

1997 Consumption and Expenditures Tables

Total Expenditures Tables

(20 pages, 76 kb)

Contents

Pages

CE1-1e. Total Energy Expenditures in U.S. Households by Climate Zone, 1997	2
CE1-2e. Total Energy Expenditures in U.S. Households by Year of Construction, 1997	2
CE1-3e. Total Energy Expenditures in U.S. Households by Household Income, 1997	2
CE1-4e. Total Energy Expenditures in U.S. Households by Type of Housing Unit, 1997	2
CE1-7e. Total Energy Expenditures in U.S. Households by Four Most Populated States, 1997	2
CE1-8e. Total Energy Expenditures in U.S. Households by Urban/Rural Location, 1997	2
CE1-9e. Total Energy Expenditures in U.S. Households by Northeast Census Region, 1997	2
CE1-10e. Total Energy Expenditures in U.S. Households by Midwest Census Region, 1997	2
CE1-11e. Total Energy Expenditures in U.S. Households by South Census Region, 1997	2
CE1-12e. Total Energy Expenditures in U.S. Households by West Census Region, 1997	2

These data are from the 1997 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 data for occupied primary housing units. RECS was first conducted in 1978; the sixth and most recent survey was conducted in 1997 RECS. The data were collected from a sample of 5,900 housing units statistically selected to represent the 101.5 million units in the United States. The 1997 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.

Data provided here are in the public domain and may be reproduced without permission. Appropriate credit would be appreciated. A suggested citation is "U.S. Department of Energy, Energy Information Administration, *"A Look at Residential Energy Consumption in 1997."*

Electronic Products and Services

Users can view and download selected pages or entire reports, search for information, download data and analysis applications, and find out about new information products and services.

Contact: Robert Latta, Survey Manager (rlatta@eia.doe.gov)

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

Table CE1-1e. Total Energy Expenditures in U.S. Households by Climate Zone, 1997

	Climate Zone ¹						RSE Row Factors
	Total	Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.7	1.0	1.2	1.2	1.1	
Million Households							
Total U.S. Households	101.5	9.3	28.0	22.5	19.5	22.2	7.9
Number of Households, Fuels Used (more than one may apply):							
Electricity ²	101.4	9.2	28.0	22.5	19.5	22.2	7.9
Natural Gas	61.9	5.1	20.0	12.7	12.7	11.5	8.7
Fuel Oil	10.0	2.0	3.1	4.4	0.3	Q	17.2
Kerosene	3.5	0.4	0.8	0.9	0.9	0.4	19.1
LPG	8.1	1.4	1.9	1.6	1.7	1.4	23.3
Wood	15.0	2.0	3.3	3.5	3.4	2.9	11.5
Billion Dollars							
Total Expenditures, Fuels Used:							
Electricity	88.33	6.54	21.83	20.18	15.99	23.78	7.4
Natural Gas	35.81	3.28	14.57	8.30	5.01	4.65	10.3
Fuel Oil	7.11	1.52	2.55	2.91	0.12	Q	19.7
Kerosene	0.50	0.13	0.12	0.09	0.14	0.02	28.2
LPG	4.04	0.56	1.25	0.90	0.85	0.47	25.6
Total	135.79	12.04	40.32	32.38	22.11	28.95	6.8
Dollars per Household³							
Total Expenditures per Household, Fuels Used:							
Electricity	871	708	778	897	820	1,072	2.9
Natural Gas	579	643	729	654	395	406	3.6
Fuel Oil	714	756	814	656	448	Q	6.1
Kerosene	144	315	141	102	151	49	21.6
LPG	500	394	643	549	500	350	10.1
Total	1,338	1,301	1,438	1,439	1,133	1,305	2.3
Dollars per Million Btu³							
Average Price of Btu Consumption, Fuels Used:							
Electricity	24.97	22.48	26.14	25.19	25.76	24.05	2.6
Natural Gas	6.78	5.87	6.44	7.78	6.92	6.97	2.4
Fuel Oil	7.05	6.94	7.20	6.98	7.41	Q	1.0
Kerosene	8.51	8.21	8.69	8.40	8.59	9.63	2.4
LPG	11.23	10.52	10.58	11.36	11.95	12.61	5.2
Total	13.25	10.57	11.25	13.63	15.26	17.04	2.4

See footnotes at end of table.

Table CE1-1e. Total Energy Expenditures in U.S. Households by Climate Zone, 1997 (Continued)

	Climate Zone ¹						RSE Row Factors
	Total	Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.7	1.0	1.2	1.2	1.1	
Price per Physical Unit³							
Average Price of Physical Units of Consumption, Fuels Used:							
Electricity (cents per kWh)	8.5	7.7	8.9	8.6	8.8	8.2	2.6
Natural Gas (dollars per thousand cf) ..	6.96	6.03	6.61	7.99	7.10	7.16	2.4
Fuel Oil (dollars per gallon)	0.98	0.96	1.00	0.97	1.03	Q	0.9
Kerosene (dollars per gallon)	1.15	1.11	1.17	1.13	1.16	1.30	2.4
LPG (dollars per gallon)	1.03	0.96	0.97	1.04	1.09	1.15	5.2
Million Households							
Number of Households, Where the End Use Is:							
Space Heating ⁴	99.7	8.9	27.8	22.2	19.2	21.5	8.0
Electric Air-Conditioning ⁵	72.6	5.2	18.2	17.6	12.0	19.6	8.4
Water Heating ⁶	100.8	9.2	27.9	22.3	19.4	21.9	7.9
Refrigerators	101.3	9.2	28.0	22.5	19.5	22.1	7.9
Appliances	101.5	9.3	28.0	22.5	19.5	22.2	7.9
Billion Dollars							
Total Expenditures, Where the End Use Is:							
Space Heating	42.03	4.80	15.95	11.60	5.14	4.53	8.1
Electric Air-Conditioning	10.20	0.25	1.25	1.84	1.70	5.16	10.4
Water Heating	19.76	1.74	5.40	4.63	3.70	4.28	6.9
Refrigerators	12.14	0.85	3.14	2.66	2.34	3.14	6.7
Other Appliances and Lighting	51.66	4.40	14.57	11.64	9.22	11.84	7.0
Dollars per Household³							
Total Expenditures per Household, Where the End Use Is:							
Space Heating	421	538	573	522	267	211	3.5
Electric Air-Conditioning	140	48	69	105	141	264	4.8
Water Heating	196	190	194	207	191	195	2.5
Refrigerators	120	92	112	118	121	142	2.9
Other Appliances and Lighting	509	475	520	517	473	534	2.7

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

² The 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.

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 1997 Residential Energy Consumption Survey.

**Table CE1-2e. Total Energy Expenditures in U.S. Households
by Year of Construction, 1997**

	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.7	1.3	1.0	1.1	1.1	0.8	
Million Households								
Total U.S. Households	101.5	9.7	17.3	19.6	14.4	12.5	27.9	4.2
Number of Households, Fuels Used (more than one may apply):								
Electricity ²	101.4	9.7	17.3	19.6	14.4	12.5	27.9	4.2
Natural Gas	61.9	5.2	7.5	9.5	9.6	9.2	20.9	6.1
Fuel Oil	10.0	0.3	0.6	1.0	1.5	1.5	5.0	14.6
Kerosene	3.5	0.2	0.5	0.8	0.4	0.3	1.4	18.4
LPG	8.1	0.9	1.2	1.7	1.1	0.7	2.5	14.0
Wood	15.0	1.6	3.7	3.4	2.2	1.4	2.8	9.8
Billion Dollars								
Total Expenditures, Fuels Used:								
Electricity	88.33	9.66	17.62	19.03	11.85	10.14	20.03	4.5
Natural Gas	35.81	2.91	3.83	4.75	4.88	5.30	14.15	7.3
Fuel Oil	7.11	0.22	0.44	0.63	0.97	1.08	3.77	16.8
Kerosene	0.50	0.03	0.06	0.09	0.05	0.03	0.23	29.9
LPG	4.04	0.48	0.59	0.75	0.50	0.28	1.44	16.7
Total	135.79	13.29	22.54	25.25	18.26	16.82	39.63	4.2
Dollars per Household³								
Total Expenditures per Household, Fuels Used:								
Electricity	871	997	1,018	973	821	808	718	2.6
Natural Gas	579	557	508	501	508	577	677	3.5
Fuel Oil	714	713	753	612	630	710	758	7.7
Kerosene	144	164	120	125	132	119	170	26.0
LPG	500	546	506	443	457	377	576	9.0
Total	1,338	1,369	1,302	1,291	1,264	1,340	1,420	2.0
Dollars per Million Btu³								
Average Price of Btu Consumption, Fuels Used:								
Electricity	24.97	23.35	23.97	23.81	25.42	26.21	27.21	1.5
Natural Gas	6.78	6.78	6.85	6.39	6.67	6.91	6.90	2.0
Fuel Oil	7.05	7.27	7.30	6.92	7.03	7.12	7.02	2.1
Kerosene	8.51	8.32	8.46	8.39	8.52	8.33	8.62	2.6
LPG	11.23	11.30	11.59	11.48	11.19	12.17	10.80	3.3
Total	13.25	14.48	15.95	14.77	13.17	12.63	11.37	1.9

See footnotes at end of table.

Table CE1-2e. Total Energy Expenditures in U.S. Households by Year of Construction, 1997 (Continued)

	Total	Year of Construction						RSE Row Factors
		1990 to 1997 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.7	1.3	1.0	1.1	1.1	0.8	
Price per Physical Unit³								
Average Price of Physical Units of Consumption, Fuels Used:								
Electricity (cents per kWh)	8.5	8.0	8.2	8.1	8.7	8.9	9.3	1.5
Natural Gas (dollars per thousand cf)	6.96	6.97	7.03	6.56	6.85	7.09	7.08	2.0
Fuel Oil (dollars per gallon)	0.98	1.01	1.01	0.96	0.97	0.99	0.97	2.1
Kerosene (dollars per gallon)	1.15	1.12	1.14	1.13	1.15	1.12	1.16	2.6
LPG (dollars per gallon)	1.03	1.03	1.06	1.05	1.02	1.11	0.99	3.3
Million Households								
Number of Households, Where the End Use Is:								
Space Heating ⁴	99.7	9.6	17.1	19.2	14.1	12.4	27.3	4.2
Electric Air-Conditioning ⁵	72.6	8.3	14.6	14.7	10.0	8.9	16.1	4.7
Water Heating ⁶	100.8	9.7	17.2	19.4	14.3	12.5	27.7	4.2
Refrigerators	101.3	9.7	17.3	19.5	14.4	12.5	27.8	4.2
Appliances	101.5	9.7	17.3	19.6	14.4	12.5	27.9	4.2
Billion Dollars								
Total Expenditures, Where the End Use Is:								
Space Heating	42.03	3.32	5.23	6.85	5.44	5.38	15.80	4.7
Electric Air-Conditioning	10.20	1.49	2.60	2.30	1.34	1.08	1.40	7.3
Water Heating	19.76	2.04	3.62	3.90	2.63	2.32	5.25	4.2
Refrigerators	12.14	1.07	2.08	2.31	1.79	1.62	3.27	4.6
Other Appliances and Lighting	51.66	5.37	9.01	9.88	7.06	6.44	13.90	4.4
Dollars per Household³								
Total Expenditures per Household, Where the End Use Is:								
Space Heating	421	347	306	357	385	433	578	3.0
Electric Air-Conditioning	140	179	177	157	134	121	87	5.5
Water Heating	196	211	210	202	184	185	190	2.2
Refrigerators	120	111	121	118	124	129	117	2.6
Other Appliances and Lighting	509	553	521	505	489	513	498	2.5

¹ New construction for 1997 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

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.

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 1997 Residential Energy Consumption Survey.

Table CE1-3e. Total Energy Expenditures in U.S. Households by Household Income, 1997

	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.5	1.0	0.9	1.0	1.3	1.0	
Million Households								
Total U.S. Households	101.5	13.3	29.1	31.1	27.9	14.6	34.1	2.7
Number of Households, Fuels Used (more than one may apply):								
Electricity ²	101.4	13.3	29.1	31.1	27.9	14.6	34.0	2.7
Natural Gas	61.9	8.0	17.0	19.0	17.9	9.1	20.4	4.3
Fuel Oil	10.0	1.3	2.5	3.2	3.0	1.4	3.4	10.4
Kerosene	3.5	0.4	1.2	1.2	0.6	0.6	1.4	14.5
LPG	8.1	1.0	2.4	2.7	1.9	1.2	2.8	12.7
Wood	15.0	0.7	3.0	4.7	6.7	1.1	3.0	9.4
Billion Dollars								
Total Expenditures, Fuels Used:								
Electricity	88.33	8.36	21.92	26.61	31.43	10.29	24.79	3.4
Natural Gas	35.81	3.74	8.82	11.17	12.08	4.35	10.54	5.4
Fuel Oil	7.11	0.66	1.52	2.21	2.73	0.69	1.97	12.1
Kerosene	0.50	0.08	0.19	0.18	0.06	0.12	0.22	23.4
LPG	4.04	0.43	1.20	1.39	1.02	0.50	1.34	14.8
Total	135.79	13.26	33.65	41.56	47.33	15.95	38.86	2.9
Dollars per Household³								
Total Expenditures per Household, Fuels Used:								
Electricity	871	630	752	855	1,126	703	728	2.3
Natural Gas	579	469	518	589	673	476	516	3.0
Fuel Oil	714	505	603	699	914	498	576	5.3
Kerosene	144	192	149	147	99	185	163	19.6
LPG	500	412	493	518	531	433	482	8.6
Total	1,338	997	1,155	1,335	1,696	1,088	1,140	1.6
Dollars per Million Btu³								
Average Price of Btu Consumption, Fuels Used:								
Electricity	24.97	25.05	24.70	24.63	25.44	25.04	25.16	1.3
Natural Gas	6.78	7.06	6.76	6.78	6.72	6.86	6.88	1.6
Fuel Oil	7.05	6.22	6.87	7.03	7.42	6.16	6.66	1.5
Kerosene	8.51	8.58	8.54	8.41	8.61	8.68	8.64	1.7
LPG	11.23	11.36	11.18	10.66	12.12	11.33	11.42	2.8
Total	13.25	13.05	13.23	13.01	13.55	13.12	13.15	1.8

See footnotes at end of table.

Table CE1-3e. Total Energy Expenditures in U.S. Households by Household Income, 1997 (Continued)

	Total	1997 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.5	1.0	0.9	1.0	1.3	1.0	
Price per Physical Unit³								
Average Price of Physical Units of Consumption, Fuels Used:								
Electricity (cents per kWh)	8.5	8.5	8.4	8.4	8.7	8.5	8.6	1.3
Natural Gas (dollars per thousand cf)	6.96	7.25	6.94	6.96	6.90	7.04	7.07	1.6
Fuel Oil (dollars per gallon)	0.98	0.86	0.95	0.98	1.03	0.85	0.92	1.5
Kerosene (dollars per gallon)	1.15	1.16	1.15	1.14	1.16	1.17	1.17	1.7
LPG (dollars per gallon)	1.03	1.04	1.02	0.97	1.11	1.03	1.04	2.8
Million Households								
Number of Households, Where the End Use Is:								
Space Heating ⁴	99.7	12.8	28.5	30.7	27.6	14.0	33.0	2.8
Electric Air-Conditioning ⁵	72.6	8.1	19.3	23.1	22.2	8.3	20.9	3.6
Water Heating ⁶	100.8	13.0	29.0	31.0	27.7	14.4	33.7	2.8
Refrigerators	101.3	13.2	29.1	31.1	27.9	14.6	34.0	2.8
Appliances	101.5	13.3	29.1	31.1	27.9	14.6	34.1	2.7
Billion Dollars								
Total Expenditures, Where the End Use Is:								
Space Heating	42.03	4.33	10.78	13.12	13.79	4.73	12.20	3.3
Electric Air-Conditioning	10.20	0.91	2.39	2.86	4.04	1.00	2.48	6.1
Water Heating	19.76	2.08	5.22	6.14	6.33	2.71	6.40	3.0
Refrigerators	12.14	1.36	3.15	3.55	4.07	1.52	3.61	3.2
Other Appliances and Lighting	51.66	4.58	12.10	15.89	19.10	5.99	14.18	3.2
Dollars per Household³								
Total Expenditures per Household, Where the End Use Is:								
Space Heating	421	338	378	427	499	338	370	2.6
Electric Air-Conditioning	140	113	124	124	182	120	119	4.8
Water Heating	196	160	180	198	228	189	190	1.8
Refrigerators	120	103	108	114	146	104	106	2.0
Other Appliances and Lighting	509	344	415	510	684	409	416	2.0

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

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.

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 1997 Residential Energy Consumption Survey.

Table CE1-4e. Total Energy Expenditures in U.S. Households by Type of Housing Unit, 1997

	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	1.9	1.4	1.5	
Million Households						
Total U.S. Households	101.5	73.7	5.6	15.8	6.3	4.0
Number of Households, Fuels Used (more than one may apply):						
Electricity ¹	101.4	73.7	5.6	15.8	6.3	4.0
Natural Gas	61.9	47.0	3.8	8.8	2.3	6.1
Fuel Oil	10.0	7.5	0.5	1.8	Q	13.5
Kerosene	3.5	2.7	Q	Q	0.6	15.8
LPG	8.1	6.2	Q	Q	1.7	15.2
Wood	15.0	14.0	Q	0.2	0.7	13.1
Billion Dollars						
Total Expenditures, Fuels Used:						
Electricity	88.33	70.33	3.47	8.84	5.68	4.3
Natural Gas	35.81	29.97	2.36	2.46	1.02	7.9
Fuel Oil	7.11	6.13	0.35	0.59	Q	16.8
Kerosene	0.50	0.32	Q	Q	0.16	27.2
LPG	4.04	3.25	Q	Q	0.72	17.0
Total	135.79	110.00	6.23	11.94	7.62	3.7
Dollars per Household²						
Total Expenditures per Household, Fuels Used:						
Electricity	871	954	617	560	899	2.6
Natural Gas	579	638	616	281	438	3.6
Fuel Oil	714	814	728	323	Q	6.7
Kerosene	144	116	Q	Q	270	21.3
LPG	500	524	Q	Q	423	8.0
Total	1,338	1,492	1,108	755	1,206	1.8
Dollars per Million Btu²						
Average Price of Btu Consumption, Fuels Used:						
Electricity	24.97	24.79	27.79	27.41	22.45	1.6
Natural Gas	6.78	6.72	7.01	7.62	6.27	2.1
Fuel Oil	7.05	7.34	7.21	4.99	Q	1.7
Kerosene	8.51	8.60	Q	Q	8.35	2.0
LPG	11.23	11.15	Q	Q	11.57	2.9
Total	13.25	13.00	12.10	15.53	15.17	2.2

See footnotes at end of table.

Table CE1-4e. Total Energy Expenditures in U.S. Households by Type of Housing Unit, 1997 (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	1.9	1.4	1.5	
Price per Physical Unit²						
Average Price of Physical Units of Consumption, Fuels Used:						
Electricity (cents per kWh)	8.5	8.5	9.5	9.4	7.7	1.6
Natural Gas (dollars per thousand cf)	6.96	6.90	7.20	7.83	6.44	2.1
Fuel Oil (dollars per gallon)	0.98	1.02	1.00	0.69	Q	1.7
Kerosene (dollars per gallon)	1.15	1.16	Q	Q	1.13	2.0
LPG (dollars per gallon)	1.03	1.02	Q	Q	1.06	2.9
Million Households						
Number of Households, Where the End Use Is:						
Space Heating ³	99.7	72.7	5.6	15.3	6.1	4.1
Electric Air-Conditioning ⁴	72.6	53.8	3.4	10.9	4.5	4.8
Water Heating ⁵	100.8	73.4	5.6	15.5	6.3	4.0
Refrigerators	101.3	73.7	5.6	15.7	6.3	4.0
Appliances	101.5	73.7	5.6	15.8	6.3	4.0
Billion Dollars						
Total Expenditures, Where the End Use Is:						
Space Heating	42.03	35.07	2.45	2.34	2.18	4.5
Electric Air-Conditioning	10.20	8.06	0.29	1.06	0.79	7.6
Water Heating	19.76	14.89	0.97	2.57	1.34	4.0
Refrigerators	12.14	9.55	0.57	1.43	0.59	4.2
Other Appliances and Lighting	51.66	42.44	1.95	4.54	2.73	4.0
Dollars per Household²						
Total Expenditures per Household, Where the End Use Is:						
Space Heating	421	482	436	153	357	3.2
Electric Air-Conditioning	140	150	85	98	175	5.6
Water Heating	196	203	173	165	213	2.3
Refrigerators	120	130	102	91	93	2.5
Other Appliances and Lighting	509	576	347	288	432	2.2

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.

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 1997 Residential Energy Consumption Survey.

**Table CE1-7e. Total Energy Expenditures in U.S. Households
by Four Most Populated States, 1997**

	Total U.S.	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.0	1.1	1.6	1.5	
Million Households						
Total U.S. Households	101.5	6.8	11.5	7.0	5.9	NF
Number of Households, Fuels Used (more than one may apply):						
Electricity ¹	101.4	6.8	11.5	7.0	5.9	NF
Natural Gas	61.9	5.1	9.7	4.7	1.2	5.9
Fuel Oil	10.0	2.9	Q	Q	Q	20.0
Kerosene	3.5	Q	Q	Q	Q	25.1
LPG	8.1	0.6	0.4	0.3	0.4	21.4
Wood	15.0	0.8	2.1	0.9	0.7	15.8
Billion Dollars						
Total Expenditures, Fuels Used:						
Electricity	88.33	5.78	8.13	7.53	7.00	4.6
Natural Gas	35.81	3.74	3.17	1.88	0.41	9.2
Fuel Oil	7.11	2.03	Q	Q	Q	26.4
Kerosene	0.50	Q	Q	Q	Q	46.5
LPG	4.04	0.15	0.21	0.16	0.08	26.5
Total	135.79	11.77	11.57	9.57	7.51	3.0
Dollars per Household²						
Total Expenditures per Household, Fuels Used:						
Electricity	871	846	709	1,081	1,180	4.6
Natural Gas	579	731	327	400	358	6.6
Fuel Oil	714	699	Q	Q	Q	10.6
Kerosene	144	381	Q	Q	Q	29.6
LPG	500	271	490	489	201	14.7
Total	1,338	1,724	1,008	1,374	1,266	3.0
Dollars per Million Btu²						
Average Price of Btu Consumption, Fuels Used:						
Electricity	24.97	42.18	34.15	22.52	24.34	1.8
Natural Gas	6.78	9.63	6.73	5.90	13.16	3.5
Fuel Oil	7.05	6.78	Q	Q	Q	1.7
Kerosene	8.51	8.46	Q	Q	Q	1.9
LPG	11.23	16.11	12.51	9.96	19.09	5.8
Total	13.25	13.97	15.76	14.29	23.05	3.2

See footnotes at end of table.

Table CE1-7e. Total Energy Expenditures in U.S. Households by Four Most Populated States, 1997 (Continued)

	Four Most Populated States					RSE Row Factors
	Total U.S.	New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.0	1.1	1.6	1.5	
Price per Physical Unit²						
Average Price of Physical Units of Consumption, Fuels Used:						
Electricity (cents per kWh)	8.5	14.4	11.7	7.7	8.3	1.8
Natural Gas (dollars per thousand cf)	6.96	9.89	6.91	6.06	13.51	3.5
Fuel Oil (dollars per gallon)	0.98	0.94	Q	Q	Q	1.7
Kerosene (dollars per gallon)	1.15	1.14	Q	Q	Q	1.9
LPG (dollars per gallon)	1.03	1.47	1.14	0.91	1.74	5.8
Million Households						
Number of Households, Where the End Use Is:						
Space Heating ³	99.7	6.7	11.2	6.9	5.7	1.5
Electric Air-Conditioning ⁴	72.6	4.2	4.6	6.3	5.6	3.3
Water Heating ⁵	100.8	6.8	11.4	6.9	5.8	NF
Refrigerators	101.3	6.8	11.4	7.0	5.9	NF
Appliances	101.5	6.8	11.5	7.0	5.9	NF
Billion Dollars						
Total Expenditures, Where the End Use Is:						
Space Heating	42.03	4.45	1.91	1.72	0.47	5.9
Electric Air-Conditioning	10.20	0.34	0.58	1.69	1.80	10.3
Water Heating	19.76	1.65	2.00	1.28	1.19	3.0
Refrigerators	12.14	1.00	1.54	1.01	0.84	3.5
Other Appliances and Lighting	51.66	4.33	5.54	3.86	3.21	4.2
Dollars per Household²						
Total Expenditures per Household, Where the End Use Is:						
Space Heating	421	661	170	248	83	6.0
Electric Air-Conditioning	140	80	127	266	322	8.0
Water Heating	196	244	175	185	206	2.9
Refrigerators	120	147	134	146	141	3.5
Other Appliances and Lighting	509	634	483	555	541	4.2

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.
 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 1997 Residential Energy Consumption Survey.

Table CE1-8e. Total Energy Expenditures in U.S. Households by Urban/Rural Location, 1997

	Urban/Rural Location ¹					RSE Row Factors
	Total	City	Town	Suburbs	Rural	
	0.5	0.9	1.3	1.3	1.2	
RSE Column Factor:						
Million Households						
Total U.S. Households	101.5	48.2	18.2	18.6	16.5	4.1
Number of Households, Fuels Used (more than one may apply):						
Electricity ²	101.4	48.2	18.2	18.6	16.4	4.1
Natural Gas	61.9	35.4	10.5	12.2	3.8	5.7
Fuel Oil	10.0	3.2	2.4	1.6	2.8	11.7
Kerosene	3.5	1.0	0.6	0.5	1.4	16.2
LPG	8.1	0.9	1.4	0.6	5.1	14.8
Wood	15.0	3.5	2.8	3.7	5.0	8.9
Billion Dollars						
Total Expenditures, Fuels Used:						
Electricity	88.33	36.44	15.57	18.93	17.38	4.1
Natural Gas	35.81	19.34	6.36	7.81	2.30	7.1
Fuel Oil	7.11	1.86	1.77	1.31	2.17	13.4
Kerosene	0.50	0.09	0.13	0.03	0.25	24.8
LPG	4.04	0.29	0.76	0.19	2.79	17.7
Total	135.79	58.04	24.59	28.28	24.89	3.6
Dollars per Household³						
Total Expenditures per Household, Fuels Used:						
Electricity	871	756	855	1,019	1,058	2.1
Natural Gas	579	547	605	641	600	3.0
Fuel Oil	714	584	742	832	772	5.2
Kerosene	144	98	220	52	180	18.7
LPG	500	327	526	330	543	9.1
Total	1,338	1,203	1,350	1,522	1,513	1.7
Dollars per Million Btu³						
Average Price of Btu Consumption, Fuels Used:						
Electricity	24.97	25.66	25.09	25.45	23.11	1.5
Natural Gas	6.78	6.72	6.74	6.99	6.73	1.8
Fuel Oil	7.05	6.54	7.15	7.58	7.16	1.4
Kerosene	8.51	8.84	8.35	8.92	8.43	1.7
LPG	11.23	12.63	10.70	13.60	11.11	3.3
Total	13.25	12.57	12.96	13.78	14.84	1.8

See footnotes at end of table.

Table CE1-8e. Total Energy Expenditures in U.S. Households by Urban/Rural Location, 1997 (Continued)

	Urban/Rural Location ¹					RSE Row Factors
	Total	City	Town	Suburbs	Rural	
RSE Column Factor:	0.5	0.9	1.3	1.3	1.2	
Price per Physical Unit³						
Average Price of Physical Units of Consumption, Fuels Used:						
Electricity (cents per kWh)	8.5	8.8	8.6	8.7	7.9	1.5
Natural Gas (dollars per thousand cf)	6.96	6.90	6.92	7.18	6.92	1.8
Fuel Oil (dollars per gallon)	0.98	0.91	0.99	1.05	0.99	1.4
Kerosene (dollars per gallon)	1.15	1.19	1.13	1.20	1.14	1.8
LPG (dollars per gallon)	1.03	1.15	0.98	1.24	1.01	3.3
Million Households						
Number of Households, Where the End Use Is:						
Space Heating ⁴	99.7	47.4	18.0	18.4	15.9	4.1
Electric Air-Conditioning ⁵	72.6	33.1	13.1	14.8	11.5	4.4
Water Heating ⁶	100.8	47.8	18.2	18.6	16.2	4.1
Refrigerators	101.3	48.1	18.2	18.6	16.4	4.1
Appliances	101.5	48.2	18.2	18.6	16.5	4.1
Billion Dollars						
Total Expenditures, Where the End Use Is:						
Space Heating	42.03	17.54	8.46	8.17	7.86	4.4
Electric Air-Conditioning	10.20	4.58	1.48	2.61	1.53	6.3
Water Heating	19.76	8.57	3.60	3.74	3.86	3.9
Refrigerators	12.14	5.61	2.05	2.54	1.94	4.0
Other Appliances and Lighting	51.66	21.73	8.99	11.23	9.71	3.8
Dollars per Household³						
Total Expenditures per Household, Where the End Use Is:						
Space Heating	421	370	469	444	495	2.7
Electric Air-Conditioning	140	138	113	176	132	4.5
Water Heating	196	179	198	202	238	1.8
Refrigerators	120	117	113	137	118	2.2
Other Appliances and Lighting	509	451	494	604	590	2.0

¹ Based on the household respondent's description rather than the Federal Government definition.
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.
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 1997 Residential Energy Consumption Survey.

**Table CE1-9e. Total Energy Expenditures in U.S. Households
by Northeast Census Region, 1997**

	Northeast Census Region				RSE Row Factors
	Total U.S.	Census Division			
		Total	Middle Atlantic	New England	
			0.6	1.0	
RSE Column Factor:					
Million Households					
Total U.S. Households	101.5	19.7	14.4	5.3	NF
Number of Households, Fuels Used (more than one may apply):					
Electricity ¹	101.4	19.7	14.4	5.3	NF
Natural Gas	61.9	11.8	9.9	1.9	7.4
Fuel Oil	10.0	7.5	4.6	2.9	10.1
Kerosene	3.5	1.0	0.6	0.4	20.4
LPG	8.1	1.6	1.0	0.6	18.1
Wood	15.0	2.5	1.6	0.9	11.3
Billion Dollars					
Total Expenditures, Fuels Used:					
Electricity	88.33	17.04	12.50	4.54	2.8
Natural Gas	35.81	9.13	7.53	1.59	9.5
Fuel Oil	7.11	5.61	3.27	2.34	12.4
Kerosene	0.50	0.24	0.12	0.12	30.8
LPG	4.04	0.44	0.29	0.15	21.3
Total	135.79	32.45	23.70	8.75	1.6
Dollars per Household²					
Total Expenditures per Household, Fuels Used:					
Electricity	871	863	867	854	2.8
Natural Gas	579	772	763	819	3.5
Fuel Oil	714	752	708	822	4.6
Kerosene	144	251	195	342	18.1
LPG	500	281	301	250	16.1
Total	1,338	1,644	1,643	1,647	1.6
Dollars per Million Btu²					
Average Price of Btu Consumption, Fuels Used:					
Electricity	24.97	34.92	34.73	35.45	2.2
Natural Gas	6.78	8.89	8.78	9.41	1.3
Fuel Oil	7.05	6.96	6.87	7.09	NF
Kerosene	8.51	8.29	8.29	8.29	1.9
LPG	11.23	15.06	15.12	14.96	5.3
Total	13.25	13.64	13.73	13.41	1.6

See footnotes at end of table.

Table CE1-9e. Total Energy Expenditures in U.S. Households by Northeast Census Region, 1997 (Continued)

	Northeast Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.6	1.0	1.2	1.6	
Price per Physical Unit²					
Average Price of Physical Units of Consumption, Fuels Used:					
Electricity (cents per kWh)	8.5	11.9	11.8	12.1	2.2
Natural Gas (dollars per thousand cf)	6.96	9.13	9.02	9.67	1.3
Fuel Oil (dollars per gallon)	0.98	0.96	0.95	0.98	NF
Kerosene (dollars per gallon)	1.15	1.12	1.12	1.12	1.9
LPG (dollars per gallon)	1.03	1.38	1.38	1.37	5.3
Million Households					
Number of Households, Where the End Use Is:					
Space Heating ³	99.7	19.5	14.3	5.2	NF
Electric Air-Conditioning ⁴	72.6	12.2	9.7	2.5	4.2
Water Heating ⁵	100.8	19.6	14.3	5.3	0.7
Refrigerators	101.3	19.7	14.4	5.3	NF
Appliances	101.5	19.7	14.4	5.3	NF
Billion Dollars					
Total Expenditures, Where the End Use Is:					
Space Heating	42.03	12.83	9.18	3.65	1.9
Electric Air-Conditioning	10.20	0.90	0.77	0.13	7.5
Water Heating	19.76	4.56	3.26	1.30	2.0
Refrigerators	12.14	2.62	1.96	0.66	2.5
Other Appliances and Lighting	51.66	11.53	8.53	3.00	2.3
Dollars per Household²					
Total Expenditures per Household, Where the End Use Is:					
Space Heating	421	657	642	699	2.0
Electric Air-Conditioning	140	74	80	52	5.0
Water Heating	196	233	227	248	2.0
Refrigerators	120	133	136	124	2.5
Other Appliances and Lighting	509	584	591	566	2.3

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.

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 1997 Residential Energy Consumption Survey.

**Table CE1-10e. Total Energy Expenditures in U.S. Households,
by Midwest Census Region, 1997**

	Midwest Census Region				RSE Row Factors
	Total U.S.	Census Division			
		Total	East North Central	West North Central	
			0.5	1.0	
RSE Column Factor:	0.5	1.0	1.2	1.5	
Million Households					
Total U.S. Households	101.5	24.1	16.9	7.2	NF
Number of Households, Fuels Used (more than one may apply):					
Electricity ¹	101.4	24.1	16.9	7.2	NF
Natural Gas	61.9	18.5	13.7	4.9	5.0
Fuel Oil	10.0	1.1	0.6	0.4	17.5
Kerosene	3.5	0.4	0.4	Q	16.5
LPG	8.1	2.3	1.2	1.2	20.8
Wood	15.0	2.6	1.7	0.9	12.2
Billion Dollars					
Total Expenditures, Fuels Used:					
Electricity	88.33	18.21	12.73	5.48	3.8
Natural Gas	35.81	12.96	9.76	3.20	6.5
Fuel Oil	7.11	0.71	0.45	0.26	20.1
Kerosene	0.50	Q	Q	Q	33.0
LPG	4.04	1.68	0.99	0.69	19.9
Total	135.79	33.60	23.96	9.63	1.9
Dollars per Household²					
Total Expenditures per Household, Fuels Used:					
Electricity	871	757	753	766	3.8
Natural Gas	579	699	715	654	2.8
Fuel Oil	714	678	696	651	4.5
Kerosene	144	Q	Q	Q	25.4
LPG	500	726	857	596	8.7
Total	1,338	1,396	1,417	1,347	1.9
Dollars per Million Btu²					
Average Price of Btu Consumption, Fuels Used:					
Electricity	24.97	24.39	25.56	22.05	2.2
Natural Gas	6.78	5.89	5.83	6.10	1.5
Fuel Oil	7.05	6.86	7.05	6.56	1.6
Kerosene	8.51	9.01	8.96	Q	5.5
LPG	11.23	9.85	10.27	9.31	2.4
Total	13.25	10.42	10.25	10.86	2.8

See footnotes at end of table.

Table CE1-10e. Total Energy Expenditures in U.S. Households, by Midwest Census Region, 1997 (Continued)

	Midwest Census Region				RSE Row Factors
	Total U.S.	Census Division			
		Total	East North Central	West North Central	
			0.5	1.0	
RSE Column Factor:					
Price per Physical Unit²					
Average Price of Physical Units of Consumption, Fuels Used:					
Electricity (cents per kWh)	8.5	8.3	8.7	7.5	2.2
Natural Gas (dollars per thousand cf)	6.96	6.05	5.99	6.26	1.5
Fuel Oil (dollars per gallon)	0.98	0.95	0.98	0.91	1.6
Kerosene (dollars per gallon)	1.15	1.22	1.21	Q	5.5
LPG (dollars per gallon)	1.03	0.90	0.94	0.85	2.4
Million Households					
Number of Households, Where the End Use Is:					
Space Heating ³	99.7	23.8	16.8	7.0	0.7
Electric Air-Conditioning ⁴	72.6	18.6	12.4	6.3	2.2
Water Heating ⁵	100.8	23.9	16.8	7.1	NF
Refrigerators	101.3	24.0	16.9	7.1	NF
Appliances	101.5	24.1	16.9	7.2	NF
Billion Dollars					
Total Expenditures, Where the End Use Is:					
Space Heating	42.03	13.03	9.38	3.65	2.5
Electric Air-Conditioning	10.20	1.52	0.95	0.56	5.3
Water Heating	19.76	4.28	2.99	1.29	3.2
Refrigerators	12.14	2.61	1.87	0.74	2.6
Other Appliances and Lighting	51.66	12.16	8.77	3.39	2.7
Dollars per Household²					
Total Expenditures per Household, Where the End Use Is:					
Space Heating	421	548	560	519	2.6
Electric Air-Conditioning	140	81	77	90	4.6
Water Heating	196	179	178	182	3.2
Refrigerators	120	109	111	103	2.6
Other Appliances and Lighting	509	506	519	474	2.7

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.
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 1997 Residential Energy Consumption Survey.

**Table CE1-11e. Total Energy Expenditures in U.S. Households
by South Census Region, 1993**

	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	1.3	1.6	
Million Households						
Total U.S. Households	101.5	35.9	18.7	6.3	10.8	NF
Number of Households, Fuels Used (more than one may apply):						
Electricity ¹	101.4	35.9	18.7	6.3	10.8	NF
Natural Gas	61.9	16.4	6.4	2.7	7.3	7.1
Fuel Oil	10.0	1.2	1.1	Q	Q	28.6
Kerosene	3.5	1.9	1.3	0.4	Q	16.1
LPG	8.1	3.2	1.6	1.1	0.5	18.3
Wood	15.0	5.7	3.3	1.1	1.3	9.1
Billion Dollars						
Total Expenditures, Fuels Used:						
Electricity	88.33	37.24	19.74	5.99	11.52	3.3
Natural Gas	35.81	8.16	3.68	1.27	3.21	8.9
Fuel Oil	7.11	0.62	0.60	Q	Q	29.4
Kerosene	0.50	0.19	0.15	0.04	Q	24.6
LPG	4.04	1.44	0.71	0.49	0.24	19.4
Total	135.79	47.65	24.87	7.80	14.97	2.3
Dollars per Household²						
Total Expenditures per Household, Fuels Used:						
Electricity	871	1,038	1,056	944	1,063	3.3
Natural Gas	579	496	572	475	437	5.0
Fuel Oil	714	530	528	Q	Q	6.8
Kerosene	144	102	114	88	Q	23.9
LPG	500	445	432	453	466	6.1
Total	1,338	1,328	1,330	1,230	1,381	2.3
Dollars per Million Btu²						
Average Price of Btu Consumption, Fuels Used:						
Electricity	24.97	22.33	23.66	18.58	22.53	2.0
Natural Gas	6.78	7.24	8.62	6.86	6.24	3.8
Fuel Oil	7.05	8.01	8.09	Q	Q	1.5
Kerosene	8.51	8.75	8.69	8.67	Q	1.8
LPG	11.23	12.34	13.52	11.71	10.78	3.3
Total	13.25	15.83	17.71	14.03	14.28	3.3

See footnotes at end of table.

Table CE1-11e. Total Energy Expenditures in U.S. Households by South Census Region, 1993 (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	1.3	1.6	
Price per Physical Unit²						
Average Price of Physical Units of Consumption, Fuels Used:						
Electricity (cents per kWh)	8.5	7.6	8.1	6.3	7.7	2.0
Natural Gas (dollars per thousand cf)	6.96	7.44	8.85	7.05	6.41	3.8
Fuel Oil (dollars per gallon)	0.98	1.11	1.12	Q	Q	1.5
Kerosene (dollars per gallon)	1.15	1.18	1.17	1.17	Q	1.8
LPG (dollars per gallon)	1.03	1.13	1.23	1.07	0.98	3.3
Million Households						
Number of Households, Where the End Use Is:						
Space Heating ³	99.7	35.4	18.3	6.3	10.8	NF
Electric Air-Conditioning ⁴	72.6	33.2	17.2	6.0	10.0	1.6
Water Heating ⁵	100.8	35.7	18.5	6.3	10.8	NF
Refrigerators	101.3	35.8	18.7	6.3	10.8	NF
Appliances	101.5	35.9	18.7	6.3	10.8	NF
Billion Dollars						
Total Expenditures, Where the End Use Is:						
Space Heating	42.03	11.10	5.88	2.25	2.97	4.5
Electric Air-Conditioning	10.20	6.67	3.36	0.80	2.51	5.1
Water Heating	19.76	7.25	3.98	1.25	2.02	2.7
Refrigerators	12.14	4.41	2.21	0.67	1.53	2.9
Other Appliances and Lighting	51.66	18.21	9.44	2.84	5.93	2.7
Dollars per Household²						
Total Expenditures per Household, Where the End Use Is:						
Space Heating	421	314	321	358	275	4.5
Electric Air-Conditioning	140	201	195	133	251	4.7
Water Heating	196	203	215	197	187	2.7
Refrigerators	120	123	118	105	141	2.9
Other Appliances and Lighting	509	508	505	448	548	2.7

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.

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 1997 Residential Energy Consumption Survey.

**Table CE1-12e. Total Energy Expenditures in U.S. Households
by West Census Region, 1997**

	West Census Region				RSE Row Factors
	Total U.S.	Census Division			
		Total	Mountain	Pacific	
			0.4	1.1	
RSE Column Factor:	0.4	1.1	1.7	1.2	
Million Households					
Total U.S. Households	101.5	21.8	6.2	15.6	NF
Number of Households, Fuels Used (more than one may apply):					
Electricity ¹	101.4	21.8	6.2	15.6	NF
Natural Gas	61.9	15.1	4.4	10.7	2.5
Fuel Oil	10.0	0.3	Q	0.2	25.4
Kerosene	3.5	0.2	Q	Q	21.7
LPG	8.1	1.0	0.4	0.6	18.2
Wood	15.0	4.2	1.1	3.1	9.2
Billion Dollars					
Total Expenditures, Fuels Used:					
Electricity	88.33	15.84	4.46	11.38	2.8
Natural Gas	35.81	5.57	1.83	3.75	5.3
Fuel Oil	7.11	0.17	Q	0.13	32.1
Kerosene	0.50	0.04	Q	Q	31.0
LPG	4.04	0.48	0.23	0.25	22.1
Total	135.79	22.10	6.56	15.54	2.5
Dollars per Household²					
Total Expenditures per Household, Fuels Used:					
Electricity	871	727	722	730	2.8
Natural Gas	579	369	412	351	3.7
Fuel Oil	714	608	Q	659	19.8
Kerosene	144	170	Q	Q	27.4
LPG	500	497	614	424	9.9
Total	1,338	1,013	1,062	994	2.5
Dollars per Million Btu²					
Average Price of Btu Consumption, Fuels Used:					
Electricity	24.97	24.94	22.46	26.07	1.5
Natural Gas	6.78	6.00	5.18	6.50	1.8
Fuel Oil	7.05	8.11	Q	8.50	9.9
Kerosene	8.51	8.33	Q	Q	2.9
LPG	11.23	11.09	9.79	12.59	5.0
Total	13.25	13.54	11.30	14.77	2.1

See footnotes at end of table.

Table CE1-12e. Total Energy Expenditures in U.S. Households by West Census Region, 1997 (Continued)

	West Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.4	1.1	1.7	1.2	
Price per Physical Unit²					
Average Price of Physical Units of Consumption, Fuels Used:					
Electricity (cents per kWh)	8.5	8.5	7.7	8.9	1.5
Natural Gas (dollars per thousand cf)	6.96	6.16	5.32	6.67	1.8
Fuel Oil (dollars per gallon)	0.98	1.12	Q	1.18	9.8
Kerosene (dollars per gallon)	1.15	1.12	Q	Q	2.9
LPG (dollars per gallon)	1.03	1.01	0.89	1.15	5.0
Million Households					
Number of Households, Where the End Use Is:					
Space Heating ³	99.7	21.0	6.1	14.9	NF
Electric Air-Conditioning ⁴	72.6	8.7	2.9	5.7	6.9
Water Heating ⁵	100.8	21.6	6.1	15.5	NF
Refrigerators	101.3	21.7	6.2	15.6	NF
Appliances	101.5	21.8	6.2	15.6	NF
Billion Dollars					
Total Expenditures, Where the End Use Is:					
Space Heating	42.03	5.07	1.83	3.24	3.1
Electric Air-Conditioning	10.20	1.11	0.48	0.63	10.0
Water Heating	19.76	3.67	0.96	2.71	2.5
Refrigerators	12.14	2.50	0.63	1.87	3.0
Other Appliances and Lighting	51.66	9.76	2.67	7.09	3.2
Dollars per Household²					
Total Expenditures per Household, Where the End Use Is:					
Space Heating	421	241	299	217	3.2
Electric Air-Conditioning	140	128	161	111	9.1
Water Heating	196	169	157	174	2.4
Refrigerators	120	115	102	120	3.0
Other Appliances and Lighting	509	448	432	454	3.2

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.
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 1997 Residential Energy Consumption Survey.