Residential Energy Consumption Surveys

2001 Consumption and Expenditures Tables

Total Expenditures Tables

(20 pages, 93 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 CE1-1e. Total Energy Expenditures in U.S. Households by Climate Zone, 2001

by Cili	mate Zoi	116, 2001					
				Climate Zone ¹			
			Fewer than 2,	000 CDD and		2,000 CDD	
	Total	More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD	or More and Fewer than 4,000 HDD	
RSE Column Factor:	0.4	1.7	1.1	1.1	1.2	1.1	RSE Row Factors
			M	lillion Households	5		
Total U.S. Households	107.0	9.2	28.6	24.0	21.0	24.1	7.9
Number of Households, Fuels Used (more than one may apply):							
Electricity ²		9.2	28.6	24.0	21.0	24.1	7.9
Natural Gas		4.9	21.2	14.9	13.8	12.1	8.6
Fuel Oil Kerosene		1.8 0.4	2.9 0.7	3.7 0.7	Q 0.8	Q 0.3	16.9 21.6
LPG		1.6	2.2	1.9	2.1	1.5	20.9
Wood		2.0	3.1	2.9	3.4	3.0	13.1
				Billion Dollars			
Total Expenditures, Fuels Used:							
Electricity	100.34	7.31	22.84	21.54	19.40	29.24	7.3
Natural Gas		3.58	18.14	11.21	8.13	5.92	10.4
Fuel Oil		1.51	2.38	2.32	Q	Q	19.4
Kerosene		0.11	0.12	0.13	0.14	Q 0.75	32.6
LPG Total		0.93 13.45	1.65 45.13	1.19 36.39	1.07 28.83	0.75 35.95	23.7 7.0
Total	139.74	13.40		lars per Househo		33.93	7.0
				·			
Total Expenditures per Household, Fuels Used:							
Electricity	938	791	797	897	924	1,215	2.9
Natural Gas		728	856	751	588	490	4.1
Fuel Oil		821	836	634	Q	Q	6.4
Kerosene		270	188	173	170	Q	22.0
LPG		602	741	613	506	494	9.8
Total	1,493	1,454	1,576	1,514	1,373	1,493	2.6
			Dol	lars per Million B	tu ³		
Average Price of Btu Consumption, Fuels Used:							
Electricity	25.80	23.92	25.88	25.42	26.77	25.90	2.6
Natural Gas		8.37	9.10	10.32	11.07	9.80	2.5
Fuel Oil		8.96	9.00	8.79	Q	Q	1.7
Kerosene		10.90	11.11	11.55	11.01	10.10	4.1
LPG		13.40	14.15	14.87	16.56	16.62	4.3
Total	16.19	13.70	13.81	15.90	18.65	20.18	1.7

Table CE1-1e. Total Energy Expenditures in U.S. Households by Climate Zone, 2001 (Continued)

				Climate Zone ¹			
			Fewer than 2,	000 CDD and		2,000 CDD or More	
	Total	More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD	and Fewer than 4,000 HDD	
RSE Column Factor:	0.4	1.7	1.1	1.1	1.2	1.1	RSE Row Factors
-	<u>'</u>		Pric	e per Physical Ur	nit ³	1	
Average Price of Physical Units of							
Consumption, Fuels Used: Electricity (cents per kWh)	8.8 9.98 1.24 1.50 1.36	8.2 8.61 1.24 1.47 1.22	8.8 9.37 1.25 1.50 1.29	8.7 10.62 1.22 1.56 1.36	9.1 11.39 Q 1.49 1.51	8.8 10.08 Q 1.36 1.52	2.6 2.5 1.7 4.2 4.3
_			М	illion Households	3		
Number of Households, Where the End Use Is: Space Heating ⁴ Electric Air-Conditioning ⁵ Water Heating ⁶ Refrigerators Appliances	105.3 80.8 106.7 106.8 107.0	9.1 5.3 9.2 9.2 9.2	28.5 20.5 28.6 28.6 28.6	23.7 19.9 24.0 24.0 24.0	20.4 13.4 20.9 20.9 21.0	23.5 21.8 24.0 24.1 24.1	8.0 8.2 7.9 7.9 7.9
-				Billion Dollarsa			
Total Expenditures, Where the End		- 40	40.00				
Space Heating Electric Air-Conditioning Water Heating Refrigerators Other Appliances and Lighting	50.53 15.94 21.61 14.38 57.28	5.42 0.45 1.79 1.06 4.71	18.68 2.19 5.62 3.50 15.14	13.11 2.85 4.79 3.09 12.55	7.53 2.68 4.39 2.78 11.45	5.78 7.78 5.02 3.94 13.43	8.5 9.7 7.0 6.9 6.9
-			Dolla	ars per Househol	d 3,a		
Total Expenditures per Household, Where the End Use Is:							
Space Heating Electric Air-Conditioning Water Heating Refrigerators	480 197 203 135	595 86 196 115	656 107 196 122	553 143 200 129	368 200 210 133	246 357 209 164	4.0 4.7 2.6 2.8

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

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

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

³ 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.

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

⁵ 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.

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

^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.

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

				Year of Co	enstruction			
	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	1.6	1.1	1.0	1.2	1.1	0.9	RSE Row Factors
				Million Hou	seholds			
Total U.S. Households	107.0	15.5	18.2	18.8	13.8	14.2	26.6	4.3
Number of Households, Fuels Used (more								
than one may apply):								
Electricity ²	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
				Billion Do	ollars			
Total Expenditures, Fuels Used:								
Electricity		16.90	19.37	18.99	12.09	12.34	20.65	4.6
Natural Gas		6.54	5.53	5.28	6.00	7.15	16.47	7.3
Fuel Oil		0.21	0.40	0.61	0.77	1.29	3.04	18.0
Kerosene		0.10	0.05	0.18	Q	0.04	0.11	31.9
LPG		0.84	0.88	0.97	0.57	0.43	1.91	16.7
Total	159.74	24.59	26.22	26.03	19.48	21.25	42.18	4.4
				Pollars per Ho	ousehold ³			
Total Expenditures per Household, Fuels Used:								
Electricity		1,093	1,062	1,012	878	871	778	2.8
Natural Gas		699	630	587	633	692	825	3.8
Fuel Oil		750	813	736	600	721	780	7.3
Kerosene		232	145	251	Q	134	138	25.8
LPG		618	576	560	524	450	740	9.2
Total	1,493	1,591	1,438	1,388	1,414	1,500	1,586	2.3
				Dollars per M	illion Btu ³			
Average Price of Btu Consumption, Fuels								
Used:	05.00	04.00	04.04	04.70	00.04	00.70	07.04	
Electricity		24.98	24.84	24.79	26.84	26.78	27.34	1.4
Natural Gas Fuel Oil		9.86	9.76	9.32	9.81	9.49	9.79	2.2
Kerosene		8.78	8.89 10.74	8.99	8.79	8.98	8.92	1.9
LPG		10.91 14.87	15.50	10.79 14.80	10.72 14.83	11.78 16.57	11.91 14.33	4.2 3.6
Total		17.20	18.05	17.56	16.34	15.32	14.33	1.4
	10.10	17.20	10.00		10.04	10.02		1.4

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

				Year of Co	nstruction			
	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	1.6	1.1	1.0	1.2	1.1	0.9	RSE Row Factors
-			Pı	rice per Phys	sical Unit ³			
Average Price of Physical Units of								
Consumption, Fuels Used:								
Electricity (cents per kWh)	8.8	8.5	8.5	8.5	9.2	9.1	9.3	1.4
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	4.2
LPG (dollars per gallon)	1.36	1.36	1.42	1.35	1.36	1.51	1.31	3.6
				Million Hous	seholds			
Number of Households, Where the End Use Is:								
Space Heating ⁴	105.3	15.4	18.1	18.5	13.4	13.8	26.2	4.3
Electric Air-Conditioning ⁵	80.8	13.4	15.8	14.2	10.1	10.2	17.1	4.7
Water Heating ⁶	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
				Billion Do	llarsa			
Total Expenditures, Where the End Use								
Is:	50.53	6.23	6.66	7.22	6.03	7.00	17.38	5.1
Space Heating Electric Air-Conditioning	50.53 15.94	6.23 3.33	3.56	7.22 3.17	6.03 1.84	7.00 1.75	2.30	7.2
Water Heating	21.61	3.47	3.86	3.68	2.59	2.84	5.18	4.4
Refrigerators	14.38	2.01	2.47	2.54	1.88	2.01	3.48	4.6
Other Appliances and Lighting	57.28	9.55	9.67	9.42	7.14	7.65	13.84	4.6
	01.20	0.00				1.00	10.01	1.0
-			Do	ollars per Ho	usehold ^{3,a}			<u> </u>
Total Expenditures per Household, Where the End Use Is:								
Space Heating	480	405	368	391	449	508	664	3.2
Electric Air-Conditioning	197	249	225	224	181	172	134	5.4
Water Heating	203	225	212	196	189	200	196	2.3
Refrigerators	135	130	136	135	136	142	131	2.8
Other Appliances and Lighting	535	618	530	502	518	540	520	2.7

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

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

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

³ 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.

Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

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.

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

^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.

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

By Housel		TITC, 200	•			T T		1
			2001 House	hold Income			Eli- gible for	
	Total	Less than \$10,000	\$10,000 to \$29,999	\$30,000 to \$49,999	\$50,000 or More	Below Poverty Line	Fed- eral Assist- ance ¹	
RSE Column Factor:	0.6	1.6	0.9	1.0	0.9	1.4	0.9	RSE Row Factors
				Million H	ouseholds			
Total U.S. Households	107.0	11.0	30.6	27.1	38.3	15.0	33.8	3.3
Number of Households, Fuels Used (more								
than one may apply): Electricity ²	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	36.3 25.5	9.3	33.6 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
-				Billion	Dollars			1
-								
Total Expenditures, Fuels Used:	400.04	0.00	00.57	04.07	44.07	40.57	00.04	0.7
Electricity Natural Gas	100.34 46.98	6.93 3.75	23.57 11.56	24.97 11.10	44.87 20.57	10.57 5.30	26.21 13.18	3.7 6.4
Fuel Oil	6.31	0.32	1.45	1.70	20.57	0.42	1.60	14.2
Kerosene	0.52	0.11	0.19	0.13	0.09	0.16	0.28	26.0
LPG	5.60	0.37	1.73	1.56	1.94	0.59	1.67	16.6
Total	159.74	11.47	38.49	39.46	70.32	17.04	42.94	3.5
_				Dollars per	Househole	d ³		
Total Expenditures per Household, Fuels Used:								
Electricity	938	628	772	922	1,172	706	776	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	178	235	232	154	115	248	228	19.7
LPG	605	422	601	608	662	478	554	8.7
Total	1,493	1,039	1,260	1,456	1,836	1,138	1,270	1.9
_				Dollars per	Million Bto	u ³		
Average Price of Btu Consumption, Fuels Used:								
Electricity	25.80	25.59	25.38	25.61	26.16	25.38	25.62	1.2
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	11.09	10.74	10.99	11.56	11.06	11.06	10.98	3.3
LPGTotal	14.87 16.19	14.59 15.93	14.38 15.93	14.62 16.22	15.62 16.37	14.60 16.10	14.58 15.90	2.6 1.2
	10.10		10.00	10.22	10.01	10.10	10.00	1.2

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

			2001 House	hold Income	T		Eli- gible for	
	Total	Less than \$10,000	\$10,000 to \$29,999	\$30,000 to \$49,999	\$50,000 or More	Below Poverty Line	Fed- eral Assist- ance ¹	
RSE Column Factor:	0.6	0.6 1.6	0.9	1.0	0.9	1.4	0.9	RSE Row Factors
			1	Price per P	hysical Uni	it ³		
Average Price of Physical Units of								
Consumption, Fuels Used: Electricity (cents per kWh) Natural Gas (dollars per thousand cf) Fuel Oil (dollars per gallon) Kerosene (dollars per gallon) LPG (dollars per gallon)	8.8 9.98 1.24 1.50 1.36	8.7 10.24 1.17 1.45 1.33	8.7 10.02 1.22 1.48 1.31	8.7 9.96 1.22 1.56 1.34	8.9 9.92 1.26 1.49 1.43	8.7 10.14 1.19 1.49 1.33	8.7 9.99 1.23 1.48 1.33	1.2 1.9 1.5 3.3 2.6
	1.00	1.00	1.01		ouseholds	1.50	1.00	2.0
Number of Households, Where the End								
Use Is: Space Heating ⁴ Electric Air-Conditioning ⁵ Water Heating ⁶ Refrigerators Appliances	105.3 80.8 106.7 106.8 107.0	10.8 6.9 11.0 11.0 11.0	30.2 21.7 30.5 30.5 30.6	26.5 21.0 27.0 27.1 27.1	37.8 31.2 38.2 38.3 38.3	14.6 9.1 14.9 14.9 15.0	33.2 22.6 33.7 33.7 33.8	3.4 3.9 3.3 3.3 3.3
_				Billion	Dollarsa			
Total Expenditures, Where the End Use ls:								
Space Heating Electric Air-Conditioning Water Heating Refrigerators Other Appliances and Lighting	50.53 15.94 21.61 14.38 57.28	4.10 0.88 1.63 1.23 3.62	13.29 3.22 5.41 3.74 12.83	12.58 3.82 5.52 3.50 14.05	20.55 8.02 9.05 5.92 26.78	5.66 1.32 2.54 1.68 5.84	14.58 3.31 6.20 4.07 14.79	4.3 5.9 3.5 3.5 3.7
-			I	Dollars per	Household	3,a		1
Total Expenditures per Household, Where the End Use Is:								
Space Heating	480 197 203 135 535	380 129 149 112 328	441 148 177 123 420	474 182 204 129 518	543 257 237 155 699	388 145 170 113 390	439 147 184 121 437	3.2 4.1 1.9 2.0 2.2

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

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

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

³ 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.

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

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.

if the fuel was electricity.

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

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.

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

			Type of Ho	ousing Unit		
			Apartments in	Buildings With		
	Total	Single-Family	Two to Four Units	Five or More Units	Mobile Homes	
RSE Column Factor:	0.5	0.6	1.6	1.3	1.8	RSE Row Factors
_			Million Hous	eholds		
Total U.S. Households	107.0	73.7	9.5	17.0	6.8	4.4
Number of Households, Fuels Used (more than one may apply):						
Electricity ¹	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	16.1
LPG	9.4	7.6	Q	Q	1.6	14.5
Wood	14.5	13.2	0.4	0.3	0.6	16.2
_			Billion Do	llars		
Total Expenditures, Fuels Used:						
Electricity	100.34	76.69	6.68	10.29	6.68	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	0.52	0.31	Q	Q	0.20	27.2
LPG	5.60	4.67	Q	Q	0.87	17.9
Total	159.74	125.02	11.97	13.66	9.09	4.4
_			Dollars per Ho	usehold ²		
Total Expenditures per Household, Fuels						
Used:	020	1.044	704	COF	004	
Electricity	938	1,041	704 754	605	981 546	2.9
Natural GasFuel Oil	702 737	785 840	754 872	300 263	546 391	4.3 6.8
Kerosene	178	139	0/2 Q	263 Q	340	18.4
LPG	605	626	Q	Q	542	8.2
Total	1,493	1,697	1,261	803	1,336	2.1
_	,	,	Dollars per Mil		,	
_						
Average Price of Btu Consumption, Fuels Used:	05.00	25.50	20.75	20.00	22.05	
Electricity	25.80	25.50	28.75	28.60	23.05	1.4
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 LPG	11.09 14.87	11.65 14.89	Q Q	Q Q	10.36 14.64	2.5
-	16.19	15.81	16.15	19.57	17.59	1.7
Total	פו מו			1957		

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

			Type of Ho	ousing Unit				
			Apartments in	Buildings With				
	Total	Single-Family	Two to Four Units	Five or More Units	Mobile Homes			
RSE Column Factor:	0.5	0.6	1.6	1.3	1.8	RSE Row Factors		
_		1	Price per Phys	ical Unit ²				
Average Price of Physical Units of								
Consumption, Fuels Used: Electricity (cents per kWh) Natural Gas (dollars per thousand cf) Fuel Oil (dollars per gallon) Kerosene (dollars per gallon)	8.8 9.98 1.24 1.50	8.7 9.84 1.26 1.57	9.8 10.82 1.28 Q	9.8 10.86 0.92 Q	7.9 9.34 1.25 1.40	1.4 2.1 1.9 2.5		
LPG (dollars per gallon)	1.36	1.36	Q	Q	1.34	3.1		
_			Million Hous	eholds				
Number of Households, Where the End Use Is:								
Space Heating ³	105.3	72.8	9.4	16.3	6.8	4.5		
Electric Air-Conditioning ⁴	80.8	57.6	6.3	11.8	5.1	4.9		
Water Heating ⁵	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		
_			Billion Dol	lars ^a				
Total Expenditures, Where the End Use								
Is:								
Space Heating	50.53	39.80	4.73	3.33	2.66	5.1		
Electric Air-Conditioning	15.94	12.70	0.85	1.51	0.88	8.0		
Water Heating	21.61	16.27	1.57	2.33	1.44	4.6		
Refrigerators	14.38	10.82	1.07	1.65	0.85	4.6		
Other Appliances and Lighting	57.28	45.42	3.75	4.84	3.27	4.8		
_	Dollars per Household ^{2,a}							
_								
Total Expenditures per Household, Where the End Use Is:								
Space Heating	480	546	505	204	393	3.5		
Electric Air-Conditioning	197	221	135	128	171	5.7		
Water Heating	203	221	165	138	212	2.4		
Refrigerators	135	147	113	98	124	2.5		
Other Appliances and Lighting	535	616	395	284	480	2.7		

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

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.

3 Households where the main or se

Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

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.

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

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

			Four Most Por	nulated States					
			rour wost rop	Julateu States	T				
	Total U.S.	New York	California	Texas	Florida	D05			
RSE Column Factor:	0.4	1.2	0.9	1.6	1.5	RSE Row Factors			
			Million House	eholds					
Total U.S. Households	107.0	7.1	12.3	7.7	6.3	NE			
Number of Households, Fuels Used (more than one may apply):									
Electricity ¹	107.0	7.1	12.3	7.7	6.3	NE			
Natural Gas	66.9	5.4	10.5	4.9	1.3	4.1			
Fuel Oil	8.7	2.2	Q	Q	Q	19.9			
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			
-	Billion Dollars								
Total Expenditures, Fuels Used:									
Electricity	100.34	6.16	8.86	9.97	8.63	4.5			
Natural Gas	46.98	4.51	5.09	2.43	0.51	7.8			
Fuel Oil	6.31	1.36	Q	Q	Q	23.0			
Kerosene	0.52	0.04	0.06	ã	Q	35.4			
LPG	5.60	0.16	0.38	0.13	0.09	25.0			
Total	159.74	12.23	14.42	12.53	9.23	3.6			
- -	Dollars per Household ²								
-			<u> </u>						
Total Expenditures per Household, Fuels Used:									
Electricity	938	870	719	1,300	1,364	4.5			
Natural Gas	702	829	483	497	386	5.9			
Fuel Oil	737	624	Q	Q	Q	5.8			
Kerosene	178	222	222	Q	Q	30.8			
LPG	605	321	549	447	262	15.5			
Total	1,493	1,727	1,168	1,634	1,458	3.6			
-			Dollars per Mill	ion Btu²					
- 									
Average Price of Btu Consumption, Fuels Used:									
Electricity	25.80	42.67	35.37	25.50	26.21	2.3			
Natural Gas	9.70	11.61	10.42	8.72	14.70	4.0			
Fuel Oil	9.70 8.91	8.72	Q	0.72 Q	Q	1.3			
Kerosene	11.09	9.96	10.85	Q	Q	5.6			
LPG	14.87	19.07	17.88	14.57	24.23	7.7			
Total	16.19	17.44	18.76	18.47	25.11	1.8			
_	10.10		10.70	10.71	20.11	1.0			

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

			(00111111111111111111111111111111111111			
			Four Most Pop	oulated States		
	Total U.S.	New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.2	0.9	1.6	1.5	RSE Row Factors
			Price per Physi	cal Unit ²		
Average Dries of Dhysical Units of						
Average Price of Physical Units of Consumption, Fuels Used: Electricity (cents per kWh)	8.8 9.98 1.24 1.50 1.36	14.6 11.95 1.21 1.35 1.74	12.1 10.72 Q 1.46 1.63	8.7 8.98 Q Q 1.33	8.9 15.13 Q Q 2.21	2.3 4.0 1.3 5.6 7.7
- -			Million House	eholds		
Number of Households, Where the End Use Is: Space Heating ³ Electric Air-Conditioning ⁴ Water Heating ⁵ Refrigerators Appliances	105.3 80.8 106.7 106.8 107.0	7.0 4.7 7.0 7.1 7.1	11.8 5.2 12.2 12.3 12.3	7.7 7.4 7.6 7.7 7.7	6.2 6.1 6.3 6.3 6.3	NE 2.6 NE NE NE
_			Billion Doll	arsa		
Total Expenditures, Where the End Use Is: Space Heating	50.53 15.94 21.61 14.38 57.28	4.57 0.51 1.51 1.18 4.46	3.24 0.64 2.32 1.53 6.69	2.32 2.83 1.49 1.31 4.58	0.64 2.64 1.39 1.05 3.51	6.7 8.3 3.5 4.1 3.5
_			Dollars per Hou	sehold ^{2,a}		
Total Expenditures per Household, Where the End Use Is: Space Heating	480	658	274	302	103	6.8
Electric Air-Conditioning	197 203 135 535	109 214 167 630	125 190 125 542	384 196 171 597	436 220 166 554	6.8 3.4 4.0 3.5

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

² 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.

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

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.

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

^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 CE1-8e. Total Energy Expenditures in U.S. Households by Urban/Rural Location, 2001

29 0.24.11	Tarar Eoc	T T T T T T T T T T T T T T T T T T T	-						
			Urban/Ru	ral Location ¹					
	Total	City	Town	Suburbs	Rural				
RSE Column Factor:	0.5	1.0	1.4	1.3	1.1	RSE Row Factors			
			Million Hou	seholds					
Total U.S. Households	107.0	49.9	18.0	21.2	17.9	4.2			
Number of Households, Fuels Used (more than one may apply):									
Electricity ²	107.0	49.9	18.0	21.2	17.9	4.2			
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			
-	Billion Dollars								
- -									
Total Expenditures, Fuels Used:	400.04	40.00	40.04	00.40	00.44	4.0			
Electricity	100.34	40.89	16.24	23.10	20.11	4.3			
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	0.52	0.05	0.09	0.04	0.35	31.6			
LPG	5.60	0.39	0.98	0.50	3.73	19.1			
Total	159.74	67.15	27.33	36.16	29.10	4.1			
-			Dollars per Ho	ousehold ³					
Total Expenditures per Household, Fuels Used:									
Electricity	938	820	901	1.089	1.126	2.2			
Natural Gas	702	651	740	792	749	3.6			
Fuel Oil	737	574	822	833	784	5.3			
Kerosene	178	86	156	0	241	22.2			
LPG	605	442	637	640	617	9.9			
Total	1,493	1,347	1,516	1,704	1,628	1.9			
-			Dollars per M	illion Btu ³					
Average Price of Btu Consumption, Fuels									
Used:									
Electricity	25.80	27.10	25.32	26.53	23.16	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	11.09	11.83	11.33	11.19	10.93	3.6			
LPG	14.87	16.60 15.91	14.76	16.78 16.59	14.53 17.23	3.6 1.3			
Total	16.19		15.40						

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

			Urban/Rur	al Location ¹		
	Total	City	Town	Suburbs	Rural	
RSE Column Factor:	0.5	1.0	1.4	1.3	1.1	RSE Row Factors
			Price per Phys	ical Unit ³		<u>'</u>
Average Price of Physical Units of						
Consumption, Fuels Used:						
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	1.60	1.53	1.51	1.48	3.6
LPG (dollars per gallon)	1.36	1.52	1.35	1.53	1.33	3.6
			Million Hous	eholds		
Number of Households, Where the End						
Use Is:						
Space Heating ⁴	105.3	48.9	17.9	21.1	17.3	4.2
Electric Air-Conditioning ⁵	80.8	35.6	13.4	18.6	13.3	4.3
Water Heating ⁶	106.7	49.7	18.0	21.2	17.8	4.2
RefrigeratorsAppliances	106.8 107.0	49.7 49.9	18.0 18.0	21.2 21.2	17.8 17.9	4.2 4.2
Appliances	107.0	49.9	10.0	21.2	17.9	4.2
			Billion Do	llarsa		
Total Expenditures, Where the End Use						
ls:						
Space Heating	50.53	20.96	9.63	10.57	9.36	4.9
Electric Air-Conditioning	15.94	6.83	2.15	4.53	2.44	6.1
Water Heating	21.61	9.17	3.62	4.65	4.17	4.1
Refrigerators Other Appliances and Lighting	14.38 57.28	6.38 23.81	2.36 9.57	3.16 13.24	2.48 10.65	4.1
Cities Applications and Lighting	07.20		Dollars per Ho		10.00	4.0
-			Dollars per Hot	userioiu°,~		
Total Expenditures per Household, Where the End Use Is:						
Space Heating	480	428	537	500	541	3.0
Electric Air-Conditioning	197	192	160	244	184	4.2
Water Heating	203	185	201	219	235	1.9
Refrigerators	135	128	131	149	139	2.2
Other Appliances and Lighting	535	478	531	624	596	2.3

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

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

³ 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

given fuel or over the set using a given end use.

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

⁵ 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.

those households were treated as if the fuel was electricity.

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

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

		T			
			Northeast Census Re	gion	
			Census		
	Total U.S.	Total	Middle Atlantic	New England	
RSE Column Factor:	0.5	1.0	1.2	1.5	RSE Row Factors
			Million Households		
Total U.S. Households	107.0	20.3	14.8	5.4	NE
Number of Households, Fuels Used (more than one may apply):					
Electricity ¹	107.0	20.3	14.8	5.4	NE.
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	23.4
LPG	9.4	1.7	1.0	0.7	16.7
Wood	14.5	2.3	1.3	0.9	13.1
			Billion Dollars		
Total Expenditures, Fuels Used:					
Electricity	100.34	17.88	13.27	4.61	3.0
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	0.52	0.22	0.14	0.00	31.8
LPG	5.60	0.89	0.48	0.42	20.6
Total	159.74	35.26	25.39	9.87	2.3
_			Dollars per Household	2	
Total Expenditures per Household, Fuels					
Used: Electricity	020	000	894	050	2.0
Natural Gas	938 702	883 889	894 861	852 1,014	3.0 5.5
Fuel Oil	737	785	701	903	4.2
Kerosene	178	324	341	299	18.5
LPG	605	519	482	569	15.3
Total	1,493	1,741	1,710	1,825	2.3
_			Dollars per Million Btu	2	
Average Price of Btu Consumption, Fuels					
Used:					
Electricity	25.80	33.93	33.59	34.95	2.0
Natural Gas	9.70	11.35	11.13	12.29	2.3
ratara out		8.88	8.74	9.02	0.9
Fuel Oil	8.91	0.00			
Fuel Oil Kerosene	11.09	10.72	10.26	11.57	2.6
Fuel Oil					2.6 3.9 1.0

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

		Northeast Census Region				
			Census	Division		
	Total U.S.	Total	Middle Atlantic	New England		
RSE Column Factor:	0.5	1.0	1.2	1.5	RSE Row Factors	
		1	Price per Physical Unit	.2	'	
Average Price of Physical Units of						
Consumption, Fuels Used:						
Electricity (cents per kWh)	8.8	11.6	11.5	11.9	2.0	
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	1.59	1.60	1.57	3.9	
-			Million Households			
_						
Number of Households, Where the End Use Is:						
Space Heating ³	105.3	19.9	14.6	5.3	NE	
Electric Air-Conditioning ⁴	80.8	14.2	11.1	3.2	3.4	
Water Heating ⁵	106.7	20.2	14.8	5.4	NE	
Refrigerators	106.8	20.2	14.8	5.4	NE	
Appliances	107.0	20.3	14.8	5.4	NE	
-			Billion Dollarsa			
-			Dillion Dollars			
Total Expenditures, Where the End Use						
Is:	E0 E2	44.07	0.00	4.47	1 22	
Space Heating	50.53	14.07	9.90	4.17	3.3	
Electric Air-Conditioning	15.94	1.58	1.29	0.29	7.1	
Water HeatingRefrigerators	21.61	4.55	3.18 2.27	1.36	2.5	
Other Appliances and Lighting	14.38 57.28	3.02 12.04	2.27 8.75	0.76 3.29	1.8	
Other Appliances and Lighting	37.20	12.04	0.73	3.29	3.1	
-			Dollars per Household ²	?,a		
Total Expenditures per Household, Where the End Use Is:						
Space Heating	480	706	679	779	3.2	
Electric Air-Conditioning	197	111	117	92	5.6	
Water Heating	203	225	215	253	2.5	
Refrigerators	135	150	153	140	1.8	
	535	594	589	609	3.1	

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

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

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.

3 Households where the main or secondary s

Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

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.

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

^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.

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.

Table CE1-10e. Total Energy Expenditures in U.S. Households, by Midwest Census Region, 2001

			Midwest Census Region			
			Census	Census Division		
	Total U.S.	Total	East North Central	West North Central		
RSE Column Factor:	0.6	1.0	1.3	1.4	RSE Row Factors	
			Million Households			
Total U.S. Households	107.0	24.5	17.1	7.4	NE	
Number of Households, Fuels Used (more than one may apply):						
Electricity ¹	107.0	24.5	17.1	7.4	NE	
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	
-			Billion Dollars		_	
Total Expenditures, Fuels Used:						
Electricity	100.34	19.74	13.49	6.25	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	0.52	0.04	Q	Q	34.8	
LPG Total	5.60	1.87 37.74	0.93 26.22	0.94 11.52	23.2	
Total	159.74	37.74			2.1	
-			Dollars per Household] 2		
Total Expenditures per Household, Fuels Used:						
Electricity	938	806	789	845	2.5	
Natural Gas	702	803	811	779	3.5	
Fuel Oil	737	597	548	663	12.0	
Kerosene	178	88	Q	Q	29.3	
LPG	605	818	857	783	6.2	
Total	1,493	1,541	1,534	1,557	2.1	
-			Dollars per Million Btu	12		
Average Price of Btu Consumption, Fuels						
Used:			95.5	05		
Electricity	25.80	24.29	25.13	22.65	2.0	
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	11.09	13.58	13.04	Q 42.25	3.4	
LPG	14.87	12.72	13.23	12.25	2.5	
Total	16.19	13.20	12.90	13.95	2.0	

Table CE1-10e. Total Energy Expenditures in U.S. Households, by Midwest Census Region, 2001 (Continued)

			Midwest Census Reg	gion			
			Census				
	Total U.S.	Total	East North Central	West North Central]		
RSE Column Factor:	0.6	1.0	1.3	1.4	RSE Row Factors		
-			Price per Physical Uni	t ²			
Average Price of Physical Units of							
Consumption, Fuels Used:							
Electricity (cents per kWh)	8.8	8.3	8.6	7.7	2.0		
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	3.5		
LPG (dollars per gallon)	1.36	1.16	1.21	1.12	2.5		
-			Million Households				
Number of Households, Where the End Use Is:							
Space Heating ³	105.3	24.4	17.0	7.3	NE		
Electric Air-Conditioning ⁴	8.08	20.2	13.4	6.7	2.3		
Water Heating ⁵	106.7	24.5	17.1	7.4	NE		
Refrigerators	106.8	24.5	17.1	7.4	NE		
Appliances	107.0	24.5	17.1	7.4	NE		
_			Billion Dollarsa		•		
_							
Total Expenditures, Where the End Use Is:							
Space Heating	50.53	15.06	10.53	4.53	3.0		
Electric Air-Conditioning	15.94	2.49	1.58	0.91	5.1		
Water Heating	21.61	4.50	3.02	1.47	2.5		
Refrigerators	14.38	2.99	2.10	0.89	2.0		
Other Appliances and Lighting	57.28	12.70	8.98	3.71	2.4		
-	Dollars per Household ^{2,a}						
-							
Total Expenditures per Household, Where the End Use Is:							
Space Heating	480	618	619	617	3.0		
Electric Air-Conditioning	197	123	117	135	4.6		
Water Heating	203	184	177	199	2.5		
Refrigerators	135	122	123	121	2.0		
Other Appliances and Lighting	535	518	526	502	2.4		

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

² 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.

Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

⁴ 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.

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

^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 CE1-11e. Total Energy Expenditures in U.S. Households by South Census Region, 2001

		Tegion, 2				
			So	outh Census Region		
				Census Division	1	
	Total U.S.	Total	South Atlantic	East South Central	West south Central	
RSE Column Factor:	0.5	0.9	1.1	1.4	1.6	RSE Row Factors
-			Millio	n Households		
Total U.S. Households	107.0	38.9	20.3	6.8	11.8	NE
Number of Households, Fuels Used (more						
than one may apply): Electricity ¹	107.0	38.9	20.3	6.8	11.8	NE
Natural Gas	66.9	18.7	20.3 8.0	2.9	7.8	7.0
Fuel Oil	8.7	0.9	0.0	Q	Q Q	30.6
Kerosene	2.9	1.4	1.0	0.3	Q	19.8
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
_			Bil	lion Dollars		
Total Expenditures, Fuels Used:						
Electricity	100.34	45.00	23.54	6.99	14.47	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	34.3
Kerosene	0.52	0.19	0.13	0.06	Q	33.7
LPG	5.60	1.94	1.06	0.60	0.28	22.4
Total	159.74	59.52	30.99	9.43	19.09	2.8
-			Dollars	per Household ²		
Total Expenditures per Household, Fuels						
Used:	200	4.45-	4.400	4.005	4.000	
Electricity Natural Gas	938 702	1,157 635	1,160 720	1,025 606	1,226 559	3.3
Fuel Oil	737	598	629	Q	Q	15.1
Kerosene	178	135	136	165	Q	24.3
LPG	605	516	521	479	594	10.8
Total	1,493	1,529	1,526	1,384	1,617	2.8
_			Dollars	per Million Btu ²		
	<u> </u>					
Average Price of Btu Consumption, Fuels Used:	05.00	00.00	0.1-1	40.7-	05.00	
Electricity	25.80	23.80	24.71	19.45	25.02	1.8
Natural Gas	9.70	10.50	11.72	9.82	9.46	4.2
Fuel Oil Kerosene	8.91 11.09	9.48 11.12	9.54 11.00	Q 11.36	Q Q	5.6 2.8
LPG	14.87	16.29	17.63	15.18	14.44	3.2
Total	16.19	18.53	19.75	16.09	18.07	2.7

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

			So	outh Census Region		
			Census Division			
	Total U.S.	Total	South Atlantic	East South Central	West south Central	
RSE Column Factor: 0.5	0.5	0.9	1.1	1.4	1.6	RSE Row Factors
			Price pe	er Physical Unit ²		
Average Price of Physical Units of						
Consumption, Fuels Used:						1
Electricity (cents per kWh)	8.8	8.1	8.4	6.6	8.5	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	1.49	1.53	Q	2.8
LPG (dollars per gallon)	1.36	1.49	1.61	1.39	1.32	3.2
-			Millio	n Households		•
Number of Households, Where the End Use Is:						
Space Heating ³	105.3	38.7	20.0	6.8	11.8	NE
Electric Air-Conditioning ⁴	80.8	36.9	19.0	6.4	11.5	1.6
Water Heating ⁵	106.7	38.9	20.3	6.8	11.8	NE
Refrigerators	106.8	38.9	20.3	6.8	11.8	NE
Appliances	107.0	38.9	20.3	6.8	11.8	NE
			Bill	ion Dollarsª		
T. (4) F. (4) F. (1)						
Total Expenditures, Where the End Use Is:						
Space Heating	50.53	14.13	7.33	2.83	3.96	5.8
Electric Air-Conditioning	15.94	10.37	7.33 5.15	1.24	3.99	4.3
Water Heating	21.61	8.34	4.61	1.32	2.41	2.8
Refrigerators	14.38	5.60	2.84	0.82	1.94	3.4
Other Appliances and Lighting	57.28	21.07	11.06	3.22	6.79	2.5
-			Dollars	per Household ^{2,a}		•
_						
Total Expenditures per Household, Where the End Use Is:						
Space Heating	480	365	366	416	335	5.8
Electric Air-Conditioning	197	282	271	195	348	3.7
Water Heating	203	215	227	194	204	2.8
Refrigerators	135	144	140	120	165	3.4
Other Appliances and Lighting	535	541	544	472	576	2.5

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

² 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.

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

⁴ 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.

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

^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 CE1-12e. Total Energy Expenditures in U.S. Households by West Census Region, 2001

			West Census Regio	on			
			Census Division				
	Total U.S.	Total	Mountain	Pacific			
RSE Column Factor:	0.5	1.1	1.8	1.1	RSE Row Factors		
	Million Households						
Total U.S. Households	107.0	23.3	6.7	16.6	NE		
Number of Households, Fuels Used (more than one may apply):							
Electricity ¹	107.0	23.3	6.7	16.6	NE		
Natural Gas	66.9	16.3	4.7	11.6	2.6		
Fuel Oil	8.7	0.2	Q	0.2	25.2		
Kerosene	2.9	0.4	Q	0.3	18.5		
LPG	9.4	1.5	0.5	1.0	17.4		
Wood	14.5	4.6	1.0	3.5	10.4		
			Billion Dollars				
Total Expenditures, Fuels Used:							
Electricity	100.34	17.72	5.41	12.31	2.9		
Natural Gas	46.98	8.43	2.64	5.78	5.1		
Fuel Oil	6.31	0.10	Q	0.09	33.2		
Kerosene	0.52	0.07	Q 0.44	0.07	37.3		
LPG	5.60	0.90 27.23	0.41 8.47	0.50 18.75	21.0 3.0		
Total	159.74				3.0		
			Dollars per Household	2			
Total Expenditures per Household, Fuels Used:							
Electricity	938	761	805	743	2.9		
Natural Gas	702	516	558	499	4.5		
Fuel Oil	737	473	Q	465	15.0		
Kerosene	178	184	Q	195	30.2		
LPG	605	605	762	517	8.7		
Total	1,493	1,168	1,260	1,131	3.0		
			Dollars per Million Btu	2			
Average Price of Btu Consumption, Fuels							
Used:	25.00	26.00	22.76	00 FF	22		
Electricity	25.80	26.89 9.38	23.76 8.10	28.55	2.0 2.5		
Natural GasFuel Oil	9.70 8.91	9.38 8.96	8.10 Q	10.11 9.14	2.5		
Kerosene	11.09	11.01	Q	11.01	1.9		
	11.05	11.01	· · ·	11.01	1 1.9		
LPG	14.87	15.19	13.15	17.40	4.1		

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

			West Census Region				
			Census	Division			
	Total U.S.	Total	Mountain	Pacific			
RSE Column Factor:	0.5	1.1	1.8	1.1	RSE Row Factors		
		1	Price per Physical Unit	2			
Average Price of Physical Units of							
Consumption, Fuels Used:							
Electricity (cents per kWh)	8.8	9.2	8.1	9.7	2.0		
Natural Gas (dollars per thousand cf) Fuel Oil (dollars per gallon)	9.98 1.24	9.65 1.24	8.34 Q	10.40	2.5 2.3		
Kerosene (dollars per gallon)	1.50	1.24	Q	1.27 1.49	2.3		
LPG (dollars per gallon)	1.36	1.39	1.20	1.59	4.1		
Li O (dollaro por gallori)	1.00	1.00	Million Households	1.00			
-			Million Households				
Number of Households, Where the End Use Is:							
Space Heating ³	105.3	22.4	6.7	15.7	NE		
Electric Air-Conditioning ⁴	80.8	9.6	3.2	6.3	7.2		
Water Heating ⁵	106.7	23.2	6.7	16.5	NE		
Refrigerators	106.8	23.2	6.7	16.5	NE		
Appliances	107.0	23.3	6.7	16.6	NE		
			Billion Dollarsa				
Total Expenditures, Where the End Use							
ls:							
Space Heating	50.53	7.27	2.57	4.69	4.4		
Electric Air-Conditioning	15.94	1.50	0.78	0.72	8.7		
Water Heating Refrigerators	21.61 14.38	4.23 2.76	1.19 0.81	3.04 1.95	2.9 3.0		
Other Appliances and Lighting	57.28	11.47	3.12	8.35	3.6		
-	Dollars per Household ^{2,a}						
-							
Total Expenditures per Household, Where the End Use Is:							
Space Heating	480	325	385	299	4.5		
Electric Air-Conditioning	197	157	244	113	7.2		
Water Heating	203	183	177	185	2.8		
Refrigerators	135	119	122	118	3.0		
Other Appliances and Lighting	535	492	464	503	3.6		

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

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.

3 Households where the main or secondary s

Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

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.

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

^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.