

2001 Consumption and Expenditures Tables

Space-Heating Expenditures Tables

(20 pages, 94 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 CE2-1e. Space-Heating Energy Expenditures 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	1.0	1.0		
RSE Column Factor:							
Million Households							
Total U.S. Households	107.0	9.2	28.6	24.0	21.0	24.1	8.4
No Space Heating	1.0	Q	Q	Q	0.3	0.5	14.1
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	34.1
Using a Major Fuel ²	105.3	9.1	28.5	23.7	20.4	23.5	8.5
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	26.6
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	17.6
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
Billion Dollars^a							
Space-Heating Expenditures, Major Fuels Used:							
Electricity	8.98	0.51	1.89	2.56	1.89	2.13	11.5
Natural Gas	31.84	2.86	13.47	7.76	4.59	3.16	11.3
Fuel Oil	5.17	1.28	2.00	1.80	Q	Q	20.6
Kerosene	0.49	0.11	0.12	0.11	0.13	Q	33.7
LPG	4.04	0.67	1.21	0.88	0.82	0.46	27.7
Total	50.53	5.42	18.68	13.11	7.53	5.78	8.5
Dollars per Household^a							
Average Space-Heating Expenditures per Household							
Using a Major Fuel ²	480	595	656	553	368	246	4.0
For Main Space Heating	484	615	659	559	371	245	4.0
For Secondary Space Heating Only ...	216	228	297	191	126	Q	19.3
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	17.6
Kerosene	0.8	0.1	Q	Q	0.4	Q	28.5
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	24.2
No Space Heating	1.0	Q	Q	Q	0.3	0.5	14.1

See footnotes at end of table.

Table CE2-1e. Space-Heating Energy Expenditures 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	1.0	1.0	1.3	1.1	
Dollars per Household^{4,a}							
Space-Heating Expenditures per Household,³ Where the Main Space-Heating Fuel Is:							
Electricity	271	364	434	389	257	161	5.9
Natural Gas	530	589	662	615	375	309	4.9
Fuel Oil	630	713	742	518	Q	Q	7.0
Kerosene	411	664	Q	Q	304	Q	15.5
LPG	713	824	825	737	673	458	7.4
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	3.7
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
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	6.9
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} [Cents÷(HDD×(HSF÷1000))]							
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:							
Electricity	6.45	4.28	5.49	6.23	6.91	8.46	6.3
Natural Gas	6.78	3.85	5.81	7.62	10.37	8.88	4.9
Fuel Oil	5.78	5.15	5.47	6.33	Q	Q	6.8
Kerosene	8.24	6.55	Q	Q	6.82	Q	21.6
LPG	9.78	7.01	8.06	10.21	14.07	15.21	11.4

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 expenditures of the space-heating fuel. Not included are: 1) the expenditures of the main space-heating fuel for uses other than space heating; 2) the expenditures of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the expenditures 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 CE2-2e. Space-Heating Energy Expenditures 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	22.9
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	38.4
Using a Major Fuel ²	105.3	15.4	18.1	18.5	13.4	13.8	26.2	4.4
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	25.0
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
Billion Dollars^a								
Space-Heating Expenditures, Major Fuels Used:								
Electricity	8.98	1.34	2.22	2.48	0.96	0.74	1.25	8.8
Natural Gas	31.84	4.02	3.46	3.44	3.97	4.90	12.05	7.8
Fuel Oil	5.17	0.15	0.27	0.46	0.61	1.09	2.59	18.4
Kerosene	0.49	0.09	0.05	0.17	Q	0.04	0.09	32.5
LPG	4.04	0.63	0.66	0.68	0.44	0.24	1.40	19.2
Total	50.53	6.23	6.66	7.22	6.03	7.00	17.38	5.1
Dollars per Household^a								
Average Space-Heating Expenditures per Household								
Using a Major Fuel ²	480	405	368	391	449	508	664	3.2
For Main Space Heating	484	408	370	396	453	511	670	3.3
For Secondary Space Heating Only	216	175	276	164	Q	Q	266	24.4
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	29.6
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	22.9

See footnotes at end of table.

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

	Year of Construction						RSE Row Factors	
	Total	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	
Dollars per Household^{4,a}								
Space-Heating Expenditures per Household,³ Where the Main Space-Heating Fuel Is:								
Electricity	271	232	241	286	296	286	366	5.8
Natural Gas	530	464	451	431	463	520	675	4.2
Fuel Oil	630	601	604	563	525	617	687	8.7
Kerosene	411	Q	Q	389	Q	Q	Q	22.7
LPG	713	666	587	697	698	536	866	8.1
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
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	14.8
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} [Cents÷{HDD×(HSF÷1000)}]								
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:								
Electricity	6.45	4.62	6.05	7.07	7.49	7.69	8.41	5.7
Natural Gas	6.78	4.70	5.10	6.43	7.20	7.26	8.72	4.3
Fuel Oil	5.78	2.98	4.85	4.60	5.56	5.67	6.64	9.3
Kerosene	8.24	Q	Q	8.35	Q	Q	Q	21.5
LPG	9.78	6.42	8.25	9.43	10.58	8.41	13.69	11.9

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 expenditures of the space-heating fuel. Not included are: 1) the expenditures of the main space-heating fuel for uses other than space heating; 2) the expenditures of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the expenditures 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 CE2-3e. Space-Heating Energy Expenditures 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
Billion Dollars^a								
Space-Heating Expenditures, Major Fuels Used:								
Electricity	8.98	0.89	2.48	2.38	3.23	1.20	2.78	7.7
Natural Gas	31.84	2.57	8.09	7.49	13.68	3.52	8.99	7.0
Fuel Oil	5.17	0.23	1.24	1.40	2.29	0.33	1.33	14.7
Kerosene	0.49	0.10	0.19	0.13	0.07	0.16	0.28	26.6
LPG	4.04	0.31	1.29	1.17	1.28	0.45	1.20	18.5
Total	50.53	4.10	13.29	12.58	20.55	5.66	14.58	4.3
Dollars per Household^a								
Average Space-Heating Expenditures per Household								
Using a Major Fuel ²	480	380	441	474	543	388	439	3.2
For Main Space Heating	484	384	444	478	548	392	442	3.2
For Secondary Space Heating Only	216	Q	167	235	250	145	212	19.0
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

See footnotes at end of table.

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

	2001 Household Income					Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
	Total	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	
Dollars per Household^{4,a}								
Space-Heating Expenditures per Household,³ Where the Main Space-Heating Fuel Is:								
Electricity	271	222	247	279	308	229	253	4.6
Natural Gas	530	462	495	513	581	455	498	4.2
Fuel Oil	630	424	584	611	709	441	579	6.9
Kerosene	411	314	382	603	Q	340	357	16.3
LPG	713	483	688	733	831	531	605	7.4
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
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} [Cents÷{HDD×(HSF÷1000)}]								
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:								
Electricity	6.45	8.47	7.82	7.22	5.19	8.21	7.98	4.9
Natural Gas	6.78	10.39	8.71	6.95	5.62	10.37	8.83	4.1
Fuel Oil	5.78	6.97	6.39	5.94	5.36	6.54	6.87	7.8
Kerosene	8.24	9.78	7.55	7.92	Q	9.86	8.38	23.1
LPG	9.78	12.23	12.33	8.67	8.14	12.55	10.77	9.9

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 expenditures of the space-heating fuel. Not included are: 1) the expenditures of the main space-heating fuel for uses other than space heating; 2) the expenditures of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the expenditures 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 CE2-4e. Space-Heating Energy Expenditures 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	1.1	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	18.6
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	33.2
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	23.4
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	15.4
LPG	6.6	5.3	Q	Q	1.2	16.0
Billion Dollars^a						
Space-Heating Expenditures, Major Fuels Used:						
Electricity	8.98	5.73	0.78	1.65	0.83	9.5
Natural Gas	31.84	26.02	3.47	1.47	0.88	8.7
Fuel Oil	5.17	4.44	0.44	0.20	0.08	19.2
Kerosene	0.49	0.28	Q	Q	0.19	25.2
LPG	4.04	3.33	Q	Q	0.68	19.0
Total	50.53	39.80	4.73	3.33	2.66	5.1
Dollars per Household^a						
Average Space-Heating Expenditures per Household						
Using a Major Fuel ¹	480	546	505	204	393	3.5
For Main Space Heating	484	553	506	204	393	3.5
For Secondary Space Heating Only	216	207	Q	Q	Q	18.2
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	26.1
LPG	4.9	3.8	Q	Q	1.0	17.6
Other	2.2	1.9	Q	Q	Q	21.6
No Space Heating	1.0	0.3	Q	0.6	Q	18.6

See footnotes at end of table.

Table CE2-4e. Space-Heating Energy Expenditures 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	1.1	1.7	
Dollars per Household^{3,a}						
Space-Heating Expenditures per Household,² Where the Main Space-Heating Fuel Is:						
Electricity	271	310	235	204	271	5.5
Natural Gas	530	577	621	204	397	4.6
Fuel Oil	630	730	715	157	450	7.8
Kerosene	411	353	Q	Q	495	18.9
LPG	713	755	Q	Q	587	6.3
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	6.4
Average for All Heated Households	4,004	4,012	4,274	3,841	3,942	2.7
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	10.9
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} [Cents÷{HDD×(HSF÷1000)}]						
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:						
Electricity	6.45	5.88	8.52	8.22	8.86	5.0
Natural Gas	6.78	6.55	9.92	5.89	8.98	4.3
Fuel Oil	5.78	5.64	7.08	4.13	8.51	8.9
Kerosene	8.24	6.29	Q	Q	13.31	13.4
LPG	9.78	9.20	Q	Q	13.97	9.6

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

² Includes only the space-heating expenditures of the space-heating fuel. Not included are: 1) the expenditures of the main space-heating fuel for uses other than space heating; 2) the expenditures of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the expenditures 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 CE2-7e. Space-Heating Energy Expenditures 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:	0.4	1.2	0.9	1.5	1.8	
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	22.6
Space Heating	106.0	7.1	12.0	7.7	6.2	0.6
Not Using a Major Fuel ¹	0.7	Q	0.2	Q	Q	48.2
Using a Major Fuel ¹	105.3	7.0	11.8	7.7	6.2	0.6
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	38.7
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	20.2
Kerosene	2.7	0.2	Q	Q	Q	30.0
LPG	6.6	Q	0.3	0.2	Q	29.8
Billion Dollars^a						
Space-Heating Expenditures, Major Fuels Used:						
Electricity	8.98	0.34	0.52	0.87	0.44	14.6
Natural Gas	31.84	3.12	2.45	1.35	0.17	12.3
Fuel Oil	5.17	1.02	Q	Q	Q	25.0
Kerosene	0.49	0.04	Q	Q	Q	31.0
LPG	4.04	Q	0.19	0.09	Q	30.3
Total	50.53	4.57	3.24	2.32	0.64	6.7
Dollars per Household^a						
Average Space-Heating Expenditures per Household						
Using a Major Fuel ¹	480	658	274	302	103	6.8
For Main Space Heating	484	663	276	302	103	6.9
For Secondary Space Heating Only	216	Q	Q	Q	Q	29.0
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	20.1
Kerosene	0.8	Q	Q	Q	Q	47.7
LPG	4.9	Q	0.3	Q	Q	33.3
Other	2.2	0.2	0.4	Q	Q	31.8
No Space Heating	1.0	Q	0.3	Q	Q	22.6

See footnotes at end of table.

Table CE2-7e. Space-Heating Energy Expenditures 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:	0.4	1.2	0.9	1.5	1.8	
Dollars per Household^{3,a}						
Space-Heating Expenditures per Household,² Where the Main Space-Heating Fuel Is:						
Electricity	271	581	195	243	85	8.6
Natural Gas	530	737	270	326	165	7.4
Fuel Oil	630	478	Q	Q	Q	8.4
Kerosene	411	Q	Q	Q	Q	30.1
LPG	713	Q	593	Q	Q	14.9
2001 Heating Degree-Days (HDD) per Household³						
2001 Heating Degree-Days per Household, Where the Main Space-Heating Fuel Is:						
Electricity	3,006	5,632	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	6.0
Kerosene	4,636	Q	Q	Q	Q	17.6
LPG	4,643	Q	3,668	Q	Q	13.1
Average for All Heated Households	4,004	5,011	2,290	2,139	579	6.0
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	9.2
Kerosene	1,076	Q	Q	Q	Q	23.6
LPG	1,570	Q	1,650	Q	Q	16.4
Average for All Heated Households	1,707	1,657	1,315	1,549	1,576	4.2
Space-Heating Intensity^{3,a} [Cents÷{HDD×(HSF÷1000)}]						
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:						
Electricity	6.45	9.45	8.75	8.72	10.66	8.7
Natural Gas	6.78	7.95	9.17	8.58	10.27	6.7
Fuel Oil	5.78	6.78	Q	Q	Q	8.7
Kerosene	8.24	Q	Q	Q	Q	31.3
LPG	9.78	Q	9.80	Q	Q	26.9

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

² Includes only the space-heating expenditures of the space-heating fuel. Not included are: 1) the expenditures of the main space-heating fuel for uses other than space heating; 2) the expenditures of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the expenditures 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 CE2-8e. Space-Heating Energy Expenditures 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	1.2	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	15.4
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	30.4
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	22.3
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
Billion Dollars^a						
Space-Heating Expenditures, Major Fuels Used:						
Electricity	8.98	3.26	1.52	1.84	2.36	7.7
Natural Gas	31.84	16.22	5.83	7.61	2.17	7.8
Fuel Oil	5.17	1.20	1.42	0.88	1.67	15.3
Kerosene	0.49	0.04	0.08	Q	0.33	30.8
LPG	4.04	0.24	0.77	0.20	2.83	21.2
Total	50.53	20.96	9.63	10.57	9.36	4.9
Dollars per Household^a						
Average Space-Heating Expenditures per Household						
Using a Major Fuel ²	480	428	537	500	541	3.0
For Main Space Heating	484	429	544	502	558	3.0
For Secondary Space Heating Only	216	289	140	Q	225	19.5
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	23.7
LPG	4.9	0.3	0.9	0.2	3.5	21.0
Other	2.2	0.4	0.3	Q	1.4	19.9
No Space Heating	1.0	0.7	Q	Q	Q	15.4

See footnotes at end of table.

Table CE2-8e. Space-Heating Energy Expenditures 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	1.2	1.0	
Dollars per Household^{4,a}						
Space-Heating Expenditures per Household,³ Where the Main Space-Heating Fuel Is:						
Electricity	271	222	304	277	347	4.9
Natural Gas	530	494	568	573	593	3.9
Fuel Oil	630	487	710	661	695	5.8
Kerosene	411	Q	Q	Q	447	14.8
LPG	713	569	799	555	713	8.9
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	8.6
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
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	11.8
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} [Cents÷{HDD×(HSF÷1000)}]						
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:						
Electricity	6.45	6.98	6.60	6.29	5.70	5.0
Natural Gas	6.78	7.52	6.75	5.70	6.11	4.5
Fuel Oil	5.78	5.98	5.60	6.15	5.59	5.6
Kerosene	8.24	Q	Q	Q	8.06	14.1
LPG	9.78	13.13	11.38	8.60	9.27	13.5

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 expenditures of the space-heating fuel. Not included are: 1) the expenditures of the main space-heating fuel for uses other than space heating; 2) the expenditures of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the expenditures 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 CE2-9e. Space-Heating Energy Expenditures 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	
RSE Column Factor:	0.6	1.0	1.2	1.5	
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	33.7
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	23.2
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	23.6
LPG	6.6	0.6	0.3	0.3	18.7
Billion Dollars^a					
Space-Heating Expenditures, Major Fuels Used:					
Electricity	8.98	1.46	1.18	0.28	11.4
Natural Gas	31.84	7.93	6.24	1.68	11.5
Fuel Oil	5.17	4.05	2.09	1.96	14.7
Kerosene	0.49	0.22	0.14	Q	31.5
LPG	4.04	0.41	0.25	0.17	23.5
Total	50.53	14.07	9.90	4.17	3.3
Dollars per Household^a					
Average Space-Heating Expenditures per Household					
Using a Major Fuel ¹	480	706	679	779	3.2
For Main Space Heating	484	711	684	787	3.2
For Secondary Space Heating Only	216	264	Q	Q	17.1
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	32.0
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

See footnotes at end of table.

Table CE2-9e. Space-Heating Energy Expenditures 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	
Dollars per Household^{3,a}					
Space-Heating Expenditures per Household,² Where the Main Space-Heating Fuel Is:					
Electricity	271	579	597	510	4.7
Natural Gas	530	752	721	895	5.2
Fuel Oil	630	640	574	728	4.9
Kerosene	411	590	620	542	7.3
LPG	713	966	985	935	6.5
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
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} [Cents÷{HDD×(HSF÷1000)}]					
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:					
Electricity	6.45	6.84	6.62	8.24	10.3
Natural Gas	6.78	8.00	7.81	8.77	4.8
Fuel Oil	5.78	5.72	6.14	5.24	5.3
Kerosene	8.24	8.68	12.51	5.28	14.4
LPG	9.78	10.71	9.66	Q	22.5

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

² Includes only the space-heating expenditures of the space-heating fuel. Not included are: 1) the expenditures of the main space-heating fuel for uses other than space heating; 2) the expenditures of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the expenditures 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 CE2-10e. Space-Heating Energy Expenditures in U.S. Households by Midwest Census Region, 2001

	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
		RSE Column Factor:	0.6	1.0	
Million Households					
Total U.S. Households	107.0	24.5	17.1	7.4	NE
No Space Heating	1.0	Q	Q	Q	17.7
Space Heating	106.0	24.5	17.1	7.4	NE
Not Using a Major Fuel ¹	0.7	Q	Q	Q	35.0
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	29.5
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	14.9
LPG	6.6	2.0	1.0	1.0	23.2
Billion Dollars^a					
Space-Heating Expenditures, Major Fuels Used:					
Electricity	8.98	1.21	0.75	0.46	13.8
Natural Gas	31.84	11.78	8.69	3.08	5.9
Fuel Oil	5.17	0.52	0.28	0.24	19.6
Kerosene	0.49	0.04	Q	Q	35.5
LPG	4.04	1.51	0.78	0.73	24.0
Total	50.53	15.06	10.53	4.53	3.0
Dollars per Household^a					
Average Space-Heating Expenditures per Household					
Using a Major Fuel ¹	480	618	619	617	3.0
For Main Space Heating	484	622	621	623	3.0
For Secondary Space Heating Only	216	294	Q	Q	19.3
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	31.3
LPG	4.9	1.8	0.9	0.9	23.8
Other	2.2	0.4	Q	0.2	29.9
No Space Heating	1.0	Q	Q	Q	17.7

See footnotes at end of table.

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

	Midwest Census Region				RSE Row Factors
	Total U.S.	Census Division			
		Total	East North Central	West North Central	
RSE Column Factor:	0.6	1.0	1.2	1.5	
Dollars per Household^{3,a}					
Space-Heating Expenditures per Household,² Where the Main Space-Heating Fuel Is:					
Electricity	271	420	388	486	6.2
Natural Gas	530	617	625	597	3.7
Fuel Oil	630	619	589	656	12.5
Kerosene	411	Q	Q	Q	19.7
LPG	713	790	820	760	4.5
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	11.5
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
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	15.5
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} [Cents÷{HDD×(HSF÷1000)}]					
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:					
Electricity	6.45	5.08	5.23	4.96	8.2
Natural Gas	6.78	5.14	5.26	4.83	4.1
Fuel Oil	5.78	4.63	4.45	4.89	11.3
Kerosene	8.24	Q	Q	Q	20.6
LPG	9.78	7.15	7.57	6.75	7.8

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

² Includes only the space-heating expenditures of the space-heating fuel. Not included are: 1) the expenditures of the main space-heating fuel for uses other than space heating; 2) the expenditures of the main space-heating fuel where it is the secondary, and not the main, space-heating fuel, and; 3) the expenditures 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 CE2-11e. Space-Heating Energy Expenditures 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	0.8	1.1	1.7	1.6	
Million Households						
Total U.S. Households	107.0	38.9	20.3	6.8	11.8	NE 24.0
No Space Heating	1.0	Q	Q	Q	Q	NE 24.0
Space Heating	106.0	38.8	20.2	6.8	11.8	NE 47.6
Not Using a Major Fuel ¹	0.7	Q	Q	Q	Q	NE 47.6
Using a Major Fuel ¹	105.3	38.7	20.0	6.8	11.8	NE 0.6
For Main Space Heating	103.8	38.2	19.8	6.7	11.7	NE 0.6
For Secondary Space Heating Only	1.5	0.5	0.3	Q	Q	NE 40.7
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	32.4
Kerosene	2.7	1.3	0.9	0.3	Q	20.8
LPG	6.6	3.0	1.4	1.2	0.4	19.3
Billion Dollars^a						
Space-Heating Expenditures, Major Fuels Used:						
Electricity	8.98	4.57	2.31	1.01	1.24	8.9
Natural Gas	31.84	7.36	3.62	1.23	2.51	10.8
Fuel Oil	5.17	0.50	0.48	Q	Q	38.2
Kerosene	0.49	0.17	0.11	0.06	Q	34.3
LPG	4.04	1.52	0.81	0.51	0.20	27.0
Total	50.53	14.13	7.33	2.83	3.96	5.8
Dollars per Household^a						
Average Space-Heating Expenditures per Household						
Using a Major Fuel ¹	480	365	366	416	335	5.8
For Main Space Heating	484	367	367	419	337	5.9
For Secondary Space Heating Only	216	212	261	Q	Q	29.1
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	32.2
Kerosene	0.8	0.4	0.3	Q	Q	33.0
LPG	4.9	2.0	0.9	0.8	0.3	22.3
Other	2.2	0.6	0.4	Q	Q	33.7
No Space Heating	1.0	Q	Q	Q	Q	24.0

See footnotes at end of table.

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

	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	0.8	1.1	1.7	1.6	
Dollars per Household^{3,a}						
Space-Heating Expenditures per Household,² Where the Main Space-Heating Fuel Is:						
Electricity	271	228	204	291	237	5.5
Natural Gas	530	449	517	458	375	7.2
Fuel Oil	630	599	610	Q	Q	18.1
Kerosene	411	263	214	Q	Q	23.0
LPG	713	603	692	535	505	12.2
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	6.1
Kerosene	4,636	3,261	3,247	Q	Q	8.3
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
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	18.5
Kerosene	1,076	836	835	Q	Q	17.8
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} [Cents÷(HDD×(HSF÷1000))]						
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:						
Electricity	6.45	7.11	7.28	5.40	8.46	5.2
Natural Gas	6.78	8.86	8.65	7.79	9.56	7.5
Fuel Oil	5.78	8.93	9.23	Q	Q	14.2
Kerosene	8.24	9.65	7.88	Q	Q	25.4
LPG	9.78	15.13	16.57	13.52	14.75	11.5

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

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

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Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 2001 Residential Energy Consumption Survey.

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

	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			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	31.5
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
Billion Dollars^a					
Space-Heating Expenditures, Major Fuels Used:					
Electricity	8.98	1.75	0.45	1.30	7.1
Natural Gas	31.84	4.77	1.79	2.98	6.1
Fuel Oil	5.17	0.10	Q	0.08	29.9
Kerosene	0.49	0.06	Q	0.06	38.2
LPG	4.04	0.60	0.32	0.27	26.3
Total	50.53	7.27	2.57	4.69	4.4
Dollars per Household^a					
Average Space-Heating Expenditures per Household					
Using a Major Fuel ¹	480	325	385	299	4.5
For Main Space Heating	484	329	387	304	4.5
For Secondary Space Heating Only	216	165	276	129	25.6
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	26.2
Kerosene	0.8	Q	Q	Q	33.8
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

See footnotes at end of table.

Table CE2-12e. Space-Heating Energy Expenditures 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	
Dollars per Household^{3,a}					
Space-Heating Expenditures per Household,² Where the Main Space-Heating Fuel Is:					
Electricity	271	236	207	249	6.3
Natural Gas	530	335	419	299	4.8
Fuel Oil	630	468	Q	Q	10.8
Kerosene	411	Q	Q	Q	21.3
LPG	713	694	779	606	8.3
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	9.1
Kerosene	4,636	Q	Q	Q	12.5
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
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	11.8
Kerosene	1,076	Q	Q	Q	16.8
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} [Cents÷(HDD×(HSF÷1000))]					
Space-Heating Intensity, Where the Main Space-Heating Fuel Is:					
Electricity	6.45	6.08	5.08	6.60	5.5
Natural Gas	6.78	6.91	5.02	8.42	5.7
Fuel Oil	5.78	4.51	Q	Q	10.4
Kerosene	8.24	Q	Q	Q	22.2
LPG	9.78	8.75	8.48	9.33	14.4

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

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