

2001 Consumption and Expenditures Tables

Space-Heating Consumption Tables

(36 pages, 145 kb)

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These data are from the 2001 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects energy-related data for occupied primary housing units. RECS was first conducted in 1978; the twelfth and most recent survey was conducted in 2001. In the 2001 RECS, data were collected from a sample of 4,822 households in housing units statistically selected to represent the 107.0 million housing units in the United States. The RECS data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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World Wide Web: <http://www.eia.doe.gov/emeu/consumption>

Table CE2-1c. Space-Heating Energy Consumption in U.S. Households by Climate Zone, 2001

	Climate Zone ¹						RSE Row Factors
	Total	Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
		0.5	1.3	0.9	1.0		
RSE Column Factor:							
Million Households							
Total U.S. Households	107.0	9.2	28.6	24.0	21.0	24.1	8.3
No Space Heating	1.0	Q	Q	Q	0.3	0.5	13.9
Space Heating	106.0	9.2	28.6	23.9	20.7	23.6	8.4
Not Using a Major Fuel ²	0.7	0.1	Q	Q	0.2	Q	34.0
Using a Major Fuel ²	105.3	9.1	28.5	23.7	20.4	23.5	8.4
For Main Space Heating	103.8	8.6	28.3	23.3	20.2	23.4	8.5
For Secondary Space Heating Only	1.5	0.5	0.2	0.4	0.2	Q	26.8
Number of Households with Space Heating, Major Fuels Used (more than one may apply):							
Electricity	43.8	2.7	8.1	8.9	9.4	14.7	9.1
Natural Gas	60.5	4.9	20.4	12.7	12.2	10.3	9.1
Fuel Oil	8.5	1.8	2.8	3.5	Q	Q	17.9
Kerosene	2.7	0.4	0.6	0.7	0.7	0.3	22.9
LPG	6.6	1.0	1.7	1.4	1.6	1.0	25.8
Quadrillion Btu^a							
Space-Heating Btu Consumption, Major Fuels Used:							
Electricity	0.39	0.03	0.08	0.12	0.08	0.09	13.0
Natural Gas	3.32	0.34	1.48	0.76	0.41	0.33	11.1
Fuel Oil	0.58	0.14	0.22	0.20	Q	Q	20.9
Kerosene	0.04	0.01	0.01	0.01	0.01	Q	34.2
LPG	0.28	0.05	0.09	0.06	0.05	0.03	29.0
Total	4.62	0.58	1.89	1.15	0.56	0.44	8.8
Physical Units^a							
Physical Units of Space-Heating Consumption, Major Fuels Used:							
Electricity (billion kWh)	116	9	24	34	23	25	13.0
Natural Gas (billion cf)	3,231	332	1,442	743	397	317	11.1
Fuel Oil (million gallons)	4,155	1,024	1,597	1,458	Q	Q	20.9
Kerosene (million gallons)	326	73	79	67	90	Q	34.2
LPG (million gallons)	3,097	578	968	672	563	316	29.0
Million Btu per Household^a							
Average Space-Heating Btu Consumption per Household							
Using a Major Fuel ²	43.9	63.2	66.2	48.6	27.5	18.9	4.5
For Main Space Heating	44.3	65.5	66.6	49.2	27.7	18.9	4.5
For Secondary Space Heating Only ...	18.1	20.6	26.2	16.6	9.3	Q	24.3

See footnotes at end of table.

Table CE2-1c. Space-Heating Energy Consumption in U.S. Households by Climate Zone, 2001 (Continued)

	Climate Zone ¹						RSE Row Factors
	Total	Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.3	0.9	1.0	1.3	1.2	
Million Households							
Number of Households, Where the Main Space-Heating Fuel Is:							
Electricity	30.9	1.2	3.9	6.3	6.9	12.6	11.1
Natural Gas	59.1	4.8	20.2	12.4	11.8	9.8	9.1
Fuel Oil	8.0	1.7	2.7	3.5	Q	Q	17.9
Kerosene	0.8	0.1	Q	Q	0.4	Q	28.4
LPG	4.9	0.8	1.3	1.1	1.0	0.9	28.7
Other	2.2	0.6	0.4	0.6	0.5	Q	24.4
No Space Heating	1.0	Q	Q	Q	0.3	0.5	13.9
Million Btu per Household^{4,a}							
Space-Heating Btu Consumption per Household,³ Where the Main Space-Heating Fuel Is:							
Electricity	12.0	22.2	19.4	17.8	11.0	6.5	6.6
Natural Gas	55.4	70.4	72.9	60.5	33.4	32.2	4.3
Fuel Oil	70.2	79.4	82.2	58.1	Q	Q	6.7
Kerosene	38.3	62.6	Q	Q	27.5	Q	17.2
LPG	51.0	65.5	61.7	52.6	43.3	28.7	7.5
Physical Units (PU) per Household^{4,a}							
Physical Units of Space-Heating Consumption per Household,³ Where the Main Space-Heating Fuel Is:							
Electricity (kWh)	3,524	6,517	5,673	5,206	3,216	1,896	6.6
Natural Gas (thousand cf)	54	68	71	59	32	31	4.3
Fuel Oil (gallons)	507	573	593	419	Q	Q	6.7
Kerosene (gallons)	283	464	Q	Q	203	Q	17.2
LPG (gallons)	559	717	676	576	474	314	7.5
2001 Heating Degree-Days (HDD) per Household⁴							
2001 Heating Degree-Days per Household, Where the Main Space-Heating Fuel Is:							
Electricity	3,006	6,838	5,640	4,238	2,696	1,371	3.4
Natural Gas	4,255	7,169	5,685	4,332	2,321	2,119	3.0
Fuel Oil	5,339	6,903	5,644	4,437	Q	Q	3.8
Kerosene	4,636	6,625	Q	Q	3,976	Q	8.1
LPG	4,643	7,016	6,060	4,359	3,179	2,384	6.1
Average for All Heated Households	4,004	7,008	5,690	4,322	2,549	1,733	2.1

See footnotes at end of table.

Table CE2-1c. Space-Heating Energy Consumption in U.S. Households by Climate Zone, 2001 (Continued)

	Climate Zone ¹						RSE Row Factors
	Total	Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.5	1.3	0.9	1.0	1.3	1.2	
Heated Square Footage (HSF) per Household⁴							
Heated Square Footage per Household, Where the Main Space-Heating Fuel Is:							
Electricity	1,399	1,244	1,403	1,473	1,380	1,386	7.5
Natural Gas	1,836	2,130	2,003	1,863	1,560	1,645	3.7
Fuel Oil	2,043	2,005	2,404	1,843	Q	Q	7.1
Kerosene	1,076	1,529	Q	Q	1,120	Q	9.3
LPG	1,570	1,674	1,687	1,657	1,506	1,263	8.8
Average for All Heated Households	1,707	1,954	1,935	1,741	1,490	1,490	3.5
Space-Heating Intensity^{4,a} [PU÷(HDD×(HSF÷1000))]							
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:							
Electricity (kWh)	0.838	0.766	0.717	0.834	0.864	0.998	5.4
Natural Gas (cubic feet)	6.893	4.479	6.222	7.291	8.951	8.969	3.8
Fuel Oil (gallons)	0.046	0.041	0.044	0.051	Q	Q	6.5
Kerosene (gallons)	0.057	0.046	Q	Q	0.046	Q	23.1
LPG (gallons)	0.077	0.061	0.066	0.080	0.099	0.104	9.8

¹ One of five climatically distinct areas, determined according to the 30-year average (1961-1990) of the annual heating and cooling degree-days. For this report, the heating or cooling degree-days are a measure of how cold or how hot a location is over a period of one year, relative to a base temperature of 65 degrees Fahrenheit. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

² The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

³ Includes only the space-heating consumption of the space-heating fuel. Not included are: 1) the consumption of the main space-heating fuel for uses other than space heating; 2) the consumption of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the consumption of other fuels that are used as secondary space-heating fuels.

⁴ Averages are for those households using each of the main space-heating fuels.

^a The row factor in this section is underestimated because it contains no error for estimating the end-use.

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 2001 Residential Energy Consumption Survey.

Table CE2-2c. Space-Heating Energy Consumption in U.S. Households by Year of Construction, 2001

	Total	Year of Construction						RSE Row Factors
		1990 to 2001 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.5	1.1	1.0	1.2	1.1	0.9	
Million Households								
Total U.S. Households	107.0	15.5	18.2	18.8	13.8	14.2	26.6	4.3
No Space Heating	1.0	Q	Q	Q	0.2	0.3	Q	22.6
Space Heating	106.0	15.4	18.2	18.6	13.6	13.9	26.4	4.4
Not Using a Major Fuel ²	0.7	Q	Q	Q	Q	Q	0.2	39.1
Using a Major Fuel ²	105.3	15.4	18.1	18.5	13.4	13.8	26.2	4.3
For Main Space Heating	103.8	15.2	17.8	18.1	13.2	13.6	25.8	4.4
For Secondary Space Heating Only	1.5	0.1	0.3	0.4	Q	Q	0.4	25.3
Number of Households with Space Heating, Major Fuels Used (more than one may apply):								
Electricity	43.8	6.8	10.3	10.1	4.7	4.4	7.5	6.2
Natural Gas	60.5	8.7	7.7	8.0	8.6	9.5	17.9	6.3
Fuel Oil	8.5	0.3	0.4	0.9	1.3	1.8	3.8	15.6
Kerosene	2.7	0.4	0.3	0.6	0.3	0.2	0.7	21.7
LPG	6.6	1.2	1.2	1.2	0.8	0.5	1.8	17.0
Quadrillion Btu^a								
Space-Heating Btu Consumption, Major Fuels Used:								
Electricity	0.39	0.06	0.10	0.11	0.04	0.03	0.05	9.2
Natural Gas	3.32	0.41	0.36	0.38	0.41	0.52	1.25	7.3
Fuel Oil	0.58	0.02	0.03	0.05	0.07	0.12	0.29	18.4
Kerosene	0.04	0.01	(*)	0.02	Q	(*)	0.01	32.7
LPG	0.28	0.04	0.04	0.05	0.03	0.02	0.10	19.3
Total	4.62	0.54	0.53	0.60	0.55	0.69	1.70	5.3
Physical Units^a								
Physical Units of Space-Heating Consumption, Major Fuels Used:								
Electricity (billion kWh)	116	18	28	32	12	10	16	9.2
Natural Gas (billion cf)	3,231	401	346	367	397	507	1,212	7.3
Fuel Oil (million gallons)	4,155	124	221	371	494	868	2,077	18.4
Kerosene (million gallons)	326	65	31	116	Q	24	57	32.8
LPG (million gallons)	3,097	466	478	524	345	179	1,105	19.3
Million Btu per Household^a								
Average Space-Heating Btu Consumption per Household								
Using a Major Fuel ²	43.9	35.2	29.4	32.6	41.3	50.4	64.9	3.6
For Main Space Heating	44.3	35.4	29.5	33.0	41.6	50.8	65.5	3.6
For Secondary Space Heating Only	18.1	Q	21.2	14.3	Q	Q	23.8	27.0

See footnotes at end of table.

Table CE2-2c. Space-Heating Energy Consumption in U.S. Households by Year of Construction, 2001 (Continued)

	Total	Year of Construction						RSE Row Factors
		1990 to 2001 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.5	1.1	1.0	1.2	1.1	0.9	
Million Households								
Number of Households, Where the Main Space-Heating Fuel Is:								
Electricity	30.9	5.5	9.0	8.4	3.0	2.2	2.8	8.2
Natural Gas	59.1	8.5	7.3	7.8	8.5	9.2	17.7	6.4
Fuel Oil	8.0	0.2	0.4	0.8	1.1	1.8	3.7	15.8
Kerosene	0.8	Q	Q	0.3	Q	Q	Q	29.7
LPG	4.9	0.8	0.9	0.8	0.6	0.4	1.5	19.3
Other	2.2	0.2	0.4	0.5	0.3	0.2	0.6	23.8
No Space Heating	1.0	Q	Q	Q	0.2	0.3	Q	22.6
Million Btu per Household^{4,a}								
Space-Heating Btu Consumption per Household,³ Where the Main Space-Heating Fuel Is:								
Electricity	12.0	10.6	10.4	12.7	12.9	13.0	16.3	6.3
Natural Gas	55.4	47.6	46.6	47.3	47.7	55.6	70.0	3.9
Fuel Oil	70.2	68.1	68.4	62.9	59.0	68.2	76.5	8.2
Kerosene	38.3	Q	Q	36.7	Q	Q	Q	23.6
LPG	51.0	46.3	40.1	51.1	50.4	38.1	63.2	8.7
Physical Units (PU) per Household^{4,a}								
Physical Units of Space-Heating Consumption per Household,³ Where the Main Space-Heating Fuel Is:								
Electricity (kWh)	3,524	3,100	3,054	3,724	3,780	3,808	4,784	6.3
Natural Gas (thousand cf)	54	46	45	46	46	54	68	3.9
Fuel Oil (gallons)	507	491	493	454	426	492	552	8.1
Kerosene (gallons)	283	Q	Q	272	Q	Q	Q	23.6
LPG (gallons)	559	506	439	559	552	417	692	8.7
2001 Heating Degree-Days (HDD) per Household⁴								
2001 Heating Degree-Days per Household, Where the Main Space-Heating Fuel Is:								
Electricity	3,006	3,121	2,799	3,080	2,802	2,761	3,641	5.2
Natural Gas	4,255	3,931	4,260	4,058	4,060	4,096	4,673	3.1
Fuel Oil	5,339	6,260	6,060	5,433	4,968	5,167	5,362	4.7
Kerosene	4,636	Q	Q	4,482	Q	Q	Q	10.9
LPG	4,643	5,309	4,256	4,685	4,261	4,211	4,752	7.9
Average for All Heated Households	4,004	3,776	3,588	3,726	3,880	4,014	4,680	2.5

See footnotes at end of table.

Table CE2-2c. Space-Heating Energy Consumption in U.S. Households by Year of Construction, 2001 (Continued)

	Total	Year of Construction						RSE Row Factors
		1990 to 2001 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.5	1.1	1.0	1.2	1.1	0.9	
Heated Square Footage (HSF) per Household⁴								
Heated Square Footage per Household, Where the Main Space-Heating Fuel Is:								
Electricity	1,399	1,607	1,422	1,313	1,412	1,348	1,196	6.0
Natural Gas	1,836	2,510	2,077	1,650	1,584	1,750	1,657	3.4
Fuel Oil	2,043	3,225	2,057	2,251	1,901	2,106	1,931	8.2
Kerosene	1,076	Q	Q	1,039	Q	Q	Q	14.9
LPG	1,570	1,953	1,671	1,577	1,549	1,513	1,332	9.8
Average for All Heated Households	1,707	2,155	1,731	1,524	1,559	1,721	1,628	2.9
Space-Heating Intensity^{4,a} [PU÷(HDD×(HSF÷1000))]								
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:								
Electricity (kWh)	0.838	0.618	0.768	0.921	0.956	1.023	1.098	5.5
Natural Gas (cubic feet)	6.893	4.688	5.124	6.865	7.203	7.537	8.784	3.5
Fuel Oil (gallons)	0.046	0.024	0.040	0.037	0.045	0.045	0.053	8.9
Kerosene (gallons)	0.057	Q	Q	0.058	Q	Q	Q	22.2
LPG (gallons)	0.077	0.049	0.062	0.076	0.084	0.065	0.109	10.0

¹ New construction for 2001 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

² The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

³ Includes only the space-heating consumption of the space-heating fuel. Not included are: 1) the consumption of the main space-heating fuel for uses other than space heating; 2) the consumption of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the consumption of other fuels that are used as secondary space-heating fuels.

⁴ Averages are for those households using each of the main space-heating fuels.

^a The row factor in this section is underestimated because it contains no error for estimating the end-use.

(*) = 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.

• 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 2001 Residential Energy Consumption Survey.

Table CE2-3c. Space-Heating Energy Consumption in U.S. Households by Household Income, 2001

	Total	2001 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$29,999	\$30,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.6	0.9	1.0	0.9	1.3	0.9	
Million Households								
Total U.S. Households	107.0	11.0	30.6	27.1	38.3	15.0	33.8	3.4
No Space Heating	1.0	Q	0.3	0.3	0.3	0.3	0.4	23.7
Space Heating	106.0	10.8	30.3	26.8	38.1	14.6	33.4	3.4
Not Using a Major Fuel ²	0.7	Q	Q	0.3	0.2	Q	0.2	32.6
Using a Major Fuel ²	105.3	10.8	30.2	26.5	37.8	14.6	33.2	3.4
For Main Space Heating	103.8	10.6	29.8	26.1	37.3	14.4	32.8	3.5
For Secondary Space Heating Only	1.5	Q	0.4	0.4	0.5	0.2	0.4	22.3
Number of Households with Space Heating, Major Fuels Used (more than one may apply):								
Electricity	43.8	4.9	12.7	11.1	15.1	6.5	13.9	5.6
Natural Gas	60.5	5.6	16.5	14.6	23.8	7.8	18.2	5.2
Fuel Oil	8.5	0.6	2.2	2.4	3.3	0.8	2.4	12.9
Kerosene	2.7	0.4	0.8	0.8	0.7	0.7	1.2	17.5
LPG	6.6	0.7	2.1	1.8	2.0	1.0	2.2	15.2
Quadrillion Btu^a								
Space-Heating Btu Consumption, Major Fuels Used:								
Electricity	0.39	0.04	0.11	0.10	0.14	0.05	0.12	8.1
Natural Gas	3.32	0.26	0.84	0.79	1.44	0.36	0.93	6.3
Fuel Oil	0.58	0.03	0.14	0.16	0.25	0.04	0.15	14.5
Kerosene	0.04	0.01	0.02	0.01	0.01	0.01	0.03	27.4
LPG	0.28	0.02	0.09	0.08	0.09	0.03	0.09	18.6
Total	4.62	0.36	1.20	1.14	1.92	0.50	1.32	4.4
Physical Units^a								
Physical Units of Space-Heating Consumption, Major Fuels Used:								
Electricity (billion kWh)	116	11	32	31	42	16	36	8.1
Natural Gas (billion cf)	3,231	253	816	764	1,398	350	908	6.3
Fuel Oil (million gallons)	4,155	196	1,007	1,145	1,807	273	1,077	14.5
Kerosene (million gallons)	326	70	127	84	46	106	186	27.4
LPG (million gallons)	3,097	238	1,027	900	931	349	952	18.6
Million Btu per Household^a								
Average Space-Heating Btu Consumption per Household								
Using a Major Fuel ²	43.9	33.1	39.7	43.1	50.8	34.1	39.7	3.4
For Main Space Heating	44.3	33.4	40.0	43.5	51.3	34.5	40.0	3.5
For Secondary Space Heating Only	18.1	Q	14.9	21.9	18.9	10.6	18.6	23.2

See footnotes at end of table.

Table CE2-3c. Space-Heating Energy Consumption in U.S. Households by Household Income, 2001 (Continued)

	Total	2001 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$29,999	\$30,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.6	0.9	1.0	0.9	1.3	0.9	
Million Households								
Number of Households, Where the Main Space-Heating Fuel Is:								
Electricity	30.9	3.7	9.4	8.1	9.7	4.9	10.3	7.3
Natural Gas	59.1	5.5	16.2	14.3	23.1	7.7	17.9	5.3
Fuel Oil	8.0	0.5	2.1	2.2	3.2	0.7	2.3	13.0
Kerosene	0.8	0.3	0.4	0.1	Q	0.4	0.6	25.1
LPG	4.9	0.6	1.7	1.4	1.2	0.7	1.8	17.1
Other	2.2	0.2	0.5	0.8	0.8	0.3	0.6	20.0
No Space Heating	1.0	Q	0.3	0.3	0.3	0.3	0.4	23.7
Million Btu per Household^{4,a}								
Space-Heating Btu Consumption per Household,³ Where the Main Space-Heating Fuel Is:								
Electricity	12.0	9.7	10.9	12.4	13.7	10.3	11.2	5.1
Natural Gas	55.4	46.7	51.4	54.0	61.1	46.6	51.7	3.5
Fuel Oil	70.2	49.2	65.6	69.3	77.5	50.1	64.8	6.4
Kerosene	38.3	29.2	35.4	54.2	Q	31.8	33.3	17.6
LPG	51.0	34.8	51.0	52.7	56.8	38.2	44.6	7.9
Physical Units (PU) per Household^{4,a}								
Physical Units of Space-Heating Consumption per Household,³ Where the Main Space-Heating Fuel Is:								
Electricity (kWh)	3,524	2,837	3,203	3,624	4,014	3,015	3,281	5.1
Natural Gas (thousand cf)	54	45	50	52	59	45	50	3.5
Fuel Oil (gallons)	507	355	473	499	559	361	468	6.4
Kerosene (gallons)	283	217	262	401	Q	235	247	17.6
LPG (gallons)	559	381	558	577	622	419	489	7.9
2001 Heating Degree-Days (HDD) per Household⁴								
2001 Heating Degree-Days per Household, Where the Main Space-Heating Fuel Is:								
Electricity	3,006	3,329	3,053	2,979	2,859	3,222	3,273	4.7
Natural Gas	4,255	4,167	4,247	4,378	4,206	3,986	4,277	2.4
Fuel Oil	5,339	5,501	5,471	5,259	5,279	5,461	5,456	4.0
Kerosene	4,636	4,297	4,484	5,355	Q	4,309	4,404	8.1
LPG	4,643	3,852	4,630	4,840	4,800	4,072	4,557	6.9
Average for All Heated Households	4,004	3,940	4,006	4,063	3,980	3,836	4,084	2.0

See footnotes at end of table.

Table CE2-3c. Space-Heating Energy Consumption in U.S. Households by Household Income, 2001 (Continued)

	Total	2001 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$29,999	\$30,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.6	0.9	1.0	0.9	1.3	0.9	
Heated Square Footage (HSF) per Household⁴								
Heated Square Footage per Household, Where the Main Space-Heating Fuel Is:								
Electricity	1,399	786	1,035	1,296	2,072	866	967	4.9
Natural Gas	1,836	1,067	1,340	1,688	2,458	1,100	1,319	2.7
Fuel Oil	2,043	1,106	1,670	1,956	2,506	1,235	1,544	7.2
Kerosene	1,076	746	1,129	1,422	Q	800	968	11.2
LPG	1,570	1,026	1,205	1,746	2,127	1,040	1,232	7.9
Average for All Heated Households	1,707	965	1,261	1,595	2,354	1,022	1,217	2.3
Space-Heating Intensity^{4,a} [PU÷{HDD×(HSF÷1000)}]								
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:								
Electricity (kWh)	0.838	1.084	1.014	0.939	0.678	1.081	1.036	4.7
Natural Gas (cubic feet)	6.893	10.218	8.780	7.103	5.745	10.335	8.915	3.2
Fuel Oil (gallons)	0.046	0.058	0.052	0.049	0.042	0.054	0.056	7.5
Kerosene (gallons)	0.057	0.068	0.052	Q	Q	0.068	0.058	20.8
LPG (gallons)	0.077	0.097	0.100	0.068	0.061	0.099	0.087	9.2

¹ Below 150 percent of poverty line or 60 percent of median State income.

² The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

³ Includes only the space-heating consumption of the space-heating fuel. Not included are: 1) the consumption of the main space-heating fuel for uses other than space heating; 2) the consumption of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the consumption of other fuels that are used as secondary space-heating fuels.

⁴ Averages are for those households using each of the main space-heating fuels.

^a The row factor in this section is underestimated because it contains no error for estimating the end-use.

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 2001 Residential Energy Consumption Survey.

Table CE2-4c. Space-Heating Energy Consumption in U.S. Households by Type of Housing Unit, 2001

	Type of Housing Unit					RSE Row Factors
	Total	Single-Family	Apartments in Buildings With		Mobile Homes	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.6	0.6	1.4	1.2	1.7	
Million Households						
Total U.S. Households	107.0	73.7	9.5	17.0	6.8	4.6
No Space Heating	1.0	0.3	Q	0.6	Q	18.5
Space Heating	106.0	73.4	9.4	16.4	6.8	4.6
Not Using a Major Fuel ¹	0.7	0.6	Q	Q	Q	33.5
Using a Major Fuel ¹	105.3	72.8	9.4	16.3	6.8	4.7
For Main Space Heating	103.8	71.5	9.3	16.3	6.7	4.7
For Secondary Space Heating Only	1.5	1.4	Q	Q	Q	23.6
Number of Households with Space Heating, Major Fuels Used (more than one may apply):						
Electricity	43.8	27.5	4.1	8.5	3.7	7.1
Natural Gas	60.5	45.6	5.6	7.1	2.2	6.4
Fuel Oil	8.5	6.3	0.6	1.3	0.2	17.0
Kerosene	2.7	2.0	Q	Q	0.6	15.6
LPG	6.6	5.3	Q	Q	1.2	16.1
Quadrillion Btu^a						
Space-Heating Btu Consumption, Major Fuels Used:						
Electricity	0.39	0.26	0.03	0.06	0.04	9.5
Natural Gas	3.32	2.75	0.33	0.15	0.10	8.0
Fuel Oil	0.58	0.49	0.05	0.03	0.01	19.2
Kerosene	0.04	0.02	Q	Q	0.02	25.6
LPG	0.28	0.23	Q	Q	0.05	19.3
Total	4.62	3.75	0.41	0.24	0.21	5.3
Physical Units^a						
Physical Units of Space-Heating Consumption, Major Fuels Used:						
Electricity (billion kWh)	116	76	9	19	12	9.5
Natural Gas (billion cf)	3,231	2,672	324	141	94	8.0
Fuel Oil (million gallons)	4,155	3,523	346	221	65	19.2
Kerosene (million gallons)	326	180	Q	Q	139	25.6
LPG (million gallons)	3,097	2,551	Q	Q	519	19.3
Million Btu per Household^a						
Average Space-Heating Btu Consumption per Household						
Using a Major Fuel ¹	43.9	51.5	44.2	14.8	31.3	3.9
For Main Space Heating	44.3	52.2	44.3	14.8	31.4	4.0
For Secondary Space Heating Only	18.1	17.7	Q	Q	Q	20.0

See footnotes at end of table.

Table CE2-4c. Space-Heating Energy Consumption in U.S. Households by Type of Housing Unit, 2001 (Continued)

	Type of Housing Unit					RSE Row Factors
	Total	Single-Family	Apartments in Buildings With		Mobile Homes	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.6	0.6	1.4	1.2	1.7	
Million Households						
Number of Households, Where the Main Space-Heating Fuel Is:						
Electricity	30.9	17.0	3.1	7.9	2.9	9.0
Natural Gas	59.1	44.3	5.6	7.1	2.2	6.5
Fuel Oil	8.0	5.9	0.6	1.3	0.2	17.3
Kerosene	0.8	0.5	Q	Q	0.3	26.3
LPG	4.9	3.8	Q	Q	1.0	17.7
Other	2.2	1.9	Q	Q	Q	21.8
No Space Heating	1.0	0.3	Q	0.6	Q	18.5
Million Btu per Household^{3,a}						
Space-Heating Btu Consumption per Household,² Where the Main Space-Heating Fuel Is:						
Electricity	12.0	14.2	9.2	8.1	13.1	5.7
Natural Gas	55.4	61.1	59.4	20.2	43.9	3.9
Fuel Oil	70.2	80.3	77.3	23.6	49.5	7.7
Kerosene	38.3	31.5	Q	Q	47.9	19.5
LPG	51.0	54.2	Q	Q	41.6	6.6
Physical Units (PU) per Household^{3,a}						
Physical Units of Space-Heating Consumption per Household,² Where the Main Space-Heating Fuel Is:						
Electricity (kWh)	3,524	4,154	2,708	2,375	3,841	5.7
Natural Gas (thousand cf)	54	59	58	20	43	3.9
Fuel Oil (gallons)	507	579	558	170	357	7.7
Kerosene (gallons)	283	233	Q	Q	355	19.5
LPG (gallons)	559	594	Q	Q	456	6.6
2001 Heating Degree-Days (HDD) per Household³						
2001 Heating Degree-Days per Household, Where the Main Space-Heating Fuel Is:						
Electricity	3,006	2,815	3,267	3,330	2,955	5.5
Natural Gas	4,255	4,184	4,686	4,287	4,498	2.9
Fuel Oil	5,339	5,474	5,674	4,490	5,873	5.3
Kerosene	4,636	4,583	Q	Q	4,581	9.8
LPG	4,643	4,611	Q	Q	4,885	6.5
Average for All Heated Households	4,004	4,012	4,274	3,841	3,942	2.7

See footnotes at end of table.

Table CE2-4c. Space-Heating Energy Consumption in U.S. Households by Type of Housing Unit, 2001 (Continued)

	Type of Housing Unit					RSE Row Factors
	Total	Single-Family	Apartments in Buildings With		Mobile Homes	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.6	0.6	1.4	1.2	1.7	
Heated Square Footage (HSF) per Household³						
Heated Square Footage per Household, Where the Main Space-Heating Fuel Is:						
Electricity	1,399	1,869	842	745	1,036	4.6
Natural Gas	1,836	2,104	1,336	810	984	3.2
Fuel Oil	2,043	2,365	1,780	847	901	7.2
Kerosene	1,076	1,226	Q	Q	811	11.0
LPG	1,570	1,779	Q	Q	860	5.1
Average for All Heated Households	1,707	2,047	1,197	785	979	2.6
Space-Heating Intensity^{3,a} [PU÷(HDD×(HSF÷1000))]						
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:						
Electricity (kWh)	0.838	0.790	0.984	0.958	1.254	4.6
Natural Gas (cubic feet)	6.893	6.743	9.226	5.643	9.635	3.6
Fuel Oil (gallons)	0.046	0.045	0.055	0.045	0.068	8.5
Kerosene (gallons)	0.057	0.042	Q	Q	0.095	13.7
LPG (gallons)	0.077	0.072	Q	Q	0.108	7.9

¹ The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

² Includes only the space-heating consumption of the space-heating fuel. Not included are: 1) the consumption of the main space-heating fuel for uses other than space heating; 2) the consumption of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the consumption of other fuels that are used as secondary space-heating fuels.

³ Averages are for those households using each of the main space-heating fuels.

^a The row factor in this section is underestimated because it contains no error for estimating the end-use.

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 2001 Residential Energy Consumption Survey.

Table CE2-5.1u. Space-Heating Energy Consumption and Expenditures by Household Member and Demographics, 2001

Household Demographics	Space-Heating Energy								RSE Row Factors
	Households (millions)	Total ^a		Per Household ^a			Per Household Member ^a		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	Household Members	Consumption (million Btu)	Expenditures (dollars)	
RSE Column Factor:	1.0	1.4	1.3	1.0	0.9	0.5	1.1	1.0	
Total Households Using a Major Space-Heating Fuel¹	105.3	4.62	50.53	43.9	480	2.6	17.2	188	1.8
Household Size									
1 Person	27.8	1.02	11.58	36.6	417	1.0	36.6	417	2.9
2 Persons	34.8	1.60	17.55	45.8	504	2.0	22.9	252	2.4
3 Persons	16.6	0.74	8.02	44.4	483	3.0	14.8	161	3.4
4 Persons	15.3	0.71	7.55	46.3	492	4.0	11.6	123	3.8
5 Persons	6.9	0.35	3.65	50.4	527	5.0	10.1	105	7.2
6 or More Persons	3.8	0.21	2.18	56.0	570	6.7	8.4	85	6.4
2001 Household Income Category									
Less than \$9,999	10.8	0.36	4.10	33.1	380	1.9	17.8	205	6.2
\$10,000 to \$14,999	7.5	0.26	2.99	34.9	398	2.1	16.6	189	6.1
\$15,000 to \$19,999	8.8	0.36	3.96	40.8	449	2.3	18.0	198	6.1
\$20,000 to \$29,999	13.8	0.58	6.34	41.7	458	2.3	17.8	195	4.3
\$30,000 to \$39,999	13.6	0.57	6.25	42.1	459	2.6	16.5	180	3.9
\$40,000 to \$49,999	12.9	0.57	6.32	44.2	491	2.7	16.5	183	4.8
\$50,000 to \$74,999	21.4	1.00	10.68	46.8	500	2.9	16.0	171	3.3
\$75,000 to \$99,999	8.0	0.42	4.48	52.5	560	2.9	18.0	192	5.7
\$100,000 or More	8.5	0.50	5.39	59.3	636	3.0	19.7	211	6.5
Income Relative to Poverty Line									
Below 100 Percent	14.6	0.50	5.66	34.1	388	2.5	13.5	153	5.5
100 to 150 Percent	11.4	0.45	5.04	39.9	443	2.7	14.7	163	4.8
Above 150 Percent	79.4	3.67	39.83	46.3	502	2.5	18.3	198	1.7
Eligible for Federal Assistance²									
Yes	33.2	1.32	14.58	39.7	439	2.6	15.0	166	3.3
No	72.1	3.30	35.95	45.8	499	2.5	18.2	198	1.8
Age of Householder									
Under 25 Years	6.0	0.17	2.07	28.2	346	2.6	10.7	131	6.3
25 to 34 Years	16.5	0.61	6.77	36.8	412	3.0	12.1	136	3.7
35 to 44 Years	22.1	0.97	10.42	43.9	471	3.3	13.3	143	3.4
45 to 54 Years	20.3	0.98	10.41	48.4	512	2.7	17.8	188	3.7
55 to 64 Years	14.2	0.68	7.51	47.8	527	2.1	22.6	250	3.9
65 to 74 Years	12.5	0.57	6.19	45.9	494	1.8	25.7	277	4.2
75 Years or More	13.7	0.64	7.16	46.6	523	1.7	28.1	316	4.4
Race of Householder									
Non-Hispanic	95.6	4.34	47.44	45.4	496	2.5	18.3	200	1.8
Non-Hispanic White	77.8	3.56	38.82	45.7	499	2.4	19.1	208	1.9
Non-Hispanic Black	12.7	0.63	6.85	49.7	541	2.7	18.5	202	4.9
Multi-racial ³	0.8	0.03	0.31	31.8	373	2.7	11.7	136	16.8
Other ⁴	4.3	0.13	1.47	29.9	343	3.3	9.1	104	8.3
Hispanic	9.7	0.28	3.09	28.6	318	3.3	8.7	97	6.7

¹ The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

² Below 150 percent of poverty line or 60 percent of median State income.

³ Respondents could select one or more race categories to describe themselves.

⁴ Includes Native American, Native Alaskan, Asian, and Pacific Islander households.

^a The row factor in this section is underestimated because it contains no error for estimating the end-use.

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 2001 Residential Energy Consumption Survey.

Table CE2-5.2u. Space-Heating Energy Consumption and Expenditures by Square Feet and Household Demographics, 2001

Household Demographics	Space-Heating Energy								RSE Row Factors
	Households (millions)	Total ^a		Per Household ^a			Per Square Feet ^a		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	Heated Square Feet	Consumption (1000 Btu)	Expenditures (dollars)	
RSE Column Factor:	1.0	1.3	1.3	1.0	0.9	0.7	1.0	0.9	
Total Households Using a Major Space-Heating Fuel¹	105.3	4.62	50.53	43.9	480	1,707	25.7	0.28	1.9
Household Size									
1 Person	27.8	1.02	11.58	36.6	417	1,185	30.9	0.35	3.0
2 Persons	34.8	1.60	17.55	45.8	504	1,773	25.8	0.28	2.7
3 Persons	16.6	0.74	8.02	44.4	483	1,852	24.0	0.26	3.6
4 Persons	15.3	0.71	7.55	46.3	492	2,104	22.0	0.23	3.8
5 Persons	6.9	0.35	3.65	50.4	527	2,116	23.8	0.25	7.4
6 or More Persons	3.8	0.21	2.18	56.0	570	1,935	29.0	0.29	7.5
2001 Household Income Category									
Less than \$9,999	10.8	0.36	4.10	33.1	380	964	34.3	0.39	5.7
\$10,000 to \$14,999	7.5	0.26	2.99	34.9	398	1,117	31.3	0.36	5.6
\$15,000 to \$19,999	8.8	0.36	3.96	40.8	449	1,305	31.3	0.34	5.8
\$20,000 to \$29,999	13.8	0.58	6.34	41.7	458	1,306	31.9	0.35	4.0
\$30,000 to \$39,999	13.6	0.57	6.25	42.1	459	1,426	29.5	0.32	3.9
\$40,000 to \$49,999	12.9	0.57	6.32	44.2	491	1,776	24.9	0.28	4.7
\$50,000 to \$74,999	21.4	1.00	10.68	46.8	500	2,059	22.7	0.24	3.3
\$75,000 to \$99,999	8.0	0.42	4.48	52.5	560	2,411	21.8	0.23	5.6
\$100,000 or More	8.5	0.50	5.39	59.3	636	3,046	19.5	0.21	6.1
Income Relative to Poverty Line									
Below 100 Percent	14.6	0.50	5.66	34.1	388	1,021	33.5	0.38	5.1
100 to 150 Percent	11.4	0.45	5.04	39.9	443	1,262	31.6	0.35	4.6
Above 150 Percent	79.4	3.67	39.83	46.3	502	1,897	24.4	0.26	1.8
Eligible for Federal Assistance²									
Yes	33.2	1.32	14.58	39.7	439	1,215	32.6	0.36	3.2
No	72.1	3.30	35.95	45.8	499	1,933	23.7	0.26	2.0
Age of Householder									
Under 25 Years	6.0	0.17	2.07	28.2	346	1,011	27.9	0.34	6.1
25 to 34 Years	16.5	0.61	6.77	36.8	412	1,491	24.7	0.28	3.8
35 to 44 Years	22.1	0.97	10.42	43.9	471	1,838	23.9	0.26	3.5
45 to 54 Years	20.3	0.98	10.41	48.4	512	2,005	24.2	0.26	3.7
55 to 64 Years	14.2	0.68	7.51	47.8	527	1,881	25.4	0.28	3.8
65 to 74 Years	12.5	0.57	6.19	45.9	494	1,632	28.1	0.30	4.3
75 Years or More	13.7	0.64	7.16	46.6	523	1,504	31.0	0.35	4.4
Race of Householder									
Non-Hispanic	95.6	4.34	47.44	45.4	496	1,763	25.8	0.28	1.9
Non-Hispanic White	77.8	3.56	38.82	45.7	499	1,819	25.2	0.27	2.1
Non-Hispanic Black	12.7	0.63	6.85	49.7	541	1,539	32.3	0.35	5.8
Multi-racial ³	0.8	0.03	0.31	31.8	373	1,300	24.5	0.29	16.7
Other ⁴	4.3	0.13	1.47	29.9	343	1,510	19.8	0.23	9.5
Hispanic	9.7	0.28	3.09	28.6	318	1,151	24.9	0.28	6.7

¹ The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

² Below 150 percent of poverty line or 60 percent of median State income.

³ Respondents could select one or more race categories to describe themselves.

⁴ Includes Native American, Native Alaskan, Asian, and Pacific Islander households.

^a The column factor in this section is underestimated because it contains no error for estimating the end-use.

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 2001 Residential Energy Consumption Survey.

Table CE2-6.1u. Space-Heating Energy Consumption and Expenditures by Household Member and Usage Indicators, 2001

Usage Indicators	Space-Heating Energy								RSE Row Factors
	Households (million)	Total ^a		Per Household ^a			Per Household Member ^a		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	Household Members	Consumption (million Btu)	Expenditures (dollars)	
		1.1	1.4	1.3	1.0	0.9	0.5	1.1	
Total Households Using a Major Space-Heating Fuel¹	105.3	4.62	50.53	43.9	480	2.6	17.2	188	1.8
Weekday Home Activities									
Home Used for Business									
Yes	7.4	0.41	4.44	55.4	600	2.9	19.2	208	5.8
No/Don't Know	97.9	4.21	46.08	43.0	471	2.5	17.0	186	1.9
Energy-Intensive Activity									
Yes	1.6	0.09	0.93	55.8	564	2.8	20.3	205	11.2
No/Don't Know	103.7	4.53	49.60	43.7	478	2.5	17.1	188	1.8
Someone Home All Day									
Yes	52.1	2.46	26.56	47.1	510	2.7	17.4	189	2.3
No/Don't Know	53.2	2.17	23.97	40.7	450	2.4	16.9	187	2.1
Heated Floorspace Category (square feet)									
Fewer than 500	8.0	0.14	1.89	17.6	237	2.1	8.5	114	6.6
500 to 999	25.6	0.73	8.82	28.4	345	2.1	13.4	163	3.6
1,000 to 1,499	22.7	0.85	9.79	37.6	432	2.5	15.0	173	3.5
1,500 to 1,999	16.7	0.79	8.59	47.4	515	2.7	17.6	191	3.5
2,000 to 2,499	12.1	0.67	6.91	54.9	570	2.9	19.2	199	3.8
2,500 to 2,999	7.3	0.48	4.92	65.9	670	2.8	23.6	240	5.0
3,000 to 3,499	4.5	0.30	3.03	65.2	667	3.3	19.9	204	8.7
3,500 to 3,999	3.0	0.21	2.01	70.4	663	3.1	22.9	216	9.4
4,000 or More	5.4	0.45	4.58	83.8	850	3.2	26.3	267	5.5
Year of Construction									
1939 or Before	18.7	1.30	13.19	69.7	706	2.4	28.5	288	3.7
1940 to 1949	7.5	0.40	4.19	52.8	559	2.6	20.0	212	6.0
1950 to 1959	13.8	0.69	7.00	50.4	508	2.5	20.2	204	3.9
1960 to 1969	13.4	0.55	6.03	41.3	449	2.4	17.1	185	4.5
1970 to 1979	18.5	0.60	7.22	32.6	391	2.5	13.1	157	4.0
1980 to 1989	18.1	0.53	6.66	29.4	368	2.5	11.8	148	4.3
1990 to 1999	14.5	0.50	5.74	34.4	397	2.9	11.8	136	7.0
2000 to 2001 ²	0.9	0.04	0.49	48.9	544	3.4	14.5	161	18.4
Housing Unit Type and Number of Bedrooms									
Mobile Home	6.8	0.21	2.66	31.3	393	2.6	12.2	153	7.8
Less than 3 Bedrooms	3.7	0.12	1.47	32.9	399	2.0	16.4	200	9.1
3 or More Bedrooms	3.1	0.09	1.19	29.5	386	3.3	9.0	118	9.7
Single-Family Detached	62.3	3.21	34.15	51.6	548	2.7	18.9	201	2.1
Less than 3 Bedrooms	12.1	0.52	5.75	43.0	476	2.0	21.9	243	4.1
3 Bedrooms	33.2	1.59	17.11	47.7	515	2.7	18.0	194	2.7
4 Bedrooms	14.1	0.86	8.77	60.8	621	3.3	18.3	187	4.3
5 or More Bedrooms	2.8	0.25	2.52	88.2	885	3.7	23.6	237	9.3
Single-Family Attached	10.6	0.54	5.65	51.1	535	2.7	19.1	200	6.6
Less than 3 Bedrooms	3.9	0.15	1.63	38.8	417	2.1	18.7	201	10.2
3 Bedrooms	4.6	0.23	2.60	50.8	569	2.7	18.8	211	8.3
4 or More Bedrooms	2.1	0.16	1.43	74.9	681	3.7	20.0	182	12.3
Apartments in Buildings									
With 2 to 4 Units	9.4	0.41	4.73	44.2	505	2.3	19.5	223	6.7
Less than 2 Bedrooms	2.6	0.09	0.95	33.1	371	1.7	19.8	221	13.0
2 Bedrooms	5.0	0.20	2.41	40.8	484	2.1	19.1	226	7.3
3 or More Bedrooms	1.8	0.13	1.37	69.1	750	3.4	20.1	219	12.7

See footnotes at end of table.

Table CE2-6.1u. Space-Heating Energy Consumption and Expenditures by Household Member and Usage Indicators, 2001 (Continued)

Usage Indicators	Space-Heating Energy								RSE Row Fac- tors
	Households (million)	Total ^a		Per Household ^a			Per Household Member ^a		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	Household Members	Consumption (million Btu)	Expenditures (dollars)	
	RSE Column Factor:	1.1	1.4	1.3	1.0	0.9	0.5	1.1	
Apartments in Buildings									
With 5 or More Units	16.3	0.24	3.33	14.8	204	2.0	7.5	103	5.6
Less than 2 Bedrooms	8.1	0.10	1.40	12.8	174	1.5	8.6	117	6.9
2 Bedrooms	6.8	0.11	1.53	16.7	225	2.3	7.4	99	9.4
3 or More Bedrooms	1.5	0.02	0.39	17.0	268	3.3	5.1	80	14.6
Adequacy of Insulation									
Well Insulated	42.2	1.75	19.32	41.5	458	2.4	17.0	188	2.8
Adequately Insulated	42.5	1.88	20.62	44.4	486	2.6	16.9	185	2.4
Poorly Insulated	19.1	0.92	9.87	48.4	517	2.6	18.3	195	3.8
No Insulation	0.7	0.04	0.39	49.8	526	2.4	20.5	217	15.5
Don't Know	0.9	0.03	0.32	34.1	366	2.5	13.5	145	15.8
Occurrences of Drafts During Winter									
Never	5.9	0.29	3.08	49.2	526	2.9	17.2	183	6.5
Some of the Time	6.3	0.27	3.11	42.8	490	2.7	15.6	178	6.3
Most of the Time	33.9	1.67	17.94	49.2	528	2.8	17.9	192	2.6
All of the Time	54.6	2.27	25.01	41.7	458	2.4	17.7	194	2.6
Don't Know	4.6	0.12	1.38	25.6	303	2.7	9.5	112	7.1
Secondary Heating Equipment									
Yes	33.9	1.69	18.90	50.0	558	2.7	18.3	204	2.6
No	71.4	2.93	31.62	41.0	443	2.5	16.6	179	2.1
Daytime Winter Temperature When Someone is at Home³									
Heat Turned On	96.1	4.41	48.04	45.9	500	2.6	17.9	196	1.8
63 Degrees or Less	3.9	0.17	1.79	42.3	454	2.6	16.5	177	7.9
64 to 66 Degrees	8.3	0.37	4.12	44.6	494	2.6	17.5	194	5.5
67 to 69 Degrees	23.5	1.19	12.71	50.5	540	2.5	19.9	213	2.6
70 Degrees	25.4	1.19	12.95	46.9	510	2.6	18.0	196	3.4
71 to 73 Degrees	16.4	0.80	8.75	48.6	533	2.5	19.5	213	4.0
74 Degrees or More	18.5	0.70	7.73	37.6	417	2.6	14.6	163	4.0
Heat Turned Off	2.0	0.02	0.31	11.5	150	2.8	4.1	53	14.4
Unknown/No Answer	7.1	0.19	2.18	26.4	305	2.4	10.8	125	6.2
Winter Temperature Settings³									
Lower When No One Home									
Yes	47.0	2.06	22.48	43.8	478	2.5	17.2	188	2.5
No	58.3	2.56	28.04	44.0	481	2.6	17.1	188	2.1
Lower During Sleeping Hours									
Yes	45.4	2.09	22.64	46.1	499	2.5	18.5	200	2.5
No	59.9	2.53	27.89	42.2	466	2.6	16.2	179	2.2

¹ The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

² New construction for 2001 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

³ The 1.0 million households that do not heat their homes are not included in these categories.

^a The column factor in this section is underestimated because it contains no error for estimating the end-use.

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 2001 Residential Energy Consumption Survey.

Table CE2-6.2u. Space-Heating Energy Consumption and Expenditures by Square Feet and Usage Indicators, 2001

Usage Indicators	Space-Heating Energy								RSE Row Factors
	Households (million)	Total ^a		Per Household ^a			Per Square Feet ^a		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	Heated Square Feet	Consumption (1000 Btu)	Expenditures (dollars)	
RSE Column Factor:	1.1	1.4	1.4	1.0	0.9	0.7	0.9	0.9	
Total Households Using a Major Space-Heating Fuel¹	105.3	4.62	50.53	43.9	480	1,707	25.7	0.28	1.9
Weekday Home Activities									
Home Used for Business									
Yes	7.4	0.41	4.44	55.4	600	2,336	23.7	0.26	6.0
No/Don't Know	97.9	4.21	46.08	43.0	471	1,659	25.9	0.28	2.0
Energy-Intensive Activity									
Yes	1.6	0.09	0.93	55.8	564	2,189	25.5	0.26	10.2
No/Don't Know	103.7	4.53	49.60	43.7	478	1,699	25.7	0.28	2.0
Someone Home All Day									
Yes	52.1	2.46	26.56	47.1	510	1,765	26.7	0.29	2.5
No/Don't Know	53.2	2.17	23.97	40.7	450	1,650	24.7	0.27	2.3
Heated Floorspace Category (square feet)									
Fewer than 500	8.0	0.14	1.89	17.6	237	313	56.4	0.76	6.1
500 to 999	25.6	0.73	8.82	28.4	345	767	37.0	0.45	3.5
1,000 to 1,499	22.7	0.85	9.79	37.6	432	1,234	30.5	0.35	3.4
1,500 to 1,999	16.7	0.79	8.59	47.4	515	1,730	27.4	0.30	3.3
2,000 to 2,499	12.1	0.67	6.91	54.9	570	2,216	24.8	0.26	3.6
2,500 to 2,999	7.3	0.48	4.92	65.9	670	2,723	24.2	0.25	4.8
3,000 to 3,499	4.5	0.30	3.03	65.2	667	3,224	20.2	0.21	9.6
3,500 to 3,999	3.0	0.21	2.01	70.4	663	3,714	19.0	0.18	7.8
4,000 or More	5.4	0.45	4.58	83.8	850	5,208	16.1	0.16	4.9
Year of Construction									
1939 or Before	18.7	1.30	13.19	69.7	706	1,675	41.6	0.42	3.5
1940 to 1949	7.5	0.40	4.19	52.8	559	1,504	35.1	0.37	5.7
1950 to 1959	13.8	0.69	7.00	50.4	508	1,721	29.3	0.30	3.9
1960 to 1969	13.4	0.55	6.03	41.3	449	1,562	26.5	0.29	4.3
1970 to 1979	18.5	0.60	7.22	32.6	391	1,522	21.4	0.26	4.2
1980 to 1989	18.1	0.53	6.66	29.4	368	1,730	17.0	0.21	4.5
1990 to 1999	14.5	0.50	5.74	34.4	397	2,119	16.2	0.19	6.7
2000 to 2001 ²	0.9	0.04	0.49	48.9	544	2,734	17.9	0.20	17.8
Housing Unit Type and Number of Bedrooms									
Mobile Home	6.8	0.21	2.66	31.3	393	979	32.0	0.40	7.4
Less than 3 Bedrooms	3.7	0.12	1.47	32.9	399	782	42.0	0.51	8.1
3 or More Bedrooms	3.1	0.09	1.19	29.5	386	1,215	24.2	0.32	9.4
Single-Family Detached	62.3	3.21	34.15	51.6	548	2,076	24.9	0.26	2.2
Less than 3 Bedrooms	12.1	0.52	5.75	43.0	476	1,312	32.7	0.36	4.0
3 Bedrooms	33.2	1.59	17.11	47.7	515	1,946	24.5	0.26	2.9
4 Bedrooms	14.1	0.86	8.77	60.8	621	2,702	22.5	0.23	4.2
5 or More Bedrooms	2.8	0.25	2.52	88.2	885	3,731	23.6	0.24	8.8
Single-Family Attached	10.6	0.54	5.65	51.1	535	1,879	27.2	0.28	6.2
Less than 3 Bedrooms	3.9	0.15	1.63	38.8	417	1,328	29.2	0.31	9.2
3 Bedrooms	4.6	0.23	2.60	50.8	569	1,996	25.4	0.29	8.2
4 or More Bedrooms	2.1	0.16	1.43	74.9	681	2,651	28.2	0.26	10.6
Apartments in Buildings									
With 2 to 4 Units	9.4	0.41	4.73	44.2	505	1,199	36.9	0.42	6.6
Less than 2 Bedrooms	2.6	0.09	0.95	33.1	371	811	40.8	0.46	11.2
2 Bedrooms	5.0	0.20	2.41	40.8	484	1,200	34.0	0.40	7.3
3 or More Bedrooms	1.8	0.13	1.37	69.1	750	1,741	39.7	0.43	13.1

See footnotes at end of table.

Table CE2-6.2u. Space-Heating Energy Consumption and Expenditures by Square Feet and Usage Indicators, 2001 (Continued)

Usage Indicators	Space-Heating Energy								RSE Row Factors
	Households (million)	Total ^a		Per Household ^a			Per Square Feet ^a		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	Heated Square Feet	Consumption (1000 Btu)	Expenditures (dollars)	
RSE Column Factor:	1.1	1.4	1.4	1.0	0.9	0.7	0.9	0.9	
Apartments in Buildings									
With 5 or More Units	16.3	0.24	3.33	14.8	204	781	18.9	0.26	5.1
Less than 2 Bedrooms	8.1	0.10	1.40	12.8	174	590	21.6	0.30	6.1
2 Bedrooms	6.8	0.11	1.53	16.7	225	935	17.8	0.24	8.2
3 or More Bedrooms	1.5	0.02	0.39	17.0	268	1,119	15.2	0.24	14.2
Adequacy of Insulation									
Well Insulated	42.2	1.75	19.32	41.5	458	1,918	21.6	0.24	2.7
Adequately Insulated	42.5	1.88	20.62	44.4	486	1,698	26.1	0.29	2.7
Poorly Insulated	19.1	0.92	9.87	48.4	517	1,306	37.0	0.40	3.7
No Insulation	0.7	0.04	0.39	49.8	526	1,135	43.9	0.46	14.9
Don't Know	0.9	0.03	0.32	34.1	366	1,204	28.3	0.30	15.1
Occurrences of Drafts During Winter									
Never	5.9	0.29	3.08	49.2	526	1,264	38.9	0.42	6.2
Some of the Time	6.3	0.27	3.11	42.8	490	1,267	33.8	0.39	5.8
Most of the	33.9	1.67	17.94	49.2	528	1,711	28.8	0.31	2.8
All of the Time	54.6	2.27	25.01	41.7	458	1,837	22.7	0.25	2.6
Don't Know	4.6	0.12	1.38	25.6	303	1,297	19.7	0.23	7.0
Secondary Heating Equipment									
Yes	33.9	1.69	18.90	50.0	558	2,034	24.6	0.27	2.8
No	71.4	2.93	31.62	41.0	443	1,552	26.4	0.29	2.2
Daytime Winter Temperature When Someone is at Home³									
Heat Turned On	96.1	4.41	48.04	45.9	500	1,772	25.9	0.28	1.9
63 Degrees or Less	3.9	0.17	1.79	42.3	454	1,453	29.1	0.31	7.6
64 to 66 Degrees	8.3	0.37	4.12	44.6	494	1,739	25.6	0.28	5.2
67 to 69 Degrees	23.5	1.19	12.71	50.5	540	2,004	25.2	0.27	2.7
70 Degrees	25.4	1.19	12.95	46.9	510	1,707	27.5	0.30	3.5
71 to 73 Degrees	16.4	0.80	8.75	48.6	533	1,877	25.9	0.28	4.1
74 Degrees or More	18.5	0.70	7.73	37.6	417	1,557	24.1	0.27	4.3
Heat Turned Off	2.0	0.02	0.31	11.5	150	688	16.7	0.22	13.4
Unknown/No Answer	7.1	0.19	2.18	26.4	305	1,116	23.7	0.27	6.1
Winter Temperature Settings									
Lower When No One Home									
Yes	47.0	2.06	22.48	43.8	478	1,759	24.9	0.27	2.6
No	58.3	2.56	28.04	44.0	481	1,665	26.4	0.29	2.2
Lower During Sleeping Hours									
Yes	45.4	2.09	22.64	46.1	499	1,782	25.8	0.28	2.7
No	59.9	2.53	27.89	42.2	466	1,650	25.6	0.28	2.3

¹ The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

² New construction for 2001 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

³ The 1.0 million households that do not heat their homes are not included in these categories.

^a The column factor in this section is underestimated because it contains no error for estimating the end-use.

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 2001 Residential Energy Consumption Survey.

Table CE2-7c. Space-Heating Energy Consumption in U.S. Households by Four Most Populated States, 2001

	Total U.S.	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.3	1.0	0.8	1.5	2.2	
Million Households						
Total U.S. Households	107.0	7.1	12.3	7.7	6.3	NE
No Space Heating	1.0	Q	0.3	Q	Q	23.9
Space Heating	106.0	7.1	12.0	7.7	6.2	0.5
Not Using a Major Fuel ¹	0.7	Q	0.2	Q	Q	50.9
Using a Major Fuel ¹	105.3	7.0	11.8	7.7	6.2	0.5
For Main Space Heating	103.8	6.8	11.6	7.6	6.2	0.8
For Secondary Space Heating Only	1.5	Q	Q	Q	Q	41.0
Number of Households with Space Heating, Major Fuels Used (more than one may apply):						
Electricity	43.8	1.4	3.7	4.4	5.2	5.1
Natural Gas	60.5	4.2	9.0	4.2	1.0	7.2
Fuel Oil	8.5	2.2	Q	Q	Q	22.1
Kerosene	2.7	0.2	Q	Q	Q	32.8
LPG	6.6	Q	0.3	0.2	Q	30.8
Quadrillion Btu^a						
Space-Heating Btu Consumption, Major Fuels Used:						
Electricity	0.39	0.01	0.02	0.04	0.02	15.3
Natural Gas	3.32	0.28	0.23	0.16	0.01	12.6
Fuel Oil	0.58	0.11	Q	Q	Q	27.3
Kerosene	0.04	(*)	Q	Q	Q	30.8
LPG	0.28	Q	0.01	Q	Q	35.5
Total	4.62	0.41	0.27	0.20	0.03	6.7
Physical Units^a						
Physical Units of Space-Heating Consumption, Major Fuels Used:						
Electricity (billion kWh)	116	2	5	10	5	15.3
Natural Gas (billion cf)	3,231	268	225	152	12	12.6
Fuel Oil (million gallons)	4,155	828	Q	Q	Q	27.3
Kerosene (million gallons)	326	29	Q	Q	Q	30.8
LPG (million gallons)	3,097	Q	116	Q	Q	35.5
Million Btu per Household^a						
Average Space-Heating Btu Consumption per Household						
Using a Major Fuel ¹	43.9	58.5	22.6	25.9	5.0	6.8
For Main Space Heating	44.3	58.9	22.8	25.8	5.0	6.9
For Secondary Space Heating Only	18.1	Q	Q	Q	Q	33.3

See footnotes at end of table.

Table CE2-7c. Space-Heating Energy Consumption in U.S. Households by Four Most Populated States, 2001 (Continued)

	Total U.S.	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.3	1.0	0.8	1.5	2.2	
Million Households						
Number of Households, Where the Main Space-Heating Fuel Is:						
Electricity	30.9	0.5	2.3	3.4	5.1	10.0
Natural Gas	59.1	4.2	8.9	4.0	1.0	7.5
Fuel Oil	8.0	2.1	Q	Q	Q	22.0
Kerosene	0.8	Q	Q	Q	Q	50.5
LPG	4.9	Q	0.3	Q	Q	35.3
Other	2.2	0.2	0.4	Q	Q	34.4
No Space Heating	1.0	Q	0.3	Q	Q	23.9
Million Btu per Household^{3,a}						
Space-Heating Btu Consumption per Household,² Where the Main Space-Heating Fuel Is:						
Electricity	12.0	14.7	6.1	9.9	3.3	9.0
Natural Gas	55.4	65.1	25.6	37.6	12.2	7.9
Fuel Oil	70.2	54.0	Q	Q	Q	8.8
Kerosene	38.3	Q	Q	Q	Q	32.8
LPG	51.0	Q	34.1	Q	Q	17.1
Physical Units (PU) per Household^{3,a}						
Physical Units of Space-Heating Consumption per Household,² Where the Main Space-Heating Fuel Is:						
Electricity (kWh)	3,524	4,296	1,787	2,892	977	9.0
Natural Gas (thousand cf)	54	63	25	37	12	7.9
Fuel Oil (gallons)	507	389	Q	Q	Q	8.8
Kerosene (gallons)	283	Q	Q	Q	Q	32.8
LPG (gallons)	559	Q	374	Q	Q	17.1
2001 Heating Degree-Days (HDD) per Household³						
2001 Heating Degree-Days per Household, Where the Main Space-Heating Fuel Is:						
Electricity	3,006	5,632	2,409	2,015	536	9.4
Natural Gas	4,255	5,183	2,113	2,211	818	4.9
Fuel Oil	5,339	4,607	Q	Q	Q	6.5
Kerosene	4,636	Q	Q	Q	Q	18.6
LPG	4,643	Q	3,668	Q	Q	13.9
Average for All Heated Households	4,004	5,011	2,290	2,139	579	5.8

See footnotes at end of table.

Table CE2-7c. Space-Heating Energy Consumption in U.S. Households by Four Most Populated States, 2001 (Continued)

	Total U.S.	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.3	1.0	0.8	1.5	2.2	
Heated Square Footage (HSF) per Household³						
Heated Square Footage per Household, Where the Main Space-Heating Fuel Is:						
Electricity	1,399	1,091	928	1,382	1,492	12.1
Natural Gas	1,836	1,788	1,394	1,716	1,958	5.8
Fuel Oil	2,043	1,531	Q	Q	Q	10.1
Kerosene	1,076	Q	Q	Q	Q	25.0
LPG	1,570	Q	1,650	Q	Q	17.4
Average for All Heated Households	1,707	1,657	1,315	1,549	1,576	4.2
Space-Heating Intensity^{3,a} [PU÷{HDD×(HSF÷1000)}]						
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:						
Electricity (kWh)	0.838	0.699	0.800	1.039	1.222	8.2
Natural Gas (cubic feet)	6.893	6.826	8.444	9.626	7.426	6.6
Fuel Oil (gallons)	0.046	0.055	Q	Q	Q	9.3
Kerosene (gallons)	0.057	Q	Q	Q	Q	34.5
LPG (gallons)	0.077	Q	0.062	Q	Q	25.3

¹ The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

² Includes only the space-heating consumption of the space-heating fuel. Not included are: 1) the consumption of the main space-heating fuel for uses other than space heating; 2) the consumption of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the consumption of other fuels that are used as secondary space-heating fuels.

³ Averages are for those households using each of the main space-heating fuels.

^a The row factor in this section is underestimated because it contains no error for estimating the end-use.

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

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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 2001 Residential Energy Consumption Survey.

Table CE2-8c. Space-Heating Energy Consumption in U.S. Households by Urban/Rural Location, 2001

	Urban/Rural Location ¹					RSE Row Factors
	Total	City	Town	Suburbs	Rural	
	0.6	1.0	1.3	1.3	1.0	
Million Households						
Total U.S. Households	107.0	49.9	18.0	21.2	17.9	4.3
No Space Heating	1.0	0.7	Q	Q	Q	15.7
Space Heating	106.0	49.1	18.0	21.2	17.8	4.3
Not Using a Major Fuel ²	0.7	0.2	Q	Q	0.5	30.9
Using a Major Fuel ²	105.3	48.9	17.9	21.1	17.3	4.3
For Main Space Heating	103.8	48.7	17.6	21.0	16.4	4.3
For Secondary Space Heating Only	1.5	0.2	0.3	Q	0.9	22.6
Number of Households with Space Heating, Major Fuels Used (more than one may apply):						
Electricity	43.8	18.8	7.8	8.6	8.6	5.6
Natural Gas	60.5	33.1	10.3	13.4	3.7	6.0
Fuel Oil	8.5	2.5	2.1	1.4	2.5	13.4
Kerosene	2.7	0.5	0.6	0.4	1.4	21.4
LPG	6.6	0.5	1.1	0.4	4.6	18.3
Quadrillion Btu^a						
Space-Heating Btu Consumption, Major Fuels Used:						
Electricity	0.39	0.13	0.07	0.08	0.11	8.1
Natural Gas	3.32	1.70	0.62	0.78	0.23	7.3
Fuel Oil	0.58	0.14	0.16	0.09	0.19	15.3
Kerosene	0.04	(*)	0.01	Q	0.03	30.6
LPG	0.28	0.02	0.05	0.01	0.20	21.4
Total	4.62	1.99	0.90	0.97	0.76	5.1
Physical Units^a						
Physical Units of Space-Heating Consumption, Major Fuels Used:						
Electricity (billion kWh)	116	39	21	23	33	8.1
Natural Gas (billion cf)	3,231	1,648	598	759	225	7.3
Fuel Oil (million gallons)	4,155	1,008	1,122	682	1,344	15.3
Kerosene (million gallons)	326	24	53	Q	223	30.6
LPG (million gallons)	3,097	171	587	139	2,200	21.4
Million Btu per Household^a						
Average Space-Heating Btu Consumption per Household						
Using a Major Fuel ²	43.9	40.6	50.3	45.8	44.1	3.4
For Main Space Heating	44.3	40.7	51.0	46.0	45.4	3.4
For Secondary Space Heating Only	18.1	20.3	12.1	Q	19.1	21.8

See footnotes at end of table.

Table CE2-8c. Space-Heating Energy Consumption in U.S. Households by Urban/Rural Location, 2001 (Continued)

	Urban/Rural Location ¹					RSE Row Factors
	Total	City	Town	Suburbs	Rural	
	0.6	1.0	1.3	1.3	1.0	
Million Households						
Number of Households, Where the Main Space-Heating Fuel Is:						
Electricity	30.9	13.6	4.5	6.3	6.5	7.2
Natural Gas	59.1	32.3	10.0	13.1	3.6	6.0
Fuel Oil	8.0	2.4	2.0	1.3	2.3	13.6
Kerosene	0.8	Q	Q	Q	0.5	24.0
LPG	4.9	0.3	0.9	0.2	3.5	21.0
Other	2.2	0.4	0.3	Q	1.4	20.1
No Space Heating	1.0	0.7	Q	Q	Q	15.7
Million Btu per Household^{4,a}						
Space-Heating Btu Consumption per Household,³ Where the Main Space-Heating Fuel Is:						
Electricity	12.0	9.2	14.2	11.7	16.8	5.3
Natural Gas	55.4	51.7	60.1	58.7	63.3	3.6
Fuel Oil	70.2	56.6	77.7	70.8	77.8	5.5
Kerosene	38.3	Q	Q	Q	41.8	15.6
LPG	51.0	40.5	55.7	36.8	51.6	8.8
Physical Units (PU) per Household^{4,a}						
Physical Units of Space-Heating Consumption per Household,³ Where the Main Space-Heating Fuel Is:						
Electricity (kWh)	3,524	2,690	4,158	3,427	4,929	5.3
Natural Gas (thousand cf)	54	50	58	57	61	3.6
Fuel Oil (gallons)	507	408	560	511	561	5.5
Kerosene (gallons)	283	Q	Q	Q	310	15.6
LPG (gallons)	559	444	610	403	565	8.8
2001 Heating Degree-Days (HDD) per Household⁴						
2001 Heating Degree-Days per Household, Where the Main Space-Heating Fuel Is:						
Electricity	3,006	2,742	3,526	2,673	3,520	4.9
Natural Gas	4,255	4,069	4,685	4,339	4,430	2.5
Fuel Oil	5,339	5,259	5,683	4,750	5,467	3.6
Kerosene	4,636	Q	Q	Q	4,784	8.7
LPG	4,643	4,164	4,858	4,003	4,669	9.2
Average for All Heated Households	4,004	3,758	4,513	3,872	4,328	2.2

See footnotes at end of table.

Table CE2-8c. Space-Heating Energy Consumption in U.S. Households by Urban/Rural Location, 2001 (Continued)

	Urban/Rural Location ¹					RSE Row Factors
	Total	City	Town	Suburbs	Rural	
RSE Column Factor:	0.6	1.0	1.3	1.3	1.0	
Heated Square Footage (HSF) per Household⁴						
Heated Square Footage per Household, Where the Main Space-Heating Fuel Is:						
Electricity	1,399	1,159	1,307	1,647	1,728	5.2
Natural Gas	1,836	1,613	1,798	2,314	2,194	3.5
Fuel Oil	2,043	1,549	2,230	2,263	2,274	5.5
Kerosene	1,076	Q	Q	Q	1,159	12.0
LPG	1,570	1,041	1,446	1,612	1,647	10.5
Average for All Heated Households	1,707	1,480	1,692	2,103	1,880	2.7
Space-Heating Intensity^{4,a} [PU ÷ {HDD × (HSF ÷ 1000)}]						
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:						
Electricity (kWh)	0.838	0.847	0.902	0.778	0.810	4.5
Natural Gas (cubic feet)	6.893	7.656	6.938	5.684	6.327	4.0
Fuel Oil (gallons)	0.046	0.050	0.044	0.048	0.045	5.6
Kerosene (gallons)	0.057	Q	Q	Q	0.056	15.1
LPG (gallons)	0.077	0.102	0.087	0.062	0.074	12.3

¹ Based on the household respondent's description rather than the Federal Government definition.

² The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

³ Includes only the space-heating consumption of the space-heating fuel. Not included are: 1) the consumption of the main space-heating fuel for uses other than space heating; 2) the consumption of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the consumption of other fuels that are used as secondary space-heating fuels.

⁴ Averages are for those households using each of the main space-heating fuels.

^a The row factor in this section is underestimated because it contains no error for estimating the end-use.

(*) = 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.

• 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 2001 Residential Energy Consumption Survey.

Table CE2-9c. Space-Heating Energy Consumption in U.S. Households by Northeast Census Region, 2001

	Northeast Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			Middle Atlantic	New England	
	0.6	1.0	1.2	1.5	
RSE Column Factor:					
Million Households					
Total U.S. Households	107.0	20.3	14.8	5.4	NE
No Space Heating	1.0	Q	Q	Q	17.3
Space Heating	106.0	20.1	14.7	5.4	NE
Not Using a Major Fuel ¹	0.7	0.2	Q	Q	33.9
Using a Major Fuel ¹	105.3	19.9	14.6	5.3	NE
For Main Space Heating	103.8	19.7	14.4	5.3	0.7
For Secondary Space Heating Only	1.5	0.2	Q	Q	23.4
Number of Households with Space Heating, Major Fuels Used (more than one may apply):					
Electricity	43.8	4.8	3.6	1.2	5.9
Natural Gas	60.5	10.6	8.7	1.9	8.7
Fuel Oil	8.5	6.4	3.7	2.7	12.5
Kerosene	2.7	0.7	0.4	Q	23.8
LPG	6.6	0.6	0.3	0.3	18.7
Quadrillion Btu^a					
Space-Heating Btu Consumption, Major Fuels Used:					
Electricity	0.39	0.05	0.04	0.01	11.4
Natural Gas	3.32	0.71	0.57	0.14	10.4
Fuel Oil	0.58	0.45	0.24	0.22	14.8
Kerosene	0.04	0.02	0.01	Q	31.5
LPG	0.28	0.03	0.02	0.01	24.3
Total	4.62	1.26	0.88	0.38	3.1
Physical Units^a					
Physical Units of Space-Heating Consumption, Major Fuels Used:					
Electricity (billion kWh)	116	14	12	3	11.4
Natural Gas (billion cf)	3,231	689	554	135	10.4
Fuel Oil (million gallons)	4,155	3,266	1,706	1,559	14.8
Kerosene (million gallons)	326	149	98	Q	31.5
LPG (million gallons)	3,097	286	169	117	24.3
Million Btu per Household^a					
Average Space-Heating Btu Consumption per Household					
Using a Major Fuel ¹	43.9	63.1	60.1	71.4	3.0
For Main Space Heating	44.3	63.6	60.5	72.1	3.1
For Secondary Space Heating Only	18.1	24.7	Q	Q	20.6

See footnotes at end of table.

Table CE2-9c. Space-Heating Energy Consumption in U.S. Households by Northeast Census Region, 2001 (Continued)

	Northeast Census Region				RSE Row Factors
	Total U.S.	Census Division			
		Total	Middle Atlantic	New England	
RSE Column Factor:	0.6	1.0	1.2	1.5	
Million Households					
Number of Households, Where the Main Space-Heating Fuel Is:					
Electricity	30.9	2.3	1.8	0.5	11.2
Natural Gas	59.1	10.5	8.6	1.9	8.6
Fuel Oil	8.0	6.2	3.6	2.7	12.4
Kerosene	0.8	0.3	0.2	Q	32.3
LPG	4.9	0.4	0.2	0.1	25.4
Other	2.2	0.4	0.3	0.1	22.4
No Space Heating	1.0	Q	Q	Q	17.3
Million Btu per Household^{3,a}					
Space-Heating Btu Consumption per Household,² Where the Main Space-Heating Fuel Is:					
Electricity	12.0	19.8	20.7	16.1	6.4
Natural Gas	55.4	67.3	65.9	74.1	4.5
Fuel Oil	70.2	71.7	65.0	80.5	4.6
Kerosene	38.3	56.2	61.8	47.4	8.4
LPG	51.0	62.6	63.6	61.1	6.4
Physical Units (PU) per Household^{3,a}					
Physical Units of Space-Heating Consumption per Household,² Where the Main Space-Heating Fuel Is:					
Electricity (kWh)	3,524	5,800	6,075	4,733	6.4
Natural Gas (thousand cf)	54	65	64	72	4.5
Fuel Oil (gallons)	507	517	469	580	4.6
Kerosene (gallons)	283	416	458	351	8.4
LPG (gallons)	559	686	696	669	6.4
2001 Heating Degree-Days (HDD) per Household³					
2001 Heating Degree-Days per Household, Where the Main Space-Heating Fuel Is:					
Electricity	3,006	5,266	5,202	5,515	3.2
Natural Gas	4,255	5,165	5,106	5,432	1.6
Fuel Oil	5,339	5,366	4,794	6,128	3.8
Kerosene	4,636	5,916	5,299	6,895	5.8
LPG	4,643	5,493	5,302	5,794	4.1
Average for All Heated Households	4,004	5,254	5,037	5,845	2.3

See footnotes at end of table.

Table CE2-9c. Space-Heating Energy Consumption in U.S. Households by Northeast Census Region, 2001 (Continued)

	Northeast Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.6	1.0	1.2	1.5	
Heated Square Footage (HSF) per Household³					
Heated Square Footage per Household, Where the Main Space-Heating Fuel Is:					
Electricity	1,399	1,609	1,734	1,122	9.2
Natural Gas	1,836	1,822	1,809	1,880	4.0
Fuel Oil	2,043	2,087	1,951	2,268	5.4
Kerosene	1,076	1,149	936	1,487	12.9
LPG	1,570	1,642	1,923	1,200	17.3
Average for All Heated Households	1,707	1,872	1,829	1,988	3.7
Space-Heating Intensity^{3,a} [PU÷{HDD×(HSF÷1000)}]					
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:					
Electricity (kWh)	0.838	0.685	0.673	0.765	8.5
Natural Gas (cubic feet)	6.893	6.957	6.931	7.050	3.8
Fuel Oil (gallons)	0.046	0.046	0.050	0.042	5.2
Kerosene (gallons)	0.057	0.061	0.092	0.034	13.7
LPG (gallons)	0.077	0.076	0.068	0.096	21.3

¹ The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

² Includes only the space-heating consumption of the space-heating fuel. Not included are: 1) the consumption of the main space-heating fuel for uses other than space heating; 2) the consumption of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the consumption of other fuels that are used as secondary space-heating fuels.

³ Averages are for those households using each of the main space-heating fuels.

^a The row factor in this section is underestimated because it contains no error for estimating the end-use.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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 2001 Residential Energy Consumption Survey.

**Table CE2-10c. Space-Heating Energy Consumption in U.S. Households
by Midwest Census Region, 2001**

	Midwest Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			East North Central	West North Central	
	0.6	1.0	1.1	1.6	
RSE Column Factor:					
Million Households					
Total U.S. Households	107.0	24.5	17.1	7.4	NE
No Space Heating	1.0	Q	Q	Q	17.8
Space Heating	106.0	24.5	17.1	7.4	NE
Not Using a Major Fuel ¹	0.7	Q	Q	Q	35.2
Using a Major Fuel ¹	105.3	24.4	17.0	7.3	NE
For Main Space Heating	103.8	24.1	16.9	7.2	0.7
For Secondary Space Heating Only	1.5	0.3	Q	Q	29.6
Number of Households with Space Heating, Major Fuels Used (more than one may apply):					
Electricity	43.8	6.2	4.0	2.1	7.2
Natural Gas	60.5	19.1	14.0	5.2	4.2
Fuel Oil	8.5	0.9	0.5	0.4	15.2
Kerosene	2.7	0.5	0.4	Q	15.2
LPG	6.6	2.0	1.0	1.0	23.2
Quadrillion Btu^a					
Space-Heating Btu Consumption, Major Fuels Used:					
Electricity	0.39	0.06	0.03	0.02	14.3
Natural Gas	3.32	1.39	1.05	0.34	5.4
Fuel Oil	0.58	0.06	0.03	0.03	18.8
Kerosene	0.04	(*)	Q	Q	35.6
LPG	0.28	0.12	0.06	0.06	23.8
Total	4.62	1.63	1.18	0.45	3.1
Physical Units^a					
Physical Units of Space-Heating Consumption, Major Fuels Used:					
Electricity (billion kWh)	116	17	10	7	14.3
Natural Gas (billion cf)	3,231	1,349	1,021	328	5.4
Fuel Oil (million gallons)	4,155	434	234	199	18.8
Kerosene (million gallons)	326	23	Q	Q	35.6
LPG (million gallons)	3,097	1,309	645	664	23.8
Million Btu per Household^a					
Average Space-Heating Btu Consumption per Household					
Using a Major Fuel ¹	43.9	66.8	69.3	61.2	3.0
For Main Space Heating	44.3	67.2	69.5	61.9	3.0
For Secondary Space Heating Only	18.1	27.0	Q	Q	23.6

See footnotes at end of table.

Table CE2-10c. Space-Heating Energy Consumption in U.S. Households by Midwest Census Region, 2001 (Continued)

	Midwest Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			East North Central	West North Central	
	0.6	1.0	1.1	1.6	
Million Households					
Number of Households, Where the Main Space-Heating Fuel Is:					
Electricity	30.9	2.5	1.7	0.8	13.6
Natural Gas	59.1	18.9	13.8	5.1	4.5
Fuel Oil	8.0	0.8	0.4	0.4	14.1
Kerosene	0.8	Q	Q	Q	31.4
LPG	4.9	1.8	0.9	0.9	23.8
Other	2.2	0.4	Q	0.2	29.6
No Space Heating	1.0	Q	Q	Q	17.8
Million Btu per Household^{3,a}					
Space-Heating Btu Consumption per Household,² Where the Main Space-Heating Fuel Is:					
Electricity	12.0	20.1	18.1	24.3	5.7
Natural Gas	55.4	72.8	75.5	65.5	2.8
Fuel Oil	70.2	71.0	68.2	74.4	11.2
Kerosene	38.3	Q	Q	Q	20.4
LPG	51.0	62.6	62.2	63.1	4.9
Physical Units (PU) per Household^{3,a}					
Physical Units of Space-Heating Consumption per Household,² Where the Main Space-Heating Fuel Is:					
Electricity (kWh)	3,524	5,904	5,311	7,124	5.7
Natural Gas (thousand cf)	54	71	73	64	2.8
Fuel Oil (gallons)	507	513	492	538	11.3
Kerosene (gallons)	283	Q	Q	Q	20.4
LPG (gallons)	559	686	681	691	4.9
2001 Heating Degree-Days (HDD) per Household³					
2001 Heating Degree-Days per Household, Where the Main Space-Heating Fuel Is:					
Electricity	3,006	5,578	5,751	5,222	3.5
Natural Gas	4,255	5,772	5,738	5,864	2.2
Fuel Oil	5,339	6,827	6,402	7,339	4.3
Kerosene	4,636	Q	Q	Q	11.6
LPG	4,643	6,137	6,114	6,160	5.6
Average for All Heated Households	4,004	5,816	5,788	5,881	2.1

See footnotes at end of table.

Table CE2-10c. Space-Heating Energy Consumption in U.S. Households by Midwest Census Region, 2001 (Continued)

	Midwest Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.6	1.0	1.1	1.6	
Heated Square Footage (HSF) per Household³					
Heated Square Footage per Household, Where the Main Space-Heating Fuel Is:					
Electricity	1,399	1,481	1,289	1,877	10.1
Natural Gas	1,836	2,080	2,070	2,110	3.2
Fuel Oil	2,043	1,959	2,067	1,828	9.5
Kerosene	1,076	Q	Q	Q	15.6
LPG	1,570	1,800	1,772	1,829	4.8
Average for All Heated Households	1,707	1,997	1,985	2,024	2.7
Space-Heating Intensity^{3,a} [PU÷{HDD×(HSF÷1000)}]					
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:					
Electricity (kWh)	0.838	0.715	0.717	0.727	7.2
Natural Gas (cubic feet)	6.893	5.892	6.180	5.142	3.0
Fuel Oil (gallons)	0.046	0.038	0.037	0.040	10.4
Kerosene (gallons)	0.057	Q	Q	Q	21.5
LPG (gallons)	0.077	0.062	0.063	0.061	7.6

¹ The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

² Includes only the space-heating consumption of the space-heating fuel. Not included are: 1) the consumption of the main space-heating fuel for uses other than space heating; 2) the consumption of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the consumption of other fuels that are used as secondary space-heating fuels.

³ Averages are for those households using each of the main space-heating fuels.

^a The row factor in this section is underestimated because it contains no error for estimating the end-use.

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

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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 2001 Residential Energy Consumption Survey.

Table CE2-11c. Space-Heating Energy Consumption in U.S. Households by South Census Region, 2001

	South Census Region					RSE Row Factors
	Total U.S.	Census Division			West south Central	
		Total	South Atlantic	East South Central		
RSE Column Factor:	0.4	0.9	1.1	1.6	1.6	
Million Households						
Total U.S. Households	107.0	38.9	20.3	6.8	11.8	NE
No Space Heating	1.0	Q	Q	Q	Q	24.2
Space Heating	106.0	38.8	20.2	6.8	11.8	NE
Not Using a Major Fuel ¹	0.7	Q	Q	Q	Q	48.0
Using a Major Fuel ¹	105.3	38.7	20.0	6.8	11.8	NE
For Main Space Heating	103.8	38.2	19.8	6.7	11.7	0.6
For Secondary Space Heating Only	1.5	0.5	0.3	Q	Q	40.0
Number of Households with Space Heating, Major Fuels Used (more than one may apply):						
Electricity	43.8	23.1	12.4	4.2	6.5	5.7
Natural Gas	60.5	16.6	7.1	2.7	6.8	7.4
Fuel Oil	8.5	0.9	0.9	Q	Q	31.9
Kerosene	2.7	1.3	0.9	0.3	Q	20.7
LPG	6.6	3.0	1.4	1.2	0.4	19.3
Quadrillion Btu^a						
Space-Heating Btu Consumption, Major Fuels Used:						
Electricity	0.39	0.20	0.10	0.05	0.05	9.1
Natural Gas	3.32	0.70	0.31	0.13	0.26	10.3
Fuel Oil	0.58	0.05	0.05	Q	Q	36.5
Kerosene	0.04	0.02	0.01	(*)	Q	34.1
LPG	0.28	0.10	0.05	0.03	0.01	27.4
Total	4.62	1.07	0.52	0.22	0.33	6.6
Physical Units^a						
Physical Units of Space-Heating Consumption, Major Fuels Used:						
Electricity (billion kWh)	116	60	29	16	15	9.1
Natural Gas (billion cf)	3,231	682	304	122	257	10.3
Fuel Oil (million gallons)	4,155	379	357	Q	Q	36.5
Kerosene (million gallons)	326	114	77	37	Q	34.1
LPG (million gallons)	3,097	1,055	523	376	156	27.4
Million Btu per Household^a						
Average Space-Heating Btu Consumption per Household						
Using a Major Fuel ¹	43.9	27.7	25.9	32.5	27.9	6.6
For Main Space Heating	44.3	27.8	26.0	32.7	28.1	6.7
For Secondary Space Heating Only	18.1	16.3	19.2	Q	Q	28.7

See footnotes at end of table.

Table CE2-11c. Space-Heating Energy Consumption in U.S. Households by South Census Region, 2001 (Continued)

	South Census Region					RSE Row Factors
	Total U.S.	Census Division			Total	
		South Atlantic	East South Central	West south Central		
RSE Column Factor:	0.4	0.9	1.1	1.6	1.6	
Million Households						
Number of Households, Where the Main Space-Heating Fuel Is:						
Electricity	30.9	19.3	11.0	3.4	4.9	7.6
Natural Gas	59.1	15.7	6.8	2.4	6.5	7.8
Fuel Oil	8.0	0.8	0.8	Q	Q	31.7
Kerosene	0.8	0.4	0.3	Q	Q	32.5
LPG	4.9	2.0	0.9	0.8	0.3	22.3
Other	2.2	0.6	0.4	Q	Q	33.1
No Space Heating	1.0	Q	Q	Q	Q	24.2
Million Btu per Household^{3,a}						
Space-Heating Btu Consumption per Household,² Where the Main Space-Heating Fuel Is:						
Electricity	12.0	10.2	8.8	15.5	9.7	5.9
Natural Gas	55.4	42.9	44.7	47.2	39.4	5.8
Fuel Oil	70.2	62.4	63.1	Q	Q	15.2
Kerosene	38.3	23.3	19.0	Q	Q	23.9
LPG	51.0	39.3	42.3	36.4	37.5	12.4
Physical Units (PU) per Household^{3,a}						
Physical Units of Space-Heating Consumption per Household,² Where the Main Space-Heating Fuel Is:						
Electricity (kWh)	3,524	2,991	2,576	4,544	2,853	5.9
Natural Gas (thousand cf)	54	42	43	46	38	5.8
Fuel Oil (gallons)	507	450	455	Q	Q	15.2
Kerosene (gallons)	283	173	141	Q	Q	23.9
LPG (gallons)	559	430	463	399	411	12.4
2001 Heating Degree-Days (HDD) per Household³						
2001 Heating Degree-Days per Household, Where the Main Space-Heating Fuel Is:						
Electricity	3,006	2,155	1,922	3,021	2,082	5.8
Natural Gas	4,255	2,779	3,079	3,109	2,340	5.2
Fuel Oil	5,339	3,777	3,760	Q	Q	6.0
Kerosene	4,636	3,261	3,247	Q	Q	8.2
LPG	4,643	2,953	2,891	3,139	2,662	8.2
Average for All Heated Households	4,004	2,515	2,479	3,087	2,247	4.2

See footnotes at end of table.

Table CE2-11c. Space-Heating Energy Consumption in U.S. Households by South Census Region, 2001 (Continued)

	South Census Region					RSE Row Factors
	Total U.S.	Census Division			Total	
		South Atlantic	East South Central	West south Central		
RSE Column Factor:	0.4	0.9	1.1	1.6	1.6	
Heated Square Footage (HSF) per Household³						
Heated Square Footage per Household, Where the Main Space-Heating Fuel Is:						
Electricity	1,399	1,487	1,461	1,783	1,344	5.7
Natural Gas	1,836	1,823	1,940	1,893	1,675	4.8
Fuel Oil	2,043	1,774	1,758	Q	Q	18.2
Kerosene	1,076	836	835	Q	Q	17.5
LPG	1,570	1,350	1,445	1,261	1,285	11.5
Average for All Heated Households	1,707	1,624	1,636	1,761	1,526	4.2
Space-Heating Intensity^{3,a} [PU÷(HDD×(HSF÷1000))]						
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:						
Electricity (kWh)	0.838	0.933	0.918	0.844	1.020	4.7
Natural Gas (cubic feet)	6.893	8.230	7.275	7.786	9.774	5.7
Fuel Oil (gallons)	0.046	0.067	0.069	Q	Q	13.2
Kerosene (gallons)	0.057	0.063	0.052	Q	Q	26.7
LPG (gallons)	0.077	0.108	0.111	0.101	0.120	11.1

¹ The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

² Includes only the space-heating consumption of the space-heating fuel. Not included are: 1) the consumption of the main space-heating fuel for uses other than space heating; 2) the consumption of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the consumption of other fuels that are used as secondary space-heating fuels.

³ Averages are for those households using each of the main space-heating fuels.

^a The row factor in this section is underestimated because it contains no error for estimating the end-use.

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

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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 2001 Residential Energy Consumption Survey.

Table CE2-12c. Space-Heating Energy Consumption in U.S. Households by West Census Region, 2001

	West Census Region				RSE Row Factors
	Total U.S.	Census Division			
		Total	Mountain	Pacific	
RSE Column Factor:	0.5	1.1	1.5	1.2	
Million Households					
Total U.S. Households	107.0	23.3	6.7	16.6	NE
No Space Heating	1.0	0.7	Q	0.7	10.4
Space Heating	106.0	22.6	6.7	15.9	NE
Not Using a Major Fuel ¹	0.7	0.3	Q	0.2	31.4
Using a Major Fuel ¹	105.3	22.4	6.7	15.7	NE
For Main Space Heating	103.8	21.8	6.5	15.3	NE
For Secondary Space Heating Only	1.5	0.6	0.1	0.4	17.7
Number of Households with Space Heating, Major Fuels Used (more than one may apply):					
Electricity	43.8	9.7	2.9	6.8	4.3
Natural Gas	60.5	14.2	4.3	9.9	2.8
Fuel Oil	8.5	0.2	Q	0.2	23.9
Kerosene	2.7	0.2	Q	0.2	20.7
LPG	6.6	1.0	0.5	0.5	24.5
Quadrillion Btu^a					
Space-Heating Btu Consumption, Major Fuels Used:					
Electricity	0.39	0.08	0.02	0.06	8.8
Natural Gas	3.32	0.52	0.23	0.30	5.6
Fuel Oil	0.58	0.01	Q	0.01	29.6
Kerosene	0.04	0.01	Q	0.01	38.4
LPG	0.28	0.04	0.02	0.02	28.3
Total	4.62	0.67	0.27	0.39	4.6
Physical Units^a					
Physical Units of Space-Heating Consumption, Major Fuels Used:					
Electricity (billion kWh)	116	25	6	19	8.8
Natural Gas (billion cf)	3,231	510	221	288	5.6
Fuel Oil (million gallons)	4,155	77	Q	66	29.6
Kerosene (million gallons)	326	40	Q	40	38.4
LPG (million gallons)	3,097	447	269	178	28.3
Million Btu per Household^a					
Average Space-Heating Btu Consumption per Household					
Using a Major Fuel ¹	43.9	29.7	41.0	24.9	4.6
For Main Space Heating	44.3	30.2	41.4	25.4	4.6
For Secondary Space Heating Only	18.1	12.8	25.5	8.7	27.0

See footnotes at end of table.

Table CE2-12c. Space-Heating Energy Consumption in U.S. Households by West Census Region, 2001 (Continued)

	West Census Region				RSE Row Factors
	Total U.S.	Census Division			
		Total	Mountain	Pacific	
RSE Column Factor:	0.5	1.1	1.5	1.2	
Million Households					
Number of Households, Where the Main Space-Heating Fuel Is:					
Electricity	30.9	6.8	2.0	4.8	6.2
Natural Gas	59.1	14.0	4.2	9.8	2.6
Fuel Oil	8.0	0.2	Q	Q	26.6
Kerosene	0.8	Q	Q	Q	35.4
LPG	4.9	0.7	0.4	0.4	25.3
Other	2.2	0.8	0.2	0.7	17.0
No Space Heating	1.0	0.7	Q	0.7	10.4
Million Btu per Household^{3,a}					
Space-Heating Btu Consumption per Household,² Where the Main Space-Heating Fuel Is:					
Electricity	12.0	11.6	9.5	12.4	8.3
Natural Gas	55.4	36.8	53.2	29.8	4.1
Fuel Oil	70.2	52.3	Q	Q	10.2
Kerosene	38.3	Q	Q	Q	23.0
LPG	51.0	48.3	60.2	35.8	10.2
Physical Units (PU) per Household^{3,a}					
Physical Units of Space-Heating Consumption per Household,² Where the Main Space-Heating Fuel Is:					
Electricity (kWh)	3,524	3,388	2,797	3,628	8.3
Natural Gas (thousand cf)	54	36	52	29	4.1
Fuel Oil (gallons)	507	378	Q	Q	10.2
Kerosene (gallons)	283	Q	Q	Q	23.0
LPG (gallons)	559	528	659	392	10.2
2001 Heating Degree-Days (HDD) per Household³					
2001 Heating Degree-Days per Household, Where the Main Space-Heating Fuel Is:					
Electricity	3,006	3,709	3,274	3,885	6.6
Natural Gas	4,255	3,171	4,842	2,456	2.7
Fuel Oil	5,339	4,894	Q	Q	9.2
Kerosene	4,636	Q	Q	Q	13.1
LPG	4,643	5,097	6,150	4,000	8.1
Average for All Heated Households	4,004	3,486	4,497	3,061	3.1

See footnotes at end of table.

Table CE2-12c. Space-Heating Energy Consumption in U.S. Households by West Census Region, 2001 (Continued)

	West Census Region				RSE Row Factors
	Total U.S.	Census Division			
		Total	Mountain	Pacific	
RSE Column Factor:	0.5	1.1	1.5	1.2	
Heated Square Footage (HSF) per Household³					
Heated Square Footage per Household, Where the Main Space-Heating Fuel Is:					
Electricity	1,399	1,048	1,242	969	6.2
Natural Gas	1,836	1,528	1,721	1,445	4.5
Fuel Oil	2,043	2,121	Q	Q	11.9
Kerosene	1,076	Q	Q	Q	17.6
LPG	1,570	1,557	1,494	1,623	10.3
Average for All Heated Households	1,707	1,391	1,563	1,319	4.1
Space-Heating Intensity^{3,a} [PU÷{HDD×(HSF÷1000)}]					
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:					
Electricity (kWh)	0.838	0.872	0.688	0.964	5.6
Natural Gas (cubic feet)	6.893	7.387	6.208	8.161	4.8
Fuel Oil (gallons)	0.046	0.036	Q	Q	10.3
Kerosene (gallons)	0.057	Q	Q	Q	24.2
LPG (gallons)	0.077	0.067	0.072	0.060	12.5

¹ The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

² Includes only the space-heating consumption of the space-heating fuel. Not included are: 1) the consumption of the main space-heating fuel for uses other than space heating; 2) the consumption of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the consumption of other fuels that are used as secondary space-heating fuels.

³ Averages are for those households using each of the main space-heating fuels.

^a The row factor in this section is underestimated because it contains no error for estimating the end-use.

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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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.

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