

# 2001 Consumption and Expenditures Tables

## Total Expenditures Tables

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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 CE1-1e. Total Energy Expenditures in U.S. Households by Climate Zone, 2001 - Preliminary Data**

	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:	0.4	1.7	1.1	1.1	1.2	1.0	
<b>Million Households</b>							
<b>Total U.S. Households</b> .....	107.0	9.2	28.6	24.0	21.0	24.1	7.9
<b>Number of Households, Fuels Used (more than one may apply):</b>							
Electricity <sup>2</sup> .....	107.0	9.2	28.6	24.0	21.0	24.1	7.9
Natural Gas .....	66.9	4.9	21.2	14.9	13.8	12.1	8.6
Fuel Oil .....	8.7	1.8	2.9	3.7	Q	Q	16.8
Kerosene .....	2.9	0.4	0.7	0.7	0.8	0.3	21.6
LPG .....	9.4	1.6	2.2	1.9	2.1	1.5	20.9
Wood .....	14.5	2.0	3.1	2.9	3.4	3.0	13.1
<b>Billion Dollars</b>							
<b>Total Expenditures, Fuels Used:</b>							
Electricity .....	99.77	7.25	22.73	21.43	19.38	28.99	7.2
Natural Gas .....	46.98	3.58	18.14	11.21	8.13	5.92	10.4
Fuel Oil .....	6.31	1.51	2.38	2.32	Q	Q	19.3
Kerosene .....	0.53	0.11	0.12	0.13	0.14	0.03	31.1
LPG .....	5.57	0.94	1.61	1.18	1.09	0.75	23.8
Total .....	159.15	13.38	44.98	36.26	28.83	35.70	7.0
<b>Dollars per Household<sup>3</sup></b>							
<b>Total Expenditures per Household, Fuels Used:</b>							
Electricity .....	933	784	793	892	923	1,204	2.7
Natural Gas .....	702	728	856	751	588	490	4.1
Fuel Oil .....	728	821	836	634	Q	Q	6.4
Kerosene .....	180	270	188	173	175	81	23.7
LPG .....	594	603	725	608	514	489	9.7
Total .....	1,488	1,448	1,570	1,509	1,373	1,483	2.6
<b>Dollars per Million Btu<sup>3</sup></b>							
<b>Average Price of Btu Consumption, Fuels Used:</b>							
Electricity .....	25.79	23.90	25.86	25.43	26.77	25.90	2.5
Natural Gas .....	9.70	8.37	9.10	10.32	11.07	9.80	2.5
Fuel Oil .....	8.91	8.96	9.00	8.79	Q	Q	1.7
Kerosene .....	11.08	10.90	11.11	11.56	10.99	10.12	3.7
LPG .....	14.90	13.44	14.15	14.86	16.57	16.66	4.3
Total .....	16.17	13.67	13.79	15.88	18.64	20.15	1.7

See footnotes at end of table.

**Table CE1-1e. Total Energy Expenditures in U.S. Households by Climate Zone, 2001 - Preliminary Data (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:	0.4	1.7	1.1	1.1	1.2	1.0	
<b>Price per Physical Unit<sup>3</sup></b>							
<b>Average Price of Physical Units of Consumption, Fuels Used:</b>							
Electricity (cents per kWh) .....	8.8	8.2	8.8	8.7	9.1	8.8	2.5
Natural Gas (dollars per thousand cf) ..	9.98	8.61	9.37	10.62	11.39	10.08	2.5
Fuel Oil (dollars per gallon) .....	1.24	1.24	1.25	1.22	Q	Q	1.7
Kerosene (dollars per gallon) .....	1.50	1.47	1.50	1.56	1.48	1.37	3.7
LPG (dollars per gallon) .....	1.36	1.23	1.29	1.36	1.51	1.52	4.3
<b>Million Households</b>							
<b>Number of Households, Where the End Use Is:</b>							
Space Heating <sup>4</sup> .....	105.3	9.1	28.5	23.7	20.4	23.5	8.0
Electric Air-Conditioning <sup>5</sup> .....	80.8	5.3	20.5	19.9	13.4	21.8	8.2
Water Heating <sup>6</sup> .....	106.7	9.2	28.6	24.0	20.9	24.0	7.9
Refrigerators .....	106.8	9.2	28.6	24.0	20.9	24.1	7.9
Appliances .....	107.0	9.2	28.6	24.0	21.0	24.1	7.9
<b>Billion Dollars</b>							
<b>Total Expenditures, Where the End Use Is:</b>							
Space Heating .....	49.95	5.39	18.53	12.95	7.41	5.67	8.6
Electric Air-Conditioning .....	15.92	0.45	2.20	2.87	2.71	7.68	9.7
Water Heating .....	22.10	1.81	5.71	4.87	4.50	5.21	6.9
Refrigerators .....	14.78	1.13	3.73	3.22	2.91	3.79	6.8
Other Appliances and Lighting .....	56.41	4.59	14.81	12.36	11.29	13.35	6.9
<b>Dollars per Household<sup>3</sup></b>							
<b>Total Expenditures per Household, Where the End Use Is:</b>							
Space Heating .....	474	592	650	546	363	241	4.1
Electric Air-Conditioning .....	197	86	107	144	202	353	4.7
Water Heating .....	207	198	199	203	216	217	2.5
Refrigerators .....	138	123	130	134	139	157	2.8
Other Appliances and Lighting .....	527	496	517	514	538	555	2.8

<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 RECS cannot be used to accurately estimate the number of households that do not use electricity.

<sup>3</sup> The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.

<sup>4</sup> Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

<sup>5</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>6</sup> Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

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 CE1-2e. Total Energy Expenditures in U.S. Households  
by Year of Construction, 2001 - Preliminary Data**

	Total	Year of Construction						RSE Row Factors
		1990 to 2001 <sup>1</sup>	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.6	1.1	1.0	1.2	1.1	0.9	
<b>Million Households</b>								
<b>Total U.S. Households</b> .....	107.0	15.5	18.2	18.8	13.8	14.2	26.6	4.3
<b>Number of Households, Fuels Used (more than one may apply):</b>								
Electricity <sup>2</sup> .....	107.0	15.5	18.2	18.8	13.8	14.2	26.6	4.3
Natural Gas .....	66.9	9.4	8.8	9.0	9.5	10.3	20.0	5.9
Fuel Oil .....	8.7	0.3	0.5	0.9	1.3	1.8	3.9	15.5
Kerosene .....	2.9	0.4	0.3	0.7	0.4	0.3	0.8	20.8
LPG .....	9.4	1.4	1.5	1.7	1.1	1.0	2.6	13.9
Wood .....	14.5	2.0	3.0	3.2	2.0	1.7	2.5	9.9
<b>Billion Dollars</b>								
<b>Total Expenditures, Fuels Used:</b>								
Electricity .....	99.77	16.97	19.20	18.84	12.00	12.07	20.68	4.5
Natural Gas .....	46.98	6.54	5.53	5.28	6.00	7.15	16.47	7.3
Fuel Oil .....	6.31	0.21	0.40	0.61	0.77	1.29	3.04	18.0
Kerosene .....	0.53	0.10	0.05	0.18	0.05	0.04	0.11	32.8
LPG .....	5.57	0.84	0.88	0.95	0.57	0.45	1.89	16.5
Total .....	159.15	24.66	26.06	25.86	19.39	20.99	42.19	4.4
<b>Dollars per Household<sup>3</sup></b>								
<b>Total Expenditures per Household, Fuels Used:</b>								
Electricity .....	933	1,098	1,053	1,005	871	852	779	2.7
Natural Gas .....	702	699	630	587	633	692	825	3.8
Fuel Oil .....	737	750	813	736	600	721	780	7.3
Kerosene .....	180	232	145	255	140	134	136	27.2
LPG .....	602	613	578	544	524	462	735	9.1
Total .....	1,488	1,595	1,429	1,379	1,407	1,482	1,586	2.3
<b>Dollars per Million Btu<sup>3</sup></b>								
<b>Average Price of Btu Consumption, Fuels Used:</b>								
Electricity .....	25.79	24.96	24.82	24.84	26.77	26.75	27.34	1.3
Natural Gas .....	9.70	9.86	9.76	9.32	9.81	9.49	9.79	2.2
Fuel Oil .....	8.91	8.78	8.89	8.99	8.79	8.98	8.92	1.9
Kerosene .....	11.08	10.91	10.74	10.79	10.71	11.78	11.93	4.0
LPG .....	14.90	14.85	15.56	14.81	14.85	16.51	14.35	3.6
Total .....	16.17	17.21	18.02	17.55	16.29	15.23	14.45	1.4

See footnotes at end of table.

**Table CE1-2e. Total Energy Expenditures in U.S. Households  
by Year of Construction, 2001 - Preliminary Data (Continued)**

	Total	Year of Construction						RSE Row Factors
		1990 to 2001 <sup>1</sup>	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.6	1.1	1.0	1.2	1.1	0.9	
<b>Price per Physical Unit<sup>3</sup></b>								
<b>Average Price of Physical Units of Consumption, Fuels Used:</b>								
Electricity (cents per kWh) .....	8.8	8.5	8.5	8.5	9.1	9.1	9.3	1.3
Natural Gas (dollars per thousand cf) .....	9.98	10.14	10.04	9.59	10.09	9.77	10.08	2.2
Fuel Oil (dollars per gallon) .....	1.24	1.22	1.23	1.25	1.22	1.25	1.24	1.9
Kerosene (dollars per gallon) .....	1.50	1.47	1.45	1.46	1.45	1.59	1.61	4.0
LPG (dollars per gallon) .....	1.36	1.36	1.42	1.35	1.36	1.51	1.31	3.6
<b>Million Households</b>								
<b>Number of Households, Where the End Use Is:</b>								
Space Heating <sup>4</sup> .....	105.3	15.4	18.1	18.5	13.4	13.8	26.2	4.3
Electric Air-Conditioning <sup>5</sup> .....	80.8	13.4	15.8	14.2	10.1	10.2	17.1	4.7
Water Heating <sup>6</sup> .....	106.7	15.4	18.2	18.7	13.7	14.2	26.4	4.3
Refrigerators .....	106.8	15.5	18.2	18.7	13.8	14.1	26.5	4.2
Appliances .....	107.0	15.5	18.2	18.8	13.8	14.2	26.6	4.3
<b>Billion Dollars</b>								
<b>Total Expenditures, Where the End Use Is:</b>								
Space Heating .....	49.95	6.18	6.53	6.97	5.97	6.97	17.33	5.1
Electric Air-Conditioning .....	15.92	3.53	3.56	3.11	1.79	1.66	2.26	7.2
Water Heating .....	22.10	3.53	3.97	3.84	2.65	2.87	5.23	4.3
Refrigerators .....	14.78	2.10	2.52	2.59	1.92	2.04	3.61	4.5
Other Appliances and Lighting .....	56.41	9.32	9.49	9.34	7.05	7.46	13.75	4.5
<b>Dollars per Household<sup>3</sup></b>								
<b>Total Expenditures per Household, Where the End Use Is:</b>								
Space Heating .....	474	402	361	378	445	505	662	3.3
Electric Air-Conditioning .....	197	264	226	220	176	164	132	5.4
Water Heating .....	207	229	218	205	193	202	198	2.2
Refrigerators .....	138	136	138	138	140	144	136	2.7
Other Appliances and Lighting .....	527	603	520	498	512	527	517	2.6

<sup>1</sup> 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.

<sup>2</sup> The RECS cannot be used to accurately estimate the number of households that do not use electricity.

<sup>3</sup> The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.

<sup>4</sup> Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

<sup>5</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>6</sup> Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

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 CE1-3e. Total Energy Expenditures in U.S. Households by Household Income, 2001 - Preliminary Data**

	Total	2001 Household Income				Below Poverty Line	Eligible for Federal Assistance <sup>1</sup>	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	1.4	0.9	
<b>Million Households</b>								
<b>Total U.S. Households</b> .....	107.0	11.0	30.6	27.1	38.3	15.0	33.8	3.3
<b>Number of Households, Fuels Used (more than one may apply):</b>								
Electricity <sup>2</sup> .....	107.0	11.0	30.6	27.1	38.3	15.0	33.8	3.3
Natural Gas .....	66.9	6.8	18.2	16.4	25.5	9.3	20.7	4.8
Fuel Oil .....	8.7	0.6	2.2	2.5	3.4	0.8	2.4	12.7
Kerosene .....	2.9	0.4	0.8	0.9	0.8	0.7	1.2	17.0
LPG .....	9.4	0.9	2.9	2.6	3.0	1.2	3.0	12.7
Wood .....	14.5	0.4	2.5	3.6	8.0	0.7	2.3	10.1
<b>Billion Dollars</b>								
<b>Total Expenditures, Fuels Used:</b>								
Electricity .....	99.77	6.95	23.45	24.69	44.69	10.50	26.09	3.7
Natural Gas .....	46.98	3.75	11.56	11.10	20.57	5.30	13.18	6.4
Fuel Oil .....	6.31	0.32	1.45	1.70	2.84	0.42	1.60	14.2
Kerosene .....	0.53	0.11	0.19	0.13	0.09	0.16	0.29	25.8
LPG .....	5.57	0.37	1.69	1.54	1.96	0.60	1.66	16.4
Total .....	159.15	11.49	38.33	39.16	70.16	16.99	42.82	3.5
<b>Dollars per Household<sup>3</sup></b>								
<b>Total Expenditures per Household, Fuels Used:</b>								
Electricity .....	933	629	768	911	1,168	701	772	2.1
Natural Gas .....	702	555	634	677	805	571	636	3.6
Fuel Oil .....	737	578	648	693	857	570	685	6.1
Kerosene .....	180	241	236	154	115	252	232	19.0
LPG .....	602	428	587	601	670	492	552	8.2
Total .....	1,488	1,042	1,255	1,445	1,832	1,135	1,267	1.9
<b>Dollars per Million Btu<sup>3</sup></b>								
<b>Average Price of Btu Consumption, Fuels Used:</b>								
Electricity .....	25.79	25.64	25.40	25.51	26.19	25.43	25.62	1.1
Natural Gas .....	9.70	9.95	9.74	9.68	9.64	9.85	9.71	1.9
Fuel Oil .....	8.91	8.47	8.83	8.81	9.08	8.60	8.87	1.5
Kerosene .....	11.08	10.74	10.99	11.56	11.06	11.06	10.97	3.2
LPG .....	14.90	14.58	14.41	14.62	15.64	14.58	14.57	2.6
Total .....	16.17	15.95	15.92	16.16	16.36	16.08	15.88	1.2

See footnotes at end of table.

**Table CE1-3e. Total Energy Expenditures in U.S. Households  
by Household Income, 2001 - Preliminary Data (Continued)**

	2001 Household Income					Below Poverty Line	Eli-gible for Federal Assist-ance <sup>1</sup>	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	1.4	0.9	
<b>Price per Physical Unit<sup>3</sup></b>								
<b>Average Price of Physical Units of Consumption, Fuels Used:</b>								
Electricity (cents per kWh) .....	8.8	8.7	8.7	8.7	8.9	8.7	8.7	1.1
Natural Gas (dollars per thousand cf) .....	9.98	10.24	10.02	9.96	9.92	10.14	9.99	1.9
Fuel Oil (dollars per gallon) .....	1.24	1.17	1.22	1.22	1.26	1.19	1.23	1.5
Kerosene (dollars per gallon) .....	1.50	1.45	1.48	1.56	1.49	1.49	1.48	3.2
LPG (dollars per gallon) .....	1.36	1.33	1.32	1.34	1.43	1.33	1.33	2.6
<b>Million Households</b>								
<b>Number of Households, Where the End Use Is:</b>								
Space Heating <sup>4</sup> .....	105.3	10.8	30.2	26.5	37.8	14.6	33.2	3.4
Electric Air-Conditioning <sup>5</sup> .....	80.8	6.9	21.7	21.0	31.2	9.1	22.6	3.9
Water Heating <sup>6</sup> .....	106.7	11.0	30.5	27.0	38.2	14.9	33.7	3.3
Refrigerators .....	106.8	11.0	30.5	27.1	38.3	14.9	33.7	3.3
Appliances .....	107.0	11.0	30.6	27.1	38.3	15.0	33.8	3.3
<b>Billion Dollars</b>								
<b>Total Expenditures, Where the End Use Is:</b>								
Space Heating .....	49.95	3.99	13.01	12.42	20.53	5.53	14.26	4.4
Electric Air-Conditioning .....	15.92	0.88	3.25	3.71	8.08	1.33	3.36	6.1
Water Heating .....	22.10	1.71	5.53	5.67	9.19	2.63	6.37	3.5
Refrigerators .....	14.78	1.26	3.82	3.56	6.13	1.72	4.16	3.4
Other Appliances and Lighting .....	56.41	3.66	12.72	13.80	26.23	5.78	14.67	3.7
<b>Dollars per Household<sup>3</sup></b>								
<b>Total Expenditures per Household, Where the End Use Is:</b>								
Space Heating .....	474	370	431	468	543	379	429	3.3
Electric Air-Conditioning .....	197	128	150	177	259	146	149	4.3
Water Heating .....	207	155	181	210	241	177	189	1.9
Refrigerators .....	138	115	125	131	160	116	123	1.9
Other Appliances and Lighting .....	527	332	416	509	685	386	434	2.1

<sup>1</sup> Below 150 percent of poverty line or 60 percent of median State income.

<sup>2</sup> The RECS cannot be used to accurately estimate the number of households that do not use electricity.

<sup>3</sup> The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.

<sup>4</sup> Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

<sup>5</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>6</sup> Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

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 CE1-4e. Total Energy Expenditures in U.S. Households  
by Type of Housing Unit, 2001 - Preliminary Data**

	Type of Housing Unit					RSE Row Factors
	Total	Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.6	1.3	1.8	
<b>Million Households</b>						
<b>Total U.S. Households</b> .....	107.0	73.7	9.5	17.0	6.8	4.4
<b>Number of Households, Fuels Used (more than one may apply):</b>						
Electricity <sup>1</sup> .....	107.0	73.7	9.5	17.0	6.8	4.4
Natural Gas .....	66.9	48.5	6.2	9.9	2.3	6.0
Fuel Oil .....	8.7	6.4	0.6	1.4	0.2	16.8
Kerosene .....	2.9	2.2	Q	Q	0.6	16.3
LPG .....	9.4	7.6	Q	Q	1.6	14.6
Wood .....	14.5	13.2	0.4	0.3	0.6	16.2
<b>Billion Dollars</b>						
<b>Total Expenditures, Fuels Used:</b>						
Electricity .....	99.77	76.33	6.65	10.10	6.70	5.0
Natural Gas .....	46.98	38.04	4.70	2.98	1.26	8.1
Fuel Oil .....	6.31	5.32	0.54	0.37	0.08	19.0
Kerosene .....	0.53	0.31	Q	Q	0.20	27.3
LPG .....	5.57	4.68	Q	Q	0.84	17.9
Total .....	159.15	124.68	11.92	13.46	9.09	4.5
<b>Dollars per Household<sup>2</sup></b>						
<b>Total Expenditures per Household, Fuels Used:</b>						
Electricity .....	933	1,036	701	594	984	2.9
Natural Gas .....	702	785	754	300	546	4.3
Fuel Oil .....	737	840	872	263	391	6.8
Kerosene .....	180	142	Q	Q	340	18.5
LPG .....	602	627	Q	Q	524	8.1
Total .....	1,488	1,692	1,256	792	1,335	2.2
<b>Dollars per Million Btu<sup>2</sup></b>						
<b>Average Price of Btu Consumption, Fuels Used:</b>						
Electricity .....	25.79	25.49	28.72	28.74	23.07	1.3
Natural Gas .....	9.70	9.57	10.52	10.56	9.07	2.1
Fuel Oil .....	8.91	9.09	9.24	6.65	9.05	1.9
Kerosene .....	11.08	11.62	Q	Q	10.37	2.4
LPG .....	14.90	14.90	Q	Q	14.69	3.1
Total .....	16.17	15.79	16.13	19.53	17.63	1.7

See footnotes at end of table.



**Table CE1-4e. Total Energy Expenditures in U.S. Households by Type of Housing Unit, 2001 - Preliminary Data (Continued)**

	Type of Housing Unit					RSE Row Factors
	Total	Single-Family	Multifamily		Mobile Home	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.6	1.3	1.8	
<b>Price per Physical Unit<sup>2</sup></b>						
<b>Average Price of Physical Units of Consumption, Fuels Used:</b>						
Electricity (cents per kWh) .....	8.8	8.7	9.8	9.8	7.9	1.3
Natural Gas (dollars per thousand cf) .....	9.98	9.84	10.82	10.86	9.34	2.1
Fuel Oil (dollars per gallon) .....	1.24	1.26	1.28	0.92	1.25	1.9
Kerosene (dollars per gallon) .....	1.50	1.57	Q	Q	1.40	2.4
LPG (dollars per gallon) .....	1.36	1.36	Q	Q	1.34	3.1
<b>Million Households</b>						
<b>Number of Households, Where the End Use Is:</b>						
Space Heating <sup>3</sup> .....	105.3	72.8	9.4	16.3	6.8	4.5
Electric Air-Conditioning <sup>4</sup> .....	80.8	57.6	6.3	11.8	5.1	4.9
Water Heating <sup>5</sup> .....	106.7	73.5	9.5	16.9	6.8	4.4
Refrigerators .....	106.8	73.6	9.5	16.9	6.8	4.4
Appliances .....	107.0	73.7	9.5	17.0	6.8	4.4
<b>Billion Dollars</b>						
<b>Total Expenditures, Where the End Use Is:</b>						
Space Heating .....	49.95	39.97	4.74	2.65	2.59	5.2
Electric Air-Conditioning .....	15.92	12.44	0.79	1.46	1.23	8.1
Water Heating .....	22.10	16.54	1.61	2.52	1.43	4.6
Refrigerators .....	14.78	11.10	1.09	1.80	0.79	4.6
Other Appliances and Lighting .....	56.41	44.64	3.69	5.04	3.05	4.8
<b>Dollars per Household<sup>2</sup></b>						
<b>Total Expenditures per Household, Where the End Use Is:</b>						
Space Heating .....	474	549	506	162	383	3.6
Electric Air-Conditioning .....	197	216	125	124	240	5.7
Water Heating .....	207	225	170	149	210	2.4
Refrigerators .....	138	151	115	106	116	2.5
Other Appliances and Lighting .....	527	606	389	296	447	2.7

<sup>1</sup> The RECS cannot be used to accurately estimate the number of households that do not use electricity.

<sup>2</sup> The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.

<sup>3</sup> Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

<sup>4</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>5</sup> Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

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 CE1-7e. Total Energy Expenditures in U.S. Households by Four Most Populated States, 2001 - Preliminary Data**

	Total U.S.	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.1	1.0	1.6	1.5	
<b>Million Households</b>						
<b>Total U.S. Households</b> .....	107.0	7.1	12.3	7.7	6.3	NF
<b>Number of Households, Fuels Used (more than one may apply):</b>						
Electricity <sup>1</sup> .....	107.0	7.1	12.3	7.7	6.3	NF
Natural Gas .....	66.9	5.4	10.5	4.9	1.3	4.1
Fuel Oil .....	8.7	2.2	Q	Q	Q	20.4
Kerosene .....	2.9	0.2	0.3	Q	Q	25.5
LPG .....	9.4	0.5	0.7	0.3	0.4	24.0
Wood .....	14.5	0.7	2.3	1.1	0.5	17.3
<b>Billion Dollars</b>						
<b>Total Expenditures, Fuels Used:</b>						
Electricity .....	99.77	6.16	8.90	9.99	8.53	4.4
Natural Gas .....	46.98	4.51	5.09	2.43	0.51	7.8
Fuel Oil .....	6.31	1.36	Q	Q	Q	23.6
Kerosene .....	0.53	0.04	0.06	Q	Q	35.2
LPG .....	5.57	0.16	0.38	0.13	0.09	26.1
Total .....	159.15	12.23	14.46	12.55	9.13	3.5
<b>Dollars per Household<sup>2</sup></b>						
<b>Total Expenditures per Household, Fuels Used:</b>						
Electricity .....	933	870	722	1,302	1,348	4.4
Natural Gas .....	702	829	483	497	386	5.9
Fuel Oil .....	737	624	Q	Q	Q	6.0
Kerosene .....	180	219	222	Q	Q	31.2
LPG .....	602	314	560	442	278	16.8
Total .....	1,488	1,727	1,171	1,636	1,443	3.5
<b>Dollars per Million Btu<sup>2</sup></b>						
<b>Average Price of Btu Consumption, Fuels Used:</b>						
Electricity .....	25.79	42.69	35.33	25.54	26.20	2.2
Natural Gas .....	9.70	11.61	10.42	8.72	14.70	4.0
Fuel Oil .....	8.91	8.72	Q	Q	Q	1.3
Kerosene .....	11.08	9.96	10.84	Q	Q	5.6
LPG .....	14.90	19.10	17.95	14.53	23.87	8.3
Total .....	16.17	17.45	18.77	18.49	25.08	2.1

See footnotes at end of table.

**Table CE1-7e. Total Energy Expenditures in U.S. Households by Four Most Populated States, 2001 - Preliminary Data (Continued)**

	Four Most Populated States				RSE Row Factors	
	Total U.S.	New York	California	Texas		Florida
RSE Column Factor:	0.4	1.1	1.0	1.6	1.5	
<b>Price per Physical Unit<sup>2</sup></b>						
<b>Average Price of Physical Units of Consumption, Fuels Used:</b>						
Electricity (cents per kWh) .....	8.8	14.6	12.1	8.7	8.9	2.2
Natural Gas (dollars per thousand cf) .....	9.98	11.95	10.72	8.98	15.13	4.0
Fuel Oil (dollars per gallon) .....	1.24	1.21	Q	Q	Q	1.3
Kerosene (dollars per gallon) .....	1.50	1.34	1.46	Q	Q	5.7
LPG (dollars per gallon) .....	1.36	1.74	1.64	1.33	2.18	8.4
<b>Million Households</b>						
<b>Number of Households, Where the End Use Is:</b>						
Space Heating <sup>3</sup> .....	105.3	7.0	11.8	7.7	6.2	NF
Electric Air-Conditioning <sup>4</sup> .....	80.8	4.7	5.2	7.4	6.1	2.6
Water Heating <sup>5</sup> .....	106.7	7.0	12.2	7.6	6.3	NF
Refrigerators .....	106.8	7.1	12.3	7.7	6.3	NF
Appliances .....	107.0	7.1	12.3	7.7	6.3	NF
<b>Billion Dollars</b>						
<b>Total Expenditures, Where the End Use Is:</b>						
Space Heating .....	49.95	4.53	3.17	2.26	0.63	6.9
Electric Air-Conditioning .....	15.92	0.51	0.64	2.86	2.51	8.4
Water Heating .....	22.10	1.52	2.37	1.55	1.48	3.6
Refrigerators .....	14.78	1.24	1.68	1.29	0.99	3.8
Other Appliances and Lighting .....	56.41	4.44	6.60	4.60	3.51	3.5
<b>Dollars per Household<sup>2</sup></b>						
<b>Total Expenditures per Household, Where the End Use Is:</b>						
Space Heating .....	474	651	268	294	103	7.0
Electric Air-Conditioning .....	197	107	124	388	414	7.2
Water Heating .....	207	216	194	202	234	3.5
Refrigerators .....	138	176	137	168	157	3.7
Other Appliances and Lighting .....	527	627	534	600	555	3.5

<sup>1</sup> The RECS cannot be used to accurately estimate the number of households that do not use electricity.  
<sup>2</sup> The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.  
<sup>3</sup> Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.  
<sup>4</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.  
<sup>5</sup> Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.  
 NF = No applicable RSE row factor.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 2001 Residential Energy Consumption Survey.

**Table CE1-8e. Total Energy Expenditures in U.S. Households  
by Urban/Rural Location, 2001 - Preliminary Data**

	Total	Urban/Rural Location <sup>1</sup>				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.5	1.0	1.4	1.3	1.1	
<b>Million Households</b>						
<b>Total U.S. Households</b> .....	107.0	49.9	18.0	21.2	17.9	4.1
<b>Number of Households, Fuels Used (more than one may apply):</b>						
Electricity <sup>2</sup> .....	107.0	49.9	18.0	21.2	17.9	4.1
Natural Gas .....	66.9	37.4	11.2	14.4	3.9	5.5
Fuel Oil .....	8.7	2.6	2.1	1.4	2.6	13.3
Kerosene .....	2.9	0.5	0.6	0.4	1.4	20.1
LPG .....	9.4	0.9	1.6	0.8	6.1	14.9
Wood .....	14.5	3.9	2.4	3.2	5.1	9.4
<b>Billion Dollars</b>						
<b>Total Expenditures, Fuels Used:</b>						
Electricity .....	99.77	40.87	16.04	22.94	19.92	4.4
Natural Gas .....	46.98	24.34	8.32	11.38	2.94	7.2
Fuel Oil .....	6.31	1.49	1.71	1.13	1.97	14.6
Kerosene .....	0.53	0.05	0.09	0.04	0.35	31.2
LPG .....	5.57	0.39	0.98	0.48	3.72	19.2
Total .....	159.15	67.14	27.14	35.97	28.91	4.1
<b>Dollars per Household<sup>3</sup></b>						
<b>Total Expenditures per Household, Fuels Used:</b>						
Electricity .....	933	820	890	1,081	1,116	2.3
Natural Gas .....	702	651	740	792	749	3.6
Fuel Oil .....	737	574	822	833	784	5.3
Kerosene .....	180	90	156	0	243	21.8
LPG .....	602	448	638	614	614	9.8
Total .....	1,488	1,347	1,505	1,695	1,617	1.9
<b>Dollars per Million Btu<sup>3</sup></b>						
<b>Average Price of Btu Consumption, Fuels Used:</b>						
Electricity .....	25.79	27.07	25.30	26.54	23.18	1.2
Natural Gas .....	9.70	9.70	9.54	9.87	9.48	2.0
Fuel Oil .....	8.91	8.40	9.14	9.32	8.91	1.2
Kerosene .....	11.08	11.75	11.33	11.19	10.93	3.5
LPG .....	14.90	16.66	14.76	16.85	14.55	3.6
Total .....	16.17	15.90	15.35	16.56	17.22	1.3

See footnotes at end of table.

**Table CE1-8e. Total Energy Expenditures in U.S. Households  
by Urban/Rural Location, 2001 - Preliminary Data (Continued)**

	Urban/Rural Location <sup>1</sup>				RSE Row Factors	
	Total	City	Town	Suburbs		Rural
RSE Column Factor:	0.5	1.0	1.4	1.3	1.1	
<b>Price per Physical Unit<sup>3</sup></b>						
<b>Average Price of Physical Units of Consumption, Fuels Used:</b>						
Electricity (cents per kWh) .....	8.8	9.2	8.6	9.1	7.9	1.2
Natural Gas (dollars per thousand cf) .....	9.98	9.98	9.82	10.15	9.75	2.0
Fuel Oil (dollars per gallon) .....	1.24	1.16	1.27	1.29	1.23	1.2
Kerosene (dollars per gallon) .....	1.50	1.59	1.53	1.51	1.48	3.5
LPG (dollars per gallon) .....	1.36	1.52	1.35	1.54	1.33	3.6
<b>Million Households</b>						
<b>Number of Households, Where the End Use Is:</b>						
Space Heating <sup>4</sup> .....	105.3	48.9	17.9	21.1	17.3	4.2
Electric Air-Conditioning <sup>5</sup> .....	80.8	35.6	13.4	18.6	13.3	4.3
Water Heating <sup>6</sup> .....	106.7	49.7	18.0	21.2	17.8	4.2
Refrigerators .....	106.8	49.7	18.0	21.2	17.8	4.2
Appliances .....	107.0	49.9	18.0	21.2	17.9	4.1
<b>Billion Dollars</b>						
<b>Total Expenditures, Where the End Use Is:</b>						
Space Heating .....	49.95	20.62	9.52	10.50	9.31	4.9
Electric Air-Conditioning .....	15.92	6.75	2.11	4.53	2.53	6.3
Water Heating .....	22.10	9.44	3.69	4.74	4.22	4.1
Refrigerators .....	14.78	6.62	2.44	3.26	2.45	4.1
Other Appliances and Lighting .....	56.41	23.70	9.38	12.94	10.40	4.3
<b>Dollars per Household<sup>3</sup></b>						
<b>Total Expenditures per Household, Where the End Use Is:</b>						
Space Heating .....	474	421	531	497	538	3.0
Electric Air-Conditioning .....	197	190	157	244	191	4.4
Water Heating .....	207	190	205	223	238	1.9
Refrigerators .....	138	133	135	154	138	2.2
Other Appliances and Lighting .....	527	475	520	610	581	2.3

<sup>1</sup> Based on the household respondent's description rather than the Federal Government definition.

<sup>2</sup> The RECS cannot be used to accurately estimate the number of households that do not use electricity.

<sup>3</sup> The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.

<sup>4</sup> Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

<sup>5</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>6</sup> Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

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 CE1-9e. Total Energy Expenditures in U.S. Households by Northeast Census Region, 2001 - Preliminary Data**

	Northeast Census Region				RSE Row Factors
	Total U.S.	Census Division			
		Total	Middle Atlantic	New England	
	RSE Column Factor:	0.5	1.0	1.2	
<b>Million Households</b>					
<b>Total U.S. Households</b> .....	107.0	20.3	14.8	5.4	NF
<b>Number of Households, Fuels Used (more than one may apply):</b>					
Electricity <sup>1</sup> .....	107.0	20.3	14.8	5.4	NF
Natural Gas .....	66.9	12.5	10.3	2.3	7.5
Fuel Oil .....	8.7	6.6	3.9	2.7	12.4
Kerosene .....	2.9	0.7	0.4	0.0	23.6
LPG .....	9.4	1.7	1.0	0.7	16.7
Wood .....	14.5	2.3	1.3	0.9	13.1
<b>Billion Dollars</b>					
<b>Total Expenditures, Fuels Used:</b>					
Electricity .....	99.77	17.71	13.18	4.53	2.7
Natural Gas .....	46.98	11.14	8.85	2.29	11.0
Fuel Oil .....	6.31	5.13	2.66	2.46	14.2
Kerosene .....	0.53	0.22	0.14	0.00	32.1
LPG .....	5.57	0.90	0.48	0.42	20.7
Total .....	159.15	35.10	25.30	9.80	2.2
<b>Dollars per Household<sup>2</sup></b>					
<b>Total Expenditures per Household, Fuels Used:</b>					
Electricity .....	933	874	888	838	2.7
Natural Gas .....	702	889	861	1,014	5.5
Fuel Oil .....	737	785	701	903	4.2
Kerosene .....	180	323	340	299	18.6
LPG .....	602	522	483	573	15.4
Total .....	1,488	1,733	1,704	1,812	2.2
<b>Dollars per Million Btu<sup>2</sup></b>					
<b>Average Price of Btu Consumption, Fuels Used:</b>					
Electricity .....	25.79	33.99	33.68	34.92	1.9
Natural Gas .....	9.70	11.35	11.13	12.29	2.3
Fuel Oil .....	8.91	8.88	8.74	9.02	0.9
Kerosene .....	11.08	10.72	10.26	11.57	2.6
LPG .....	14.90	17.34	17.49	17.18	3.9
Total .....	16.17	16.30	16.52	15.76	1.0

See footnotes at end of table.

**Table CE1-9e. Total Energy Expenditures in U.S. Households by Northeast Census Region, 2001 - Preliminary Data (Continued)**

	Northeast Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			Middle Atlantic	New England	
			0.5	1.0	
RSE Column Factor:					
<b>Price per Physical Unit<sup>2</sup></b>					
<b>Average Price of Physical Units of Consumption, Fuels Used:</b>					
Electricity (cents per kWh) .....	8.8	11.6	11.5	11.9	1.9
Natural Gas (dollars per thousand cf) .....	9.98	11.68	11.45	12.64	2.3
Fuel Oil (dollars per gallon) .....	1.24	1.23	1.21	1.25	0.9
Kerosene (dollars per gallon) .....	1.50	1.45	1.39	1.56	2.6
LPG (dollars per gallon) .....	1.36	1.58	1.60	1.57	3.9
<b>Million Households</b>					
<b>Number of Households, Where the End Use Is:</b>					
Space Heating <sup>3</sup> .....	105.3	19.9	14.6	5.3	NF
Electric Air-Conditioning <sup>4</sup> .....	80.8	14.2	11.1	3.2	3.4
Water Heating <sup>5</sup> .....	106.7	20.2	14.8	5.4	NF
Refrigerators .....	106.8	20.2	14.8	5.4	NF
Appliances .....	107.0	20.3	14.8	5.4	NF
<b>Billion Dollars</b>					
<b>Total Expenditures, Where the End Use Is:</b>					
Space Heating .....	49.95	13.92	9.78	4.15	3.3
Electric Air-Conditioning .....	15.92	1.56	1.28	0.28	7.4
Water Heating .....	22.10	4.61	3.23	1.38	2.4
Refrigerators .....	14.78	3.17	2.38	0.79	1.9
Other Appliances and Lighting .....	56.41	11.84	8.64	3.20	3.0
<b>Dollars per Household<sup>2</sup></b>					
<b>Total Expenditures per Household, Where the End Use Is:</b>					
Space Heating .....	474	699	671	776	3.2
Electric Air-Conditioning .....	197	110	116	88	5.8
Water Heating .....	207	228	219	255	2.4
Refrigerators .....	138	157	160	147	1.8
Other Appliances and Lighting .....	527	584	582	591	3.0

<sup>1</sup> The RECS cannot be used to accurately estimate the number of households that do not use electricity.  
<sup>2</sup> The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.  
<sup>3</sup> Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.  
<sup>4</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.  
<sup>5</sup> Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.  
 NF = No applicable RSE row factor.  
 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 CE1-10e. Total Energy Expenditures in U.S. Households, by Midwest Census Region, 2001 - Preliminary Data**

	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	1.3	1.4	
<b>Million Households</b>					
<b>Total U.S. Households</b> .....	107.0	24.5	17.1	7.4	NF
<b>Number of Households, Fuels Used (more than one may apply):</b>					
Electricity <sup>1</sup> .....	107.0	24.5	17.1	7.4	NF
Natural Gas .....	66.9	19.4	14.2	5.2	3.9
Fuel Oil .....	8.7	0.9	0.5	0.4	15.2
Kerosene .....	2.9	0.5	0.4	Q	14.0
LPG .....	9.4	2.3	1.1	1.2	22.0
Wood .....	14.5	2.5	1.4	1.1	13.1
<b>Billion Dollars</b>					
<b>Total Expenditures, Fuels Used:</b>					
Electricity .....	99.77	19.70	13.37	6.33	2.5
Natural Gas .....	46.98	15.56	11.49	4.07	5.4
Fuel Oil .....	6.31	0.53	0.28	0.25	19.6
Kerosene .....	0.53	0.04	Q	Q	34.7
LPG .....	5.57	1.85	0.89	0.95	23.0
Total .....	159.15	37.68	26.06	11.62	2.1
<b>Dollars per Household<sup>2</sup></b>					
<b>Total Expenditures per Household, Fuels Used:</b>					
Electricity .....	933	804	782	856	2.5
Natural Gas .....	702	803	811	779	3.5
Fuel Oil .....	737	597	548	663	12.0
Kerosene .....	180	88	Q	Q	29.3
LPG .....	602	809	827	792	5.8
Total .....	1,488	1,539	1,525	1,570	2.1
<b>Dollars per Million Btu<sup>2</sup></b>					
<b>Average Price of Btu Consumption, Fuels Used:</b>					
Electricity .....	25.79	24.27	25.11	22.67	1.9
Natural Gas .....	9.70	8.48	8.26	9.16	2.1
Fuel Oil .....	8.91	8.73	8.66	8.80	1.8
Kerosene .....	11.08	13.58	13.04	Q	3.4
LPG .....	14.90	12.73	13.22	12.29	2.5
Total .....	16.17	13.19	12.86	13.99	2.0

See footnotes at end of table.



**Table CE1-10e. Total Energy Expenditures in U.S. Households, by Midwest Census Region, 2001 - Preliminary Data (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	1.3	1.4	
<b>Price per Physical Unit<sup>2</sup></b>					
<b>Average Price of Physical Units of Consumption, Fuels Used:</b>					
Electricity (cents per kWh) .....	8.8	8.3	8.6	7.7	1.9
Natural Gas (dollars per thousand cf) .....	9.98	8.72	8.50	9.43	2.1
Fuel Oil (dollars per gallon) .....	1.24	1.21	1.20	1.22	1.8
Kerosene (dollars per gallon) .....	1.50	1.83	1.76	Q	3.4
LPG (dollars per gallon) .....	1.36	1.16	1.21	1.12	2.5
<b>Million Households</b>					
<b>Number of Households, Where the End Use Is:</b>					
Space Heating <sup>3</sup> .....	105.3	24.4	17.0	7.3	NF
Electric Air-Conditioning <sup>4</sup> .....	80.8	20.2	13.4	6.7	2.3
Water Heating <sup>5</sup> .....	106.7	24.5	17.1	7.4	NF
Refrigerators .....	106.8	24.5	17.1	7.4	NF
Appliances .....	107.0	24.5	17.1	7.4	NF
<b>Billion Dollars</b>					
<b>Total Expenditures, Where the End Use Is:</b>					
Space Heating .....	49.95	14.99	10.44	4.55	3.0
Electric Air-Conditioning .....	15.92	2.52	1.59	0.93	5.2
Water Heating .....	22.10	4.56	3.06	1.49	2.4
Refrigerators .....	14.78	3.17	2.22	0.95	2.1
Other Appliances and Lighting .....	56.41	12.45	8.76	3.69	2.3
<b>Dollars per Household<sup>2</sup></b>					
<b>Total Expenditures per Household, Where the End Use Is:</b>					
Space Heating .....	474	615	613	620	3.0
Electric Air-Conditioning .....	197	125	118	138	4.8
Water Heating .....	207	186	179	202	2.4
Refrigerators .....	138	129	130	129	2.1
Other Appliances and Lighting .....	527	508	513	498	2.3

<sup>1</sup> The RECS cannot be used to accurately estimate the number of households that do not use electricity.  
<sup>2</sup> The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.  
<sup>3</sup> Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.  
<sup>4</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.  
<sup>5</sup> Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.  
 NF = No applicable RSE row factor.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 2001 Residential Energy Consumption Survey.

**Table CE1-11e. Total Energy Expenditures in U.S. Households  
by South Census Region, 2001 - Preliminary Data**

	South Census Region					RSE Row Factors
	Total U.S.	Census Division				
		Total	South Atlantic	East South Central	West south Central	
RSE Column Factor:	0.5	0.9	1.1	1.4	1.7	
<b>Million Households</b>						
<b>Total U.S. Households</b> .....	107.0	38.9	20.3	6.8	11.8	NF
<b>Number of Households, Fuels Used (more than one may apply):</b>						
Electricity <sup>1</sup> .....	107.0	38.9	20.3	6.8	11.8	NF
Natural Gas .....	66.9	18.7	8.0	2.9	7.8	7.0
Fuel Oil .....	8.7	0.9	0.9	Q	Q	30.5
Kerosene .....	2.9	1.4	1.0	0.3	Q	19.9
LPG .....	9.4	3.8	2.1	1.3	0.5	16.6
Wood .....	14.5	5.2	2.8	0.9	1.5	11.2
<b>Billion Dollars</b>						
<b>Total Expenditures, Fuels Used:</b>						
Electricity .....	99.77	44.71	23.33	6.99	14.39	3.3
Natural Gas .....	46.98	11.84	5.74	1.77	4.33	9.5
Fuel Oil .....	6.31	0.55	0.53	Q	Q	34.2
Kerosene .....	0.53	0.19	0.14	0.06	Q	33.8
LPG .....	5.57	1.92	1.04	0.63	0.26	21.4
Total .....	159.15	59.22	30.77	9.47	18.98	2.8
<b>Dollars per Household<sup>2</sup></b>						
<b>Total Expenditures per Household, Fuels Used:</b>						
Electricity .....	933	1,149	1,150	1,026	1,219	3.4
Natural Gas .....	702	635	720	606	559	6.0
Fuel Oil .....	737	598	629	Q	Q	15.1
Kerosene .....	180	139	143	163	Q	23.4
LPG .....	602	512	512	500	541	10.1
Total .....	1,488	1,521	1,515	1,388	1,608	2.8
<b>Dollars per Million Btu<sup>2</sup></b>						
<b>Average Price of Btu Consumption, Fuels Used:</b>						
Electricity .....	25.79	23.80	24.70	19.41	25.08	1.8
Natural Gas .....	9.70	10.50	11.72	9.82	9.46	4.2
Fuel Oil .....	8.91	9.48	9.54	Q	Q	5.6
Kerosene .....	11.08	11.11	10.99	11.37	Q	2.6
LPG .....	14.90	16.31	17.71	15.10	14.52	3.2
Total .....	16.17	18.50	19.72	16.06	18.08	2.8

See footnotes at end of table.

**Table CE1-11e. Total Energy Expenditures in U.S. Households  
by South Census Region, 2001 - Preliminary Data (Continued)**

	South Census Region					RSE Row Factors
	Total U.S.	Census Division			West south Central	
		Total	South Atlantic	East South Central		
RSE Column Factor:	0.5	0.9	1.1	1.4	1.7	
<b>Price per Physical Unit<sup>2</sup></b>						
<b>Average Price of Physical Units of Consumption, Fuels Used:</b>						
Electricity (cents per kWh) .....	8.8	8.1	8.4	6.6	8.6	1.8
Natural Gas (dollars per thousand cf) .....	9.98	10.80	12.06	10.11	9.73	4.2
Fuel Oil (dollars per gallon) .....	1.24	1.31	1.32	Q	Q	5.6
Kerosene (dollars per gallon) .....	1.50	1.50	1.48	1.53	Q	2.6
LPG (dollars per gallon) .....	1.36	1.49	1.62	1.38	1.33	3.2
<b>Million Households</b>						
<b>Number of Households, Where the End Use Is:</b>						
Space Heating <sup>3</sup> .....	105.3	38.7	20.0	6.8	11.8	NF
Electric Air-Conditioning <sup>4</sup> .....	80.8	36.9	19.0	6.4	11.5	1.6
Water Heating <sup>5</sup> .....	106.7	38.9	20.3	6.8	11.8	NF
Refrigerators .....	106.8	38.9	20.3	6.8	11.8	NF
Appliances .....	107.0	38.9	20.3	6.8	11.8	NF
<b>Billion Dollars</b>						
<b>Total Expenditures, Where the End Use Is:</b>						
Space Heating .....	49.95	13.92	7.20	2.86	3.87	5.8
Electric Air-Conditioning .....	15.92	10.35	5.06	1.28	4.01	4.2
Water Heating .....	22.10	8.59	4.78	1.36	2.46	2.8
Refrigerators .....	14.78	5.50	2.80	0.81	1.89	3.5
Other Appliances and Lighting .....	56.41	20.85	10.93	3.17	6.76	2.6
<b>Dollars per Household<sup>2</sup></b>						
<b>Total Expenditures per Household, Where the End Use Is:</b>						
Space Heating .....	474	360	359	419	328	5.8
Electric Air-Conditioning .....	197	281	266	200	350	3.5
Water Heating .....	207	221	236	199	209	2.8
Refrigerators .....	138	141	138	118	160	3.5
Other Appliances and Lighting .....	527	536	538	465	573	2.6

<sup>1</sup> The RECS cannot be used to accurately estimate the number of households that do not use electricity.

<sup>2</sup> The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.

<sup>3</sup> Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

<sup>4</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

<sup>5</sup> Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report.

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

**Table CE1-12e. Total Energy Expenditures in U.S. Households  
by West Census Region, 2001 - Preliminary Data**

	West Census Region				RSE Row Factors
	Total U.S.	Census Division			
		Total	Mountain	Pacific	
RSE Column Factor:	0.5	1.1	1.7	1.2	
<b>Million Households</b>					
<b>Total U.S. Households</b> .....	107.0	23.3	6.7	16.6	NF
<b>Number of Households, Fuels Used (more than one may apply):</b>					
Electricity <sup>1</sup> .....	107.0	23.3	6.7	16.6	NF
Natural Gas .....	66.9	16.3	4.7	11.6	2.6
Fuel Oil .....	8.7	0.2	Q	0.2	24.9
Kerosene .....	2.9	0.4	Q	0.3	18.3
LPG .....	9.4	1.5	0.5	1.0	17.4
Wood .....	14.5	4.6	1.0	3.5	10.4
<b>Billion Dollars</b>					
<b>Total Expenditures, Fuels Used:</b>					
Electricity .....	99.77	17.65	5.36	12.29	2.8
Natural Gas .....	46.98	8.43	2.64	5.78	5.1
Fuel Oil .....	6.31	0.10	Q	0.09	32.9
Kerosene .....	0.53	0.07	Q	0.07	36.9
LPG .....	5.57	0.90	0.41	0.50	21.5
Total .....	159.15	27.16	8.43	18.73	2.9
<b>Dollars per Household<sup>2</sup></b>					
<b>Total Expenditures per Household, Fuels Used:</b>					
Electricity .....	933	758	797	742	2.8
Natural Gas .....	702	516	558	499	4.5
Fuel Oil .....	737	473	Q	465	14.9
Kerosene .....	180	184	Q	195	29.8
LPG .....	602	607	762	520	9.3
Total .....	1,488	1,165	1,253	1,129	2.9
<b>Dollars per Million Btu<sup>2</sup></b>					
<b>Average Price of Btu Consumption, Fuels Used:</b>					
Electricity .....	25.79	26.90	23.72	28.57	2.0
Natural Gas .....	9.70	9.38	8.10	10.11	2.5
Fuel Oil .....	8.91	8.96	Q	9.14	2.2
Kerosene .....	11.08	11.01	Q	11.01	1.9
LPG .....	14.90	15.25	13.16	17.52	4.2
Total .....	16.17	16.64	14.41	17.89	1.5

See footnotes at end of table.

**Table CE1-12e. Total Energy Expenditures in U.S. Households  
by West Census Region, 2001 - Preliminary Data (Continued)**

	West Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.1	1.7	1.2	
<b>Price per Physical Unit<sup>2</sup></b>					
<b>Average Price of Physical Units of Consumption, Fuels Used:</b>					
Electricity (cents per kWh) .....	8.8	9.2	8.1	9.7	2.0
Natural Gas (dollars per thousand cf) .....	9.98	9.65	8.34	10.40	2.5
Fuel Oil (dollars per gallon) .....	1.24	1.24	Q	1.27	2.2
Kerosene (dollars per gallon) .....	1.50	1.49	Q	1.49	1.9
LPG (dollars per gallon) .....	1.36	1.39	1.20	1.60	4.2
<b>Million Households</b>					
<b>Number of Households, Where the End Use Is:</b>					
Space Heating <sup>3</sup> .....	105.3	22.4	6.7	15.7	NF
Electric Air-Conditioning <sup>4</sup> .....	80.8	9.6	3.2	6.3	7.2
Water Heating <sup>5</sup> .....	106.7	23.2	6.7	16.5	NF
Refrigerators .....	106.8	23.2	6.7	16.5	NF
Appliances .....	107.0	23.3	6.7	16.6	NF
<b>Billion Dollars</b>					
<b>Total Expenditures, Where the End Use Is:</b>					
Space Heating .....	49.95	7.12	2.55	4.56	4.6
Electric Air-Conditioning .....	15.92	1.49	0.77	0.73	9.6
Water Heating .....	22.10	4.33	1.22	3.12	2.9
Refrigerators .....	14.78	2.94	0.82	2.12	3.0
Other Appliances and Lighting .....	56.41	11.27	3.07	8.20	3.4
<b>Dollars per Household<sup>2</sup></b>					
<b>Total Expenditures per Household, Where the End Use Is:</b>					
Space Heating .....	474	318	382	291	4.7
Electric Air-Conditioning .....	197	156	239	114	7.9
Water Heating .....	207	187	182	189	2.8
Refrigerators .....	138	127	123	128	3.0
Other Appliances and Lighting .....	527	483	456	495	3.4

<sup>1</sup> The RECS cannot be used to accurately estimate the number of households that do not use electricity.  
<sup>2</sup> The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.  
<sup>3</sup> Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.  
<sup>4</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.  
<sup>5</sup> Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.  
 NF = No applicable RSE row factor.  
 Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.  
 Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 2001 Residential Energy Consumption Survey.