

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

	Climate Zone <sup>1</sup>						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	
<b>Million Households</b>							
<b>Total U.S. Households</b> .....	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 <sup>2</sup> .....	0.7	0.1	Q	Q	0.2	Q	34.0
Using a Major Fuel <sup>2</sup> .....	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
<b>Number of Households with Space Heating, Major Fuels Used (more than one may apply):</b>							
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
<b>Quadrillion Btu<sup>a</sup></b>							
<b>Space-Heating Btu Consumption, Major Fuels Used:</b>							
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
<b>Physical Units<sup>a</sup></b>							
<b>Physical Units of Space-Heating Consumption, Major Fuels Used:</b>							
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
<b>Million Btu per Household<sup>a</sup></b>							
<b>Average Space-Heating Btu Consumption per Household</b>							
Using a Major Fuel <sup>2</sup> .....	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 <sup>1</sup>						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	
<b>Million Households</b>							
<b>Number of Households, Where the Main Space-Heating Fuel Is:</b>							
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
<b>Million Btu per Household<sup>4,a</sup></b>							
<b>Space-Heating Btu Consumption per Household,<sup>3</sup> Where the Main Space-Heating Fuel Is:</b>							
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
<b>Physical Units (PU) per Household<sup>4,a</sup></b>							
<b>Physical Units of Space-Heating Consumption per Household,<sup>3</sup> Where the Main Space-Heating Fuel Is:</b>							
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
<b>2001 Heating Degree-Days (HDD) per Household<sup>4</sup></b>							
<b>2001 Heating Degree-Days per Household, Where the Main Space-Heating Fuel Is:</b>							
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 <sup>1</sup>						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	
<b>Heated Square Footage (HSF) per Household<sup>4</sup></b>							
<b>Heated Square Footage per Household, Where the Main Space-Heating Fuel Is:</b>							
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
<b>Space-Heating Intensity<sup>4,a</sup> [PU÷(HDD×(HSF÷1000))]</b>							
<b>Space-Heating Intensity, Where the Main Space-Heating Fuel Is:</b>							
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

<sup>1</sup> 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.

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

<sup>3</sup> 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.

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

<sup>a</sup> 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.