3.7	.04	10	.71	5.3	.38	372	2.23	11.1
\$20,000 to \$24,999	3.5	.04	12	.79	4.6	.31	301	1.85	9.6
\$25,000 to \$34,999	5.4	.06	19	1.37	7.2	.50	484	2.95	7.9
\$35,000 to \$49,999	6.6	.07	22	1.55	9.5	.66	638	3.94	6.5
\$50,000 to \$74,999	5.0	.06	18	1.27	7.2	.53	513	3.11	7.6
\$75,000 or More	3.1	.04	12	.90	5.2	.45	433	2.74	10.2
Below Poverty Line									
100 Percent	5.5	.05	15	1.12	7.4	.44	425	2.66	8.8
125 Percent	7.3	.07	21	1.53	9.8	.60	587	3.67	7.8
150 Percent	9.7	.09	28	2.07	12.5	.78	763	4.73	7.2
Eligible for Federal Assistance⁴									
11.7	.11	34	2.51	16.0	1.05	1,022	6.34	6.7	
Age of Householder									
Under 25 Years	2.8	.02	7	.54	2.6	.15	146	.87	14.5
25 to 34 Years	7.8	.08	23	1.73	11.1	.69	667	4.09	6.2
35 to 44 Years	8.1	.09	27	1.95	11.7	.76	736	4.58	6.3
45 to 59 Years	8.1	.10	29	2.06	11.8	.85	830	5.06	6.5
60 Years and Over	10.2	.11	33	2.38	15.4	1.23	1,192	7.35	6.4
Education of Householder									
Less than 13 Years	18.2	.21	60	4.34	27.3	1.87	1,823	11.16	5.3
13 to 16 Years	14.0	.15	45	3.30	18.2	1.28	1,245	7.62	5.6
17 Years or More	5.0	.05	14	1.02	7.1	.52	503	3.17	7.7

See footnotes at end of table.

Table 5.14. Total Electricity and Natural Gas Consumption and Expenditures for Space Heating in U.S. Households, 1993 (Continued)

Characteristics	Electricity				Natural Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(quad- rillion Btu)	(billion kWh)			(quad- rillion Btu)	(billion cubic feet)		
RSE Column Factors:	0.9	1.3 ¹	1.3 ¹	1.2 ¹	0.7	0.9 ¹	0.9 ¹	0.9 ¹	
Race of Householder									
White	31.1	0.36	105	7.47	42.7	3.04	2,957	18.02	4.8
Black	3.8	.03	10	.77	6.8	.50	487	3.11	10.1
Other ⁵	2.2	.02	5	.41	3.1	.13	127	.82	12.0
Householder of Hispanic Descent									
Yes	2.9	.02	6	.54	4.1	.19	190	1.21	11.8
No	34.2	.38	113	8.12	48.4	3.48	3,381	20.75	4.5
Household Size									
1 Person	9.5	.10	28	2.13	12.4	.78	762	4.68	6.1
2 Persons	12.7	.15	43	3.10	16.9	1.18	1,152	7.01	5.6
3 Persons	5.8	.06	18	1.29	9.4	.66	645	4.08	7.4
4 Persons	5.3	.06	17	1.22	8.5	.65	630	3.85	6.2
5 Persons	2.7	.03	9	.67	3.5	.25	241	1.46	9.5
6 or More Persons	1.1	.01	4	.25	1.9	.14	141	.86	14.4

¹ This factor is underestimated because it contains no error for estimating this end use.

² Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

-- = Not applicable.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, E, and F of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.15. Total Fuel Oil, Kerosene, and LPG Consumption and Expenditures for Space Heating in U.S. Households, 1993

Characteristics	Fuel Oil				Kerosene				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(quad-ril-lion Btu)	(bil-lion gal-lons)			(quad-ril-lion Btu)	(bil-lion gal-lons)			(quad-ril-lion Btu)	(bil-lion gal-lons)		
RSE Column Factors:	0.6	0.7 ¹	0.7 ¹	0.7 ¹	1.1	1.5 ¹	1.5 ¹	1.5 ¹	0.9	1.1 ¹	1.1 ¹	1.0 ¹	
Total U.S. Households	10.7	0.90	6.51	5.88	3.6	0.05	0.34	0.37	5.6	0.30	3.25	2.81	11.2
Census Region and Division													
Northeast	7.3	.64	4.62	4.15	.7	.02	.14	.15	.3	.01	.13	.14	20.8
New England	2.6	.25	1.81	1.63	.2	Q	Q	Q	.2	Q	Q	Q	19.3
Middle Atlantic	4.7	.39	2.81	2.52	.5	.01	.08	.08	.1	Q	Q	Q	24.4
Midwest	1.4	.13	.91	.78	1.0	Q	Q	.05	1.9	.16	1.72	1.33	24.5
East North Central .....	.7	.07	.51	.44	.9	Q	Q	Q	1.0	.09	.98	.76	32.2
West North Central .....	.6	.06	.41	.34	.1	Q	Q	Q	.9	.07	.74	.56	29.9
South	1.5	.10	.74	.71	1.8	.02	.15	.16	2.8	.10	1.09	1.05	17.3
South Atlantic	1.4	.10	.70	.67	1.4	.02	.13	.14	1.4	.05	.55	.57	21.3
East South Central	Q	Q	Q	Q	.3	Q	Q	Q	.8	.03	.34	.31	26.0
West South Central	NC	NC	NC	NC	Q	Q	Q	Q	.6	.02	.20	.17	30.1
West .....	.5	.03	.23	.23	Q	Q	Q	Q	.6	.03	.31	.29	39.3
Mountain	Q	Q	Q	Q	Q	Q	Q	Q	.4	.02	.24	.20	34.2
Pacific	Q	.03	.19	.19	Q	Q	Q	Q	.2	Q	Q	Q	48.6
Largest Populated States													
California	Q	Q	Q	Q	Q	Q	Q	Q	.2	(*)	.03	.04	28.0
Florida	Q	Q	Q	Q	Q	Q	Q	Q	.3	.01	.06	.08	40.0
New York	2.6	.20	1.47	1.31	.3	Q	Q	.06	Q	Q	Q	Q	30.4
Texas	NC	NC	NC	NC	Q	Q	Q	Q	Q	.01	.13	.10	36.0
Urban Status													
Urban	8.1	.67	4.81	4.37	1.8	.02	.16	.17	1.9	.09	.94	.86	14.8
Central City	2.7	.16	1.16	.99	.5	.01	.05	.06	.2	.01	.10	.10	21.4
Suburban	5.4	.51	3.65	3.39	1.3	.01	.10	.12	1.6	.08	.84	.76	16.8
Rural	2.6	.23	1.70	1.50	1.8	.02	.18	.19	3.7	.21	2.30	1.95	14.3
Climate Zone ²													
Under 2,000 CDD and Over 7,000 HDD	2.0	.19	1.37	1.19	.4	.01	.08	.08	.8	.06	.60	.49	29.1
5,500 to 7,000 HDD	3.4	.33	2.35	2.13	.9	.01	.08	.09	1.1	.09	1.01	.80	30.2
4,000 to 5,499 HDD	4.6	.35	2.55	2.33	1.0	.01	.06	.07	.8	Q	Q	.50	22.9
Under 4,000 HDD .....	.4	.03	.21	.19	.8	.01	.08	.09	1.3	.05	.55	.54	33.1
2,000 CDD or More and Under 4,000 HDD	Q	Q	Q	Q	.5	.01	.04	.05	1.6	.05	.49	.48	30.0
Total Number of Rooms (Excluding Bathrooms)													
1 or 2 .....	.4	.01	.08	.07	Q	Q	Q	Q	Q	Q	Q	Q	34.9
3 to 5	4.2	.28	2.01	1.74	1.9	.03	.24	.26	2.8	.12	1.32	1.18	12.5
6 to 8	5.1	.49	3.52	3.24	1.4	.01	.09	.10	2.5	.15	1.68	1.43	14.9
9 or More .....	.9	.12	.90	.83	.2	(*)	(*)	.01	.3	.02	.25	.20	26.3
Type of Housing Unit													
Single-Family	8.0	.76	5.49	5.05	2.6	.03	.19	.21	4.2	.24	2.63	2.24	12.7
Detached	7.4	.72	5.16	4.75	2.5	.03	.19	.21	4.1	.24	2.59	2.21	12.9
Attached .....	.6	.05	.33	.30	.2	(*)	.01	.01	Q	Q	Q	Q	26.5
Mobile Home .....	.3	.02	.13	.12	.7	.02	.13	.14	1.3	.05	.60	.55	23.0
Multifamily	2.4	.12	.89	.71	.3	(*)	.01	.01	Q	Q	Q	Q	20.3
2 to 4 Units .....	.9	.07	.53	.48	.2	(*)	.01	.01	Q	Q	Q	Q	25.4
5 or More Units	1.5	.05	.36	.23	Q	Q	Q	Q	Q	Q	Q	Q	19.1
Heated Floorspace (square feet)													
Fewer than 1,000	2.3	.11	.78	.64	1.2	.02	.17	.19	1.7	.07	.72	.68	14.3
1,000 to 1,999	3.9	.31	2.21	2.02	1.4	.02	.12	.13	2.3	.11	1.18	1.04	14.3
2,000 to 2,999	2.9	.30	2.14	1.95	.6	(*)	.02	.02	1.0	.07	.73	.63	18.7
3,000 or More	1.6	.19	1.38	1.26	.3	Q	Q	Q	.6	.06	.62	.46	20.8

See footnotes at end of table.

Table 5.15. Total Fuel Oil, Kerosene, and LPG Consumption and Expenditures for Space Heating in U.S. Households, 1993 (Continued)

Characteristics	Fuel Oil				Kerosene				Liquefied Petroleum Gas				RSE Row Factors
	House- holds (mil- lion)	Total Consumed		Total Expend- itures (billion dollars)	House- holds (mil- lion)	Total Consumed		Total Expend- itures (billion dollars)	House- holds (mil- lion)	Total Consumed		Total Expend- itures (billion dollars)	
		(quad- ril- lion Btu)	(bil- lion gal- lons)			(quad- ril- lion Btu)	(bil- lion gal- lons)			(quad- ril- lion Btu)	(bil- lion gal- lons)		
RSE Column Factors:	0.6	0.7 ¹	0.7 ¹	0.7 ¹	1.1	1.5 ¹	1.5 ¹	1.5 ¹	0.9	1.1 ¹	1.1 ¹	1.0 ¹	
Ownership of Unit													
Owned	7.7	0.74	5.31	4.89	2.5	0.03	0.23	0.25	4.7	0.25	2.76	2.38	12.3
Rented	3.0	.17	1.20	.99	1.0	.01	.11	.11	.9	.04	.49	.44	13.5
Public Housing	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Not Public Housing	2.8	.16	1.16	.97	1.0	.01	.10	.11	.9	.04	.48	.43	13.6
Rent Subsidy .....	.2	.01	.09	.07	Q	Q	Q	Q	Q	Q	Q	Q	30.4
No Rent Subsidy	2.6	.15	1.07	.90	1.0	.01	.10	.11	.9	.04	.46	.41	14.7
Year of Construction													
1939 or Before	4.2	.39	2.81	2.50	1.1	.01	.09	.10	1.4	.10	1.13	.90	14.5
1940 to 1949	1.2	.09	.67	.59	.3	(*)	.03	.03	.4	.03	.27	.24	26.6
1950 to 1959	1.9	.17	1.20	1.13	.4	(*)	.03	.03	.6	.02	.24	.22	27.1
1960 to 1969	1.3	.09	.66	.60	.7	(*)	.03	.04	.7	.04	.46	.41	22.0
1970 to 1979	1.3	.10	.75	.67	.6	.01	.09	.09	1.2	.05	.52	.46	17.7
1980 to 1984 .....	.3	.02	.12	.11	.2	(*)	.02	.03	.3	.01	.12	.11	25.0
1985 to 1987 .....	.2	.01	.10	.09	.2	(*)	.01	.01	.3	.01	.16	.15	31.4
1988 to 1990 .....	.2	.02	.12	.11	.2	Q	Q	Q	.3	.01	.15	.14	33.1
1991 to 1993 ³ .....	.1	.01	.07	.07	Q	Q	Q	Q	.4	.02	.19	.17	37.3
Fuel Oil													
Paid by Household	8.6	.81	5.85	5.38	--	--	--	--	--	--	--	--	14.4
Liquefied Petroleum Gas													
Paid by Household	--	--	--	--	--	--	--	--	5.4	.29	3.15	2.73	16.8
1993 Family Income													
Less than \$5,000 .....	.4	.03	.18	.16	.1	(*)	.02	.02	.2	.01	.14	.12	32.6
\$5,000 to \$9,999 .....	.9	.07	.48	.43	.5	.01	.05	.06	.8	.03	.37	.34	22.3
\$10,000 to \$14,999	1.0	.08	.59	.52	.4	.01	.06	.06	.6	.03	.28	.26	20.9
\$15,000 to \$19,999 .....	.9	.08	.57	.50	.6	.01	.08	.09	.6	.03	.34	.30	22.4
\$20,000 to \$24,999 .....	.9	.07	.53	.46	.3	(*)	.03	.03	.7	.03	.36	.31	22.1
\$25,000 to \$34,999	1.7	.14	1.03	.94	.5	.01	.04	.05	1.2	.06	.66	.57	20.6
\$35,000 to \$49,999	2.4	.18	1.32	1.19	.5	(*)	.03	.03	.8	.05	.56	.47	16.6
\$50,000 to \$74,999	1.6	.15	1.05	.97	.4	(*)	.01	.02	.5	.03	.38	.31	17.0
\$75,000 or More .....	.9	.10	.75	.72	.3	Q	Q	Q	.3	.01	.16	.13	28.0
Below Poverty Line													
100 Percent	1.2	.08	.58	.50	.7	.01	.09	.09	1.1	.05	.52	.48	19.3
125 Percent	1.8	.12	.86	.73	1.0	.02	.12	.13	1.6	.07	.74	.66	18.0
150 Percent	2.2	.16	1.12	.98	1.2	.02	.13	.14	1.8	.08	.84	.76	17.0
Eligible for Federal Assistance⁴													
2.9	.22	1.60	1.40	1.4	.02	.17	.19	2.0	.09	.96	.88	15.0	
Age of Householder													
Under 25 Years .....	.4	.02	.13	.12	.2	(*)	.02	.02	.2	.01	.09	.08	29.0
25 to 34 Years	1.6	.12	.86	.74	.6	.01	.06	.07	.9	.04	.49	.43	17.9
35 to 44 Years	2.4	.18	1.27	1.16	1.0	.01	.09	.10	1.1	.05	.57	.50	15.7
45 to 59 Years	2.7	.23	1.67	1.52	1.0	.01	.07	.08	1.5	.08	.92	.79	15.4
60 Years and Over	3.6	.36	2.58	2.34	.7	.01	.09	.09	1.9	.11	1.18	1.01	17.7
Education of Householder													
Less than 13 Years	5.9	.46	3.33	2.95	2.4	.03	.25	.28	4.0	.20	2.22	1.92	11.9
13 to 16 Years	3.5	.32	2.30	2.11	.8	.01	.07	.07	1.4	.08	.88	.76	13.7
17 Years or More	1.2	.12	.87	.82	.3	Q	Q	Q	.2	.01	.15	.13	26.8

See footnotes at end of table.

Table 5.15. Total Fuel Oil, Kerosene, and LPG Consumption and Expenditures for Space Heating in U.S. Households, 1993 (Continued)

Characteristics	Fuel Oil				Kerosene				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(quadrillion Btu)	(billion gallons)			(quadrillion Btu)	(billion gallons)			(quadrillion Btu)	(billion gallons)		
RSE Column Factors:	0.6	0.7 ¹	0.7 ¹	0.7 ¹	1.1	1.5 ¹	1.5 ¹	1.5 ¹	0.9	1.1 ¹	1.1 ¹	1.0 ¹	
Race of Householder													
White	9.4	0.82	5.95	5.39	3.0	0.04	0.26	0.28	5.2	0.29	3.13	2.70	11.7
Black .....	.8	.06	.42	.38	.5	.01	.06	.07	.4	.01	.09	.09	28.6
Other ⁵ .....	.4	.02	.14	.11	Q	Q	Q	Q	Q	Q	Q	Q	27.9
Householder of Hispanic Descent													
Yes .....	.9	.05	.39	.32	Q	Q	Q	Q	.3	.01	.08	.08	26.4
No	9.7	.85	6.12	5.56	3.4	.04	.32	.35	5.3	.29	3.17	2.74	11.3
Household Size													
1 Person	2.3	.18	1.30	1.18	.6	.01	.08	.08	.9	.05	.53	.46	17.8
2 Persons	3.5	.30	2.19	1.96	1.1	.01	.10	.11	2.2	.12	1.29	1.14	17.5
3 Persons	2.0	.18	1.27	1.15	.9	.01	.07	.08	1.0	.05	.55	.48	15.8
4 Persons	1.7	.14	1.04	.95	.6	.01	.04	.04	.8	.04	.45	.40	16.6
5 Persons .....	.8	.06	.45	.40	.4	.01	.04	.04	.5	.03	.33	.26	22.6
6 or More Persons .....	.4	.04	.26	.23	Q	Q	Q	Q	.2	.01	.10	.08	26.8

¹ This factor is underestimated because it contains no error for estimating this end use.

² Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

(*) = Value rounds to zero in the units displayed.

-- = Not applicable.

NC = No cases in sample.

NF = No applicable RSE row factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and G of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.16. Electricity Consumption and Expenditures for Main Space Heating, per U.S. Household, 1993

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Electricity Space-Heating Intensity		RSE Row Factors
		(million Btu)	(kWh)			1993	30-Year Average ²	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
RSE Column Factors:	1.6	1.1 ¹	1.1 ¹	1.0 ¹	0.7	1.0	1.0	0.8 ¹	0.9 ¹	
Total U.S. Households	25.0	15.5	4,541	327	1,405	3,429	3,452	0.94	6.8	3.2
Census Region and Division										
Northeast	1.9	19.5	5,715	538	1,426	6,043	6,044	.66	6.2	4.6
New England .....	.5	18.6	5,464	577	1,187	6,329	6,346	.73	7.7	6.8
Middle Atlantic	1.4	19.8	5,797	525	1,504	5,950	5,945	.65	5.9	6.0
Midwest	2.9	24.2	7,097	499	1,573	6,254	6,066	.72	5.1	7.3
East North Central	1.6	25.9	7,590	551	1,628	6,416	6,332	.73	5.3	8.1
West North Central	1.3	22.1	6,481	435	1,505	6,052	5,733	.71	4.8	12.1
South	14.6	13.7	4,028	292	1,457	2,442	2,434	1.13	8.2	4.1
South Atlantic	8.7	11.9	3,487	270	1,482	2,206	2,248	1.07	8.3	5.8
East South Central	2.5	19.5	5,714	339	1,478	3,545	3,449	1.09	6.5	6.3
West South Central	3.4	14.2	4,166	313	1,379	2,236	2,163	1.35	10.1	7.6
West	5.6	14.2	4,160	259	1,177	3,650	3,873	.97	6.0	6.2
Mountain	1.4	13.7	4,026	267	1,337	3,437	3,524	.88	5.8	12.5
Pacific	4.2	14.3	4,203	256	1,126	3,718	3,985	1.00	6.1	7.3
Largest Populated States										
California	2.2	6.3	1,853	192	1,118	1,932	2,305	.86	8.9	7.5
Florida	4.4	6.2	1,817	151	1,467	660	780	1.88	15.6	16.9
New York	Q	14.9	4,360	516	923	6,574	6,537	.72	8.5	20.5
Texas	2.4	13.2	3,874	296	1,395	2,029	1,968	1.37	10.5	9.4
Urban Status										
Urban	19.5	13.7	4,007	302	1,394	3,095	3,156	.93	7.0	3.9
Central City	7.4	11.0	3,224	245	1,129	2,886	2,945	.99	7.5	6.5
Suburban	12.1	15.3	4,486	336	1,555	3,223	3,286	.89	6.7	5.2
Rural	5.5	21.9	6,421	416	1,447	4,605	4,495	.96	6.2	4.5
Climate Zone ²										
Under 2,000 CDD and										
Over 7,000 HDD .....	.9	27.2	7,976	417	1,146	7,893	7,821	.88	4.6	6.7
5,500 to 7,000 HDD	4.0	23.2	6,799	491	1,440	6,217	6,132	.76	5.5	6.6
4,000 to 5,499 HDD	5.8	20.4	5,981	409	1,522	4,727	4,689	.83	5.7	4.6
Under 4,000 HDD	4.8	12.2	3,586	278	1,247	2,693	2,810	1.07	8.3	7.1
2,000 CDD or More and										
Under 4,000 HDD	9.5	9.7	2,856	224	1,424	1,398	1,467	1.43	11.2	6.7
Type of Housing Unit										
Single-Family	14.1	20.0	5,871	412	1,798	3,464	3,462	.94	6.6	3.6
Detached	11.9	20.8	6,092	424	1,873	3,429	3,423	.95	6.6	3.7
Attached	2.2	16.0	4,695	351	1,399	3,648	3,671	.92	6.9	9.6
Mobile Home	1.5	18.1	5,294	359	999	3,808	3,735	1.39	9.4	7.7
Multifamily	9.3	8.2	2,410	193	879	3,314	3,391	.83	6.6	5.5
2 to 4 Units	2.2	12.8	3,761	292	859	3,861	3,906	1.13	8.8	8.3
5 or More Units	7.2	6.8	1,996	162	885	3,146	3,232	.72	5.8	6.2
Heated Floorspace (square feet)										
Fewer than 1,000	9.4	10.7	3,125	232	726	3,501	3,550	1.23	9.1	4.1
1,000 to 1,999	10.8	16.3	4,770	340	1,404	3,280	3,294	1.04	7.4	3.7
2,000 to 2,999	3.4	21.7	6,372	456	2,411	3,495	3,495	.76	5.4	3.8
3,000 or More	1.3	27.7	8,125	570	3,720	3,970	3,954	.55	3.9	6.8
Total Number of Rooms (Excluding Bathrooms)										
1 or 2	1.1	6.4	1,875	159	499	3,487	3,603	1.08	9.2	16.4
3 to 5	14.9	12.4	3,645	268	1,071	3,403	3,439	1.00	7.3	3.7
6 to 8	8.2	21.4	6,266	443	1,980	3,483	3,471	.91	6.4	4.0
9 or More .....	.8	24.8	7,263	479	3,020	3,275	3,300	.73	4.8	10.7

See footnotes at end of table.

Table 5.16. Electricity Consumption and Expenditures for Main Space Heating, per U.S. Household, 1993 (Continued)

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Electricity Space-Heating Intensity		RSE Row Factors
		(million Btu)	(kWh)			1993	30-Year Average ²	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
RSE Column Factors:	1.6	1.1 ¹	1.1 ¹	1.0 ¹	0.7	1.0	1.0	0.8 ¹	0.9 ¹	
Ownership of Unit										
Owned	13.7	19.6	5,748	404	1,814	3,399	3,401	0.93	6.6	3.4
Rented	11.2	10.5	3,066	233	906	3,465	3,515	.98	7.4	4.4
Public Housing	1.5	9.4	2,748	219	762	3,989	4,014	.90	7.2	12.7
Not Public Housing	9.7	10.6	3,115	235	928	3,385	3,438	.99	7.5	5.1
Rent Subsidy .....	.7	10.3	3,021	244	785	4,541	4,553	.85	6.9	15.3
No Rent Subsidy	9.1	10.6	3,121	234	939	3,302	3,358	1.01	7.6	5.3
Year of Construction										
1939 or Before	1.3	22.0	6,444	432	1,231	4,623	4,619	1.13	7.6	8.4
1940 to 1949 .....	.7	23.7	6,948	384	1,291	4,454	4,521	1.21	6.7	11.2
1950 to 1959	1.9	17.3	5,075	380	1,403	3,060	3,116	1.18	8.9	8.9
1960 to 1969	3.4	15.8	4,639	347	1,336	3,285	3,322	1.06	7.9	7.3
1970 to 1979	7.0	16.0	4,702	333	1,375	3,691	3,712	.93	6.6	5.6
1980 to 1984	3.9	14.2	4,158	312	1,401	3,224	3,258	.92	6.9	5.6
1985 to 1987	2.7	12.2	3,588	265	1,489	3,012	3,030	.80	5.9	8.8
1988 to 1990	2.2	14.4	4,209	314	1,521	3,346	3,356	.83	6.2	6.4
1991 to 1993 ³	1.9	12.4	3,620	260	1,565	3,012	2,992	.77	5.5	11.4
Main Space-Heating Fuel Paid by Household										
Yes	23.6	15.7	4,597	330	1,447	3,400	3,418	.93	6.7	3.3
No	1.4	12.3	3,613	284	720	3,905	4,019	1.28	10.1	12.8
1993 Family Income										
Less than \$5,000	1.2	10.2	2,982	229	863	3,483	3,446	.99	7.6	9.3
\$5,000 to \$9,999	3.1	13.6	3,973	303	873	3,877	3,885	1.17	9.0	6.9
\$10,000 to \$14,999	2.8	12.2	3,582	262	1,011	3,341	3,415	1.06	7.8	7.4
\$15,000 to \$19,999	2.4	13.9	4,083	280	1,179	3,275	3,330	1.06	7.3	7.9
\$20,000 to \$24,999	2.3	16.5	4,845	329	1,260	3,520	3,508	1.09	7.4	7.5
\$25,000 to \$34,999	3.9	15.7	4,610	335	1,449	3,344	3,381	.95	6.9	5.5
\$35,000 to \$49,999	4.4	16.1	4,716	331	1,617	3,294	3,300	.89	6.2	4.8
\$50,000 to \$74,999	3.1	18.3	5,358	382	1,950	3,463	3,478	.79	5.7	4.6
\$75,000 or More	1.8	21.1	6,186	462	2,189	3,294	3,336	.86	6.4	8.2
Below Poverty Line										
100 Percent	3.9	11.9	3,493	267	910	3,470	3,487	1.11	8.5	6.1
125 Percent	5.2	12.8	3,751	278	954	3,525	3,543	1.12	8.3	5.7
150 Percent	6.9	13.0	3,816	282	1,011	3,517	3,535	1.07	7.9	5.6
Eligible for Federal Assistance ⁴										
8.3	13.2	3,854	285	1,015	3,543	3,580	1.07	7.9	4.8	
Age of Householder										
Under 25 Years	2.3	10.1	2,957	223	919	3,403	3,388	.95	7.1	7.9
25 to 34 Years	5.7	13.5	3,969	289	1,208	3,481	3,510	.94	6.9	4.9
35 to 44 Years	5.4	16.2	4,747	339	1,541	3,455	3,476	.89	6.4	4.7
45 to 59 Years	5.2	18.0	5,289	375	1,694	3,417	3,415	.91	6.5	4.5
60 Years and Over	6.4	16.5	4,838	348	1,407	3,380	3,434	1.02	7.3	5.3
Education of Householder										
Less than 13 Years	12.3	15.9	4,666	333	1,257	3,575	3,581	1.04	7.4	3.5
13 to 16 Years	9.8	15.0	4,391	320	1,510	3,325	3,366	.87	6.4	4.5
17 Years or More	2.9	15.4	4,516	328	1,685	3,155	3,194	.85	6.2	7.3
Race of Householder										
White	20.9	16.3	4,764	338	1,484	3,516	3,527	.91	6.5	3.2
Black	2.6	12.1	3,545	278	1,039	3,068	3,099	1.11	8.7	7.4
Other ⁵	1.5	10.6	3,114	263	935	2,817	2,999	1.18	10.0	10.4

See footnotes at end of table.

Table 5.16. Electricity Consumption and Expenditures for Main Space Heating, per U.S. Household, 1993 (Continued)

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Electricity Space-Heating Intensity		RSE Row Factors
		(million Btu)	(kWh)			1993	30-Year Average ²	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
RSE Column Factors:	1.6	1.1 ¹	1.1 ¹	1.0 ¹	0.7	1.0	1.0	0.8 ¹	0.9 ¹	
Householder of Hispanic Descent										
Yes	2.1	9.8	2,884	239	1,168	2,470	2,603	1.00	8.3	10.2
No	22.9	16.0	4,695	335	1,427	3,518	3,531	.93	6.7	3.2
Household Size										
1 Person	7.2	12.8	3,753	283	1,056	3,647	3,679	.97	7.3	4.8
2 Persons	8.6	16.5	4,838	343	1,481	3,389	3,420	.96	6.8	4.5
3 Persons	3.8	15.1	4,439	322	1,450	3,244	3,251	.94	6.8	5.8
4 Persons	3.1	17.4	5,111	357	1,702	3,371	3,371	.89	6.2	4.9
5 Persons	1.6	18.7	5,487	386	1,715	3,504	3,514	.91	6.4	6.9
6 or More Persons .....	.7	16.6	4,878	345	1,812	2,738	2,801	.98	6.9	11.6
Main Heating Equipment Using Electricity										
Central Warm-Air Furnace	9.2	13.4	3,923	280	1,341	2,772	2,798	1.06	7.5	5.6
Built-In Electric Units	6.9	17.8	5,223	373	1,177	4,813	4,825	.92	6.6	4.7
Heat Pump	7.5	16.6	4,863	352	1,774	3,016	3,033	.91	6.6	4.5
Other	1.3	11.8	3,447	270	951	3,126	3,228	1.16	9.1	9.3
Age of Main Heating Equipment										
Less than 5 Years	5.4	14.7	4,309	312	1,530	2,875	2,895	.98	7.1	5.5
5 to 9 Years	5.3	15.3	4,472	313	1,596	3,042	3,069	.92	6.4	6.1
10 to 19 Years	6.5	17.9	5,240	375	1,484	3,883	3,885	.91	6.5	4.6
20 Years or More	3.2	19.3	5,657	407	1,435	3,996	4,051	.99	7.1	7.8
Don't Know	4.7	10.7	3,141	238	917	3,479	3,509	.98	7.5	5.7
Secondary Heating Fuel (more than one may apply)										
No	15.9	12.8	3,741	279	1,157	3,292	3,339	.98	7.3	4.3
Yes	9.1	20.3	5,940	411	1,840	3,668	3,650	.88	6.1	3.7
Wood	6.0	22.3	6,524	445	2,056	3,823	3,799	.83	5.7	4.3
Electricity	2.8	18.7	5,495	374	1,646	3,278	3,265	1.02	6.9	6.5
Natural Gas .....	.6	16.3	4,770	367	1,753	2,861	2,837	.95	7.3	9.2
Kerosene .....	.6	22.7	6,657	456	1,673	4,667	4,560	.85	5.8	10.6
Other .....	.2	23.7	6,941	470	1,986	4,476	4,606	.78	5.3	18.7
Average Electricity Expenditures for Main Space Heat (cents per kWh)										
Less than 6	4.6	25.2	7,378	377	1,454	5,063	5,031	1.00	5.1	5.8
6 to Less than 9	14.3	15.1	4,426	330	1,487	3,123	3,099	.95	7.1	4.4
9 or More	6.1	9.1	2,664	281	1,178	2,909	3,084	.78	8.2	6.2

See footnotes at end of table.

Table 5.16. Electricity Consumption and Expenditures for Main Space Heating, per U.S. Household, 1993 (Continued)

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Electricity Space-Heating Intensity		RSE Row Factors
		(million Btu)	(kWh)			1993	30-Year Average ²	Consumption (kWh/HDD* 1000 square feet)	Expenditures (cents/HDD* 1000 square feet)	
RSE Column Factors:	1.6	1.1 ¹	1.1 ¹	1.0 ¹	0.7	1.0	1.0	0.8 ¹	0.9 ¹	
Adequacy of Insulation										
Well Insulated	10.2	16.6	4,872	349	1,610	3,534	3,543	0.86	6.1	3.9
Adequately Insulated	9.8	14.6	4,265	307	1,351	3,263	3,294	.97	7.0	3.8
Poorly Insulated	4.9	15.0	4,401	321	1,091	3,540	3,578	1.14	8.3	5.9

¹ This factor is underestimated because it contains no error for estimating this end use.

² The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.17. Natural Gas Consumption and Expenditures for Main Space Heating, per U.S. Household, 1993

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Natural Gas Space-Heating Intensity		RSE Row Factors
		(million Btu)	(1000 cubic feet)			1993	30-Year Average ²	Consumption (cubic feet/HDD*1000 square feet)	Expenditures (cents/HDD*1000 square feet)	
RSE Column Factors:	1.7	1.0 ¹	1.0 ¹	1.0 ¹	0.8	0.8	0.8	1.0 ¹	1.1 ¹	
Total U.S. Households	51.4	70.9	68.9	424	1,712	4,818	4,801	8.4	5.1	1.9
Census Region and Division										
Northeast	9.4	81.6	79.4	613	1,735	5,790	5,833	7.9	6.1	3.0
New England	1.6	78.7	76.5	651	1,566	5,912	5,956	8.3	7.0	6.7
Middle Atlantic	7.9	82.2	80.0	606	1,769	5,766	5,808	7.8	5.9	3.4
Midwest	16.9	92.3	89.8	496	1,880	6,601	6,460	7.2	4.0	2.6
East North Central	12.9	93.1	90.5	504	1,879	6,519	6,438	7.4	4.1	2.8
West North Central	4.0	89.7	87.2	473	1,882	6,863	6,531	6.8	3.7	5.8
South	13.0	58.9	57.3	359	1,604	3,200	3,081	11.2	7.0	4.5
South Atlantic	4.7	60.4	58.7	426	1,627	3,554	3,488	10.2	7.4	6.9
East South Central	2.3	71.5	69.6	406	1,824	3,379	3,296	11.3	6.6	7.9
West South Central	6.1	53.0	51.5	289	1,504	2,858	2,685	12.0	6.7	7.4
West	12.1	45.4	44.2	243	1,576	3,310	3,529	8.5	4.7	4.1
Mountain	3.4	68.4	66.5	320	1,667	5,868	5,695	6.8	3.3	6.4
Pacific	8.7	36.4	35.4	214	1,540	2,313	2,685	9.9	6.0	4.0
Largest Populated States										
California	7.9	31.3	30.5	188	1,496	1,961	2,339	10.4	6.4	4.0
Florida	Q	29.6	28.8	230	1,627	1,227	1,263	14.4	Q	13.5
New York	3.6	80.7	78.5	647	1,718	5,900	5,893	7.7	6.4	5.3
Texas	3.6	50.0	48.6	274	1,539	2,724	2,549	11.6	6.5	11.8
Urban Status										
Urban	44.2	68.7	66.9	417	1,692	4,709	4,729	8.4	5.2	2.0
Central City	19.2	67.2	65.3	418	1,490	4,569	4,597	9.6	6.1	3.3
Suburban	25.0	70.0	68.1	416	1,848	4,816	4,830	7.6	4.7	2.5
Rural	7.2	83.8	81.5	463	1,833	5,489	5,244	8.1	4.6	6.0
Climate Zone ²										
Under 2,000 CDD and										
Over 7,000 HDD	4.4	92.7	90.2	501	1,991	8,206	7,971	5.5	3.1	5.2
5,500 to 7,000 HDD	17.6	89.8	87.3	520	1,819	6,463	6,378	7.4	4.4	2.5
4,000 to 5,499 HDD	10.3	79.0	76.9	521	1,786	4,994	4,957	8.6	5.8	3.8
Under 4,000 HDD	10.2	43.0	41.9	266	1,550	2,360	2,553	11.4	7.3	6.5
2,000 CDD or More and										
Under 4,000 HDD	9.0	45.5	44.3	266	1,467	2,547	2,552	11.9	7.1	5.5
Type of Housing Unit										
Single-Family	37.8	78.5	76.3	463	1,990	4,721	4,690	8.1	4.9	2.1
Detached	33.6	80.3	78.1	469	2,026	4,728	4,690	8.2	4.9	2.2
Attached	4.2	63.5	61.7	410	1,704	4,658	4,691	7.8	5.2	5.2
Mobile Home	1.8	55.1	53.6	309	972	5,137	5,030	10.7	6.2	6.6
Multifamily	11.8	49.1	47.7	317	939	5,082	5,120	10.0	6.6	3.5
2 to 4 Units	4.7	78.0	75.9	507	1,114	5,250	5,304	13.0	8.7	5.1
5 or More Units	7.1	29.7	28.9	190	821	4,970	4,997	7.1	4.6	3.8
Heated Floorspace (square feet)										
Fewer than 1000	13.9	45.4	44.2	281	738	4,727	4,730	12.7	8.1	2.7
1,000 to 1,999	21.8	65.2	63.5	392	1,443	4,434	4,433	9.9	6.1	2.5
2,000 to 2,999	10.1	92.9	90.4	552	2,391	5,361	5,310	7.1	4.3	2.9
3,000 or More	5.6	116.3	113.2	672	3,966	5,565	5,496	5.1	3.0	3.7
Total Number of Rooms (Excluding Bathrooms)										
1 or 2	1.5	23.0	22.4	159	518	4,644	4,645	9.3	6.6	7.2
3 to 5	23.1	54.2	52.8	330	1,147	4,675	4,673	9.8	6.2	2.6
6 to 8	23.2	83.3	81.0	493	2,099	4,905	4,877	7.9	4.8	2.2
9 or More	3.6	117.6	114.4	686	3,342	5,252	5,198	6.5	3.9	4.9

See footnotes at end of table.

Table 5.17. Natural Gas Consumption and Expenditures for Main Space Heating, per U.S. Household, 1993 (Continued)

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Natural Gas Space-Heating Intensity		RSE Row Factors
		(million Btu)	(1000 cubic feet)			1993	30-Year Average ²	Consumption (cubic feet/HDD*1000 square feet)	Expenditures (cents/HDD*1000 square feet)	
RSE Column Factors:	1.7	1.0 ¹	1.0 ¹	1.0 ¹	0.8	0.8	0.8	1.0 ¹	1.1 ¹	
Ownership of Unit										
Owned	34.5	80.5	78.3	478	2,023	4,895	4,857	7.9	4.8	2.1
Rented	17.0	51.2	49.8	314	1,082	4,663	4,688	9.9	6.2	2.9
Public Housing	1.7	37.4	36.4	233	851	4,749	4,771	9.0	5.8	7.9
Not Public Housing	15.2	52.8	51.4	323	1,109	4,653	4,678	10.0	6.3	3.1
Rent Subsidy	1.0	54.5	53.0	347	1,087	4,961	4,968	9.8	6.4	8.8
No Rent Subsidy	14.2	52.7	51.3	321	1,110	4,631	4,658	10.0	6.2	3.2
Year of Construction										
1939 or Before	12.6	90.9	88.4	549	1,707	5,459	5,410	9.5	5.9	3.4
1940 to 1949	4.3	71.4	69.5	432	1,534	4,615	4,642	9.8	6.1	4.8
1950 to 1959	8.2	70.4	68.5	433	1,639	4,267	4,299	9.8	6.2	3.9
1960 to 1969	9.0	69.1	67.2	410	1,660	4,839	4,831	8.4	5.1	3.8
1970 to 1979	7.7	59.1	57.5	333	1,660	4,722	4,660	7.3	4.2	4.0
1980 to 1984	3.5	48.0	46.7	287	1,640	4,218	4,231	6.8	4.1	6.0
1985 to 1987	2.2	57.1	55.5	345	1,912	4,477	4,496	6.5	4.0	6.4
1988 to 1990	1.8	64.1	62.4	374	2,273	5,302	5,258	5.2	3.1	6.6
1991 to 1993 ³	2.1	60.0	58.3	361	2,243	4,753	4,705	5.5	3.4	8.6
Main Space-Heating Fuel Paid by Household										
Yes	44.0	74.3	72.3	443	1,849	4,743	4,720	8.2	5.1	2.0
No	7.5	50.8	49.4	310	908	5,263	5,281	10.3	6.5	4.7
1993 Family Income										
Less than \$5,000	2.0	57.2	55.6	353	1,051	4,525	4,536	11.7	7.4	5.9
\$5,000 to \$9,999	5.2	62.3	60.6	375	1,165	4,697	4,651	11.1	6.9	3.8
\$10,000 to \$14,999	6.1	66.3	64.5	396	1,299	4,874	4,867	10.2	6.3	4.3
\$15,000 to \$19,999	5.3	72.5	70.5	423	1,483	4,936	4,901	9.6	5.8	4.4
\$20,000 to \$24,999	4.5	67.8	66.0	406	1,477	5,135	5,093	8.7	5.4	4.4
\$25,000 to \$34,999	7.0	70.7	68.8	419	1,675	4,956	4,912	8.3	5.0	4.0
\$35,000 to \$49,999	9.2	70.8	68.9	425	1,935	4,742	4,726	7.5	4.6	2.9
\$50,000 to \$74,999	7.1	74.7	72.6	440	2,057	4,824	4,812	7.3	4.4	3.6
\$75,000 or More	5.1	86.7	84.3	534	2,654	4,531	4,588	7.0	4.4	4.6
Below Poverty Line										
100 Percent	7.3	59.9	58.3	364	1,185	4,451	4,445	11.1	6.9	3.9
125 Percent	9.7	62.0	60.3	376	1,230	4,614	4,598	10.6	6.6	3.7
150 Percent	12.4	63.0	61.3	380	1,238	4,639	4,619	10.7	6.6	3.1
Eligible for Federal Assistance ⁴										
.....	15.7	66.5	64.7	401	1,283	4,793	4,783	10.5	6.5	2.9
Age of Householder										
Under 25 Years	2.6	57.8	56.2	336	1,176	4,914	4,898	9.7	5.8	6.6
25 to 34 Years	10.9	62.2	60.6	371	1,521	4,922	4,893	8.1	5.0	3.1
35 to 44 Years	11.4	65.7	63.9	398	1,828	4,704	4,690	7.4	4.6	3.3
45 to 59 Years	11.5	73.8	71.8	438	1,937	4,747	4,744	7.8	4.8	3.0
60 Years and Over	15.0	81.0	78.8	486	1,683	4,869	4,847	9.6	5.9	2.6
Education of Householder										
Less than 13 Years	26.7	69.7	67.8	415	1,502	4,894	4,863	9.2	5.6	2.3
13 to 16 Years	17.7	71.5	69.6	426	1,878	4,752	4,742	7.8	4.8	2.7
17 Years or More	7.0	73.6	71.6	452	2,098	4,697	4,715	7.3	4.6	3.9
Race of Householder										
White	41.7	72.3	70.4	429	1,795	4,982	4,949	7.9	4.8	2.1
Black	6.7	74.4	72.3	462	1,370	4,330	4,341	12.2	7.8	4.4
Other ⁵	3.0	42.9	41.8	270	1,337	3,658	3,788	8.5	5.5	6.2

See footnotes at end of table.

Table 5.17. Natural Gas Consumption and Expenditures for Main Space Heating, per U.S. Household, 1993 (Continued)

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Natural Gas Space-Heating Intensity		RSE Row Factors
		(million Btu)	(1000 cubic feet)			1993	30-Year Average ²	Consumption (cubic feet/HDD*1000 square feet)	Expenditures (cents/HDD*1000 square feet)	
RSE Column Factors:	1.7	1.0 ¹	1.0 ¹	1.0 ¹	0.8	0.8	0.8	1.0 ¹	1.1 ¹	
Householder of Hispanic Descent										
Yes	4.1	47.4	46.1	293	1,339	3,859	3,966	8.9	5.7	5.3
No	47.4	72.9	70.9	435	1,744	4,901	4,873	8.3	5.1	2.0
Household Size										
1 Person	12.2	63.7	62.0	381	1,229	5,057	5,010	10.0	6.1	3.1
2 Persons	16.4	71.5	69.6	424	1,767	4,809	4,794	8.2	5.0	2.6
3 Persons	9.1	72.0	70.0	443	1,803	4,685	4,690	8.3	5.2	3.2
4 Persons	8.3	77.1	75.0	458	2,019	4,845	4,822	7.7	4.7	3.4
5 Persons	3.5	70.7	68.8	417	2,093	4,496	4,497	7.3	4.4	4.7
6 or More Persons	1.8	78.7	76.6	469	1,859	4,476	4,510	9.2	5.6	7.8
Main Heating Equipment Using Natural Gas										
Central Warm-Air Furnace	35.4	72.8	70.8	425	1,882	4,915	4,880	7.7	4.6	2.1
Steam or Hot-Water System	8.7	87.4	85.1	556	1,540	5,938	5,926	9.3	6.1	4.0
Floor, Wall, or Pipeless Furnace	4.3	36.8	35.8	227	1,093	2,750	2,888	11.9	7.5	5.5
Room Heater/Other	3.0	49.0	47.6	300	1,093	3,397	3,355	12.8	8.1	6.5
Age of Main Heating Equipment										
Less than 5 Years	9.7	70.4	68.5	425	1,987	4,954	4,907	7.0	4.3	3.2
5 to 9 Years	8.7	74.9	72.9	449	1,931	4,869	4,834	7.8	4.8	3.6
10 to 19 Years	11.1	75.1	73.1	443	1,807	4,854	4,822	8.3	5.1	2.9
20 Years or More	13.6	76.6	74.5	455	1,686	4,679	4,699	9.4	5.8	3.1
Don't Know	8.4	52.3	50.8	319	1,083	4,788	4,781	9.8	6.2	3.8
Secondary Heating Fuel (more than one may apply)										
No	18.0	75.8	73.7	441	2,111	4,596	4,584	7.6	4.5	2.5
Yes	33.4	68.2	66.3	414	1,497	4,939	4,918	9.0	5.6	2.4
Wood	9.7	78.2	76.1	452	2,381	4,627	4,635	6.9	4.1	3.4
Electricity	7.6	73.9	71.9	437	1,874	4,576	4,565	8.4	5.1	3.8
Kerosene .....	.9	92.4	89.9	527	2,001	5,449	5,356	8.2	4.8	9.4
Other	3.2	71.0	69.0	400	2,011	4,204	4,160	8.2	4.7	6.7
Average Natural Gas Expenditures for Main Space Heat (dollars per 1000 cf)										
Less than 4.50	2.4	100.1	97.3	396	2,014	6,773	6,486	7.1	2.9	11.1
4.50 to Less than 6	21.1	78.5	76.4	404	1,751	5,100	5,043	8.6	4.5	3.3
6 or More	27.9	62.5	60.8	441	1,657	4,434	4,471	8.3	6.0	3.3

See footnotes at end of table.

Table 5.17. Natural Gas Consumption and Expenditures for Main Space Heating, per U.S. Household, 1993 (Continued)

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Natural Gas Space-Heating Intensity		RSE Row Factors
		(million Btu)	(1000 cubic feet)			1993	30-Year Average ²	Consumption (cubic feet/HDD*1000 square feet)	Expenditures (cents/HDD*1000 square feet)	
RSE Column Factors:	1.7	1.0 ¹	1.0 ¹	1.0 ¹	0.8	0.8	0.8	1.0 ¹	1.1 ¹	
Adequacy of Insulation										
Well Insulated	18.2	72.3	70.3	431	1,933	4,945	4,905	7.4	4.5	2.7
Adequately Insulated	21.3	69.1	67.2	416	1,678	4,827	4,814	8.3	5.1	2.4
Poorly Insulated	11.9	71.8	69.9	426	1,436	4,611	4,620	10.5	6.4	3.3

¹ This factor is underestimated because it contains no error for estimating this end use.

² The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and F of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.18. Fuel Oil Consumption and Expenditures for Main Space Heating, per U.S. Household, 1993

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Fuel Oil Space-Heating Intensity		RSE Row Factors
		(million Btu)	(gallons)			1993	30-Year Average ²	Consumption (gallons/HDD*1000 square feet)	Expenditures (cents/HDD*1000 square feet)	
RSE Column Factors:	2.0	1.2 ¹	1.2 ¹	1.2 ¹	0.9	0.5	0.5	1.0 ¹	1.1 ¹	
Total U.S. Households	10.2	86.6	625	564	1,911	5,877	5,858	0.056	5.0	3.5
Census Region and Division										
Northeast	7.0	89.3	644	578	1,860	5,984	5,997	.058	5.2	4.4
New England	2.6	97.1	701	634	1,966	6,630	6,654	.054	4.9	7.4
Middle Atlantic	4.5	84.8	611	546	1,799	5,615	5,622	.061	5.4	5.0
Midwest	1.3	94.6	685	588	2,234	7,743	7,521	.040	3.4	4.4
East North Central .....	.7	100.2	725	628	2,240	7,348	7,203	.044	3.8	8.7
West North Central .....	.6	88.6	643	545	2,228	8,162	7,858	.035	3.0	5.4
South	1.5	70.2	507	485	1,835	3,830	3,818	.072	6.9	6.7
South Atlantic	1.4	70.5	509	488	1,884	3,801	3,788	.071	6.8	7.0
East South Central	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
West South Central	NC	NC	NC	NC	NC	NC	NC	NC	NC	NF
West .....	.4	74.4	537	543	2,028	5,395	5,437	.049	5.0	16.5
Mountain	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Pacific	Q	72.9	526	538	2,057	5,176	5,307	.049	5.1	19.6
Largest Populated States										
California	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Florida	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
New York	2.5	80.3	579	517	1,559	5,561	5,549	.067	6.0	7.7
Texas	NC	NC	NC	NC	NC	NC	NC	NC	NC	NF
Urban Status										
Urban	7.7	84.3	608	553	1,850	5,526	5,553	.059	5.4	4.4
Central City	2.6	61.1	441	374	1,388	5,148	5,208	.062	5.2	5.7
Suburban	5.1	96.0	692	643	2,083	5,717	5,727	.058	5.4	5.0
Rural	2.4	94.0	680	602	2,105	6,991	6,827	.046	4.1	3.7
Climate Zone ²										
Under 2,000 CDD and Over 7,000 HDD	1.9	98.2	709	618	2,127	8,089	7,935	.041	3.6	3.9
5,500 to 7,000 HDD	3.3	98.2	709	641	2,121	6,343	6,327	.053	4.8	6.2
4,000 to 5,499 HDD	4.5	77.6	559	512	1,698	5,030	5,064	.065	6.0	4.9
Under 4,000 HDD .....	.4	69.6	502	454	1,565	3,633	3,578	.088	8.0	11.8
2,000 CDD or More and Under 4,000 HDD	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Type of Housing Unit										
Single-Family	7.6	98.0	707	650	2,206	6,021	5,984	.053	4.9	3.6
Detached	7.0	99.8	720	662	2,233	6,056	6,010	.053	4.9	3.7
Attached .....	.6	76.9	555	507	1,887	5,597	5,673	.052	4.8	11.1
Mobile Home .....	.3	57.9	421	396	765	6,049	6,005	.091	8.6	14.1
Multifamily	2.3	53.0	382	305	1,084	5,385	5,426	.065	5.2	5.5
2 to 4 Units .....	.9	85.1	614	558	1,436	5,952	5,951	.072	6.5	6.3
5 or More Units	1.5	34.0	245	156	875	5,049	5,115	.055	3.5	4.1
Heated Floorspace (square feet)										
Fewer than 1000	2.2	47.5	343	282	722	5,379	5,399	.088	7.3	5.1
1,000 to 1,999	3.7	80.7	582	532	1,462	5,782	5,763	.069	6.3	3.9
2,000 to 2,999	2.8	105.8	763	697	2,431	6,204	6,169	.051	4.6	4.7
3,000 or More	1.5	123.3	889	814	3,804	6,239	6,192	.037	3.4	5.5
Total Number of Rooms (Excluding Bathrooms)										
1 or 2 .....	.4	30.4	219	181	577	5,018	5,090	.076	6.2	10.5
3 to 5	4.1	67.4	487	422	1,314	5,827	5,821	.064	5.5	4.5
6 to 8	4.9	97.6	705	648	2,260	5,952	5,922	.052	4.8	3.5
9 or More .....	.9	137.6	993	917	3,282	6,038	5,986	.050	4.6	7.5

See footnotes at end of table.

Table 5.18. Fuel Oil Consumption and Expenditures for Main Space Heating, per U.S. Household, 1993 (Continued)

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Fuel Oil Space-Heating Intensity		RSE Row Factors
		(million Btu)	(gallons)			1993	30-Year Average ²	Consumption (gallons/HDD*1000 square feet)	Expenditures (cents/HDD*1000 square feet)	
RSE Column Factors:	2.0	1.2 ¹	1.2 ¹	1.2 ¹	0.9	0.5	0.5	1.0 ¹	1.1 ¹	
Ownership of Unit										
Owned	7.3	98.4	710	653	2,179	6,044	6,009	0.054	5.0	3.6
Rented	2.9	56.9	411	340	1,235	5,456	5,477	.061	5.0	4.8
Public Housing	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Not Public Housing	2.8	57.5	415	346	1,230	5,484	5,502	.062	5.1	4.9
Rent Subsidy .....	.2	54.5	393	311	909	5,023	5,088	.086	6.8	8.0
No Rent Subsidy	2.6	57.8	417	349	1,258	5,525	5,539	.060	5.0	5.3
Year of Construction										
1939 or Before	4.1	94.5	682	607	1,850	6,181	6,126	.060	5.3	4.1
1940 to 1949	1.2	77.8	561	495	1,647	5,539	5,529	.062	5.4	7.8
1950 to 1959	1.8	91.2	659	623	2,020	5,588	5,619	.058	5.5	8.1
1960 to 1969	1.2	73.7	532	484	1,879	5,203	5,246	.054	5.0	10.5
1970 to 1979	1.2	82.7	596	532	2,044	5,995	5,972	.049	4.3	7.6
1980 to 1984 .....	.3	62.4	450	411	1,883	5,975	5,959	.040	3.7	7.7
1985 to 1987 .....	.2	82.1	592	535	2,661	6,016	5,984	.037	3.3	17.8
1988 to 1990 .....	.2	78.3	565	510	1,961	6,923	6,818	.042	3.8	11.5
1991 to 1993 ³ .....	.1	78.3	565	518	2,772	6,434	6,391	.032	2.9	11.2
Fuel Oil Paid by Household										
Yes	8.2	96.5	696	640	2,132	6,024	5,989	.054	5.0	3.5
No	2.0	45.8	330	249	991	5,267	5,313	.063	4.8	5.9
1993 Family Income										
Less than \$5,000 .....	.4	63.4	458	395	1,384	5,649	5,630	.059	5.1	14.0
\$5,000 to \$9,999 .....	.9	74.0	534	472	1,364	5,723	5,712	.068	6.0	6.7
\$10,000 to \$14,999 .....	.9	87.9	636	559	1,587	6,026	5,969	.066	5.8	8.3
\$15,000 to \$19,999 .....	.9	89.7	648	572	1,531	5,933	5,909	.071	6.3	7.6
\$20,000 to \$24,999 .....	.9	81.9	591	515	1,744	6,052	6,026	.056	4.9	7.4
\$25,000 to \$34,999	1.6	86.1	621	564	2,027	5,888	5,875	.052	4.7	8.2
\$35,000 to \$49,999	2.2	79.6	574	518	2,003	5,995	5,965	.048	4.3	4.9
\$50,000 to \$74,999	1.5	96.3	695	641	2,214	5,872	5,843	.053	4.9	4.4
\$75,000 or More .....	.9	112.9	814	771	2,625	5,443	5,499	.057	5.4	8.3
Below Poverty Line										
100 Percent	1.2	65.6	473	406	1,393	5,605	5,586	.061	5.2	7.0
125 Percent	1.7	67.7	489	419	1,397	5,714	5,704	.061	5.2	6.3
150 Percent	2.2	70.6	510	443	1,428	5,721	5,698	.062	5.4	5.5
Eligible for Federal Assistance ⁴										
.....	2.8	77.7	561	491	1,480	5,846	5,814	.065	5.7	4.9
Age of Householder										
Under 25 Years .....	.4	49.0	354	313	1,289	5,234	5,224	.052	4.6	17.3
25 to 34 Years	1.5	76.0	549	475	1,607	6,135	6,079	.056	4.8	5.3
35 to 44 Years	2.3	75.4	544	497	1,949	5,960	5,953	.047	4.3	4.7
45 to 59 Years	2.5	89.4	645	587	1,951	5,792	5,777	.057	5.2	4.3
60 Years and Over	3.5	100.5	726	658	2,055	5,839	5,825	.060	5.5	5.1
Education of Householder										
Less than 13 Years	5.7	79.8	576	510	1,716	5,882	5,860	.057	5.1	3.9
13 to 16 Years	3.4	91.8	663	607	2,089	5,926	5,909	.054	4.9	4.8
17 Years or More	1.1	105.4	760	710	2,355	5,698	5,692	.057	5.3	8.3
Race of Householder										
White	9.0	89.7	648	586	1,993	6,019	5,989	.054	4.9	3.6
Black .....	.8	70.4	507	459	1,380	4,803	4,879	.077	6.9	6.4
Other ⁵ .....	.4	49.0	354	287	1,132	4,859	4,902	.064	5.2	10.5

See footnotes at end of table.

Table 5.18. Fuel Oil Consumption and Expenditures for Main Space Heating, per U.S. Household, 1993 (Continued)

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Fuel Oil Space-Heating Intensity		RSE Row Factors
		(million Btu)	(gallons)			1993	30-Year Average ²	Consumption (gallons/HDD*1000 square feet)	Expenditures (cents/HDD*1000 square feet)	
RSE Column Factors:	2.0	1.2 ¹	1.2 ¹	1.2 ¹	0.9	0.5	0.5	1.0 ¹	1.1 ¹	
Householder of Hispanic Descent										
Yes	0.9	59.3	428	349	1,323	5,182	5,235	0.062	5.1	7.0
No	9.3	89.3	644	585	1,968	5,944	5,918	.055	5.0	3.5
Household Size										
1 Person	2.3	79.3	573	522	1,449	5,835	5,834	.068	6.2	5.8
2 Persons	3.3	89.9	649	580	2,003	5,848	5,826	.055	5.0	5.1
3 Persons	1.9	91.2	658	599	2,078	5,988	5,972	.053	4.8	4.7
4 Persons	1.6	86.6	625	570	2,020	5,757	5,715	.054	4.9	5.2
5 Persons .....	.7	84.0	606	538	2,015	6,111	6,107	.049	4.4	9.2
6 or More Persons .....	.4	84.1	607	537	2,307	5,891	5,846	.045	4.0	9.3
Main Heating Equipment Using Fuel Oil										
Central Warm-Air Furnace	4.5	83.2	600	550	2,025	6,051	5,999	.049	4.5	4.4
Steam or Hot-Water System	5.3	91.0	657	585	1,865	5,760	5,770	.061	5.4	4.1
Other .....	.4	64.9	471	437	1,185	5,446	5,417	.073	6.8	12.6
Age of Main Heating Equipment										
Less than 5 Years	1.8	97.6	704	648	2,186	6,135	6,100	.053	4.8	6.0
5 to 9 Years	1.3	91.0	657	595	1,952	6,044	5,994	.056	5.0	5.2
10 to 19 Years	2.1	88.9	641	587	2,187	6,128	6,100	.048	4.4	4.9
20 Years or More	3.4	94.4	681	621	1,926	5,739	5,724	.062	5.6	4.2
Don't Know	1.6	51.7	373	300	1,182	5,427	5,454	.058	4.7	6.9
Secondary Heating Fuel (more than one may apply)										
No	3.8	94.5	682	630	2,298	5,866	5,824	.051	4.7	4.5
Yes	6.3	81.8	591	525	1,677	5,883	5,878	.060	5.3	3.7
Wood	2.3	100.8	727	686	2,606	5,853	5,841	.048	4.5	5.7
Electricity	1.5	86.9	627	579	2,156	5,709	5,669	.051	4.7	5.5
Kerosene .....	.5	80.0	578	519	1,895	5,579	5,472	.055	4.9	10.0
Other .....	.2	95.3	687	636	2,165	5,788	5,653	.055	5.1	13.5
Average Fuel Oil Expenditures for Main Space Heat (dollars per gallon)										
Less than .95	7.9	82.2	593	506	1,830	5,998	5,964	.054	4.6	4.3
1.10 or More .....	.4	98.3	709	835	2,039	4,837	4,884	.072	8.5	7.7

See footnotes at end of table.

Table 5.18. Fuel Oil Consumption and Expenditures for Main Space Heating, per U.S. Household, 1993 (Continued)

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Fuel Oil Space-Heating Intensity		RSE Row Factors
		(million Btu)	(gallons)			1993	30-Year Average ²	Consumption (gallons/HDD*1000 square feet)	Expenditures (cents/HDD*1000 square feet)	
RSE Column Factors:	2.0	1.2 ¹	1.2 ¹	1.2 ¹	0.9	0.5	0.5	1.0 ¹	1.1 ¹	
Adequacy of Insulation										
Well Insulated	4.0	88.6	639	577	2,143	6,055	6,028	0.049	4.4	4.3
Adequately Insulated	4.1	86.5	624	567	1,821	5,819	5,810	.059	5.3	4.4
Poorly Insulated	2.2	83.2	600	537	1,655	5,659	5,637	.064	5.7	5.1

¹ This factor is underestimated because it contains no error for estimating this end use.

² The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

NC = No cases in sample.

NF = No applicable RSE row factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and G of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.19. Liquefied Petroleum Gas Consumption and Expenditures for Main Space Heating, per U.S. Household, 1993

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Liquefied Petroleum Gas Space-Heating Intensity		RSE Row Factors
		(million Btu)	(gallons)			1993	30-Year Average ²	Consumption (gallons/HDD*1000 square feet)	Expenditures (cents/HDD*1000 square feet)	
RSE Column Factors:	1.9	1.0 ¹	1.0 ¹	0.9 ¹	0.8	0.8	0.8	1.0 ¹	1.1 ¹	
Total U.S. Households	4.6	60.0	657	560	1,641	4,848	4,664	0.083	7.0	5.3
Census Region and Division										
Northeast .....	.2	52.9	579	608	1,389	6,951	6,960	.060	6.3	13.4
New England .....	.1	52.9	580	592	1,174	6,865	6,928	.072	7.3	18.9
Middle Atlantic .....	.1	52.8	579	629	1,673	7,065	7,003	Q	Q	16.0
Midwest	1.8	86.5	947	726	2,098	6,929	6,642	.065	5.0	5.8
East North Central .....	.9	95.9	1,051	817	2,155	6,761	6,512	.072	5.6	7.9
West North Central .....	.9	76.4	836	628	2,037	7,109	6,781	.058	4.3	8.5
South	2.3	39.0	427	408	1,326	2,870	2,751	.112	10.7	7.4
South Atlantic	1.1	40.9	448	461	1,379	2,739	2,722	.119	12.2	11.0
East South Central .....	.7	40.7	446	410	1,275	3,411	3,142	.102	9.4	10.6
West South Central .....	.5	32.1	351	286	1,276	2,393	2,257	.115	9.4	20.9
West .....	.4	65.9	721	669	1,532	5,817	5,613	.081	7.5	14.2
Mountain .....	.3	72.9	799	673	1,463	6,046	5,742	.090	7.6	18.3
Pacific .....	.1	44.6	489	657	1,739	5,129	5,223	.055	7.4	27.7
Largest Populated States										
California .....	.1	23.8	261	331	1,493	4,400	4,469	.040	5.0	15.2
Florida .....	.3	17.1	188	248	1,067	937	1,027	.188	Q	25.8
New York	Q	58.8	643	638	2,165	7,720	7,545	Q	Q	16.1
Texas .....	.4	27.7	304	249	1,277	2,194	2,064	.108	8.9	28.3
Urban Status										
Urban	1.6	51.6	565	512	1,711	4,420	4,282	.075	6.8	9.8
Central City .....	.2	43.1	472	470	1,150	3,741	3,702	.110	10.9	23.3
Suburban	1.4	53.0	580	519	1,800	4,528	4,374	.071	6.4	10.1
Rural	3.0	64.3	704	585	1,605	5,070	4,862	.087	7.2	5.9
Climate Zone ²										
Under 2,000 CDD and										
Over 7,000 HDD .....	.7	77.5	849	691	2,199	8,196	7,812	.047	3.8	8.2
5,500 to 7,000 HDD	1.1	85.9	941	743	1,906	6,883	6,688	.072	5.7	11.8
4,000 to 5,499 HDD .....	.7	78.1	855	709	1,894	5,322	5,025	.085	7.0	14.0
Under 4,000 HDD .....	.9	46.1	505	485	1,274	3,378	3,195	.117	11.3	10.0
2,000 CDD or More and										
Under 4,000 HDD	1.3	31.0	339	325	1,278	2,319	2,301	.115	11.0	12.2
Type of Housing Unit										
Single-Family	3.3	66.4	727	609	1,929	4,907	4,721	.077	6.4	6.2
Detached	3.3	66.6	729	610	1,935	4,869	4,680	.077	6.5	6.3
Attached	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Mobile Home	1.2	43.8	479	436	886	4,659	4,459	.116	10.6	6.9
Multifamily	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
2 to 4 Units	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
5 or More Units	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Heated Floorspace (square feet)										
Fewer than 1000	1.5	42.4	464	431	766	4,338	4,186	.140	13.0	7.0
1,000 to 1,999	1.8	54.5	597	518	1,392	4,426	4,250	.097	8.4	7.2
2,000 to 2,999 .....	.8	76.4	837	712	2,484	5,595	5,360	.060	5.1	8.8
3,000 or More .....	.5	103.5	1,133	838	3,693	6,627	6,397	.046	3.4	8.4
Total Number of Rooms (Excluding Bathrooms)										
1 or 2	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
3 to 5	2.4	47.0	515	454	1,107	4,612	4,420	.101	8.9	7.2
6 to 8	1.9	73.3	803	670	2,137	5,034	4,858	.075	6.2	7.4
9 or More .....	.2	90.5	991	791	3,210	5,808	5,621	.053	4.2	13.0

See footnotes at end of table.

Table 5.19. Liquefied Petroleum Gas Consumption and Expenditures for Main Space Heating, per U.S. Household, 1993 (Continued)

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Liquefied Petroleum Gas Space-Heating Intensity		RSE Row Factors
		(million Btu)	(gallons)			1993	30-Year Average ²	Consumption (gallons/HDD*1000 square feet)	Expenditures (cents/HDD*1000 square feet)	
RSE Column Factors:	1.9	1.0 ¹	1.0 ¹	0.9 ¹	0.8	0.8	0.8	1.0 ¹	1.1 ¹	
Ownership of Unit										
Owned	3.9	61.1	669	565	1,728	4,846	4,659	0.080	6.7	5.8
Rented .....	.8	54.5	597	534	1,196	4,860	4,689	.103	9.2	9.0
Public Housing	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Not Public Housing .....	.7	54.5	596	533	1,206	4,794	4,614	.103	9.2	9.1
Rent Subsidy	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Rent Subsidy .....	.7	53.4	585	526	1,186	4,721	4,547	.105	9.4	9.5
Year of Construction										
1939 or Before	1.1	86.1	942	748	1,992	5,922	5,668	.080	6.3	6.3
1940 to 1949 .....	.4	66.2	725	636	1,243	4,025	3,851	.145	12.7	17.1
1950 to 1959 .....	.5	39.8	436	393	1,373	3,889	3,750	.082	7.4	17.0
1960 to 1969 .....	.6	62.8	687	594	1,760	4,485	4,377	.087	7.5	12.2
1970 to 1979 .....	.9	47.1	515	452	1,456	4,530	4,308	.078	6.8	8.9
1980 to 1984 .....	.2	42.7	468	397	1,174	5,413	5,207	.074	6.2	12.6
1985 to 1987 .....	.2	53.7	588	536	1,618	5,142	5,048	.071	6.4	14.3
1988 to 1990 .....	.2	49.3	540	512	1,700	4,711	4,547	.067	6.4	14.9
1991 to 1993 ³ .....	.3	51.1	559	504	1,893	4,596	4,467	.064	5.8	13.6
Liquefied Petroleum Gas Paid by Household										
Yes	4.5	59.9	656	559	1,648	4,829	4,641	.082	7.0	5.4
No	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1993 Family Income										
Less than \$5,000 .....	.2	56.7	621	568	1,094	3,827	3,730	.148	13.6	20.5
\$5,000 to \$9,999 .....	.6	49.8	545	489	1,003	3,928	3,773	.138	12.4	13.3
\$10,000 to \$14,999 .....	.6	43.2	473	424	1,266	4,597	4,314	.081	7.3	10.0
\$15,000 to \$19,999 .....	.5	58.6	642	568	1,459	5,540	5,270	.079	7.0	12.3
\$20,000 to \$24,999 .....	.6	54.1	592	511	1,330	4,832	4,646	.092	8.0	10.4
\$25,000 to \$34,999 .....	.9	60.6	664	556	1,743	4,774	4,608	.080	6.7	8.7
\$35,000 to \$49,999 .....	.6	73.0	799	648	2,382	5,512	5,410	.061	4.9	9.0
\$50,000 to \$74,999 .....	.4	81.7	895	730	2,368	5,163	4,971	.073	6.0	12.2
\$75,000 or More .....	.1	80.8	885	710	2,591	5,681	5,467	.060	4.8	13.8
Below Poverty Line										
100 Percent .....	.9	50.0	547	494	1,075	4,122	3,925	.123	11.2	10.5
125 Percent	1.3	48.1	526	468	1,104	4,285	4,055	.111	9.9	10.1
150 Percent	1.5	47.2	517	463	1,123	4,291	4,079	.107	9.6	9.3
Eligible for Federal Assistance ⁴										
.....	1.7	49.0	536	484	1,202	4,386	4,185	.102	9.2	8.7
Age of Householder										
Under 25 Years .....	.2	40.6	444	399	901	4,794	4,600	.103	9.2	17.2
25 to 34 Years .....	.8	53.6	587	516	1,445	5,309	5,040	.077	6.7	8.0
35 to 44 Years .....	.8	56.6	620	532	1,661	4,721	4,551	.079	6.8	8.7
45 to 59 Years	1.2	63.4	694	582	1,776	4,938	4,777	.079	6.6	10.5
60 Years and Over	1.6	64.8	710	600	1,719	4,626	4,459	.089	7.6	9.2
Education of Householder										
Less than 13 Years	3.3	56.7	621	531	1,534	4,671	4,481	.087	7.4	6.2
13 to 16 Years	1.1	69.4	760	639	1,909	5,401	5,218	.074	6.2	6.9
17 Years or More .....	.2	63.9	700	618	1,989	4,837	4,744	.073	6.4	12.7
Race of Householder										
White	4.3	62.6	686	581	1,691	5,017	4,826	.081	6.8	5.3
Black .....	.3	24.4	267	274	1,010	2,522	2,423	.105	10.8	14.2
Other ⁵	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table 5.19. Liquefied Petroleum Gas Consumption and Expenditures for Main Space Heating, per U.S. Household, 1993 (Continued)

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Heated Floorspace (square feet)	Annual Heating Degree-Days		Liquefied Petroleum Gas Space-Heating Intensity		RSE Row Factors
		(million Btu)	(gallons)			1993	30-Year Average ²	Consumption (gallons/HDD*1000 square feet)	Expenditures (cents/HDD*1000 square feet)	
RSE Column Factors:	1.9	1.0 ¹	1.0 ¹	0.9 ¹	0.8	0.8	0.8	1.0 ¹	1.1 ¹	
Householder of Hispanic Descent										
Yes	0.2	34.7	380	358	1,363	3,196	3,180	0.087	8.2	21.4
No	4.4	61.1	669	569	1,653	4,921	4,729	.082	7.0	5.2
Household Size										
1 Person .....	.8	56.4	617	531	1,107	4,458	4,299	.125	10.8	10.2
2 Persons	1.8	61.4	673	579	1,777	4,685	4,537	.081	7.0	8.4
3 Persons .....	.8	58.8	644	552	1,659	4,699	4,500	.083	7.1	9.5
4 Persons .....	.6	60.0	657	571	1,661	5,530	5,265	.071	6.2	9.2
5 Persons .....	.4	65.3	715	562	1,909	5,458	5,232	.069	5.4	9.9
6 or More Persons .....	.2	54.1	592	480	2,019	5,178	4,947	.057	4.6	23.1
Main Heating Equipment Using LPG										
Central Warm-Air Furnace	2.9	66.6	730	615	1,806	5,491	5,284	.074	6.2	5.0
Room Heater/Other	1.7	48.2	528	462	1,348	3,708	3,562	.106	9.2	11.6
Age of Main Heating Equipment										
Less than 5 Years	1.7	60.3	660	563	1,747	4,923	4,706	.077	6.5	7.0
5 to 9 Years	1.1	55.1	604	510	1,656	5,204	5,037	.070	5.9	8.0
10 to 19 Years .....	.8	65.9	721	615	1,507	4,547	4,382	.105	9.0	8.8
20 Years or More .....	.7	65.2	714	598	1,675	4,481	4,332	.095	8.0	12.9
Don't Know .....	.2	43.8	479	460	1,128	4,693	4,484	.091	8.7	15.1
Secondary Heating Fuel (more than one may apply)										
No	1.9	58.5	641	549	1,782	4,762	4,566	.075	6.5	6.6
Yes	2.7	61.1	669	568	1,538	4,911	4,735	.089	7.5	6.4
Wood .....	.7	65.5	717	626	2,420	5,345	5,119	.055	4.8	9.0
Electricity	1.0	51.9	569	493	1,599	4,462	4,272	.080	6.9	8.4
Kerosene .....	.3	61.2	670	539	1,640	4,994	4,839	.082	6.6	12.5
Other .....	.3	85.8	940	810	2,340	4,589	4,364	.087	7.5	16.0
Average LPG Expenditures for Main Space Heat (dollars per gallon)										
Less than .75 .....	.8	86.2	944	608	2,096	6,888	6,508	.065	4.2	10.0
1.00 or More	1.1	33.9	371	431	1,229	3,064	3,034	.099	11.4	8.5
Adequacy of Insulation										
Well Insulated	1.6	58.4	640	535	1,903	4,918	4,754	.068	5.7	9.0
Adequately Insulated	1.8	61.5	673	568	1,663	5,090	4,901	.080	6.7	7.3
Poorly Insulated	1.3	59.8	655	579	1,285	4,418	4,214	.115	10.2	8.3

¹ This factor is underestimated because it contains no error for estimating this end use.

² The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

NF = No applicable RSE row factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-D of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.20. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, U.S. Households, 1993

Characteristics	Electricity Used for All Air Conditioning			Electricity Used for Central Air Conditioning ²									RSE Row Factors
	Households (million)	Total Consumption (quadrillion Btu)	Total Expenditures (billion dollars)	Households (million)	per Household								
					Consumption		Expenditures (dollars)	Cooled Floor-space (square feet)	Annual Cooling Degree-Days		Electric Air-Conditioning Intensity		
					(million Btu)	(kWh)			1993	30-Year Average ³	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factors:	1.0	1.4 ¹	1.4 ¹	1.4	0.9 ¹	0.9 ¹	1.0 ¹	0.7	0.8	0.8	0.8 ¹	0.8 ¹	
Total U.S. Households	63.9	0.46	11.30	41.0	9.1	2,667	222	2,058	1,691	1,598	0.77	6.4	2.2
Census Region and Division													
Northeast	10.9	.04	1.39	3.8	6.3	1,848	218	2,508	896	690	.82	9.7	6.5
New England	2.1	.01	.23	.6	6.7	1,951	209	2,746	730	521	.97	10.4	11.9
Middle Atlantic	8.8	.03	1.15	3.2	6.2	1,829	220	2,465	927	721	.80	9.6	7.3
Midwest	16.4	.08	1.90	10.5	6.0	1,772	143	2,372	851	873	.88	7.1	4.4
East North Central	10.8	.05	1.25	6.7	5.8	1,713	146	2,379	817	800	.88	7.5	5.6
West North Central	5.6	.03	.64	3.8	6.4	1,875	139	2,360	910	1,002	.87	6.5	6.3
South	29.4	.31	7.11	21.5	12.0	3,509	277	1,883	2,261	2,117	.82	6.5	2.7
South Atlantic	15.0	.14	3.45	11.1	10.9	3,186	262	1,895	2,283	2,071	.74	6.1	4.1
East South Central	5.3	.05	.97	3.4	11.7	3,439	216	2,080	1,793	1,671	.92	5.8	5.0
West South Central	9.2	.11	2.69	6.9	13.9	4,063	331	1,765	2,457	2,412	.94	7.6	4.7
West	7.1	.03	.91	5.1	5.5	1,597	162	1,811	1,624	1,587	.54	5.5	7.4
Mountain	2.1	.01	.36	1.7	7.9	2,310	212	1,634	2,816	2,690	.50	4.6	11.1
Pacific	5.1	.02	.55	3.5	4.3	1,259	138	1,895	1,059	1,063	.63	6.9	8.9
Largest Populated States													
California	4.4	.02	.53	3.2	4.3	1,273	146	1,824	1,134	1,135	.62	7.0	8.7
Florida	5.1	.06	1.44	4.4	12.4	3,634	302	1,798	3,145	3,072	.64	5.3	5.1
New York	3.9	.01	.50	1.1	5.9	1,732	248	2,610	806	633	.82	11.8	15.1
Texas	5.8	.07	1.65	4.4	13.9	4,062	330	1,838	2,608	2,564	.85	6.9	6.6
Urban Status													
Urban	50.2	.36	9.16	33.5	9.1	2,666	227	2,040	1,737	1,628	.75	6.4	2.6
Central City	18.9	.13	3.18	11.4	8.9	2,595	218	1,651	1,995	1,884	.79	6.6	4.1
Suburban	31.3	.24	5.98	22.1	9.2	2,703	232	2,240	1,604	1,497	.75	6.5	2.9
Rural	13.7	.10	2.14	7.4	9.1	2,673	201	2,137	1,488	1,461	.84	6.3	4.1
Climate Zone ³													
Under 2,000 CDD and													
Over 7,000 HDD	4.0	.01	.26	2.2	4.0	1,162	87	2,727	456	564	.94	7.0	12.7
5,500 to 7,000 HDD	15.4	.06	1.66	8.7	5.6	1,650	143	2,239	815	780	.90	7.8	7.3
4,000 to 5,499 HDD	16.0	.10	2.57	9.0	8.4	2,448	210	2,333	1,292	1,134	.81	7.0	6.4
Under 4,000 HDD	10.3	.08	1.84	6.8	8.8	2,587	213	1,874	1,630	1,467	.85	7.0	8.1
2,000 CDD or More and													
Under 4,000 HDD	18.1	.21	4.98	14.2	12.6	3,702	305	1,756	2,702	2,615	.78	6.4	4.3
Type of Housing Unit													
Single-Family	45.1	.36	8.85	30.4	10.0	2,923	242	2,429	1,629	1,544	.74	6.1	2.7
Detached	39.9	.33	7.90	26.5	10.2	2,975	245	2,514	1,618	1,539	.73	6.0	2.8
Attached	5.2	.04	.95	3.8	8.7	2,562	220	1,836	1,706	1,576	.82	7.0	8.1
Mobile Home	3.7	.03	.82	2.3	11.2	3,287	267	1,090	1,697	1,656	1.78	14.4	7.8
Multifamily	15.1	.06	1.63	8.3	5.3	1,567	139	968	1,917	1,778	.84	7.5	5.9
2 to 4 Units	3.9	.02	.43	1.3	6.6	1,921	176	1,176	1,874	1,776	.87	8.0	9.9
5 or More Units	11.2	.04	1.20	7.0	5.1	1,501	132	930	1,925	1,779	.84	7.4	6.7

See footnotes at end of table.

Table 5.20. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, U.S. Households, 1993 (Continued)

Characteristics	Electricity Used for All Air Conditioning			Electricity Used for Central Air Conditioning ²									RSE Row Factors
	Households (million)	Total Consumption (quadrillion Btu)	Total Expenditures (billion dollars)	Households (million)	per Household								
					Consumption		Expenditures (dollars)	Cooled Floorspace (square feet)	Annual Cooling Degree-Days		Electric Air-Conditioning Intensity		
					(million Btu)	(kWh)			1993	30-Year Average ³	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factors:	1.0	1.4 ¹	1.4 ¹	1.4	0.9 ¹	0.9 ¹	1.0 ¹	0.7	0.8	0.8	0.8 ¹	0.8 ¹	Factors
Heated Floorspace (square feet)													
Fewer than 1,000	17.1	0.08	2.03	8.2	6.1	1,797	151	835	1,888	1,765	1.14	9.6	4.5
1,000 to 1,999	27.4	.20	5.03	18.3	9.1	2,670	222	1,674	1,808	1,718	.88	7.3	2.9
2,000 to 2,999	12.8	.11	2.60	9.3	10.2	2,991	247	2,684	1,530	1,446	.73	6.0	3.8
3,000 or More	6.6	.07	1.64	5.1	11.9	3,475	293	4,267	1,250	1,174	.65	5.5	6.2
Total Number of Rooms (Excluding Bathrooms)													
1 or 2	1.6	(*)	.13	.5	5.1	1,484	118	627	2,393	2,232	.99	7.9	14.9
3 to 5	30.3	.17	4.23	17.9	7.0	2,065	173	1,330	1,792	1,693	.87	7.3	3.6
6 to 8	27.7	.23	5.69	19.0	10.4	3,062	252	2,491	1,637	1,547	.75	6.2	3.1
9 or More	4.3	.05	1.25	3.5	13.0	3,806	330	3,670	1,366	1,286	.76	6.6	7.5
Ownership of Unit													
Owned	44.2	.36	8.78	30.1	10.0	2,932	243	2,381	1,629	1,545	.76	6.3	2.5
Rented	19.7	.10	2.52	10.8	6.6	1,930	164	1,158	1,866	1,744	.89	7.6	4.6
Public Housing	2.2	.01	.18	1.0	4.0	1,177	97	739	1,849	1,704	.86	7.1	14.0
Not Public Housing	17.5	.09	2.35	9.8	6.8	2,005	171	1,200	1,868	1,748	.89	7.6	4.7
Rent Subsidy	1.1	(*)	.11	.5	5.2	1,527	129	985	1,425	1,254	1.09	9.2	15.7
No Rent Subsidy	16.4	.09	2.24	9.3	6.9	2,031	173	1,212	1,892	1,774	.89	7.5	4.9
Year of Construction													
1939 or Before	9.9	.04	1.10	2.5	8.1	2,384	197	2,473	1,198	1,169	.80	6.6	7.3
1940 to 1949	3.8	.02	.50	1.5	6.8	1,988	166	1,989	1,287	1,195	.78	6.5	9.0
1950 to 1959	8.4	.06	1.53	4.6	8.7	2,548	236	2,208	1,591	1,488	.73	6.7	6.2
1960 to 1969	10.5	.07	1.84	6.7	9.1	2,657	223	2,112	1,587	1,499	.79	6.6	5.1
1970 to 1979	12.4	.10	2.32	8.8	9.5	2,784	224	1,900	1,796	1,706	.82	6.6	4.5
1980 to 1984	6.7	.06	1.45	5.7	9.9	2,887	239	1,805	1,952	1,844	.82	6.8	5.2
1985 to 1987	4.7	.04	1.04	4.1	9.8	2,867	240	1,985	1,870	1,743	.77	6.5	7.6
1988 to 1990	3.8	.03	.77	3.4	8.9	2,596	213	2,159	1,635	1,537	.74	6.0	6.1
1991 to 1993 ⁴	3.8	.03	.74	3.6	8.6	2,526	205	2,281	1,710	1,626	.65	5.3	8.6
Electric Air-Conditioning Paid by Household													
Yes	62.6	.45	11.15	39.6	9.2	2,709	226	2,094	1,689	1,597	.77	6.4	2.3
No	1.3	.01	.15	1.3	4.8	1,420	115	978	1,760	1,632	.82	6.7	14.5
1993 Family Income													
Less than \$5,000	2.4	.01	.33	1.1	6.7	1,963	168	1,098	1,974	1,829	.91	7.7	11.7
\$5,000 to \$9,999	6.1	.03	.68	2.7	6.6	1,934	157	1,228	1,851	1,750	.85	6.9	7.7
\$10,000 to \$14,999	6.3	.03	.74	3.1	6.0	1,763	149	1,475	1,790	1,679	.67	5.7	5.7
\$15,000 to \$19,999	6.0	.04	.91	3.3	7.8	2,296	191	1,641	1,772	1,687	.79	6.6	5.9
\$20,000 to \$24,999	5.5	.04	.88	3.4	7.7	2,257	190	1,664	1,683	1,614	.81	6.8	5.5
\$25,000 to \$34,999	9.7	.07	1.73	6.7	9.1	2,653	218	1,918	1,684	1,592	.82	6.8	4.5
\$35,000 to \$49,999	12.4	.10	2.37	8.4	9.8	2,863	233	2,181	1,731	1,652	.76	6.2	3.8
\$50,000 to \$74,999	9.0	.08	1.93	7.1	10.2	3,002	245	2,449	1,604	1,511	.76	6.2	4.4
\$75,000 or More	6.5	.07	1.74	5.2	11.9	3,483	309	3,007	1,511	1,392	.77	6.8	6.2

See footnotes at end of table.

Table 5.20. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, U.S. Households, 1993 (Continued)

Characteristics	Electricity Used for All Air Conditioning			Electricity Used for Central Air Conditioning ²									RSE Row Factors
	Households (million)	Total Consumption (quadrillion Btu)	Total Expenditures (billion dollars)	Households (million)	per Household								
					Consumption		Expenditures (dollars)	Cooled Floor-space (square feet)	Annual Cooling Degree-Days		Electric Air-Conditioning Intensity		
					(million Btu)	(kWh)			1993	30-Year Average ³	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factors:	1.0	1.4 ¹	1.4 ¹	1.4	0.9 ¹	0.9 ¹	1.0 ¹	0.7	0.8	0.8	0.8 ¹	0.8 ¹	Factors
Below Poverty Line													
100 Percent	7.8	0.04	1.00	3.2	7.0	2,043	171	1,200	1,933	1,827	0.88	7.4	6.7
125 Percent	11.0	.06	1.38	4.5	6.8	1,986	167	1,282	1,810	1,709	.86	7.2	5.7
150 Percent	14.4	.08	1.92	6.4	7.4	2,161	179	1,355	1,881	1,771	.85	7.0	5.4
Eligible for Federal Assistance ⁵	17.6	.09	2.26	8.0	7.0	2,043	171	1,415	1,826	1,712	.79	6.6	5.0
Age of Householder													
Under 25 Years	3.2	.02	.49	2.2	7.2	2,125	176	1,166	1,973	1,844	.92	7.6	9.0
25 to 34 Years	13.3	.09	2.21	8.6	8.3	2,443	205	1,725	1,740	1,638	.81	6.8	3.7
35 to 44 Years	14.2	.12	2.86	9.6	10.2	3,000	247	2,186	1,673	1,571	.82	6.7	3.4
45 to 59 Years	14.7	.13	3.12	9.3	11.0	3,226	268	2,384	1,640	1,540	.83	6.9	3.8
60 Years and Over	18.5	.10	2.62	11.2	7.5	2,195	186	2,109	1,656	1,588	.63	5.3	4.7
Education of Householder													
Less than 13 Years	32.5	.21	4.99	17.8	8.4	2,464	201	1,831	1,644	1,559	.82	6.7	2.9
13 to 16 Years	23.2	.18	4.60	17.0	9.5	2,787	236	2,158	1,726	1,631	.75	6.3	2.9
17 Years and More	8.2	.07	1.71	6.1	10.0	2,923	250	2,439	1,732	1,620	.69	5.9	5.2
Race of Householder													
White	54.4	.40	9.79	35.8	9.2	2,696	225	2,149	1,661	1,575	.76	6.3	2.3
Black	6.7	.04	1.09	3.5	8.8	2,579	211	1,395	1,916	1,732	.96	7.9	6.4
Other ⁶	2.8	.02	.42	1.7	7.7	2,242	199	1,494	1,879	1,800	.80	7.1	10.3
Householder of Hispanic Descent													
Yes	4.3	.03	.72	2.5	8.6	2,507	219	1,732	2,040	1,934	.71	6.2	8.4
No	59.6	.43	10.58	38.4	9.1	2,678	223	2,079	1,669	1,576	.77	6.4	2.5
Household Size													
1 Person	14.9	.07	1.78	8.9	6.1	1,791	153	1,471	1,729	1,631	.70	6.0	4.1
2 Persons	21.8	.15	3.77	14.5	8.8	2,579	212	2,132	1,667	1,569	.73	6.0	3.2
3 Persons	11.1	.09	2.23	7.1	10.3	3,032	252	2,050	1,769	1,669	.84	6.9	3.9
4 Persons	9.9	.08	2.08	6.6	10.8	3,153	263	2,395	1,632	1,557	.81	6.7	3.8
5 Persons	4.2	.04	.96	2.8	11.2	3,283	274	2,527	1,600	1,515	.81	6.8	5.9
6 or More Persons	1.9	.02	.48	1.1	13.8	4,043	350	2,624	1,795	1,712	.86	7.4	10.9
Cooling Degree-Days (CDD)-1993													
2,000 or More	17.0	.20	4.84	13.5	13.0	3,815	314	1,726	2,852	2,722	.77	6.4	4.3
1,000 to 1,999	24.4	.18	4.30	16.0	8.8	2,578	210	2,070	1,455	1,323	.86	7.0	5.0
500 to 999	17.4	.07	1.89	8.5	5.5	1,620	152	2,398	764	714	.88	8.3	5.6
Fewer than 500	5.0	.01	.28	3.0	3.2	927	75	2,531	342	498	1.07	8.6	7.5
Average Electricity Expenditures (cents per kWh)													
Less than 6	5.1	.04	.64	3.4	9.9	2,890	158	2,372	1,235	1,182	.99	5.4	9.2
6 to Less than 9	33.2	.29	6.60	23.0	10.4	3,062	237	2,057	1,865	1,772	.80	6.2	3.6
9 or More	25.6	.13	4.06	14.5	6.8	1,991	215	1,987	1,524	1,418	.66	7.1	4.7

See footnotes at end of table.

Table 5.20. Electricity Consumption and Expenditures for All Air Conditioning and Central Air Conditioning, U.S. Households, 1993 (Continued)

Characteristics	Electricity Used for All Air Conditioning			Electricity Used for Central Air Conditioning ²									RSE Row Factors
	Households (million)	Total Consumption (quadrillion Btu)	Total Expenditures (billion dollars)	Households (million)	per Household								
					Consumption		Expenditures (dollars)	Cooled Floor-space (square feet)	Annual Cooling Degree-Days		Electric Air-Conditioning Intensity		
					(million Btu)	(kWh)			1993	30-Year Average ³	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factors:	1.0	1.4 ¹	1.4 ¹	1.4	0.9 ¹	0.9 ¹	1.0 ¹	0.7	0.8	0.8	0.8 ¹	0.8 ¹	
Number of Rooms Air Conditioned													
1 to 3	18.5	0.05	1.40	4.1	4.5	1,327	114	753	1,923	1,793	0.92	7.9	4.8
4 to 6	31.1	Q	5.77	23.7	8.3	2,439	202	1,730	1,732	1,647	.81	6.7	3.0
7 or More	14.4	.17	4.13	13.2	11.9	3,487	292	3,044	1,547	1,450	.74	6.2	3.8
Frequency of Use of Air Conditioning ⁷													
Only a Few Times	25.3	.07	1.95	12.8	3.9	1,154	104	2,020	1,295	1,246	.44	4.0	3.2
Quite a Bit	14.7	.10	2.62	8.9	8.1	2,369	208	2,085	1,517	1,414	.75	6.6	3.9
All Summer	23.8	.28	6.72	19.3	13.0	3,809	308	2,070	2,035	1,916	.90	7.3	2.7
Age of Air Conditioning Equipment ⁷													
Less than 5 Years	18.8	.13	3.19	11.7	8.6	2,506	209	2,223	1,655	1,564	.68	5.7	3.7
5 to 9 Years	17.4	.13	3.20	10.4	10.0	2,932	242	2,208	1,703	1,603	.78	6.4	4.1
10 or More Years	19.6	.15	3.68	13.3	9.6	2,800	236	2,156	1,628	1,548	.80	6.7	3.9
Don't Know	7.2	.05	1.12	4.7	8.0	2,354	195	1,224	1,971	1,855	.98	8.1	5.9

¹ This factor is underestimated because it contains no error for estimating this end use.

² An estimated 1.7 million households have a central air conditioner and one or more room air conditioners. These households are included only under central air conditioners and not included under room air conditioners.

³ The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

⁴ Does not include all new construction for 1993.

⁵ Below 150 percent of poverty line or 60 percent of median State income.

⁶ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

⁷ If a household has both a central and room air conditioner then the usage and age of the equipment is presented only for the central unit.

(*) = Value rounds to zero in the units displayed.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • This table reflects only those households that used their air conditioning equipment. • See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.21. Electricity Consumption and Expenditures for Room Air Conditioning, per U.S. Household, 1993

Characteristics	House holds (million)	Consumption		Expenditures (dollars)	Cooled Floorspace (square feet)	Annual Cooling Degree-Days		Electric Air-Conditioning Intensity		RSE Row Factors
		(million Btu)	(kWh)			1993	30-Year Average ²	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factors:	1.3	1.1 ¹	1.1 ¹	1.1 ¹	0.9	0.8	0.9	0.9 ¹	1.0 ¹	
Total U.S. Households	22.9	3.6	1,067	95	954	1,296	1,186	0.86	7.7	3.6
Census Region and Division										
Northeast	7.1	2.1	624	78	909	951	748	.72	9.0	5.0
New England	1.5	2.1	606	69	911	770	556	.86	9.9	8.2
Middle Atlantic	5.6	2.1	629	80	908	1,000	800	.69	8.8	5.9
Midwest	5.9	2.7	783	66	1,092	775	783	.93	7.8	5.1
East North Central	4.1	2.7	783	68	1,132	768	729	.90	7.8	6.7
West North Central	1.8	2.7	785	60	1,001	792	906	.99	7.6	5.2
South	7.9	6.3	1,838	146	945	2,083	1,931	.93	7.4	4.9
South Atlantic	3.8	5.7	1,683	140	880	2,061	1,810	.93	7.7	7.7
East South Central	1.8	6.5	1,904	125	1,075	1,731	1,626	1.02	6.7	6.4
West South Central	2.3	7.0	2,044	172	950	2,397	2,370	.90	7.6	8.4
West	2.0	1.4	417	41	749	928	974	.60	5.9	9.9
Mountain .....	.4	1.4	406	33	674	846	988	.71	5.7	22.9
Pacific	1.6	1.4	420	43	769	951	971	.57	5.9	11.2
Largest Populated States										
California	1.2	1.5	443	49	765	1,030	1,033	.56	6.2	11.9
Florida .....	.8	6.3	1,841	159	720	3,651	3,433	.70	6.0	15.7
New York	2.8	1.8	518	81	736	1,042	861	.67	10.6	5.4
Texas	1.4	6.3	1,843	152	854	2,589	2,568	.83	6.9	12.1
Urban Status										
Urban	16.6	3.3	969	92	908	1,314	1,171	.81	7.7	4.5
Central City	7.5	3.3	962	93	788	1,448	1,295	.84	8.2	6.2
Suburban	9.1	3.3	975	91	1,007	1,204	1,069	.80	7.5	5.7
Rural	6.2	4.5	1,328	103	1,075	1,247	1,226	.99	7.7	5.6
Climate Zone ²										
Under 2,000 CDD and Over 7,000 HDD	1.8	1.5	438	34	1,093	420	509	.95	7.4	11.0
5,500 to 7,000 HDD	6.7	2.3	661	62	946	754	661	.93	8.6	5.3
4,000 to 5,499 HDD	7.0	3.3	981	97	1,036	1,162	1,004	.82	8.0	5.5
Under 4,000 HDD	3.5	4.7	1,372	113	846	1,601	1,462	1.01	8.3	8.8
2,000 CDD or More and Under 4,000 HDD	3.8	6.7	1,959	162	851	2,632	2,515	.88	7.3	6.8
Type of Housing Unit										
Single-Family	14.7	4.0	1,187	101	1,129	1,334	1,232	.79	6.7	4.2
Detached	13.3	4.2	1,229	104	1,169	1,334	1,245	.79	6.6	4.4
Attached	1.4	2.6	770	78	739	1,325	1,096	.79	8.0	11.4
Mobile Home	1.5	6.4	1,885	150	649	1,297	1,209	2.24	17.8	8.2
Multifamily	6.8	2.2	633	69	640	1,214	1,083	.81	8.9	5.8
2 to 4 Units	2.6	2.5	723	77	752	1,329	1,168	.72	7.7	8.4
5 or More Units	4.2	2.0	577	65	571	1,143	1,030	.88	9.9	7.1
Heated Floorspace (square feet)										
Fewer than 1,000	8.9	3.3	975	88	556	1,470	1,339	1.19	10.8	5.0
1,000 to 1,999	9.1	4.1	1,202	105	1,018	1,299	1,211	.91	7.9	4.5
2,000 to 2,999	3.4	3.2	926	87	1,315	967	869	.73	6.9	5.6
3,000 or More	1.5	3.8	1,122	96	2,124	996	858	.53	4.5	10.2
Total Number of Rooms (Excluding Bathrooms)										
1 or 2	1.1	2.0	584	64	448	1,304	1,162	1.00	10.9	9.6
3 to 5	12.4	3.5	1,018	91	776	1,333	1,223	.98	8.8	4.1
6 to 8	8.6	4.0	1,164	102	1,194	1,247	1,140	.78	6.9	4.6
9 or More .....	.8	4.8	1,403	121	1,758	1,236	1,147	.65	5.5	14.8

See footnotes at end of table.

Table 5.21. Electricity Consumption and Expenditures for Room Air Conditioning, per U.S. Household, 1993 (Continued)

Characteristics	House holds (million)	Consumption		Expenditures (dollars)	Cooled Floorspace (square feet)	Annual Cooling Degree-Days		Electric Air-Conditioning Intensity		RSE Row Factors
		(million Btu)	(kWh)			1993	30-Year Average ²	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factors:	1.3	1.1 ¹	1.1 ¹	1.1 ¹	0.9	0.8	0.9	0.9 ¹	1.0 ¹	
Ownership of Unit										
Owned	14.0	4.0	1,180	102	1,151	1,242	1,149	0.83	7.1	3.9
Rented	8.9	3.0	890	85	644	1,380	1,244	1.00	9.5	5.4
Public Housing	1.2	2.6	762	65	495	1,446	1,268	1.07	9.1	10.0
Not Public Housing	7.6	3.1	911	88	668	1,369	1,240	.99	9.6	5.8
Rent Subsidy .....	.6	2.3	686	69	603	1,289	1,183	.88	8.9	16.8
No Rent Subsidy	7.0	3.2	930	89	674	1,376	1,245	1.00	9.6	6.0
Year of Construction										
1939 or Before	7.3	3.0	889	82	1,056	1,137	1,047	.74	6.8	5.5
1940 to 1949	2.3	4.3	1,261	111	977	1,458	1,322	.89	7.8	7.7
1950 to 1959	3.7	4.4	1,283	115	970	1,451	1,315	.91	8.2	7.3
1960 to 1969	3.8	3.5	1,027	92	859	1,402	1,246	.85	7.6	7.6
1970 to 1979	3.5	3.7	1,091	95	862	1,210	1,152	1.05	9.1	7.8
1980 to 1984	1.0	3.7	1,079	92	926	1,343	1,241	.87	7.4	11.7
1985 to 1987 .....	.5	4.1	1,192	98	927	1,527	1,402	.84	6.9	16.4
1988 to 1990 .....	.4	4.5	1,308	103	791	1,045	928	1.58	12.5	16.0
1991 to 1993 ³ .....	.2	2.9	835	63	662	1,470	1,432	Q	Q	27.6
Electric Air-Conditioning Paid by Household										
Yes	21.4	3.7	1,089	97	985	1,287	1,183	.86	7.6	3.9
No	1.5	2.5	747	70	501	1,424	1,234	1.05	9.8	8.9
1993 Family Income										
Less than \$5,000	1.3	4.0	1,162	107	624	1,576	1,421	1.18	10.9	8.2
\$5,000 to \$9,999	3.4	3.1	898	78	708	1,414	1,328	.90	7.7	6.7
\$10,000 to \$14,999	3.2	3.5	1,021	87	809	1,463	1,363	.86	7.4	6.4
\$15,000 to \$19,999	2.7	4.1	1,203	101	1,002	1,463	1,345	.82	6.9	9.2
\$20,000 to \$24,999	2.1	4.3	1,263	108	888	1,320	1,226	1.08	9.2	8.2
\$25,000 to \$34,999	2.9	3.4	1,010	89	1,002	1,154	1,061	.87	7.7	6.6
\$35,000 to \$49,999	4.0	3.7	1,085	101	1,147	1,131	1,010	.84	7.8	7.1
\$50,000 to \$74,999	2.0	3.6	1,054	98	1,162	1,036	913	.88	8.2	7.4
\$75,000 or More	1.3	3.5	1,017	103	1,297	1,117	977	.70	7.1	11.8
Below Poverty Line										
100 Percent	4.7	3.8	1,107	97	671	1,581	1,467	1.04	9.1	5.1
125 Percent	6.4	3.8	1,107	96	718	1,541	1,437	1.00	8.7	4.8
150 Percent	8.0	3.9	1,130	97	744	1,535	1,430	.99	8.5	4.5
Eligible for Federal Assistance ⁴										
.....	9.6	3.6	1,061	92	779	1,454	1,346	.94	8.1	4.3
Age of Householder										
Under 25 Years	1.0	3.7	1,070	93	685	1,418	1,329	1.10	9.6	11.4
25 to 34 Years	4.7	3.7	1,081	98	791	1,307	1,203	1.05	9.5	6.0
35 to 44 Years	4.5	4.0	1,166	106	969	1,349	1,211	.89	8.1	6.4
45 to 59 Years	5.3	4.4	1,299	113	1,111	1,282	1,179	.91	7.9	5.6
60 Years and Over	7.3	2.8	827	73	971	1,250	1,146	.68	6.0	5.0
Education of Householder										
Less than 13 Years	14.6	3.8	1,119	96	883	1,382	1,271	.92	7.9	4.0
13 to 16 Years	6.2	3.4	1,002	94	1,057	1,141	1,042	.83	7.8	5.3
17 Years or More	2.1	3.1	896	88	1,149	1,152	1,016	.68	6.7	9.1
Race of Householder										
White	18.6	3.6	1,057	93	1,021	1,218	1,116	.85	7.5	4.0
Black	3.2	4.2	1,221	108	665	1,710	1,540	1.07	9.5	6.2
Other ⁵	1.1	2.7	788	81	646	1,420	1,349	.86	8.9	12.5

See footnotes at end of table.

Table 5.21. Electricity Consumption and Expenditures for Room Air Conditioning, per U.S. Household, 1993 (Continued)

Characteristics	Households (million)	Consumption		Expenditures (dollars)	Cooled Floorspace (square feet)	Annual Cooling Degree-Days		Electric Air-Conditioning Intensity		RSE Row Factors
		(million Btu)	(kWh)			1993	30-Year Average ²	Consumption (kWh/CDD*1000 square feet)	Expenditures (cents/CDD*1000 square feet)	
RSE Column Factors:	1.3	1.1 ¹	1.1 ¹	1.1 ¹	0.9	0.8	0.9	0.9 ¹	1.0 ¹	
Householder of Hispanic Descent										
Yes	1.8	3.4	996	96	695	1,873	1,740	0.77	7.4	12.2
No	21.1	3.7	1,073	95	976	1,247	1,140	.88	7.8	3.4
Household Size										
1 Person	6.0	2.7	780	71	783	1,273	1,169	.78	7.1	5.6
2 Persons	7.3	3.6	1,045	93	1,017	1,317	1,208	.78	7.0	4.8
3 Persons	4.0	4.4	1,278	112	1,059	1,306	1,170	.92	8.1	7.1
4 Persons	3.3	4.0	1,171	106	988	1,208	1,103	.98	8.9	7.3
5 Persons	1.4	5.2	1,515	127	1,014	1,442	1,356	1.04	8.7	9.0
6 or More Persons .....	.8	4.0	1,167	106	895	1,333	1,248	.98	8.8	13.0
Cooling Degree-Days (CDD)-1993										
2,000 or More	3.5	7.0	2,056	170	826	2,798	2,637	.89	7.4	6.8
1,000 to 1,999	8.4	4.2	1,220	110	937	1,453	1,296	.90	8.1	4.7
500 to 999	8.9	2.4	707	67	1,011	782	680	.89	8.5	4.8
Fewer than 500	2.1	1.1	322	27	993	327	458	.99	8.2	7.3
Average Electricity Expenditures (cents per kWh)										
Less than 6	1.6	3.9	1,143	63	909	950	960	1.32	7.3	11.2
6 to Less than 9	10.1	4.9	1,448	112	1,081	1,492	1,403	.90	7.0	5.3
9 or More	11.1	2.4	708	84	844	1,168	1,022	.72	8.5	4.8
Number of Rooms Air Conditioned										
1 Room	4.8	1.5	436	44	308	1,176	1,039	1.21	12.3	4.3
2 Rooms	5.4	2.5	718	69	606	1,274	1,155	.93	8.9	4.1
3 or More	12.7	5.0	1,456	125	1,348	1,351	1,255	.80	6.9	4.3
Frequency of Use of Air Conditioning										
Only a Few Times	12.5	1.8	524	50	920	1,107	1,016	.51	4.9	3.9
Quite a Bit	5.8	4.9	1,430	132	978	1,385	1,257	1.06	9.8	4.7
All Summer	4.6	7.2	2,097	172	1,016	1,702	1,562	1.21	9.9	5.6
Age of Air Conditioning Equipment										
Less than 5 Years	7.1	4.1	1,189	105	908	1,420	1,282	.92	8.2	5.6
5 to 9 Years	6.9	3.7	1,092	98	1,023	1,276	1,166	.84	7.5	5.0
10 or More Years	6.3	3.3	980	87	1,039	1,158	1,075	.81	7.2	5.5
Don't Know	2.5	3.0	875	79	679	1,348	1,249	.96	8.6	8.1
Number of Room Air Conditioners										
1	14.8	3.0	894	79	763	1,239	1,141	.95	8.4	3.5
2	6.0	4.2	1,237	110	1,163	1,363	1,237	.78	7.0	6.3
3 or More	2.1	6.2	1,820	164	1,718	1,512	1,362	.70	6.3	7.8

¹ This factor is underestimated because it contains no error for estimating this end use.

² The 30-year average and climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • This table reflects only those householders that used their air conditioning equipment. • See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, and E of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.22. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in U.S. Households, 1993

Characteristics	Electricity				Natural Gas				RSE Row Factors
	House- holds (million)	Total Consumed		Total Expenditures (billion dollars)	House- holds (million)	Total Consumed		Total Expenditures (billion dollars)	
		(quad- rillion Btu)	(billion kWh)			(quad- rillion Btu)	(billion cubic feet)		
RSE Column Factors:	1.0	1.1 ¹	1.1 ¹	1.1 ¹	0.9	0.9 ¹	0.9 ¹	0.9 ¹	
Total U.S. Households	37.3	0.34	99	7.58	51.5	1.31	1,276	8.08	3.5
Census Region and Division									
Northeast	4.6	.04	13	1.31	10.1	.26	252	2.04	11.7
New England	1.4	.01	4	.44	1.9	.05	46	.41	21.6
Middle Atlantic	3.1	.03	9	.86	8.3	.21	206	1.64	14.5
Midwest	6.9	.07	21	1.54	15.4	.43	418	2.31	7.8
East North Central	4.2	.04	12	.94	11.7	.33	323	1.79	8.3
West North Central	2.7	.03	8	.60	3.7	.10	95	.52	15.6
South	19.4	.17	49	3.67	12.7	.33	317	2.01	5.4
South Atlantic	12.1	.10	28	2.27	4.4	.11	107	.81	6.2
East South Central	3.9	.04	11	.70	1.8	.05	47	.27	19.1
West South Central	3.3	.03	9	.70	6.5	.17	163	.93	10.5
West	6.5	.06	17	1.07	13.3	.30	290	1.72	5.5
Mountain	1.9	.02	5	.36	3.2	.08	79	.41	12.4
Pacific	4.6	.04	12	.71	10.1	.22	210	1.31	5.9
Largest Populated States									
California	1.5	.01	3	.27	9.4	.19	189	1.19	8.0
Florida	4.9	.03	9	.78	.4	.01	7	.07	9.5
New York	1.1	.01	3	.35	3.8	.10	97	.84	32.5
Texas	2.3	.02	6	.47	3.9	.10	94	.54	16.0
Urban Status									
Urban	24.9	.21	62	4.91	45.5	1.15	1,122	7.21	4.0
Central City	8.6	.07	20	1.54	20.1	.51	496	3.27	6.6
Suburban	16.3	.15	43	3.37	25.4	.64	627	3.94	4.9
Rural	12.5	.12	37	2.68	6.0	.16	154	.88	8.9
Climate Zone ²									
Under 2,000 CDD and Over 7,000 HDD	3.8	.04	12	.91	3.8	.10	98	.54	22.1
5,500 to 7,000 HDD	7.5	.08	23	1.75	16.8	.46	447	2.72	13.1
4,000 to 5,499 HDD	8.8	.08	25	1.76	10.6	.28	273	1.95	10.8
Under 4,000 HDD 2,000 CDD or More and Under 4,000 HDD	6.3	.05	15	1.19	11.1	.25	245	1.56	13.2
10.9	.08	24	1.97	9.4	.22	213	1.30	8.5	
Total Number of Rooms (Excluding Bathrooms)									
1 or 2	1.0	.01	2	.13	1.8	.03	29	.21	16.7
3 to 5	20.4	.17	49	3.78	23.3	.54	528	3.38	4.8
6 to 8	14.3	.15	43	3.27	22.7	.62	605	3.78	4.9
9 or More	1.6	.02	5	.40	3.7	.12	114	.72	11.7
Type of Housing Unit									
Single-Family	24.5	.24	70	5.26	37.1	.97	944	5.86	4.0
Detached	21.8	.22	64	4.76	32.7	.86	837	5.14	4.4
Attached	2.6	.02	6	.50	4.4	.11	107	.72	13.1
Mobile Home	4.0	.04	11	.88	1.1	.03	26	.15	15.1
Multifamily	8.9	.06	18	1.45	13.3	.32	307	2.07	7.6
2 to 4 Units	2.5	.02	5	.43	4.9	.13	130	.89	12.3
5 or More Units	6.3	.04	13	1.02	8.4	.18	177	1.19	9.5
Heated Floorspace (square feet)									
Fewer than 1,000	12.5	.09	28	2.17	14.4	.31	304	2.00	5.4
1,000 to 1,999	15.4	.14	42	3.18	21.8	.55	539	3.39	4.9
2,000 to 2,999	6.4	.07	19	1.48	10.0	.28	275	1.73	6.2
3,000 or More	3.0	.03	10	.75	5.3	.16	158	.96	9.1

See footnotes at end of table.

Table 5.22. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in U.S. Households, 1993 (Continued)

Characteristics	Electricity				Natural Gas				RSE Row Factors
	House- holds (million)	Total Consumed		Total Expenditures (billion dollars)	House- holds (million)	Total Consumed		Total Expenditures (billion dollars)	
		(quad- rillion Btu)	(billion kWh)			(quad- rillion Btu)	(billion cubic feet)		
RSE Column Factors:	1.0	1.1 ¹	1.1 ¹	1.1 ¹	0.9	0.9 ¹	0.9 ¹	0.9 ¹	
Ownership of Unit									
Owned	24.8	0.23	69	5.22	33.1	0.86	841	5.25	4.1
Rented	12.5	.10	30	2.36	18.4	.45	436	2.83	5.4
Public Housing	1.4	.01	3	.23	1.8	.04	41	.26	18.3
Not Public Housing	11.1	.09	27	2.13	16.6	.41	395	2.57	5.7
Rent Subsidy .....	.6	(*)	1	.09	1.2	.03	28	.19	16.5
No Rent Subsidy	10.6	.09	26	2.04	15.4	.38	367	2.38	5.9
Year of Construction									
1939 or Before	5.2	.05	14	1.13	12.4	.32	307	2.01	7.9
1940 to 1949	2.1	.02	6	.41	4.2	.10	99	.65	10.2
1950 to 1959	3.6	.03	9	.74	8.3	.21	205	1.32	8.1
1960 to 1969	4.9	.04	12	.93	9.1	.22	217	1.34	7.9
1970 to 1979	9.3	.09	25	1.87	7.6	.20	190	1.14	7.0
1980 to 1984	4.5	.04	12	.93	3.7	.09	92	.57	8.5
1985 to 1987	2.9	.03	8	.60	2.3	.06	61	.39	12.2
1988 to 1990	2.7	.03	8	.59	1.8	.05	49	.30	11.6
1991 to 1993 ²	2.1	.02	5	.39	2.1	.06	56	.36	16.1
Electric Water-Heating									
Paid by Household	35.3	.33	95	7.27	--	--	--	--	3.4
Natural Gas Water-Heating									
Paid by Household	--	--	--	--	42.0	1.09	1,061	6.67	4.2
1993 Family Income									
Less than \$5,000	1.6	.01	4	.28	2.1	.05	49	.33	13.0
\$5,000 to \$9,999	4.0	.03	8	.64	5.5	.12	116	.73	8.4
\$10,000 to \$14,999	4.3	.03	10	.79	6.0	.14	134	.85	7.4
\$15,000 to \$19,999	4.2	.04	10	.79	4.9	.11	112	.69	8.6
\$20,000 to \$24,999	3.7	.03	9	.70	4.3	.10	97	.61	7.6
\$25,000 to \$34,999	6.2	.06	17	1.25	6.7	.17	165	1.03	6.3
\$35,000 to \$49,999	6.7	.07	19	1.51	9.4	.25	247	1.57	6.1
\$50,000 to \$74,999	4.4	.05	14	1.05	7.2	.21	200	1.26	6.7
\$75,000 or More	2.4	.03	7	.58	5.3	.16	156	1.01	9.9
Below Poverty Line									
100 Percent	5.4	.05	14	1.10	7.6	.20	191	1.22	7.2
125 Percent	7.5	.07	20	1.54	10.0	.26	250	1.60	6.2
150 Percent	9.8	.09	26	2.03	12.7	.32	314	2.00	5.4
Eligible for Federal Assistance⁴									
11.9	.10	30	2.36	16.0	.39	383	2.45	5.0	
Age of Householder									
Under 25 Years	2.6	.02	7	.52	2.8	.07	71	.44	12.4
25 to 34 Years	7.7	.08	22	1.73	11.0	.30	297	1.87	5.3
35 to 44 Years	8.1	.09	26	2.01	11.5	.33	319	2.04	5.1
45 to 59 Years	8.3	.09	25	1.89	11.5	.32	309	1.94	5.5
60 Years and Over	10.6	.06	18	1.43	14.6	.29	282	1.80	5.7
Education of Householder									
Less than 13 Years	20.1	.19	54	4.14	26.5	.66	647	4.07	4.5
13 to 16 Years	13.5	.12	36	2.75	18.0	.47	453	2.88	4.5
17 Years or More	3.8	.03	9	.69	7.0	.18	176	1.13	7.5

See footnotes at end of table.

Table 5.22. Total Electricity and Natural Gas Consumption and Expenditures for Water Heating in U.S. Households, 1993 (Continued)

Characteristics	Electricity				Natural Gas				RSE Row Factors
	House- holds (million)	Total Consumed		Total Expenditures (billion dollars)	House- holds (million)	Total Consumed		Total Expenditures (billion dollars)	
		(quad- rillion Btu)	(billion kWh)			(quad- rillion Btu)	(billion cubic feet)		
RSE Column Factors:	1.0	1.1 ¹	1.1 ¹	1.1 ¹	0.9	0.9 ¹	0.9 ¹	0.9 ¹	
Race of Householder									
White	32.4	0.29	86	6.55	41.1	1.02	989	6.19	4.1
Black	3.3	.03	9	.71	6.9	.21	203	1.32	9.1
Other ⁵	1.6	.01	4	.33	3.5	.09	84	.57	10.2
Householder of Hispanic Descent									
Yes	2.0	.02	5	.42	5.0	.13	122	.82	11.1
No	35.3	.32	94	7.16	46.5	1.19	1,154	7.27	3.7
Household Size									
1 Person	9.3	.04	12	.98	12.2	.20	190	1.21	5.1
2 Persons	13.2	.11	32	2.41	16.2	.37	359	2.27	4.9
3 Persons	6.2	.07	20	1.51	9.0	.26	256	1.64	6.0
4 Persons	5.0	.07	19	1.47	8.5	.28	270	1.70	5.4
5 Persons	2.6	.04	11	.83	3.6	.12	121	.76	8.3
6 or More Persons	1.0	.02	5	.38	2.1	.08	81	.51	12.3

¹ This factor is underestimated because it contains no error for estimating this end use.

² Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

(*) = Value rounds to zero in the units displayed.

-- = Not applicable.

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, E, and F of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.23. Total Fuel Oil and LPG Consumption and Expenditures for Water Heating in U.S. Households, 1993

Characteristics	Fuel Oil				Liquefied Petroleum Gas				RSE Row Factors
	House- holds (million)	Total Consumed		Total Expenditures (billion dollars)	House- holds (million)	Total Consumed		Total Expenditures (billion dollars)	
		(quad- rillion Btu)	(billion gallons)			(quad- rillion Btu)	(billion gallons)		
RSE Column Factors:	0.8	0.8 ¹	0.8 ¹	0.9 ¹	1.2	1.2 ¹	1.2 ¹	1.2 ¹	
Total U.S. Households	4.6	0.12	0.87	0.73	2.9	0.05	0.59	0.58	10.7
Census Region and Division									
Northeast	4.4	.12	.84	.70	.4	.01	.08	.11	16.5
New England	1.5	.04	.29	.26	.2	(*)	.05	.06	19.7
Middle Atlantic	2.8	.08	.55	.45	.2	(*)	.04	.05	24.9
Midwest	Q	Q	Q	Q	1.0	.02	.24	.20	18.5
East North Central	Q	Q	Q	Q	.4	.01	.12	.10	20.2
West North Central	Q	Q	Q	Q	.6	.01	.12	.10	29.5
South	Q	Q	Q	Q	1.1	.02	.19	.19	15.4
South Atlantic	Q	Q	Q	Q	.4	.01	.08	.10	23.5
East South Central	NC	NC	NC	NC	.2	(*)	.04	.04	28.4
West South Central	NC	NC	NC	NC	.4	.01	.06	.05	25.1
West	Q	Q	Q	Q	.4	.01	.08	.08	31.1
Mountain	NC	NC	NC	NC	Q	Q	Q	Q	NF
Pacific	Q	Q	Q	Q	.2	(*)	.03	.04	35.4
Largest Populated States									
California	Q	Q	Q	Q	.2	(*)	.03	.04	36.7
Florida	Q	NC	NC	NC	Q	Q	Q	Q	NF
New York	1.8	.05	.36	.28	Q	Q	Q	Q	19.6
Texas	NC	NC	NC	NC	Q	(*)	.03	.03	28.8
Urban Status									
Urban	4.2	.11	.78	.65	1.1	.02	.23	.25	12.2
Central City	1.6	.04	.29	.21	.2	(*)	.03	.04	20.6
Suburban	2.5	.07	.50	.45	.9	.02	.20	.21	13.8
Rural .....	.5	.01	.09	.08	1.8	.03	.36	.33	18.6
Climate Zone ²									
Under 2,000 CDD and									
Over 7,000 HDD .....	.6	.02	.11	.10	.6	.01	.11	.11	35.2
5,500 to 7,000 HDD	1.6	.04	.29	.26	.6	.02	.17	.15	20.2
4,000 to 5,499 HDD	2.5	.06	.47	.38	.5	Q	Q	.11	22.8
Under 4,000 HDD	Q	Q	Q	Q	.4	.01	.08	.08	28.1
2,000 CDD or More and									
Under 4,000 HDD	Q	NC	NC	NC	.8	.01	.13	.13	23.3
Total Number of Rooms (Excluding Bathrooms)									
1 or 2 .....	.3	.01	.04	.04	Q	Q	Q	Q	23.9
3 to 5	2.1	.05	.38	.29	1.4	.02	.26	.26	14.7
6 to 8	1.9	.05	.36	.33	1.3	.03	.29	.29	12.4
9 or More .....	.4	.01	.09	.08	.1	(*)	.04	.04	29.7
Type of Housing Unit									
Single-Family	2.7	.07	.53	.49	2.4	.04	.48	.47	12.7
Detached	2.5	.07	.49	.45	2.3	.04	.47	.47	12.8
Attached .....	.2	.01	.04	.04	Q	Q	Q	Q	20.9
Mobile Home	Q	Q	Q	Q	.4	.01	.09	.08	23.4
Multifamily	1.9	.05	.34	.24	.1	(*)	.02	.03	25.0
2 to 4 Units .....	.6	.02	.11	.10	Q	Q	Q	Q	36.5
5 or More Units	1.3	.03	.23	.14	Q	Q	Q	Q	13.3
Heated Floorspace (square feet)									
Fewer than 1,000	1.3	.03	.21	.15	.8	.01	.15	.15	12.9
1,000 to 1,999	1.6	.04	.31	.27	1.3	.02	.26	.26	14.9
2,000 to 2,999	1.0	.03	.21	.19	.4	.01	.09	.09	16.9
3,000 or More .....	.7	.02	.15	.13	.3	.01	.08	.08	19.6

See footnotes at end of table.

Table 5.23. Total Fuel Oil and LPG Consumption and Expenditures for Water Heating in U.S. Households, 1993 (Continued)

Characteristics	Fuel Oil				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(quad-rillion Btu)	(billion gallons)			(quad-rillion Btu)	(billion gallons)		
RSE Column Factors:	0.8	0.8 ¹	0.8 ¹	0.9 ¹	1.2	1.2 ¹	1.2 ¹	1.2 ¹	
Ownership of Unit									
Owned	2.9	0.08	0.56	0.51	2.4	0.04	0.48	0.47	11.8
Rented	1.8	.04	.31	.22	.5	.01	.11	.11	14.4
Public Housing .....	.2	(*)	.03	.02	Q	Q	Q	Q	40.7
Not Public Housing	1.6	.04	.28	.21	.5	.01	.11	.11	15.2
Rent Subsidy .....	.2	(*)	.03	.02	Q	Q	Q	Q	23.5
No Rent Subsidy	1.4	.03	.25	.18	.5	.01	.10	.11	16.5
Year of Construction									
1939 or Before	1.7	.04	.31	.25	.9	.02	.19	.18	16.8
1940 to 1949 .....	.4	.01	.07	.06	.2	(*)	.02	.02	29.6
1950 to 1959 .....	.9	.02	.17	.15	.3	(*)	.05	.05	20.4
1960 to 1969 .....	.6	.01	.10	.08	.4	.01	.08	.09	22.1
1970 to 1979 .....	.6	.02	.13	.11	.5	.01	.10	.09	18.5
1980 to 1984 .....	.1	(*)	.02	.02	.2	(*)	.04	.03	37.2
1985 to 1987 .....	.1	(*)	.03	.02	.2	(*)	.04	.04	28.6
1988 to 1990 .....	.1	(*)	.02	.02	.1	(*)	.04	.04	32.7
1991 to 1993 ³ .....	.1	(*)	.02	.02	.2	(*)	.04	.04	37.9
Fuel Oil									
Paid by Household	2.9	.08	.57	.52	--	--	--	--	16.0
Liquefied Petroleum Gas									
Paid by Household	--	--	--	--	2.8	.05	.57	.56	15.3
1993 Family Income									
Less than \$5,000 .....	.2	(*)	.02	.02	.1	(*)	.02	.02	27.8
\$5,000 to \$9,999 .....	.5	.01	.06	.05	.4	.01	.07	.07	29.0
\$10,000 to \$14,999 .....	.5	.01	.07	.06	.3	.01	.06	.06	17.3
\$15,000 to \$19,999 .....	.3	.01	.06	.05	.2	(*)	.05	.04	28.7
\$20,000 to \$24,999 .....	.4	.01	.07	.05	.4	.01	.07	.07	23.4
\$25,000 to \$34,999 .....	.7	.02	.13	.11	.5	.01	.11	.11	17.7
\$35,000 to \$49,999	1.0	.03	.19	.16	.4	.01	.12	.11	15.1
\$50,000 to \$74,999 .....	.8	.02	.16	.14	.2	.01	.06	.05	18.3
\$75,000 or More .....	.4	.01	.10	.10	.2	(*)	.04	.04	22.2
Below Poverty Line									
100 Percent .....	.7	.01	.11	.08	.5	.01	.09	.09	15.7
125 Percent .....	.8	.02	.14	.10	.8	.01	.14	.14	17.9
150 Percent	1.0	.03	.18	.14	1.0	.02	.18	.18	18.1
Eligible for Federal Assistance⁴									
1.4	.03	.23	.18	1.1	.02	.20	.20	16.3	
Age of Householder									
Under 25 Years .....	.2	.01	.04	.03	Q	Q	Q	Q	35.8
25 to 34 Years .....	.7	.02	.16	.13	.5	.01	.10	.10	22.2
35 to 44 Years	1.2	.03	.25	.21	.5	.01	.14	.14	16.0
45 to 59 Years	1.1	.03	.22	.19	.9	.02	.19	.19	14.7
60 Years and Over	1.4	.03	.21	.18	.9	.01	.14	.14	18.4
Education of Householder									
Less than 13 Years	2.5	.06	.46	.37	2.1	.04	.43	.42	12.6
13 to 16 Years	1.5	.04	.29	.25	.6	.01	.13	.13	13.0
17 Years or More .....	.6	.02	.12	.11	.1	(*)	.03	.03	24.3
Race of Householder									
White	3.9	.10	.73	.63	2.6	.05	.54	.53	12.0
Black .....	.4	.01	.08	.06	.2	(*)	.04	.04	20.6
Other ⁵ .....	.3	.01	.06	.04	Q	Q	Q	Q	19.4

See footnotes at end of table.

Table 5.23. Total Fuel Oil and LPG Consumption and Expenditures for Water Heating in U.S. Households, 1993 (Continued)

Characteristics	Fuel Oil				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Total Consumed		Total Expenditures (billion dollars)	Households (million)	Total Consumed		Total Expenditures (billion dollars)	
		(quad- rillion Btu)	(billion gallons)			(quad- rillion Btu)	(billion gallons)		
RSE Column Factors:	0.8	0.8 ¹	0.8 ¹	0.9 ¹	1.2	1.2 ¹	1.2 ¹	1.2 ¹	

Householder of Hispanic Descent

Yes	0.7	0.02	0.14	0.10	Q	Q	Q	Q	14.0
No	3.9	.10	.73	.63	2.7	0.05	0.57	0.56	11.0

Household Size

1 Person	1.2	.02	.13	.10	.6	.01	.07	.07	14.1
2 Persons	1.3	.03	.22	.19	1.1	.02	.20	.20	15.2
3 Persons .....	.9	.03	.18	.16	.5	.01	.10	.11	19.0
4 Persons .....	.7	.02	.17	.15	.4	.01	.12	.11	17.9
5 Persons .....	.3	.01	.10	.08	.2	.01	.07	.06	24.1
6 or More Persons .....	.3	.01	.07	.06	.1	(*)	.03	.03	28.0

¹ This factor is underestimated because it contains no error for estimating this end use.

² Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

(*) = Value rounds to zero in the units displayed.

-- = Not applicable.

NC = No cases in sample.

NF = No applicable RSE row factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and G of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.24. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per U.S. Household, 1993

Characteristics	Electricity					Natural Gas					RSE Row Factors
	Households (million)	Consumption		Expenditures (dollars)	Electricity Water-Heating Intensity (kWh per household member)	Households (million)	Consumption		Expenditures (dollars)	Natural Gas Water-Heating Intensity (1000 cubic feet per household member)	
		(million Btu)	(kWh)				(million Btu)	(1000 cubic feet)			
RSE Column Factors:	2.2	1.0 ¹	1.0 ¹	1.0 ¹	0.8 ¹	1.9	0.7 ¹	0.7 ¹	0.8 ¹	0.8 ¹	
Total U.S. Households	37.0	9.1	2,671	204	1,055	51.4	25.5	24.8	157	9.3	1.6
Census Region and Division											
Northeast	4.5	9.8	2,859	290	1,094	10.1	25.6	24.9	201	9.7	3.4
New England	1.4	9.9	2,907	323	1,092	1.9	25.4	24.7	217	9.9	4.6
Middle Atlantic	3.1	9.7	2,839	276	1,094	8.3	25.6	24.9	197	9.6	4.3
Midwest	6.9	10.2	2,988	224	1,202	15.4	28.0	27.2	151	10.5	3.0
East North Central	4.2	10.1	2,957	225	1,188	11.7	28.4	27.6	153	10.6	3.8
West North Central	2.7	10.4	3,035	222	1,224	3.7	26.7	26.0	142	10.2	3.9
South	19.2	8.6	2,532	190	997	12.7	25.7	25.0	159	9.3	2.9
South Atlantic	12.1	8.0	2,349	188	932	4.4	25.0	24.3	184	9.4	3.4
East South Central	3.9	9.9	2,909	178	1,120	1.8	26.8	26.1	152	10.0	7.5
West South Central	3.2	9.4	2,754	214	1,087	6.5	25.8	25.1	144	9.1	5.8
West	6.4	8.9	2,618	166	1,047	13.3	22.2	21.6	128	7.7	3.2
Mountain	1.9	9.3	2,732	184	1,025	3.2	25.4	24.7	128	9.7	6.1
Pacific	4.5	8.8	2,568	158	1,057	10.1	21.2	20.7	129	7.1	3.8
Largest Populated States											
California	1.5	6.9	2,008	186	748	9.4	20.5	20.0	126	6.9	5.6
Florida	4.9	6.6	1,927	160	750	.4	18.5	18.0	168	6.3	5.9
New York	1.1	9.6	2,822	328	1,046	3.8	26.2	25.4	220	9.8	7.6
Texas	2.2	9.0	2,646	207	1,047	3.9	24.6	23.9	137	8.6	7.6
Urban Status											
Urban	24.7	8.6	2,527	199	1,019	45.5	25.3	24.6	158	9.2	1.8
Central City	8.5	7.9	2,303	180	976	20.1	25.3	24.6	162	9.4	3.3
Suburban	16.2	9.0	2,644	208	1,040	25.4	25.3	24.7	155	9.1	2.4
Rural	12.3	10.1	2,960	216	1,123	6.0	26.5	25.8	147	10.0	3.8
Climate Zone ²											
Under 2,000 CDD and Over 7,000 HDD	3.7	11.0	3,219	242	1,207	3.8	26.9	26.1	143	10.3	4.8
5,500 to 7,000 HDD	7.4	10.4	3,041	235	1,210	16.8	27.4	26.6	162	10.5	3.5
4,000 to 5,499 HDD	8.8	9.6	2,805	200	1,130	10.5	26.6	25.9	185	9.7	3.7
Under 4,000 HDD	6.3	8.4	2,449	190	1,001	11.0	22.7	22.1	141	7.7	4.6
2,000 CDD or More and Under 4,000 HDD	10.8	7.7	2,247	182	869	9.4	23.4	22.8	139	8.5	3.9
Total Number of Rooms (Excluding Bathrooms)											
1 or 2	1.0	5.6	1,641	136	1,166	1.8	16.3	15.9	113	11.2	7.2
3 to 5	20.4	8.2	2,393	185	1,055	23.2	23.3	22.7	145	9.9	2.4
6 to 8	14.0	10.5	3,088	232	1,056	22.7	27.3	26.6	166	8.8	2.1
9 or More	1.6	10.9	3,194	248	1,022	3.7	32.0	31.1	196	8.9	5.8
Type of Housing Unit											
Single-Family	24.1	9.9	2,892	217	1,071	37.0	26.1	25.4	158	8.9	1.8
Detached	21.5	10.1	2,951	220	1,075	32.6	26.3	25.6	157	8.9	1.9
Attached	2.6	8.2	2,415	192	1,036	4.4	24.9	24.2	163	9.0	6.0
Mobile Home	4.0	9.5	2,787	218	1,031	1.1	23.6	22.9	130	9.3	6.8
Multifamily	8.8	6.9	2,015	163	1,012	13.3	23.7	23.0	156	10.6	3.8
2 to 4 Units	2.5	7.1	2,087	171	933	4.9	27.3	26.5	182	10.6	5.9
5 or More Units	6.3	6.8	1,986	161	1,049	8.4	21.6	21.0	141	10.5	4.6

See footnotes at end of table.

Table 5.24. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per U.S. Household, 1993 (Continued)

Characteristics	Electricity					Natural Gas					RSE Row Factors
	Households (million)	Consumption		Expenditures (dollars)	Electricity Water- Heating Intensity (kWh per household member)	Households (million)	Consumption		Expenditures (dollars)	Natural Gas Water- Heating Intensity (1000 cubic feet per household member)	
		(million Btu)	(kWh)				(million Btu)	(1000 cubic feet)			
RSE Column Factors:	2.2	1.0 ¹	1.0 ¹	1.0 ¹	0.8 ¹	1.9	0.7 ¹	0.7 ¹	0.8 ¹	0.8 ¹	
Heated Floorspace (square feet)											
Fewer than 1,000	12.5	7.6	2,216	174	1,042	14.3	21.7	21.2	139	10.0	2.9
1,000 to 1,999	15.3	9.4	2,749	208	1,032	21.8	25.3	24.6	155	8.9	2.2
2,000 to 2,999	6.3	10.5	3,077	233	1,070	10.0	28.4	27.6	173	9.2	3.0
3,000 or More	2.9	11.4	3,330	256	1,185	5.3	30.4	29.6	181	9.4	3.8
Ownership of Unit											
Owned	24.5	9.6	2,800	212	1,057	33.0	26.1	25.4	159	9.2	1.9
Rented	12.5	8.3	2,418	189	1,051	18.4	24.3	23.6	153	9.5	2.9
Public Housing	1.4	7.2	2,123	168	980	1.8	23.0	22.4	143	10.2	11.6
Not Public Housing	11.1	8.4	2,454	191	1,059	16.6	24.4	23.8	155	9.4	3.1
Rent Subsidy .....	.6	6.9	2,013	157	957	1.2	24.0	23.4	157	9.6	10.6
No Rent Subsidy	10.6	8.5	2,478	193	1,064	15.4	24.5	23.8	154	9.4	3.2
Year of Construction											
1939 or Before	5.2	9.4	2,755	217	1,105	12.4	25.4	24.7	162	9.7	4.0
1940 to 1949	2.0	9.8	2,882	200	1,134	4.2	24.2	23.6	154	9.3	4.9
1950 to 1959	3.6	9.1	2,660	207	1,004	8.3	25.3	24.7	159	8.6	4.1
1960 to 1969	4.8	8.3	2,445	191	1,055	9.1	24.4	23.8	146	9.7	4.0
1970 to 1979	9.3	9.2	2,695	201	1,092	7.6	25.8	25.1	150	9.2	3.5
1980 to 1984	4.5	9.0	2,652	206	1,040	3.7	25.8	25.1	157	8.7	4.4
1985 to 1987	2.9	8.9	2,595	206	965	2.3	27.1	26.4	167	9.1	5.6
1988 to 1990	2.7	10.0	2,936	223	1,036	1.8	28.3	27.6	171	9.1	5.4
1991 to 1993 ³	2.1	8.5	2,504	187	985	2.1	26.9	26.2	168	9.6	7.2
Electric Water-Heating Paid by Household											
Yes	35.0	9.3	2,718	207	1,060	--	--	--	--	--	1.6
No	2.0	6.3	1,860	153	953	--	--	--	--	--	7.3
Natural Gas Water-Heating Paid by Household											
Yes	--	--	--	--	--	41.9	26.0	25.3	159	9.1	1.8
No	--	--	--	--	--	9.5	23.2	22.6	148	10.6	3.8
1993 Family Income											
Less than \$5,000	1.6	8.0	2,339	182	1,071	2.1	24.3	23.6	156	9.4	6.7
\$5,000 to \$9,999	4.0	6.9	2,030	160	1,113	5.5	21.5	20.9	133	10.5	4.9
\$10,000 to \$14,999	4.3	8.0	2,355	184	1,000	6.0	22.9	22.2	142	9.3	4.6
\$15,000 to \$19,999	4.1	8.6	2,523	191	998	4.9	23.3	22.7	141	9.8	4.1
\$20,000 to \$24,999	3.7	8.7	2,537	190	1,078	4.3	23.1	22.5	140	9.7	3.8
\$25,000 to \$34,999	6.1	9.3	2,722	205	1,060	6.7	25.2	24.5	152	9.2	3.3
\$35,000 to \$49,999	6.6	10.0	2,932	227	1,047	9.3	27.1	26.3	167	9.0	2.8
\$50,000 to \$74,999	4.4	10.9	3,202	238	1,089	7.2	28.5	27.7	175	8.6	3.1
\$75,000 or More	2.3	10.8	3,172	247	1,074	5.3	30.2	29.4	191	9.4	4.7
Below Poverty Line											
100 Percent	5.4	9.0	2,639	205	977	7.6	25.8	25.1	161	8.5	4.1
125 Percent	7.5	9.1	2,654	206	983	10.0	25.6	25.0	160	8.6	3.4
150 Percent	9.8	9.1	2,680	208	989	12.6	25.5	24.8	158	8.8	3.2
Eligible for Federal Assistance ⁴											
	11.8	8.7	2,561	199	978	16.0	24.6	23.9	153	9.1	2.7

See footnotes at end of table.

Table 5.24. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per U.S. Household, 1993 (Continued)

Characteristics	Electricity					Natural Gas					RSE Row Factors
	Households (million)	Consumption		Expenditures (dollars)	Electricity Water-Heating Intensity (kWh per household member)	Households (million)	Consumption		Expenditures (dollars)	Natural Gas Water-Heating Intensity (1000 cubic feet per household member)	
		(million Btu)	(kWh)				(million Btu)	(1000 cubic feet)			
RSE Column Factors:	2.2	1.0 ¹	1.0 ¹	1.0 ¹	0.8 ¹	1.9	0.7 ¹	0.7 ¹	0.8 ¹	0.8 ¹	
Age of Householder											
Under 25 Years	2.6	9.1	2,662	202	1,137	2.8	26.2	25.5	158	9.4	5.3
25 to 34 Years	7.7	10.0	2,916	225	1,000	11.0	27.7	26.9	169	8.8	2.8
35 to 44 Years	8.1	11.1	3,241	249	1,003	11.5	28.4	27.6	177	8.2	2.4
45 to 59 Years	8.2	10.5	3,065	230	1,190	11.5	27.5	26.7	168	10.1	2.7
60 Years and Over	10.5	6.0	1,750	136	1,015	14.6	19.8	19.2	123	10.4	2.7
Education of Householder											
Less than 13 Years	19.9	9.3	2,721	208	1,043	26.5	25.0	24.4	153	9.1	2.0
13 to 16 Years	13.3	9.2	2,709	206	1,082	18.0	25.8	25.1	159	9.5	2.3
17 Years or More	3.8	7.8	2,275	184	1,029	7.0	26.0	25.3	163	9.4	3.5
Race of Householder											
White	32.1	9.1	2,679	203	1,073	41.0	24.7	24.0	151	9.3	1.7
Black	3.3	9.1	2,666	215	1,028	6.9	30.4	29.6	192	10.6	4.4
Other ⁵	1.6	8.6	2,529	206	818	3.5	24.4	23.7	159	6.8	5.7
Householder of Hispanic Descent											
Yes	2.0	8.9	2,605	213	822	5.0	25.0	24.3	162	7.4	5.4
No	35.0	9.1	2,675	204	1,072	46.4	25.5	24.8	156	9.6	1.6
Household Size											
1 Person	9.2	4.6	1,335	106	1,335	12.2	15.9	15.5	99	15.5	2.6
2 Persons	13.0	8.3	2,439	184	1,219	16.1	22.8	22.2	140	11.1	2.4
3 Persons	6.1	10.9	3,208	246	1,069	9.0	29.3	28.5	183	9.5	2.5
4 Persons	5.0	13.2	3,865	296	966	8.5	32.7	31.8	200	8.0	2.5
5 Persons	2.6	14.2	4,167	315	833	3.6	34.6	33.6	211	6.7	3.5
6 or More Persons	1.0	16.3	4,776	366	711	2.1	40.2	39.1	246	5.7	5.2
Average Electricity Expenditures (cents per kWh)											
Less than 6	6.7	11.3	3,304	169	1,294	--	--	--	--	--	2.3
6 to Less than 9	21.1	9.3	2,730	207	1,052	--	--	--	--	--	2.1
9 or More	9.2	7.1	2,075	223	877	--	--	--	--	--	3.3
Average Natural Gas Expenditures (dollars per 1000 cf)											
Less than 4.50	--	--	--	--	--	2.3	32.1	31.2	127	11.5	3.0
4.50 to Less than 6	--	--	--	--	--	20.7	26.7	26.0	138	9.9	2.4
6 or More	--	--	--	--	--	28.4	24.0	23.4	173	8.7	2.4
Water Heater Used											
For One Housing Unit	35.7	9.2	2,703	206	1,060	44.0	25.9	25.1	158	9.1	1.7
For Two or More Units	1.3	6.2	1,824	153	904	7.5	23.1	22.5	150	11.0	6.4
Age of Water Heater (for one housing unit)											
Less than 5 Years	10.2	9.5	2,796	213	1,071	13.4	26.3	25.6	160	9.1	2.5
5 to 9 Years	8.6	9.4	2,758	212	1,029	11.6	26.5	25.8	164	8.9	3.0
10 to 19 Years	8.6	9.3	2,712	203	1,062	9.6	26.1	25.4	156	9.1	3.0
20 Years or More	3.0	8.2	2,406	189	1,086	3.6	22.0	21.4	137	9.6	5.1
Don't Know/No Separate Unit	5.1	8.8	2,586	199	1,076	5.9	25.6	24.9	156	9.0	4.4

See footnotes at end of table.

Table 5.24. Electricity and Natural Gas Consumption and Expenditures for Main Water Heating, per U.S. Household, 1993 (Continued)

Characteristics	Electricity					Natural Gas					RSE Row Factors
	House- holds (million)	Consumption		Ex- pend- itures (dol- lars)	Electricity Water- Heating Intensity (kWh per household member)	House- holds (million)	Consumption		Ex- pend- itures (dol- lars)	Natural Gas Water- Heating Intensity (1000 cubic feet per household member)	
		(mil- lion Btu)	(kWh)				(mil- lion Btu)	(1000 cubic feet)			
RSE Column Factors:	2.2	1.0 ¹	1.0 ¹	1.0 ¹	0.8 ¹	1.9	0.7 ¹	0.7 ¹	0.8 ¹	0.8 ¹	
Size of Water Heater (for one housing unit)											
30 gallons or less	8.3	7.6	2,218	178	989	7.8	21.8	21.2	133	8.6	3.1
31 to 49 gallons	16.7	9.0	2,630	201	1,021	25.1	26.2	25.5	158	9.2	2.3
50 gallons or more	8.6	11.5	3,374	247	1,195	8.3	29.0	28.2	180	8.9	2.8
Don't Know/No Separate Unit	2.0	8.4	2,447	194	998	2.9	24.9	24.2	156	9.4	5.7
Clothes Washer											
Yes	29.0	9.8	2,868	216	1,064	39.3	26.3	25.6	160	9.1	1.7
No	8.0	6.7	1,957	162	1,013	12.1	22.7	22.1	147	10.3	3.4
Dishwasher											
Yes	17.3	9.6	2,804	211	1,088	23.5	27.2	26.4	165	9.2	2.3
No	19.7	8.7	2,554	199	1,026	28.0	24.0	23.4	150	9.4	2.2
Children Present in Household (more than one may apply)											
No	23.6	7.2	2,117	163	1,210	31.1	21.3	20.7	131	11.6	1.8
Yes	13.4	12.4	3,648	277	933	20.3	31.9	31.0	197	7.7	1.9
Under 13 Years	10.4	12.3	3,618	276	891	16.2	32.0	31.2	197	7.5	2.1
13 to 18 Years	5.6	13.7	4,005	302	980	8.7	34.2	33.3	210	7.8	2.6

¹ This factor is underestimated because it contains no error for estimating this end use.

² Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

-- = Not applicable.

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, E, and F of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.25. Fuel Oil and LPG Consumption and Expenditures for Main Water Heating, per U.S. Household, 1993

Characteristics	Fuel Oil					Liquefied Petroleum Gas					RSE Row Factors
	Households (million)	Consumption		Expenditures (dollars)	Fuel Oil Water-Heating Intensity (gallons per household member)	Households (million)	Consumption		Expenditures (dollars)	LPG Water-Heating Intensity (gallons per household member)	
		(million Btu)	(gallons)				(million Btu)	(gallons)			
RSE Column Factors:	1.6	0.6 ¹	0.6 ¹	0.7 ¹	0.6 ¹	2.4	1.1 ¹	1.1 ¹	1.2 ¹	1.1 ¹	
Total U.S. Households	4.6	26.2	189	158	70	2.9	18.7	205	201	78	4.6
Census Region and Division											
Northeast	4.3	26.7	193	161	71	.4	19.1	209	267	87	6.1
New England	1.5	26.2	189	168	74	.2	18.3	200	247	92	8.5
Middle Atlantic	2.8	27.0	195	158	69	.2	20.1	221	295	81	9.6
Midwest	Q	Q	Q	Q	Q	1.0	22.1	242	199	86	8.0
East North Central	Q	Q	Q	Q	Q	.4	25.6	281	237	94	14.1
West North Central	Q	Q	Q	Q	Q	.6	19.3	211	170	79	6.0
South	Q	Q	Q	Q	Q	1.1	15.8	173	175	65	8.4
South Atlantic	Q	Q	Q	Q	Q	.4	17.0	186	223	64	10.0
East South Central	NC	NC	NC	NC	NC	.2	17.3	189	162	69	6.6
West South Central	NC	NC	NC	NC	NC	.4	13.6	149	131	63	27.2
West	Q	Q	Q	Q	Q	.4	17.7	194	210	81	11.3
Mountain	NC	NC	NC	NC	NC	Q	21.2	232	202	88	11.5
Pacific	Q	Q	Q	Q	Q	.2	14.0	153	218	71	17.6
Largest Populated States											
California	Q	Q	Q	Q	Q	.2	15.1	165	236	73	17.1
Florida	Q	NC	NC	NC	NC	Q	Q	Q	Q	Q	NF
New York	1.8	27.7	200	155	71	Q	20.3	222	282	76	11.1
Texas	NC	NC	NC	NC	NC	Q	Q	Q	Q	Q	NF
Urban Status											
Urban	4.1	26.2	189	157	70	1.1	20.0	219	233	78	6.0
Central City	1.6	24.6	178	128	69	.2	16.2	177	209	85	9.0
Suburban	2.5	27.2	196	176	71	.9	20.8	228	238	77	7.3
Rural .....	.5	25.9	187	168	67	1.8	17.9	196	182	77	8.1
Climate Zone ²											
Under 2,000 CDD and Over 7,000 HDD .....	.5	27.8	201	175	73	.6	18.4	202	196	76	11.6
5,500 to 7,000 HDD	1.5	25.6	184	164	74	.6	24.5	268	241	98	10.8
4,000 to 5,499 HDD	2.5	26.4	191	153	67	Q	20.2	222	227	83	7.9
Under 4,000 HDD	Q	Q	Q	Q	Q	.4	16.6	181	185	75	12.5
2,000 CDD or More and Under 4,000 HDD	Q	NC	NC	NC	NC	.8	14.6	160	167	60	9.4
Total Number of Rooms (Excluding Bathrooms)											
1 or 2 .....	.3	21.5	155	122	104	Q	Q	Q	Q	Q	15.3
3 to 5	2.0	25.5	184	140	72	1.4	16.8	184	179	82	5.8
6 to 8	1.8	26.6	192	175	68	1.3	20.3	223	218	74	6.4
9 or More .....	.4	31.0	223	204	59	.1	22.7	248	276	74	14.5
Type of Housing Unit											
Single-Family	2.7	27.4	197	181	67	2.4	18.3	200	198	75	5.5
Detached	2.4	27.4	197	182	70	2.3	18.4	201	199	76	5.9
Attached .....	.2	27.3	197	174	48	Q	Q	Q	Q	Q	29.5
Mobile Home	Q	Q	Q	Q	Q	.4	20.9	229	203	82	8.1
Multifamily	1.9	24.6	177	127	74	.1	19.6	215	262	118	8.8
2 to 4 Units .....	.6	26.6	192	175	73	Q	Q	Q	Q	Q	15.1
5 or More Units	1.3	23.7	171	107	74	Q	Q	Q	Q	Q	5.8
Heated Floorspace (square feet)											
Fewer than 1,000	1.3	22.2	160	111	74	.8	16.7	183	182	73	6.3
1,000 to 1,999	1.5	27.1	195	168	69	1.3	18.6	204	201	84	6.9
2,000 to 2,999	1.0	28.4	205	187	73	.4	19.2	211	203	68	7.3
3,000 or More .....	.7	28.4	205	187	61	.3	23.2	254	248	81	9.5

See footnotes at end of table.

Table 5.25. Fuel Oil and LPG Consumption and Expenditures for Main Water Heating, per U.S. Household, 1993 (Continued)

Characteristics	Fuel Oil					Liquefied Petroleum Gas					RSE Row Factors
	Households (million)	Consumption		Expenditures (dollars)	Fuel Oil Water-Heating Intensity (gallons per household member)	Households (million)	Consumption		Expenditures (dollars)	LPG Water-Heating Intensity (gallons per household member)	
		(million Btu)	(gallons)				(million Btu)	(gallons)			
RSE Column Factors:	1.6	0.6 ¹	0.6 ¹	0.7 ¹	0.6 ¹	2.4	1.1 ¹	1.1 ¹	1.2 ¹	1.1 ¹	
Ownership of Unit											
Owned	2.8	27.5	198	179	69	2.4	18.5	202	197	79	5.1
Rented	1.8	24.1	174	126	70	.5	19.8	217	219	72	7.3
Public Housing .....	.2	22.1	160	96	82	Q	Q	Q	Q	Q	21.0
Not Public Housing	1.6	24.3	176	129	69	.5	19.9	218	221	72	7.6
Rent Subsidy .....	.2	22.3	161	119	75	Q	Q	Q	Q	Q	38.3
No Rent Subsidy	1.4	24.6	178	131	69	.5	19.6	215	220	72	10.1
Year of Construction											
1939 or Before	1.7	24.7	178	142	68	.9	19.4	213	205	92	9.3
1940 to 1949 .....	.4	23.1	166	139	68	.2	13.0	143	143	83	13.5
1950 to 1959 .....	.9	27.7	200	173	73	.3	14.7	161	160	50	9.8
1960 to 1969 .....	.6	24.4	176	147	66	.4	19.2	210	235	82	9.9
1970 to 1979 .....	.6	27.1	195	168	75	.5	18.7	205	190	73	10.3
1993 to 1984 .....	.1	34.5	249	214	59	.2	16.3	178	169	67	18.5
1985 to 1987 .....	.1	39.9	287	255	74	.2	21.3	233	228	79	13.8
1988 to 1990 .....	.1	26.9	194	175	68	.1	24.0	263	271	81	15.4
1991 to 1993 ³ .....	.1	35.6	256	235	65	.2	21.9	240	217	79	14.3
Fuel Oil Paid by Household											
Yes	2.9	27.0	195	179	67	--	--	--	--	--	7.0
No	1.6	24.6	177	121	76	--	--	--	--	--	4.9
Liquefied Petroleum Gas Paid by Household											
Yes	--	--	--	--	--	2.7	18.7	204	201	77	9.4
No	--	--	--	--	--	Q	Q	Q	Q	Q	NF
1993 Family Income											
Less than \$5,000 .....	.2	19.8	143	107	77	.1	12.8	140	151	98	18.2
\$5,000 to \$9,999 .....	.5	19.0	137	104	70	.4	14.1	155	157	86	16.9
\$10,000 to \$14,999 .....	.5	21.5	155	119	78	.3	16.5	180	179	74	10.0
\$15,000 to \$19,999 .....	.3	26.8	194	158	75	.2	17.7	194	177	65	12.9
\$20,000 to \$24,999 .....	.4	25.0	180	134	70	.4	18.5	203	202	76	11.0
\$25,000 to \$34,999 .....	.7	27.7	200	168	71	.5	18.3	200	207	67	9.5
\$35,000 to \$49,999	1.0	27.1	195	169	63	.4	24.7	270	246	98	12.2
\$50,000 to \$74,999 .....	.7	28.6	206	184	67	.2	23.9	262	252	75	9.7
\$75,000 or More .....	.4	33.1	238	216	78	.2	21.6	237	242	75	11.1
Below Poverty Line											
100 Percent .....	.6	22.8	164	121	63	.5	15.3	167	174	75	12.4
125 Percent .....	.8	23.8	172	124	65	.8	16.1	176	171	67	10.9
150 Percent	1.0	24.6	178	131	64	1.0	16.4	180	176	67	9.4
Eligible for Federal Assistance⁴											
.....	1.3	23.7	171	130	69	1.1	16.0	175	174	66	8.2
Age of Householder											
Under 25 Years .....	.2	20.9	151	117	53	Q	Q	Q	Q	Q	29.0
25 to 34 Years .....	.7	31.6	228	181	66	.5	20.6	226	221	65	8.3
35 to 44 Years	1.2	28.5	206	177	66	.5	24.7	270	275	71	7.8
45 to 59 Years	1.1	27.4	197	170	73	.9	19.8	217	210	93	8.8
60 Years and Over	1.3	21.3	153	129	80	.9	13.7	150	148	80	8.2
Education of Householder											
Less than 13 Years	2.5	25.6	184	148	68	2.1	18.5	203	198	77	5.5
13 to 16 Years	1.5	26.6	192	168	68	.6	19.0	208	208	76	7.5
17 Years or More .....	.6	27.5	198	177	84	.1	20.7	227	223	97	12.0

See footnotes at end of table.

Table 5.25. Fuel Oil and LPG Consumption and Expenditures for Main Water Heating, per U.S. Household, 1993 (Continued)

Characteristics	Fuel Oil					Liquefied Petroleum Gas					RSE Row Factors
	Households (million)	Consumption		Expenditures (dollars)	Fuel Oil Water-Heating Intensity (gallons per household member)	Households (million)	Consumption		Expenditures (dollars)	LPG Water-Heating Intensity (gallons per household member)	
		(million Btu)	(gallons)				(million Btu)	(gallons)			
RSE Column Factors:	1.6	0.6 ¹	0.6 ¹	0.7 ¹	0.6 ¹	2.4	1.1 ¹	1.1 ¹	1.2 ¹	1.1 ¹	
Race of Householder											
White	3.9	25.8	186	160	70	2.6	19.0	208	203	79	5.0
Black .....	.4	27.6	199	146	76	.2	14.5	159	175	58	11.6
Other ⁵ .....	.3	28.9	208	148	58	Q	Q	Q	Q	Q	11.3
Householder of Hispanic Descent											
Yes .....	.7	28.1	203	147	66	Q	15.6	171	184	66	10.6
No	3.9	25.8	186	161	70	2.7	18.9	206	202	78	5.0
Household Size											
1 Person	1.1	15.6	112	91	112	.6	11.8	130	124	130	7.4
2 Persons	1.3	23.5	170	140	85	1.1	16.5	180	178	90	6.8
3 Persons .....	.9	28.6	206	180	69	.5	19.8	216	235	72	8.1
4 Persons .....	.7	33.6	242	207	61	.4	25.9	283	267	71	11.4
5 Persons .....	.3	42.2	304	249	61	.2	29.7	326	307	65	8.3
6 or More Persons .....	.3	38.5	277	238	42	.1	24.9	273	236	40	20.4
Average Fuel Oil Expenditures (dollars per gallon)											
Less than 0.95	3.8	25.8	186	148	70	--	--	--	--	--	4.9
0.95 to Less than 1.10 .....	.6	26.5	191	193	69	--	--	--	--	--	8.6
1.10 or More .....	.2	34.8	251	289	75	--	--	--	--	--	12.5
Average LPG Expenditures (dollars per gallon)											
Less than 0.75	--	--	--	--	--	.4	17.9	195	126	79	7.6
0.75 to Less than 1.00	--	--	--	--	--	1.5	20.1	221	191	77	6.6
1.00 or More	--	--	--	--	--	1.0	16.7	183	247	78	6.6
Water Heater Used											
For One Housing Unit	2.8	26.9	194	178	68	2.7	18.7	204	199	76	5.2
For Two or More Units	1.8	25.1	181	128	73	Q	Q	Q	Q	Q	5.9
Age of Water Heater (for one housing unit)											
Less than 5 Years .....	.5	27.1	196	180	59	1.0	18.2	200	197	70	10.3
5 to 9 Years .....	.5	27.7	200	187	67	.7	17.6	193	191	72	9.8
10 to 19 Years .....	.5	27.0	195	178	67	.6	21.1	231	220	92	11.6
20 Years or More .....	.6	24.6	178	162	75	.3	18.3	201	186	89	11.5
Don't Know/No Separate Unit .....	.7	28.2	203	184	71	.2	17.3	190	197	67	10.5
Size of Water Heater (for one housing unit)											
30 gallons or less .....	.7	25.4	183	165	75	.8	16.5	181	183	78	8.0
31 to 49 gallons .....	.8	26.8	193	177	61	1.3	18.9	207	195	72	7.7
50 gallons or more .....	.4	29.1	210	193	65	.5	18.5	202	200	75	9.7
Don't Know/No Separate Unit .....	.9	27.2	196	182	71	.2	Q	Q	301	117	15.9
Clothes Washer											
Yes	3.2	27.5	199	174	68	2.5	19.4	212	207	77	4.7
No	1.3	22.9	165	119	74	.4	14.6	160	165	86	9.2
Dishwasher											
Yes	1.8	29.3	211	190	72	.9	23.7	259	246	83	6.4
No	2.8	24.2	174	138	68	2.0	16.4	180	181	74	5.5

See footnotes at end of table.

Table 5.25. Fuel Oil and LPG Consumption and Expenditures for Main Water Heating, per U.S. Household, 1993 (Continued)

Characteristics	Fuel Oil					Liquefied Petroleum Gas					RSE Row Factors
	Households (million)	Consumption		Expenditures (dollars)	Fuel Oil Water-Heating Intensity (gallons per household member)	Households (million)	Consumption		Expenditures (dollars)	LPG Water-Heating Intensity (gallons per household member)	
		(million Btu)	(gallons)				(million Btu)	(gallons)			
RSE Column Factors:	1.6	0.6 ¹	0.6 ¹	0.7 ¹	0.6 ¹	2.4	1.1 ¹	1.1 ¹	1.2 ¹	1.1 ¹	

Children Present in Household

No	2.9	21.5	155	129	83	1.8	15.0	164	163	91	5.7
Yes	1.7	34.1	246	208	59	1.0	25.2	276	268	67	5.6
(more than one may apply)											
Under 13 Years	1.3	33.7	243	201	57	.8	23.7	259	249	60	5.8
13 to 18 Years .....	.7	35.9	259	222	60	.5	28.9	316	304	77	10.1

¹ This factor is underestimated because it contains no error for estimating this end use.

² Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

-- = Not applicable.

NC = No cases in sample.

NF = No applicable RSE row factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and G of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.26. Total Consumption and Expenditures for Appliances in U.S. Households, 1993

Characteristics	Electricity				Natural Gas				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Consumed		Expenditures (billion dollars)	Households (million)	Consumed		Expenditures (billion dollars)	Households (million)	Consumed		Expenditures (billion dollars)	
		(quad- rillion Btu)	(bil- lion kWh)			(quad- rillion Btu)	(bil- lion cubic feet)			(quad- rillion Btu)	(bil- lion gal- lons)		
RSE Column Factors:	0.4	0.5 ¹	0.5 ¹	0.5 ¹	0.8	0.9 ¹	0.9 ¹	0.9 ¹	2.2	2.4 ¹	2.4 ¹	2.4 ¹	
Total U.S. Households	96.6	1.63	476	41.55	37.8	0.29	282	1.98	4.9	0.03	0.32	0.42	3.9
Census Region and Division													
Northeast	19.5	.27	79	9.28	10.1	.08	74	.73	1.0	.01	.06	.10	8.3
New England	5.1	.07	21	2.42	1.7	.01	14	.14	.4	(*)	.02	.04	14.1
Middle Atlantic	14.4	.20	58	6.86	8.4	.06	60	.59	.6	(*)	.03	.06	10.4
Midwest	23.3	.41	121	9.98	10.4	.08	76	.42	1.1	.01	.08	.07	8.7
East North Central	16.4	.29	84	7.18	7.9	.06	59	.33	.5	(*)	.03	.03	10.7
West North Central	6.9	.13	37	2.80	2.4	.02	17	.09	.6	(*)	.05	.04	13.4
South	33.4	.64	186	14.51	8.7	.08	75	.47	2.4	.01	.16	.21	7.0
South Atlantic	17.3	.31	91	7.39	2.9	.02	22	.17	1.4	.01	.10	.16	11.3
East South Central	6.0	.12	36	2.29	1.1	.01	10	.05	.5	(*)	.03	.03	13.6
West South Central	10.1	.20	59	4.83	4.7	.04	43	.25	.5	(*)	.03	.02	12.8
West	20.4	.31	90	7.78	8.6	.06	57	.36	.4	(*)	.03	.04	8.3
Mountain	5.4	.09	27	1.97	1.6	.01	10	.06	.2	(*)	.01	.02	15.4
Pacific	15.0	.21	63	5.81	7.0	.05	47	.30	.2	(*)	.01	.02	9.4
Largest Populated States													
California	11.1	.14	41	4.61	6.6	.04	43	.28	.2	(*)	.01	.02	10.0
Florida	5.6	.10	30	2.48	.3	(*)	2	.02	.7	.01	.06	.09	14.9
New York	6.8	.08	24	3.36	4.5	.03	31	.37	.3	(*)	.02	.03	14.9
Texas	6.4	.13	38	3.03	2.8	.03	24	.15	Q	Q	Q	Q	10.6
Urban Status													
Urban	75.8	1.22	359	32.51	33.9	.26	254	1.82	2.2	.01	.14	.20	4.7
Central City	30.6	.42	123	11.27	16.2	.12	115	.88	.5	(*)	.03	.04	6.2
Suburban	45.2	.80	235	21.24	17.8	.14	139	.94	1.7	.01	.11	.16	5.7
Rural	20.8	.40	118	9.04	3.8	.03	28	.17	2.8	.02	.18	.21	9.9
Climate Zone ²													
Under 2,000 CDD and													
Over 7,000 HDD	8.7	.16	47	3.66	2.1	.01	14	.08	.8	(*)	.05	.06	23.0
5,500 to 7,000 HDD	26.5	.44	129	11.38	12.2	.09	91	.59	.9	.01	.06	.07	14.0
4,000 to 5,499 HDD	22.4	.36	107	9.53	9.2	.07	67	.62	.9	.01	.06	.08	15.0
Under 4,000 HDD	17.8	.27	79	7.33	7.3	.05	50	.33	.7	(*)	.04	.06	16.9
2,000 CDD or More and													
Under 4,000 HDD	21.2	.39	115	9.64	7.0	.06	59	.37	1.7	.01	.11	.15	12.1
Total Number of Rooms (Excluding Bathrooms)													
1 or 2	3.2	.02	5	.51	1.3	.01	6	.06	Q	Q	Q	Q	20.1
3 to 5	47.3	.60	176	15.58	17.8	.12	115	.85	3.0	.02	.18	.24	5.4
6 to 8	40.2	.85	249	21.38	16.1	.14	132	.88	1.7	.01	.12	.14	6.0
9 or More	5.8	.16	46	4.08	2.6	.03	30	.19	.2	(*)	.02	.03	17.0
Type of Housing Unit													
Single-Family	66.7	1.33	389	33.34	26.6	.21	208	1.37	3.2	.02	.21	.27	4.9
Detached	59.4	1.22	356	30.34	23.1	.19	183	1.19	3.2	.02	.21	.27	5.3
Attached	7.3	.11	33	3.01	3.5	.03	25	.19	Q	Q	Q	Q	15.4
Mobile Home	5.6	.09	26	2.11	1.5	.01	9	.06	1.5	.01	.10	.13	14.2
Multifamily	24.2	.21	61	6.09	9.7	.07	64	.56	.2	(*)	.01	.02	9.8
2 to 4 Units	8.0	.08	23	2.34	4.2	.03	32	.26	.1	(*)	.01	.02	13.3
5 or More Units	16.2	.13	38	3.75	5.5	.03	32	.30	Q	Q	Q	Q	10.9
Heated Floorspace (square feet)													
Fewer than 1,000	29.3	.29	86	7.70	11.2	.07	70	.55	2.0	.01	.12	.16	6.5
1,000 to 1,999	40.2	.70	205	17.84	16.1	.12	119	.82	1.8	.01	.12	.14	5.8
2,000 to 2,999	17.8	.39	115	9.94	6.8	.06	54	.37	.7	.01	.06	.07	7.7
3,000 or More	9.3	.24	71	6.07	3.7	.04	38	.25	.4	(*)	.03	.04	12.9

See footnotes at end of table.

Table 5.26. Total Consumption and Expenditures for Appliances in U.S. Households, 1993 (Continued)

Characteristics	Electricity				Natural Gas				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Consumed		Expenditures (billion dollars)	Households (million)	Consumed		Expenditures (billion dollars)	Households (million)	Consumed		Expenditures (billion dollars)	
		(quad- rillion Btu)	(bil- lion kWh)			(quad- rillion Btu)	(bil- lion cubic feet)			(quad- rillion Btu)	(bil- lion gal- lons)		
RSE Column Factors:	0.4	0.5 ¹	0.5 ¹	0.5 ¹	0.8	0.9 ¹	0.9 ¹	0.9 ¹	2.2	2.4 ¹	2.4 ¹	2.4 ¹	
Ownership of Unit													
Owned	63.2	1.26	368	31.64	24.6	0.20	192	1.29	3.8	0.02	0.26	0.32	4.7
Rented	33.4	.37	108	9.91	13.2	.09	89	.69	1.2	.01	.07	.10	6.0
Public Housing	3.4	.03	8	.75	1.4	.01	10	.07	NC	NC	NC	NC	23.4
Not Public Housing	30.0	.34	100	9.16	11.8	.08	79	.62	1.2	.01	.07	.10	6.3
Rent Subsidy	2.0	.02	5	.52	1.0	.01	7	.07	Q	Q	Q	Q	19.8
No Rent Subsidy	28.0	.32	94	8.63	10.8	.07	72	.56	1.1	.01	.06	.10	6.6
Year of Construction													
1939 or Before	20.3	.30	88	8.06	10.9	.08	76	.60	1.2	.01	.07	.09	8.2
1940 to 1949	6.9	.11	32	2.82	3.4	.02	24	.18	.3	(*)	.02	.02	13.7
1950 to 1959	13.1	.23	68	6.33	6.7	.05	51	.37	.4	(*)	.02	.03	10.4
1960 to 1969	15.0	.24	71	6.30	5.7	.04	42	.28	.7	(*)	.04	.05	10.3
1970 to 1979	18.1	.32	95	7.86	4.5	.04	35	.22	1.1	.01	.07	.09	9.5
1980 to 1984	8.5	.15	44	3.72	2.5	.02	21	.13	.4	(*)	.03	.04	13.3
1985 to 1987	5.5	.10	29	2.44	1.6	.01	11	.07	.3	(*)	.04	.04	15.0
1988 to 1990	4.7	.09	27	2.23	1.2	.01	10	.06	.3	(*)	.02	.03	14.4
1991 to 1993 ³	4.5	.07	22	1.79	1.2	.01	10	.06	.2	(*)	.02	.02	16.8
Electric Appliances													
Paid by Household	91.5	1.58	464	40.43	--	--	--	--	--	--	--	--	4.0
Natural Gas Appliances													
Paid by Household	--	--	--	--	32.7	.26	249	1.75	--	--	--	--	6.2
Liquefied Petroleum Gas													
Paid by Household	--	--	--	--	--	--	--	--	4.8	.03	.32	.41	9.9
1993 Family Income													
Less than \$5,000	4.0	.04	13	1.18	1.8	.01	13	.10	.3	(*)	.01	.02	14.1
\$5,000 to \$9,999	10.6	.11	34	2.94	4.3	.03	27	.21	.6	(*)	.03	.04	9.4
\$10,000 to \$14,999	11.1	.14	41	3.62	4.7	.03	33	.23	.8	(*)	.04	.06	7.8
\$15,000 to \$19,999	9.6	.15	43	3.58	3.6	.02	23	.15	.6	(*)	.05	.06	11.5
\$20,000 to \$24,999	8.7	.14	40	3.38	3.4	.02	23	.16	.5	(*)	.03	.04	10.5
\$25,000 to \$34,999	14.1	.25	73	6.16	4.6	.03	34	.23	.9	.01	.07	.08	8.7
\$35,000 to \$49,999	17.4	.33	97	8.55	6.6	.05	51	.36	.6	(*)	.05	.06	7.8
\$50,000 to \$74,999	12.6	.26	77	6.68	5.1	.04	40	.28	.3	(*)	.03	.05	8.3
\$75,000 or More	8.3	.20	59	5.46	3.6	.04	37	.26	.2	(*)	.01	.02	13.3
Below Poverty Line													
100 Percent	14.4	.18	54	4.79	6.6	.05	50	.38	1.0	(*)	.05	.07	7.7
125 Percent	19.4	.26	75	6.63	8.4	.07	64	.48	1.5	.01	.08	.10	7.4
150 Percent	24.7	.34	98	8.56	10.5	.08	78	.58	1.8	.01	.10	.13	6.7
Eligible for Federal Assistance⁴													
30.6	.41	120	10.55	12.9	.10	93	.68	2.1	.01	.11	.15	6.0	
Age of Householder													
Under 25 Years	5.7	.07	20	1.68	2.0	.02	15	.11	.2	(*)	.01	.01	12.3
25 to 34 Years	19.9	.31	91	7.91	8.1	.06	61	.43	1.0	.01	.07	.09	6.7
35 to 44 Years	21.4	.42	123	10.71	8.4	.07	65	.46	1.2	.01	.10	.13	6.2
45 to 59 Years	21.9	.43	125	10.81	8.6	.08	73	.51	1.1	.01	.06	.08	7.3
60 Years and Over	27.7	.40	118	10.44	10.6	.07	67	.49	1.3	.01	.08	.10	7.4

See footnotes at end of table.

Table 5.26. Total Consumption and Expenditures for Appliances in U.S. Households, 1993 (Continued)

Characteristics	Electricity				Natural Gas				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Consumed		Expenditures (billion dollars)	Households (million)	Consumed		Expenditures (billion dollars)	Households (million)	Consumed		Expenditures (billion dollars)	
		(quad- rillion Btu)	(bil- lion kWh)			(quad- rillion Btu)	(bil- lion cubic feet)			(quad- rillion Btu)	(bil- lion gal- lons)		
RSE Column Factors:	0.4	0.5 ¹	0.5 ¹	0.5 ¹	0.8	0.9 ¹	0.9 ¹	0.9 ¹	2.2	2.4 ¹	2.4 ¹	2.4 ¹	
Education of Householder													
12 Years or Fewer	51.5	0.83	243	20.92	20.9	0.15	150	1.06	3.6	0.02	0.23	0.28	5.3
13 to 16 Years	33.6	.59	174	15.19	12.3	.10	96	.67	1.2	.01	.09	.12	5.3
17 Years or More	11.5	.20	60	5.44	4.5	.04	36	.26	.2	(*)	.01	.01	10.7
Race of Householder													
White	80.1	1.41	413	35.48	28.9	.22	213	1.47	4.4	.03	.29	.38	4.6
Black	10.9	.15	45	4.19	6.1	.05	50	.36	.5	(*)	.02	.03	12.1
Other ⁵	5.5	.06	19	1.88	2.8	.02	19	.16	Q	Q	Q	Q	13.2
Householder of Hispanic Descent													
Yes	7.9	.10	30	2.93	4.2	.03	31	.25	.4	(*)	.02	.04	13.8
No	88.7	1.52	446	38.62	33.6	.26	251	1.73	4.5	.03	.30	.38	4.4
Household Size													
1 Person	23.5	.22	63	5.68	8.4	.04	37	.29	1.0	(*)	.05	.07	7.6
2 Persons	31.7	.51	150	12.78	11.6	.08	81	.56	1.6	.01	.09	.12	6.0
3 Persons	16.6	.31	92	8.14	6.9	.06	56	.40	.8	(*)	.05	.07	7.8
4 Persons	14.6	.33	98	8.50	6.4	.06	58	.39	.8	.01	.06	.07	7.0
5 Persons	6.8	.16	47	4.08	2.7	.03	29	.20	.6	.01	.06	.07	10.5
6 or More Persons	3.5	.09	26	2.37	1.8	.02	21	.15	.2	(*)	.01	.02	16.7

¹ This factor is underestimated because it contains no error for estimating this end use.

² Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

(*) = Value rounds to zero in the units displayed.

-- = Not applicable.

NC = No cases in sample.

NF = No applicable RSE row factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-F, and H of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.27. Electricity Consumption and Expenditures for Appliances and Refrigerators, per U.S. Household, 1993

Characteristics	Electricity Used for Appliances				Electricity Used for Refrigerators					RSE Row Factors
	Households (million)	Consumed		Expenditures (dollars)	Households (million)	Average Number of Refrigerators	Consumed		Expenditures (dollars)	
		(million Btu)	(kWh)				(million Btu)	(kWh)		
RSE Column Factors:	1.6	1.0 ¹	1.0 ¹	1.0 ¹	1.6	0.4	0.9 ¹	0.9 ¹	1.1 ¹	
Total U.S. Households	96.6	16.8	4,933	430	96.4	1.2	4.7	1,386	124	1.3
Census Region and Division										
Northeast	19.5	13.9	4,077	476	19.4	1.1	3.9	1,136	137	3.4
New England	5.1	14.3	4,197	478	5.1	1.1	3.7	1,091	126	6.0
Middle Atlantic	14.4	13.8	4,035	476	14.3	1.2	3.9	1,152	141	3.9
Midwest	23.3	17.7	5,193	428	23.3	1.2	4.5	1,322	111	2.9
East North Central	16.4	17.6	5,146	439	16.4	1.2	4.5	1,317	115	4.1
West North Central	6.9	18.1	5,303	403	6.9	1.2	4.6	1,336	103	2.6
South	33.4	19.0	5,576	434	33.4	1.1	5.7	1,664	131	2.1
South Atlantic	17.3	17.9	5,247	427	17.3	1.1	5.2	1,533	126	3.1
East South Central	6.0	20.6	6,029	382	6.0	1.2	5.8	1,712	110	3.3
West South Central	10.1	20.0	5,871	477	10.1	1.1	6.3	1,858	152	4.1
West	20.4	15.0	4,399	382	20.3	1.2	4.2	1,240	116	2.8
Mountain	5.4	17.1	5,013	368	5.4	1.2	4.4	1,293	102	5.7
Pacific	15.0	14.3	4,180	387	15.0	1.2	4.2	1,221	120	3.2
Largest Populated States										
California	11.1	12.5	3,649	415	11.1	1.2	4.0	1,159	132	3.8
Florida	5.6	18.3	5,368	446	5.6	1.1	5.7	1,679	141	6.2
New York	6.8	12.1	3,542	493	6.8	1.1	3.5	1,022	149	6.2
Texas	6.4	19.9	5,838	470	6.4	1.1	6.3	1,860	151	5.6
Urban Status										
Urban	75.8	16.1	4,733	429	75.7	1.2	4.7	1,378	128	1.6
Central City	30.6	13.7	4,029	369	30.5	1.1	4.4	1,293	122	1.8
Suburban	45.2	17.8	5,209	470	45.1	1.2	4.9	1,436	132	1.5
Rural	20.8	19.3	5,665	435	20.8	1.2	4.8	1,412	110	2.4
Climate Zone ²										
Under 2,000 CDD and Over 7,000 HDD	8.7	18.3	5,350	422	8.7	1.2	3.9	1,153	91	4.6
5,500 to 7,000 HDD	26.5	16.6	4,864	430	26.5	1.2	4.3	1,258	115	3.9
4,000 to 5,499 HDD	22.4	16.3	4,769	425	22.3	1.1	4.5	1,320	123	3.5
Under 4,000 HDD	17.8	15.1	4,435	412	17.8	1.1	4.6	1,362	128	3.8
2,000 CDD or More and Under 4,000 HDD	21.2	18.6	5,441	455	21.1	1.1	5.9	1,731	147	3.2
Total Number of Rooms (Excluding Bathrooms)										
1 or 2	3.2	5.3	1,551	158	3.2	1.0	2.8	820	83	5.2
3 to 5	47.3	12.7	3,724	329	47.2	1.1	4.1	1,213	111	1.4
6 to 8	40.2	21.1	6,198	532	40.2	1.2	5.3	1,560	137	1.5
9 or More	5.8	26.9	7,895	698	5.8	1.4	6.4	1,889	169	4.3
Type of Housing Unit										
Single-Family	66.7	19.9	5,832	500	66.7	1.2	5.2	1,537	134	1.2
Detached	59.4	20.5	5,997	510	59.4	1.2	5.3	1,557	135	1.3
Attached	7.3	15.3	4,487	412	7.3	1.1	4.7	1,377	129	4.4
Mobile Home	5.6	16.0	4,693	378	5.6	1.0	4.1	1,202	99	4.0
Multifamily	24.2	8.6	2,515	251	24.2	1.0	3.4	1,009	102	2.2
2 to 4 Units	8.0	9.7	2,839	292	8.0	1.0	3.5	1,012	107	3.1
5 or More Units	16.2	8.0	2,355	231	16.2	1.0	3.4	1,008	99	3.1
Heated Floorspace (square feet)										
Fewer than 1,000	29.3	10.0	2,937	263	29.2	1.0	3.8	1,105	103	1.8
1,000 to 1,999	40.2	17.4	5,111	444	40.1	1.1	4.8	1,402	125	1.5
2,000 to 2,999	17.8	21.9	6,421	557	17.8	1.3	5.5	1,612	142	2.1
3,000 or More	9.3	25.9	7,599	654	9.3	1.4	6.0	1,764	153	3.5

See footnotes at end of table.

Table 5.27. Electricity Consumption and Expenditures for Appliances and Refrigerators, per U.S. Household, 1993 (Continued)

Characteristics	Electricity Used for Appliances				Electricity Used for Refrigerators					RSE Row Factors
	Households (million)	Consumed		Expenditures (dollars)	Households (million)	Average Number of Refrigerators	Consumed		Expenditures (dollars)	
		(million Btu)	(kWh)				(million Btu)	(kWh)		
RSE Column Factors:	1.6	1.0 ¹	1.0 ¹	1.0 ¹	1.6	0.4	0.9 ¹	0.9 ¹	1.1 ¹	
Ownership of Unit										
Owned	63.2	19.9	5,830	501	63.2	1.2	5.2	1,536	135	1.3
Rented	33.4	11.0	3,238	297	33.3	1.0	3.8	1,100	104	1.8
Public Housing	3.4	8.4	2,459	219	3.4	1.0	3.4	1,000	89	5.5
Not Public Housing	30.0	11.4	3,327	305	29.8	1.0	3.8	1,111	106	1.9
Rent Subsidy	2.0	9.4	2,756	264	2.0	1.0	3.3	972	97	6.3
No Rent Subsidy	28.0	11.5	3,368	308	27.9	1.0	3.8	1,121	106	2.1
Year of Construction										
1939 or Before	20.3	14.9	4,353	397	20.3	1.1	4.2	1,240	116	2.5
1940 to 1949	6.9	16.0	4,692	409	6.9	1.2	4.7	1,381	126	3.7
1950 to 1959	13.1	17.7	5,179	484	13.1	1.2	5.1	1,481	142	3.0
1960 to 1969	15.0	16.1	4,720	419	15.0	1.2	4.8	1,421	129	3.1
1970 to 1979	18.1	17.8	5,214	433	18.1	1.1	5.0	1,464	125	2.5
1980 to 1984	8.5	17.8	5,208	440	8.5	1.1	5.2	1,524	131	3.4
1985 to 1987	5.5	18.1	5,295	444	5.5	1.1	4.7	1,379	118	4.1
1988 to 1990	4.7	19.9	5,822	473	4.7	1.1	4.5	1,325	111	3.8
1991 to 1993 ³	4.5	16.7	4,896	400	4.5	1.1	3.9	1,152	96	5.4
Electricity Paid by Household										
Yes	91.5	17.3	5,070	442	91.4	1.2	4.8	1,408	126	1.3
No	5.1	8.4	2,472	220	5.0	1.0	3.3	976	88	5.2
1993 Family Income										
Less than \$5,000	4.0	10.7	3,143	292	4.0	1.1	4.0	1,176	110	4.8
\$5,000 to \$9,999	10.6	10.9	3,191	278	10.5	1.1	4.2	1,226	111	2.9
\$10,000 to \$14,999	11.1	12.5	3,663	325	11.1	1.1	4.2	1,227	112	2.7
\$15,000 to \$19,999	9.6	15.1	4,426	372	9.6	1.1	4.5	1,306	114	2.8
\$20,000 to \$24,999	8.7	15.6	4,583	386	8.7	1.1	4.5	1,326	115	3.0
\$25,000 to \$34,999	14.1	17.7	5,192	439	14.0	1.2	4.9	1,423	123	2.4
\$35,000 to \$49,999	17.4	19.0	5,580	490	17.4	1.2	4.8	1,401	126	2.3
\$50,000 to \$74,999	12.6	20.9	6,126	529	12.6	1.2	5.2	1,525	136	2.5
\$75,000 or More	8.3	24.1	7,058	654	8.3	1.3	6.0	1,747	166	3.6
Below Poverty Line										
100 Percent	14.4	12.8	3,751	333	14.3	1.1	4.2	1,230	112	2.6
125 Percent	19.4	13.3	3,894	342	19.3	1.1	4.2	1,240	113	2.3
150 Percent	24.7	13.6	3,987	347	24.6	1.1	4.3	1,265	114	2.1
Eligible for Federal Assistance ⁴										
30.6	13.4	3,913	345	30.6	1.1	4.3	1,247	114	1.8	
Age of Householder										
Under 25 Years	5.7	11.7	3,439	294	5.7	1.1	3.8	1,120	97	3.8
25 to 34 Years	19.9	15.5	4,554	397	19.9	1.1	4.0	1,176	106	1.9
35 to 44 Years	21.4	19.6	5,733	501	21.3	1.1	4.7	1,376	123	1.7
45 to 59 Years	21.9	19.6	5,734	495	21.9	1.2	5.2	1,535	136	2.0
60 Years and Over	27.7	14.6	4,267	376	27.7	1.2	5.0	1,480	134	2.0
Education of Householder										
12 Years or Fewer	51.5	16.1	4,719	406	51.4	1.1	4.7	1,373	121	1.5
13 to 16 Years	33.6	17.7	5,178	452	33.6	1.2	4.8	1,399	126	1.7
17 Years or More	11.5	17.7	5,177	472	11.5	1.2	4.8	1,401	130	3.2
Race of Householder										
White	80.1	17.6	5,149	443	80.1	1.2	4.8	1,404	124	1.4
Black	10.9	14.0	4,111	385	10.9	1.1	4.7	1,366	129	3.2
Other ⁵	5.5	11.7	3,431	339	5.5	1.1	4.0	1,163	120	4.3

See footnotes at end of table.

Table 5.27. Electricity Consumption and Expenditures for Appliances and Refrigerators, per U.S. Household, 1993 (Continued)

Characteristics	Electricity Used for Appliances				Electricity Used for Refrigerators					RSE Row Factors
	Households (million)	Consumed		Expenditures (dollars)	Households (million)	Average Number of Refrigerators	Consumed		Expenditures (dollars)	
		(million Btu)	(kWh)				(million Btu)	(kWh)		
RSE Column Factors:	1.6	1.0 ¹	1.0 ¹	1.0 ¹	1.6	0.4	0.9 ¹	0.9 ¹	1.1 ¹	
Householder of Hispanic Descent										
Yes	7.9	13.0	3,798	371	7.9	1.1	4.1	1,213	121	3.7
No	88.7	17.2	5,034	436	88.6	1.2	4.8	1,401	124	1.3
Average Electricity Expenditures (cents per kWh)										
Less than 6	9.3	22.8	6,694	348	--	--	--	--	--	3.9
6 to Less than 9	42.7	19.4	5,686	435	--	--	--	--	--	2.2
9 or More	44.6	13.1	3,845	443	--	--	--	--	--	2.0
Average Electric Refrigerator Expenditures (cents per kWh)										
Less than 6	--	--	--	--	9.3	1.2	5.4	1,568	82	3.9
6 to Less than 9	--	--	--	--	42.6	1.2	5.3	1,551	119	2.2
9 or More	--	--	--	--	44.6	1.1	4.1	1,190	138	2.0
Electric Appliances Used by Household (more than one may apply)										
Separate Freezer	33.4	23.1	6,771	558	33.4	1.2	5.2	1,531	127	1.5
Dishwasher	43.7	20.6	6,039	520	43.7	1.2	5.3	1,543	135	1.6
Clothes Washer	74.5	19.6	5,731	493	74.4	1.2	5.1	1,486	130	1.3
Clothes Dryer	54.7	21.0	6,144	506	54.6	1.2	5.1	1,508	126	1.3
Waterbed Heater	11.9	24.3	7,131	572	11.9	1.2	5.1	1,490	121	2.5
Swimming-Pool Pump	4.6	32.5	9,530	850	4.6	1.3	6.3	1,848	164	4.4
Hot-Tub or Spa Pump	2.8	33.4	9,788	803	2.8	1.4	6.7	1,958	166	5.1
Hot-Tub or Spa Heater	1.9	31.5	9,241	733	1.9	1.4	6.2	1,813	148	6.0
Well Pump	13.0	24.2	7,087	580	13.0	1.3	5.5	1,608	133	3.1
Appliance Combination Usage										
Dishwasher, Clothes Washer, and Clothes Dryer										
All	30.2	23.1	6,769	558	30.2	1.2	5.5	1,611	135	1.8
Some	49.7	16.2	4,755	426	49.7	1.2	4.7	1,366	125	1.4
None	16.6	7.3	2,127	210	16.5	1.0	3.5	1,032	103	2.3
Well Pump and Separate Freezer										
All	8.0	27.1	7,934	627	8.0	1.3	5.6	1,646	129	3.9
Some	30.4	21.5	6,295	531	30.4	1.2	5.1	1,503	129	1.5
None	58.2	13.0	3,813	351	58.1	1.1	4.4	1,289	121	1.4
Main Heating Fuel										
Natural Gas	51.4	16.4	4,799	438	51.3	1.2	4.7	1,390	130	1.8
Electricity	25.0	16.5	4,850	363	25.0	1.1	4.8	1,395	108	2.5
Fuel Oil or Kerosene	11.2	17.2	5,034	513	11.2	1.2	4.3	1,265	134	3.6
Wood	3.1	23.0	6,750	536	3.1	1.2	5.0	1,468	119	4.8
LPG	4.6	19.8	5,809	472	4.6	1.2	5.1	1,495	123	4.6
Other .....	.4	15.6	4,585	312	.4	1.0	4.1	1,211	85	14.7
Household Size										
1 Person	23.5	9.2	2,698	242	23.4	1.1	4.0	1,182	109	2.5
2 Persons	31.7	16.1	4,717	403	31.7	1.2	5.0	1,466	129	1.7
3 Persons	16.6	19.0	5,562	491	16.6	1.2	4.8	1,416	128	2.2
4 Persons	14.6	22.9	6,699	582	14.6	1.2	4.9	1,437	127	2.0
5 Persons	6.8	23.8	6,973	604	6.8	1.2	4.9	1,438	126	2.9
6 or More Persons	3.5	26.0	7,632	685	3.5	1.2	5.3	1,564	147	5.6

See footnotes at end of table.

Table 5.27. Electricity Consumption and Expenditures for Appliances and Refrigerators, per U.S. Household, 1993 (Continued)

Characteristics	Electricity Used for Appliances				Electricity Used for Refrigerators				RSE Row Factors	
	Households (million)	Consumed		Expenditures (dollars)	Households (million)	Average Number of Refrigerators	Consumed			Expenditures (dollars)
		(million Btu)	(kWh)				(million Btu)	(kWh)		
RSE Column Factors:	1.6	1.0 ¹	1.0 ¹	1.0 ¹	1.6	0.4	0.9 ¹	0.9 ¹	1.1 ¹	

Number of Refrigerators

1	82.1	15.7	4,614	406	82.1	1.0	4.1	1,194	108	1.2
2 or More	14.4	23.1	6,785	573	14.4	2.1	8.5	2,480	215	2.2

¹ This factor is underestimated because it contains no error for estimating this end use.

² Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

-- = Not applicable.

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, E, and H of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).

Table 5.28. Natural Gas and LPG Consumption and Expenditures for Appliances, per U.S. Household, 1993

Characteristics	Natural Gas				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Consumed		Expenditures (dollars)	Households (million)	Consumed		Expenditures (dollars)	
		(million Btu)	(1000 cubic feet)			(million Btu)	(gallons)		
RSE Column Factors:	0.9	0.5 ¹	0.5 ¹	0.6 ¹	2.5	1.3 ¹	1.3 ¹	1.5 ¹	
Total U.S. Households	37.8	7.7	7.5	53	4.9	6.0	66	85	4.0
Census Region and Division									
Northeast	10.1	7.6	7.4	72	1.0	5.1	56	97	6.8
New England	1.7	8.5	8.3	81	.4	4.8	53	91	17.0
Middle Atlantic	8.4	7.4	7.2	70	.6	5.3	58	102	7.3
Midwest	10.4	7.5	7.3	41	1.1	7.0	76	66	6.3
East North Central	7.9	7.7	7.5	42	.5	6.2	68	61	8.3
West North Central	2.4	7.1	6.9	38	.6	7.6	84	71	9.8
South	8.7	8.8	8.5	54	2.4	6.1	66	88	8.2
South Atlantic	2.9	7.7	7.5	57	1.4	6.5	71	113	8.6
East South Central	1.1	9.5	9.2	51	.5	5.8	63	60	17.3
West South Central	4.7	9.3	9.0	53	.5	5.2	57	47	18.2
West	8.6	6.8	6.6	42	.4	5.8	63	83	7.9
Mountain	1.6	6.5	6.4	37	.2	5.7	62	68	11.6
Pacific	7.0	6.9	6.7	43	.2	5.8	64	100	9.6
Largest Populated States									
California	6.6	6.8	6.6	43	.2	6.3	69	103	8.6
Florida .....	.3	7.2	7.0	67	.7	7.7	85	136	17.1
New York	4.5	7.3	7.1	83	.3	4.8	52	91	10.6
Texas	2.8	9.1	8.8	52	Q	3.2	34	30	21.8
Urban Status									
Urban	33.9	7.7	7.5	54	2.2	6.1	67	95	4.7
Central City	16.2	7.3	7.1	54	.5	5.6	62	90	8.4
Suburban	17.8	8.1	7.8	53	1.7	6.2	68	96	6.2
Rural	3.8	7.4	7.2	43	2.8	6.0	65	77	9.9
Climate Zone ²									
Under 2,000 CDD and Over 7,000 HDD	2.1	6.8	6.6	37	.8	5.8	63	75	9.9
5,500 to 7,000 HDD	12.2	7.6	7.4	49	.9	6.0	65	81	8.1
4,000 to 5,499 HDD	9.2	7.5	7.3	67	.9	6.2	68	89	7.8
Under 4,000 HDD	7.3	7.1	6.9	45	.7	5.6	62	85	8.9
2,000 CDD or More and Under 4,000 HDD	7.0	8.7	8.5	52	1.7	6.2	68	90	11.1
Total Number of Rooms (Excluding Bathrooms)									
1 or 2	1.3	4.4	4.2	48	Q	Q	Q	Q	14.1
3 to 5	17.8	6.7	6.5	48	3.0	5.6	62	81	4.7
6 to 8	16.1	8.4	8.2	54	1.7	6.2	68	83	5.7
9 or More	2.6	11.8	11.5	75	.2	11.7	128	174	16.4
Type of Housing Unit									
Single-Family	26.6	8.1	7.8	52	3.2	6.0	65	83	4.9
Detached	23.1	8.2	7.9	51	3.2	6.0	65	84	5.1
Attached	3.5	7.4	7.2	53	Q	Q	Q	Q	10.4
Mobile Home	1.5	6.3	6.2	37	1.5	6.2	68	86	8.4
Multifamily	9.7	6.8	6.6	57	.2	5.5	60	106	7.7
2 to 4 Units	4.2	7.8	7.6	61	.1	5.5	60	108	11.0
5 or More Units	5.5	6.0	5.8	54	Q	Q	Q	Q	6.7
Heated Floorspace (square feet)									
Fewer than 1,000	11.2	6.4	6.2	49	2.0	5.6	61	82	6.5
1,000 to 1,999	16.1	7.6	7.4	51	1.8	5.8	63	76	5.8
2,000 to 2,999	6.8	8.2	8.0	54	.7	7.1	78	102	7.6
3,000 or More	3.7	10.7	10.4	68	.4	7.5	82	107	13.0

See footnotes at end of table.

Table 5.28. Natural Gas and LPG Consumption and Expenditures for Appliances, per U.S. Household, 1993 (Continued)

Characteristics	Natural Gas				Liquefied Petroleum Gas				RSE Row Factors
	House- holds (million)	Consumed		Expend- itures (dollars)	House- holds (million)	Consumed		Expend- itures (dollars)	
		(million Btu)	(1000 cubic feet)			(million Btu)	(gallons)		
RSE Column Factors:	0.9	0.5 ¹	0.5 ¹	0.6 ¹	2.5	1.3 ¹	1.3 ¹	1.5 ¹	
Ownership of Unit									
Owned	24.6	8.0	7.8	52	3.8	6.3	69	85	4.9
Rented	13.2	7.0	6.8	53	1.2	5.3	58	84	5.0
Public Housing	1.4	7.3	7.1	50	NC	NC	NC	NC	15.0
Not Public Housing	11.8	6.9	6.7	53	1.2	5.3	58	84	5.3
Rent Subsidy	1.0	7.5	7.3	68	Q	Q	Q	Q	13.1
No Rent Subsidy	10.8	6.9	6.7	52	1.1	5.2	57	84	5.6
Year of Construction									
1939 or Before	10.9	7.2	7.0	55	1.2	5.8	63	77	6.4
1940 to 1949	3.4	7.3	7.1	52	.3	6.3	69	87	11.5
1950 to 1959	6.7	7.9	7.7	55	.4	5.2	57	78	8.7
1960 to 1969	5.7	7.5	7.3	49	.7	5.0	55	73	8.0
1970 to 1979	4.5	8.0	7.8	50	1.1	5.8	63	83	10.6
1980 to 1984	2.5	8.6	8.4	54	.4	6.3	69	91	13.7
1985 to 1987	1.6	7.2	7.0	46	.3	9.8	108	133	12.7
1988 to 1990	1.2	8.8	8.5	52	.3	6.3	68	101	11.4
1991 to 1993 ³	1.2	8.6	8.4	52	.2	6.5	71	78	12.4
Natural Gas Appliances									
Paid by Household									
Yes	32.7	7.8	7.6	53	--	--	--	--	4.2
No	5.1	6.7	6.5	46	--	--	--	--	9.1
Liquefied Petroleum Gas									
Paid by Household									
Yes	--	--	--	--	4.8	6.1	66	85	4.1
No	--	--	--	--	.1	4.8	53	64	11.7
1993 Family Income									
Less than \$5,000	1.8	7.2	7.1	56	.3	4.0	44	61	10.4
\$5,000 to \$9,999	4.3	6.5	6.3	49	.6	4.2	46	63	8.7
\$10,000 to \$14,999	4.7	7.1	6.9	48	.8	4.9	53	68	6.8
\$15,000 to \$19,999	3.6	6.8	6.6	43	.6	7.1	77	101	11.8
\$20,000 to \$24,999	3.4	7.0	6.8	47	.5	5.7	62	78	10.5
\$25,000 to \$34,999	4.6	7.5	7.3	50	.9	6.7	73	85	8.6
\$35,000 to \$49,999	6.6	7.9	7.6	54	.6	7.5	82	100	7.4
\$50,000 to \$74,999	5.1	8.2	8.0	56	.3	8.9	97	141	8.4
\$75,000 or More	3.6	10.5	10.3	72	.2	5.2	57	88	13.0
Below Poverty Line									
100 Percent	6.6	7.8	7.6	57	1.0	4.7	51	69	5.8
125 Percent	8.4	7.8	7.6	57	1.5	4.6	51	66	6.2
150 Percent	10.5	7.7	7.5	55	1.8	4.9	54	70	5.7
Eligible for Federal Assistance⁴									
	12.9	7.4	7.2	53	2.1	4.9	54	70	5.1
Age of Householder									
Under 25 Years	2.0	7.5	7.3	52	.2	3.9	43	57	9.7
25 to 34 Years	8.1	7.7	7.5	53	1.0	6.4	70	87	5.2
35 to 44 Years	8.4	8.0	7.7	54	1.2	7.4	81	108	6.4
45 to 59 Years	8.6	8.7	8.5	59	1.1	5.2	57	72	6.8
60 Years and Over	10.6	6.5	6.4	46	1.3	5.6	61	78	8.8
Education of Householder									
12 Years or Fewer	20.9	7.4	7.2	51	3.6	5.8	63	79	4.9
13 to 16 Years	12.3	8.0	7.7	54	1.2	6.9	76	104	5.8
17 Years or More	4.5	8.1	7.9	57	.2	5.5	60	81	11.2

See footnotes at end of table.

Table 5.28. Natural Gas and LPG Consumption and Expenditures for Appliances, per U.S. Household, 1993 (Continued)

Characteristics	Natural Gas				Liquefied Petroleum Gas				RSE Row Factors
	Households (million)	Consumed		Expenditures (dollars)	Households (million)	Consumed		Expenditures (dollars)	
		(million Btu)	(1000 cubic feet)			(million Btu)	(gallons)		
RSE Column Factors:	0.9	0.5 ¹	0.5 ¹	0.6 ¹	2.5	1.3 ¹	1.3 ¹	1.5 ¹	
Race of Householder									
White	28.9	7.6	7.4	51	4.4	6.2	68	86	4.6
Black	6.1	8.4	8.2	59	.5	4.6	50	68	8.5
Other ⁵	2.8	6.8	6.6	55	Q	Q	Q	Q	8.8
Householder of Hispanic Descent									
Yes	4.2	7.6	7.4	61	.4	5.0	55	87	9.7
No	33.6	7.7	7.5	52	4.5	6.1	67	85	4.2
Household Size									
1 Person	8.4	4.5	4.4	34	1.0	4.9	54	74	11.0
2 Persons	11.6	7.1	6.9	48	1.6	5.2	57	73	5.9
3 Persons	6.9	8.4	8.2	58	.8	5.9	65	82	6.0
4 Persons	6.4	9.3	9.0	61	.8	6.4	70	91	7.0
5 Persons	2.7	11.0	10.7	74	.6	9.4	103	129	9.0
6 or More Persons	1.8	12.3	12.0	83	.2	6.8	75	97	11.9

¹ This factor is underestimated because it contains no error for estimating this end use.

² Climate zones are based on annual degree-days that are averaged over 30 years from 1961 to 1990.

³ Does not include all new construction for 1993.

⁴ Below 150 percent of poverty line or 60 percent of median State income.

⁵ Includes some householders who described themselves as Hispanic rather than White, Black, or other.

-- = Not applicable.

NC = No cases in sample.

NF = No applicable RSE row/column factor.

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

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

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C, D, and F of the 1993 Residential Energy Consumption Survey (for specific titles of forms, see Appendix E).