

**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 <sup>1</sup>	1.1 <sup>1</sup>	1.1 <sup>1</sup>	0.9	0.9 <sup>1</sup>	0.9 <sup>1</sup>	0.9 <sup>1</sup>	
<b>Total U.S. Households</b> .....	<b>37.3</b>	<b>0.34</b>	<b>99</b>	<b>7.58</b>	<b>51.5</b>	<b>1.31</b>	<b>1,276</b>	<b>8.08</b>	<b>3.5</b>
<b>Census Region and Division</b>									
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
<b>Largest Populated States</b>									
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
<b>Urban Status</b>									
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
<b>Climate Zone <sup>2</sup></b>									
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	
<b>Total Number of Rooms (Excluding Bathrooms)</b>									
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
<b>Type of Housing Unit</b>									
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
<b>Heated Floorspace (square feet)</b>									
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 <sup>1</sup>	1.1 <sup>1</sup>	1.1 <sup>1</sup>	0.9	0.9 <sup>1</sup>	0.9 <sup>1</sup>	0.9 <sup>1</sup>	
<b>Ownership of Unit</b>									
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
<b>Year of Construction</b>									
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 <sup>2</sup> .....	2.1	.02	5	.39	2.1	.06	56	.36	16.1
<b>Electric Water-Heating</b>									
<b>Paid by Household .....</b>	<b>35.3</b>	<b>.33</b>	<b>95</b>	<b>7.27</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>3.4</b>
<b>Natural Gas Water-Heating</b>									
<b>Paid by Household .....</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>42.0</b>	<b>1.09</b>	<b>1,061</b>	<b>6.67</b>	<b>4.2</b>
<b>1993 Family Income</b>									
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
<b>Below Poverty Line</b>									
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
<b>Eligible for Federal Assistance<sup>4</sup> .....</b>									
<b>11.9</b>	<b>.10</b>	<b>30</b>	<b>2.36</b>	<b>16.0</b>	<b>.39</b>	<b>383</b>	<b>2.45</b>	<b>5.0</b>	
<b>Age of Householder</b>									
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
<b>Education of Householder</b>									
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 <sup>1</sup>	1.1 <sup>1</sup>	1.1 <sup>1</sup>	0.9	0.9 <sup>1</sup>	0.9 <sup>1</sup>	0.9 <sup>1</sup>	
<b>Race of Householder</b>									
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 <sup>5</sup> .....	1.6	.01	4	.33	3.5	.09	84	.57	10.2
<b>Householder of Hispanic Descent</b>									
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
<b>Household Size</b>									
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

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

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

<sup>3</sup> Does not include all new construction for 1993.

<sup>4</sup> Below 150 percent of poverty line or 60 percent of median State income.

<sup>5</sup> 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 <sup>1</sup>	0.8 <sup>1</sup>	0.9 <sup>1</sup>	1.2	1.2 <sup>1</sup>	1.2 <sup>1</sup>	1.2 <sup>1</sup>	
<b>Total U.S. Households</b> .....	<b>4.6</b>	<b>0.12</b>	<b>0.87</b>	<b>0.73</b>	<b>2.9</b>	<b>0.05</b>	<b>0.59</b>	<b>0.58</b>	<b>10.7</b>
<b>Census Region and Division</b>									
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
<b>Largest Populated States</b>									
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
<b>Urban Status</b>									
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
<b>Climate Zone <sup>2</sup></b>									
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
<b>Total Number of Rooms (Excluding Bathrooms)</b>									
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
<b>Type of Housing Unit</b>									
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
<b>Heated Floorspace (square feet)</b>									
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 <sup>1</sup>	0.8 <sup>1</sup>	0.9 <sup>1</sup>	1.2	1.2 <sup>1</sup>	1.2 <sup>1</sup>	1.2 <sup>1</sup>	
<b>Ownership of Unit</b>									
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
<b>Year of Construction</b>									
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 <sup>3</sup> .....	.1	(*)	.02	.02	.2	(*)	.04	.04	37.9
<b>Fuel Oil</b>									
<b>Paid by Household .....</b>	<b>2.9</b>	<b>.08</b>	<b>.57</b>	<b>.52</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>16.0</b>
<b>Liquefied Petroleum Gas</b>									
<b>Paid by Household .....</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>2.8</b>	<b>.05</b>	<b>.57</b>	<b>.56</b>	<b>15.3</b>
<b>1993 Family Income</b>									
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
<b>Below Poverty Line</b>									
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
<b>Eligible for Federal Assistance<sup>4</sup> .....</b>									
<b>Assistance<sup>4</sup> .....</b>	<b>1.4</b>	<b>.03</b>	<b>.23</b>	<b>.18</b>	<b>1.1</b>	<b>.02</b>	<b>.20</b>	<b>.20</b>	<b>16.3</b>
<b>Age of Householder</b>									
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
<b>Education of Householder</b>									
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
<b>Race of Householder</b>									
White .....	3.9	.10	.73	.63	2.6	.05	.54	.53	12.0
Black .....	.4	.01	.08	.06	.2	(*)	.04	.04	20.6
Other <sup>5</sup> .....	.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 <sup>1</sup>	0.8 <sup>1</sup>	0.9 <sup>1</sup>	1.2	1.2 <sup>1</sup>	1.2 <sup>1</sup>	1.2 <sup>1</sup>	

**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

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

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

<sup>3</sup> Does not include all new construction for 1993.

<sup>4</sup> Below 150 percent of poverty line or 60 percent of median State income.

<sup>5</sup> 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 <sup>1</sup>	1.0 <sup>1</sup>	1.0 <sup>1</sup>	0.8 <sup>1</sup>	1.9	0.7 <sup>1</sup>	0.7 <sup>1</sup>	0.8 <sup>1</sup>	0.8 <sup>1</sup>	
<b>Total U.S. Households</b> .....	<b>37.0</b>	<b>9.1</b>	<b>2,671</b>	<b>204</b>	<b>1,055</b>	<b>51.4</b>	<b>25.5</b>	<b>24.8</b>	<b>157</b>	<b>9.3</b>	<b>1.6</b>
<b>Census Region and Division</b>											
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
<b>Largest Populated States</b>											
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
<b>Urban Status</b>											
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
<b>Climate Zone <sup>2</sup></b>											
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
<b>Total Number of Rooms (Excluding Bathrooms)</b>											
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
<b>Type of Housing Unit</b>											
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 <sup>1</sup>	1.0 <sup>1</sup>	1.0 <sup>1</sup>	0.8 <sup>1</sup>	1.9	0.7 <sup>1</sup>	0.7 <sup>1</sup>	0.8 <sup>1</sup>	0.8 <sup>1</sup>	
<b>Heated Floorspace (square feet)</b>											
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
<b>Ownership of Unit</b>											
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
<b>Year of Construction</b>											
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 <sup>3</sup> .....	2.1	8.5	2,504	187	985	2.1	26.9	26.2	168	9.6	7.2
<b>Electric Water-Heating Paid by Household</b>											
Yes .....	35.0	9.3	2,718	207	1,060	--	--	--	--	--	1.6
No .....	2.0	6.3	1,860	153	953	--	--	--	--	--	7.3
<b>Natural Gas Water-Heating Paid by Household</b>											
Yes .....	--	--	--	--	--	41.9	26.0	25.3	159	9.1	1.8
No .....	--	--	--	--	--	9.5	23.2	22.6	148	10.6	3.8
<b>1993 Family Income</b>											
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
<b>Below Poverty Line</b>											
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
<b>Eligible for Federal Assistance <sup>4</sup> .....</b>											
	<b>11.8</b>	<b>8.7</b>	<b>2,561</b>	<b>199</b>	<b>978</b>	<b>16.0</b>	<b>24.6</b>	<b>23.9</b>	<b>153</b>	<b>9.1</b>	<b>2.7</b>

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 <sup>1</sup>	1.0 <sup>1</sup>	1.0 <sup>1</sup>	0.8 <sup>1</sup>	1.9	0.7 <sup>1</sup>	0.7 <sup>1</sup>	0.8 <sup>1</sup>	0.8 <sup>1</sup>	
<b>Age of Householder</b>											
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
<b>Education of Householder</b>											
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
<b>Race of Householder</b>											
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 <sup>5</sup> .....	1.6	8.6	2,529	206	818	3.5	24.4	23.7	159	6.8	5.7
<b>Householder of Hispanic Descent</b>											
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
<b>Household Size</b>											
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
<b>Average Electricity Expenditures (cents per kWh)</b>											
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
<b>Average Natural Gas Expenditures (dollars per 1000 cf)</b>											
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
<b>Water Heater Used</b>											
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
<b>Age of Water Heater (for one housing unit)</b>											
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 <sup>1</sup>	1.0 <sup>1</sup>	1.0 <sup>1</sup>	0.8 <sup>1</sup>	1.9	0.7 <sup>1</sup>	0.7 <sup>1</sup>	0.8 <sup>1</sup>	0.8 <sup>1</sup>	
<b>Size of Water Heater (for one housing unit)</b>											
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
<b>Clothes Washer</b>											
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
<b>Dishwasher</b>											
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
<b>Children Present in Household (more than one may apply)</b>											
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

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

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

<sup>3</sup> Does not include all new construction for 1993.

<sup>4</sup> Below 150 percent of poverty line or 60 percent of median State income.

<sup>5</sup> 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 <sup>1</sup>	0.6 <sup>1</sup>	0.7 <sup>1</sup>	0.6 <sup>1</sup>	2.4	1.1 <sup>1</sup>	1.1 <sup>1</sup>	1.2 <sup>1</sup>	1.1 <sup>1</sup>	
<b>Total U.S. Households</b>	<b>4.6</b>	<b>26.2</b>	<b>189</b>	<b>158</b>	<b>70</b>	<b>2.9</b>	<b>18.7</b>	<b>205</b>	<b>201</b>	<b>78</b>	<b>4.6</b>
<b>Census Region and Division</b>											
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
<b>Largest Populated States</b>											
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
<b>Urban Status</b>											
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
<b>Climate Zone <sup>2</sup></b>											
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
<b>Total Number of Rooms (Excluding Bathrooms)</b>											
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
<b>Type of Housing Unit</b>											
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
<b>Heated Floorspace (square feet)</b>											
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 <sup>1</sup>	0.6 <sup>1</sup>	0.7 <sup>1</sup>	0.6 <sup>1</sup>	2.4	1.1 <sup>1</sup>	1.1 <sup>1</sup>	1.2 <sup>1</sup>	1.1 <sup>1</sup>	
<b>Ownership of Unit</b>											
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
<b>Year of Construction</b>											
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 <sup>3</sup> .....	.1	35.6	256	235	65	.2	21.9	240	217	79	14.3
<b>Fuel Oil Paid by Household</b>											
Yes .....	2.9	27.0	195	179	67	--	--	--	--	--	7.0
No .....	1.6	24.6	177	121	76	--	--	--	--	--	4.9
<b>Liquefied Petroleum Gas Paid by Household</b>											
Yes .....	--	--	--	--	--	2.7	18.7	204	201	77	9.4
No .....	--	--	--	--	--	Q	Q	Q	Q	Q	NF
<b>1993 Family Income</b>											
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
<b>Below Poverty Line</b>											
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
<b>Eligible for Federal Assistance<sup>4</sup></b>											
.....	<b>1.3</b>	<b>23.7</b>	<b>171</b>	<b>130</b>	<b>69</b>	<b>1.1</b>	<b>16.0</b>	<b>175</b>	<b>174</b>	<b>66</b>	<b>8.2</b>
<b>Age of Householder</b>											
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
<b>Education of Householder</b>											
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 <sup>1</sup>	0.6 <sup>1</sup>	0.7 <sup>1</sup>	0.6 <sup>1</sup>	2.4	1.1 <sup>1</sup>	1.1 <sup>1</sup>	1.2 <sup>1</sup>	1.1 <sup>1</sup>	
<b>Race of Householder</b>											
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 <sup>5</sup> .....	.3	28.9	208	148	58	Q	Q	Q	Q	Q	11.3
<b>Householder of Hispanic Descent</b>											
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
<b>Household Size</b>											
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
<b>Average Fuel Oil Expenditures (dollars per gallon)</b>											
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
<b>Average LPG Expenditures (dollars per gallon)</b>											
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
<b>Water Heater Used</b>											
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
<b>Age of Water Heater (for one housing unit)</b>											
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
<b>Size of Water Heater (for one housing unit)</b>											
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
<b>Clothes Washer</b>											
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
<b>Dishwasher</b>											
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 <sup>1</sup>	0.6 <sup>1</sup>	0.7 <sup>1</sup>	0.6 <sup>1</sup>	2.4	1.1 <sup>1</sup>	1.1 <sup>1</sup>	1.2 <sup>1</sup>	1.1 <sup>1</sup>	

**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
<b>(more than one may apply)</b>											
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

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

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

<sup>3</sup> Does not include all new construction for 1993.

<sup>4</sup> Below 150 percent of poverty line or 60 percent of median State income.

<sup>5</sup> 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).