

1997 Consumption and Expenditures Tables

Total Consumption Tables

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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.

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Table CE1-1c. Total Energy Consumption 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	1.6	1.1	1.1	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
Quadrillion Btu							
Total Btu Consumption, Fuels Used:							
Electricity							
Primary	10.72	0.88	2.53	2.43	1.88	3.00	8.1
Site	3.54	0.29	0.83	0.80	0.62	0.99	8.1
Natural Gas	5.28	0.56	2.26	1.07	0.72	0.67	10.6
Fuel Oil	1.01	0.22	0.35	0.42	0.02	Q	19.4
Kerosene	0.06	0.02	0.01	0.01	0.02	(*)	28.7
LPG	0.36	0.05	0.12	0.08	0.07	0.04	27.4
Wood	0.43	0.15	0.08	0.09	0.06	0.04	15.7
Total (excludes primary electricity and wood)	10.25	1.14	3.58	2.37	1.45	1.70	7.7
Physical Units							
Physical Units of Total Consumption, Fuels Used:							
Electricity (billion kWh)	1,037	85	245	235	182	290	8.1
Natural Gas (billion cf)	5,143	545	2,204	1,039	705	650	10.6
Fuel Oil (million gallons)	7,273	1,580	2,558	3,004	114	Q	19.4
Kerosene (million gallons)	437	120	98	80	124	15	28.7
LPG (million gallons)	3,937	584	1,293	866	782	412	27.4
Wood (million cords)	21.4	7.7	3.9	4.6	3.2	2.0	15.7
Million Btu per Household³							
Total Btu Consumption per Household, Fuels Used:							
Electricity							
Primary	105.6	95.5	90.2	107.9	96.5	135.1	3.3
Site	34.9	31.5	29.8	35.6	31.8	44.6	3.3
Natural Gas	85.3	109.7	113.3	84.1	57.1	58.2	3.7
Fuel Oil	101.2	109.0	113.1	94.0	60.6	Q	5.9
Kerosene	17.0	38.4	16.3	12.1	17.6	5.1	22.0
LPG	44.6	37.4	60.8	48.3	41.9	27.7	12.8
Wood	28.5	76.3	24.3	26.0	19.2	13.8	11.4
Total (excludes primary electricity and wood)	101.0	123.1	127.8	105.5	74.3	76.6	2.9

See footnotes at end of table.

Table CE1-1c. Total Energy Consumption 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	1.6	1.1	1.1	1.2	1.1	
Physical Units per Household³							
Physical Units of Total Consumption per Household, Fuels Used:							
Electricity (kWh)	10,219	9,235	8,727	10,437	9,334	13,072	3.3
Natural Gas (thousand cf)	83	107	110	82	56	57	3.7
Fuel Oil (gallons)	730	787	816	678	437	Q	5.9
Kerosene (gallons)	126	284	121	90	130	38	22.0
LPG (gallons)	488	410	666	529	458	304	12.8
Wood (cords)	1.4	3.8	1.2	1.3	1.0	0.7	11.4
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	8.0
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
Quadrillion Btu							
Total Btu Consumption, Where the End Use Is:							
Space Heating	5.18	0.71	2.17	1.30	0.54	0.47	9.4
Electric Air-Conditioning	0.42	0.01	0.05	0.07	0.07	0.22	11.0
Water Heating	1.92	0.18	0.61	0.43	0.35	0.34	7.3
Refrigerators	0.46	0.04	0.11	0.10	0.08	0.13	7.2
Other Appliances and Lighting	2.27	0.20	0.64	0.48	0.40	0.54	7.4
Million Btu per Household³							
Total Btu Consumption per Household, Where the End Use Is:							
Space Heating	52.0	79.4	78.0	58.3	27.9	21.9	4.9
Electric Air-Conditioning	5.7	2.2	2.6	4.1	5.8	11.0	5.0
Water Heating	19.0	19.7	21.8	19.2	18.3	15.7	2.9
Refrigerators	4.5	3.9	4.1	4.3	4.3	5.8	2.3
Other Appliances and Lighting	22.4	21.9	22.9	21.4	20.6	24.4	2.5

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.

(*) = Value rounds to zero in the units displayed.

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 CE1-2c. Total Energy Consumption 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	1.8	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
Quadrillion Btu								
Total Btu Consumption, Fuels Used:								
Electricity								
Primary	10.72	1.25	2.23	2.42	1.41	1.17	2.23	4.5
Site	3.54	0.41	0.74	0.80	0.47	0.39	0.74	4.5
Natural Gas	5.28	0.43	0.56	0.74	0.73	0.77	2.05	7.3
Fuel Oil	1.01	0.03	0.06	0.09	0.14	0.15	0.54	16.8
Kerosene	0.06	(*)	0.01	0.01	0.01	(*)	0.03	30.5
LPG	0.36	0.04	0.05	0.07	0.04	0.02	0.13	16.9
Wood	0.43	0.03	0.08	0.08	0.06	0.03	0.15	15.0
Total (excludes primary electricity and wood)	10.25	0.92	1.41	1.71	1.39	1.33	3.48	4.5
Physical Units								
Physical Units of Total Consumption, Fuels Used:								
Electricity (billion kWh)	1,037	121	215	234	137	113	216	4.5
Natural Gas (billion cf)	5,143	418	545	724	712	747	1,998	7.3
Fuel Oil (million gallons)	7,273	214	439	657	1,001	1,093	3,869	16.7
Kerosene (million gallons)	437	26	53	83	45	30	200	30.5
LPG (million gallons)	3,937	465	556	716	492	249	1,460	16.9
Wood (million cords)	21.4	1.5	3.8	4.1	2.9	1.5	7.5	15.0
Million Btu per Household³								
Total Btu Consumption per Household, Fuels Used:								
Electricity								
Primary	105.6	129.3	128.7	123.8	97.8	93.4	80.0	2.7
Site	34.9	42.7	42.5	40.9	32.3	30.8	26.4	2.7
Natural Gas	85.3	82.1	74.2	78.5	76.1	83.6	98.2	3.6
Fuel Oil	101.2	98.1	103.2	88.4	89.6	99.7	107.9	7.1
Kerosene	17.0	19.7	14.2	14.9	15.5	14.3	19.7	26.5
LPG	44.6	48.3	43.6	38.6	40.9	31.0	53.3	10.2
Wood	28.5	18.9	21.0	23.9	26.8	23.1	53.2	12.4
Total (excludes primary electricity and wood)	101.0	94.6	81.7	87.4	96.0	106.1	124.8	2.4

See footnotes at end of table.

Table CE1-2c. Total Energy Consumption 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	1.8	1.3	1.0	1.1	1.1	0.8	
Physical Units per Household³								
Physical Units of Total Consumption per Household, Fuels Used:								
Electricity (kWh)	10,219	12,512	12,449	11,976	9,459	9,033	7,735	2.7
Natural Gas (thousand cf)	83	80	72	76	74	81	96	3.6
Fuel Oil (gallons)	730	707	744	637	647	720	779	7.1
Kerosene (gallons)	126	146	105	110	115	106	146	26.5
LPG (gallons)	488	529	478	422	447	339	584	10.2
Wood (cords)	1.4	0.9	1.1	1.2	1.3	1.2	2.7	12.4
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
Quadrillion Btu								
Total Btu Consumption, Where the End Use Is:								
Space Heating	5.18	0.38	0.53	0.75	0.69	0.70	2.14	5.6
Electric Air-Conditioning	0.42	0.06	0.11	0.10	0.05	0.04	0.05	7.1
Water Heating	1.92	0.18	0.29	0.33	0.28	0.25	0.58	4.7
Refrigerators	0.46	0.04	0.08	0.09	0.07	0.06	0.11	4.4
Other Appliances and Lighting	2.27	0.25	0.40	0.44	0.30	0.28	0.59	4.4
Million Btu per Household³								
Total Btu Consumption per Household, Where the End Use Is:								
Space Heating	52.0	39.3	30.8	39.1	48.7	56.2	78.4	3.9
Electric Air-Conditioning	5.7	7.4	7.4	6.5	5.4	4.8	3.3	5.3
Water Heating	19.0	19.0	17.1	17.2	19.2	20.2	21.0	2.7
Refrigerators	4.5	4.5	4.9	4.7	4.6	4.7	4.0	2.4
Other Appliances and Lighting	22.4	26.1	23.1	22.5	21.0	22.4	21.3	2.4

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.

(*) = Value rounds to zero in the units displayed.

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 CE1-3c. Total Energy Consumption 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	1.6	1.0	0.8	1.0	1.4	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
Quadrillion Btu								
Total Btu Consumption, Fuels Used:								
Electricity								
Primary	10.72	1.01	2.69	3.27	3.74	1.24	2.98	3.6
Site	3.54	0.33	0.89	1.08	1.24	0.41	0.99	3.6
Natural Gas	5.28	0.53	1.30	1.65	1.80	0.63	1.53	5.5
Fuel Oil	1.01	0.11	0.22	0.31	0.37	0.11	0.30	11.5
Kerosene	0.06	0.01	0.02	0.02	0.01	0.01	0.03	23.5
LPG	0.36	0.04	0.11	0.13	0.08	0.04	0.12	15.3
Wood	0.43	0.03	0.10	0.14	0.15	0.04	0.12	14.3
Total (excludes primary electricity and wood)	10.25	1.02	2.54	3.19	3.49	1.22	2.96	3.2
Physical Units								
Physical Units of Total Consumption, Fuels Used:								
Electricity (billion kWh)	1,037	98	260	317	362	120	289	3.6
Natural Gas (billion cf)	5,143	516	1,270	1,604	1,752	618	1,490	5.5
Fuel Oil (million gallons)	7,273	761	1,598	2,262	2,653	811	2,138	11.5
Kerosene (million gallons)	437	67	161	154	54	98	193	23.5
LPG (million gallons)	3,937	412	1,177	1,428	920	484	1,286	15.3
Wood (million cords)	21.4	1.7	4.9	7.1	7.6	2.1	6.1	14.3
Million Btu per Household³								
Total Btu Consumption per Household, Fuels Used:								
Electricity								
Primary	105.6	76.2	92.3	105.2	134.1	85.1	87.7	2.5
Site	34.9	25.2	30.5	34.7	44.3	28.1	28.9	2.5
Natural Gas	85.3	66.4	76.7	86.9	100.3	69.4	75.0	3.1
Fuel Oil	101.2	81.3	87.9	99.4	123.1	80.8	86.5	4.9
Kerosene	17.0	22.3	17.5	17.5	11.5	21.2	18.8	19.7
LPG	44.6	36.3	44.1	48.6	43.9	38.2	42.2	9.9
Wood	28.5	49.9	33.4	30.7	22.7	38.9	40.4	12.4
Total (excludes primary electricity and wood)	101.0	76.4	87.3	102.6	125.2	83.0	86.7	2.1

See footnotes at end of table.

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

	1997 Household Income					Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
	Total	Less than \$10,000	\$10,000 to \$24,999	\$25,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.6	1.0	0.8	1.0	1.4	1.0	
Physical Units per Household³								
Physical Units of Total Consumption per Household, Fuels Used:								
Electricity (kWh)	10,219	7,372	8,926	10,173	12,974	8,229	8,482	2.5
Natural Gas (thousand cf)	83	65	75	85	98	68	73	3.1
Fuel Oil (gallons)	730	587	634	717	888	583	624	4.9
Kerosene (gallons)	126	166	130	130	85	157	140	19.7
LPG (gallons)	488	398	483	533	480	418	462	9.9
Wood (cords)	1.4	2.5	1.7	1.5	1.1	1.9	2.0	12.4
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	2.7
Appliances	101.5	13.3	29.1	31.1	27.9	14.6	34.1	2.7
Quadrillion Btu								
Total Btu Consumption, Where the End Use Is:								
Space Heating	5.18	0.52	1.31	1.64	1.71	0.58	1.48	4.1
Electric Air-Conditioning	0.42	0.04	0.10	0.12	0.16	0.04	0.10	6.0
Water Heating	1.92	0.21	0.48	0.59	0.64	0.27	0.61	3.3
Refrigerators	0.46	0.05	0.12	0.14	0.15	0.06	0.13	3.2
Other Appliances and Lighting	2.27	0.21	0.53	0.71	0.83	0.27	0.63	3.2
Million Btu per Household³								
Total Btu Consumption per Household, Where the End Use Is:								
Space Heating	52.0	40.4	45.9	53.4	62.0	41.3	44.9	3.5
Electric Air-Conditioning	5.7	4.6	5.0	5.1	7.3	4.9	4.8	4.8
Water Heating	19.0	15.8	16.6	19.1	23.1	18.8	18.1	2.3
Refrigerators	4.5	3.8	4.1	4.4	5.5	3.8	3.9	1.9
Other Appliances and Lighting	22.4	15.4	18.4	22.7	29.6	18.5	18.6	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 CE1-4c. Total Energy Consumption 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	2.0	1.3	1.6	
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	13.6
Kerosene	3.5	2.7	Q	Q	0.6	16.1
LPG	8.1	6.2	Q	Q	1.7	15.4
Wood	15.0	14.0	Q	0.2	0.7	13.4
Quadrillion Btu						
Total Btu Consumption, Fuels Used:						
Electricity						
Primary	10.72	8.59	0.38	0.98	0.77	4.5
Site	3.54	2.84	0.12	0.32	0.25	4.5
Natural Gas	5.28	4.46	0.34	0.32	0.16	7.9
Fuel Oil	1.01	0.83	0.05	0.12	Q	16.0
Kerosene	0.06	0.04	Q	Q	0.02	28.0
LPG	0.36	0.29	Q	Q	0.06	17.6
Wood	0.43	0.39	Q	(*)	0.03	20.6
Total (excludes primary electricity and wood)	10.25	8.46	0.51	0.77	0.50	4.2
Physical Units						
Physical Units of Total Consumption, Fuels Used:						
Electricity (billion kWh)	1,037	831	37	95	74	4.5
Natural Gas (billion cf)	5,143	4,342	328	315	158	7.9
Fuel Oil (million gallons)	7,273	6,024	348	857	Q	16.0
Kerosene (million gallons)	437	273	Q	Q	139	28.0
LPG (million gallons)	3,937	3,196	Q	Q	683	17.6
Wood (million cords)	21.4	19.3	Q	0.1	1.5	20.6
Million Btu per Household²						
Total Btu Consumption per Household, Fuels Used:						
Electricity						
Primary	105.6	116.6	67.2	61.9	121.4	2.9
Site	34.9	38.5	22.2	20.4	40.1	2.9
Natural Gas	85.3	94.9	87.8	36.8	69.8	3.8
Fuel Oil	101.2	111.0	101.0	64.6	Q	5.8
Kerosene	17.0	13.5	Q	Q	32.3	22.0
LPG	44.6	47.0	Q	Q	36.6	9.5
Wood	28.5	27.7	Q	5.8	45.0	14.9
Total (excludes primary electricity and wood)	101.0	114.7	91.5	48.6	79.5	2.6

See footnotes at end of table.

Table CE1-4c. Total Energy Consumption 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	2.0	1.3	1.6	
Physical Units per Household²						
Physical Units of Total Consumption per Household, Fuels Used:						
Electricity (kWh)	10,219	11,278	6,505	5,990	11,739	2.9
Natural Gas (thousand cf)	83	92	85	36	68	3.8
Fuel Oil (gallons)	730	801	728	466	Q	5.8
Kerosene (gallons)	126	100	Q	Q	239	22.0
LPG (gallons)	488	515	Q	Q	401	9.5
Wood (cords)	1.4	1.4	Q	0.3	2.3	14.9
Million Households						
Number of Households, Where the End Use Is:						
Space Heating ³	99.7	72.7	5.6	15.3	6.1	4.0
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
Quadrillion Btu						
Total Btu Consumption, Where the End Use Is:						
Space Heating	5.18	4.39	0.30	0.26	0.23	5.7
Electric Air-Conditioning	0.42	0.33	0.01	0.04	0.03	7.5
Water Heating	1.92	1.48	0.10	0.24	0.09	4.4
Refrigerators	0.46	0.37	0.02	0.05	0.02	3.9
Other Appliances and Lighting	2.27	1.89	0.08	0.18	0.13	3.8
Million Btu per Household²						
Total Btu Consumption per Household, Where the End Use Is:						
Space Heating	52.0	60.4	54.2	16.9	37.0	4.6
Electric Air-Conditioning	5.7	6.1	3.3	3.7	7.5	5.7
Water Heating	19.0	20.2	18.0	15.8	14.2	3.0
Refrigerators	4.5	5.0	3.4	3.1	3.9	2.0
Other Appliances and Lighting	22.4	25.6	14.2	11.2	20.5	2.0

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.

(*) = Value rounds to zero in the units displayed.

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 CE1-5u. Total Energy Consumption and Expenditures in U.S. Households by Household Demographics, 1997

Household Demographics	Total End-Use Energy					RSE Row Factors
	Households (millions)	Total		Per Household		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	
RSE Column Factor:	1.1	1.4	1.3	0.8	0.6	
Total	101.5	10.25	135.79	101.0	1,338	1.2
Household Size						
1 Person	25.6	1.91	24.59	74.7	962	2.3
2 Persons	33.0	3.34	44.42	101.2	1,347	2.0
3 Persons	17.4	1.91	25.61	109.5	1,471	2.5
4 Persons	15.2	1.79	23.94	117.7	1,571	2.8
5 Persons	6.4	0.80	10.53	123.9	1,640	4.8
6 or More Persons	3.9	0.50	6.71	129.6	1,734	6.5
1997 Household Income Category						
Less than \$5,000	3.8	0.30	3.85	81.3	1,028	6.5
\$5,000 to \$9,999	9.6	0.71	9.41	74.4	985	5.1
\$10,000 to \$14,999	10.3	0.86	10.97	83.2	1,063	4.4
\$15,000 to \$19,999	10.4	0.91	12.29	87.6	1,182	3.9
\$20,000 to \$24,999	8.4	0.77	10.39	91.7	1,233	3.7
\$25,000 to \$34,999	15.6	1.53	19.94	98.0	1,276	3.0
\$35,000 to \$49,999	15.5	1.66	21.61	107.1	1,394	2.5
\$50,000 to \$74,999	16.4	1.96	26.25	119.1	1,599	3.2
\$75,000 or More	11.5	1.54	21.08	133.9	1,835	4.1
Below Poverty Line						
100 Percent	14.6	1.22	15.95	83.0	1,088	3.5
125 Percent	19.7	1.63	21.56	82.9	1,096	3.4
150 Percent	26.7	2.25	29.85	84.2	1,117	2.8
Eligible for Federal Assistance¹						
.....	34.1	2.96	38.86	86.7	1,140	2.5
Age of Householder						
Under 25 Years	5.7	0.39	5.52	69.7	974	5.3
25 to 34 Years	18.5	1.63	21.93	87.7	1,184	2.9
35 to 44 Years	23.2	2.49	33.40	107.4	1,441	2.3
45 to 59 Years	25.6	2.90	38.89	113.4	1,519	2.1
60 Years and Over	28.5	2.83	36.05	99.4	1,265	2.6
Race of Householder						
White	78.5	8.16	108.12	103.9	1,378	1.4
Black	12.7	1.34	17.16	105.3	1,351	4.6
Other ²	10.3	0.75	10.51	72.8	1,020	4.9
Householder of Hispanic Descent						
Yes	9.4	0.72	10.27	75.9	1,089	4.7
No	92.1	9.53	125.52	103.5	1,364	1.3

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

² Includes 5.5 million householders who described themselves as Hispanic rather than White, Black, or other.

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 CE1-6u. Total Energy Consumption and Expenditures in U.S. Households by Usage Indicators, 1997

Usage Indicators	Total End-Use Energy					RSE Row Factors
	Households (million)	Total		Per Household		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	
	RSE Column Factor:	1.2	1.4	1.3	0.8	
Total	101.5	10.25	135.79	101.0	1,338	1.2
Household Size						
1 Person	25.6	1.91	24.59	74.7	962	2.3
2 Persons	33.0	3.34	44.42	101.2	1,347	2.0
3 Persons	17.4	1.91	25.61	109.5	1,471	2.5
4 Persons	15.2	1.79	23.94	117.7	1,571	2.8
5 Persons	6.4	0.80	10.53	123.9	1,640	4.8
6 or More Persons	3.9	0.50	6.71	129.6	1,734	6.5
Weekday Home Activities						
Home Used for Business						
Yes	7.4	0.84	11.24	114.4	1,528	5.2
No	94.1	9.40	124.55	99.9	1,323	1.2
Energy-Intensive Activity						
Yes	2.4	0.29	4.00	121.4	1,664	7.6
No	99.1	9.95	131.80	100.5	1,330	1.2
Someone Home All Day						
Yes	51.3	5.48	72.18	106.7	1,406	1.8
No	50.1	4.77	63.61	95.1	1,268	1.8
Estimated Heated Floorspace Category (square feet)¹						
Fewer than 600	7.9	0.48	6.45	61.1	818	4.9
600 to 999	21.5	1.66	22.15	77.4	1,031	3.2
1,000 to 1,599	30.4	2.96	39.36	97.4	1,297	2.5
1,600 to 1,999	15.3	1.78	23.59	116.6	1,543	2.8
2,000 to 2,399	7.9	0.98	13.16	124.3	1,669	3.8
2,400 to 2,999	5.3	0.73	9.80	137.7	1,836	4.9
3,000 or More	4.1	0.72	9.44	175.2	2,288	6.7
No Estimate Provided	9.1	0.93	11.85	101.5	1,299	4.9
Winter Temperature Settings						
Lower When No One Home						
Yes	45.5	4.54	60.17	99.9	1,323	1.9
No	56.0	5.70	75.62	101.8	1,350	1.6
Lower During Sleeping Hours						
Yes	47.4	4.82	63.73	101.6	1,343	1.9
No	54.0	5.43	72.06	100.4	1,334	1.6
Use a Secondary Heating Fuel						
Yes	34.3	3.97	52.68	116.0	1,538	2.5
No	66.5	6.24	82.40	94.0	1,240	1.7
Adequacy of Insulation						
Well Insulated	38.0	3.75	51.60	98.6	1,357	2.2
Adequately Insulated	44.4	4.56	59.87	102.5	1,347	1.9
Poorly Insulated	18.5	1.90	23.78	103.0	1,287	3.1
Central Air-Conditioning Use						
All Summer	24.6	2.41	36.59	97.9	1,485	3.0
Quite a Bit	10.4	1.07	14.69	103.1	1,410	4.1
Only a Few Times	12.4	1.28	16.77	103.5	1,355	4.4
No Central System	53.7	5.46	67.41	101.6	1,255	2.0

See footnotes at end of table.

Table CE1-6u. Total Energy Consumption and Expenditures in U.S. Households by Usage Indicators, 1997 (Continued)

Usage Indicators	Total End-Use Energy					RSE Row Factors
	Households (million)	Total		Per Household		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	
RSE Column Factor:	1.2	1.4	1.3	0.8	0.6	
Room Air-Conditioning Use						
All Summer	5.7	0.54	7.58	96.3	1,341	6.2
Quite a Bit	6.6	0.75	9.33	113.3	1,412	4.6
Only a Few Times	13.5	1.45	18.22	107.5	1,348	3.8
No Room Units	75.0	7.42	99.73	99.0	1,330	1.5
Use a Dishwasher						
Yes	50.9	5.58	76.73	109.6	1,507	1.8
No	50.6	4.66	59.07	92.2	1,168	2.0
Use a Clothes Washer						
Yes	78.5	8.82	116.43	112.3	1,482	1.2
No	22.9	1.43	19.36	62.2	844	3.4
Use a Clothes Dryer						
Yes	72.2	8.21	108.54	113.7	1,503	1.4
No	29.3	2.03	27.25	69.5	931	2.9
Use Two or More Refrigerators						
Yes	15.4	2.08	27.32	135.0	1,776	2.8
No	86.1	8.17	108.47	94.9	1,260	1.3
Outdoor Lights on all Night						
Yes	26.3	2.85	38.33	108.2	1,457	2.5
No	75.2	7.40	97.46	98.4	1,297	1.5
Utilities Paid by Household						
All Major Fuels²						
Yes	89.7	9.36	125.30	104.3	1,397	1.3
No	11.8	0.89	10.49	75.3	892	4.4
Electricity						
Yes	96.2	9.90	131.54	103.0	1,368	1.1
No	5.3	0.34	4.25	65.0	806	7.4
Natural Gas						
Yes	53.3	6.59	75.93	123.5	1,424	2.1
No	8.6	0.68	7.63	78.8	888	5.0
Fuel Oil						
Yes	7.6	1.11	14.18	145.8	1,859	5.9
No	2.3	0.21	2.43	91.9	1,041	8.0
LPG						
Yes	7.9	0.82	12.57	103.8	1,592	5.9
No	0.2	0.02	0.20	88.5	1,146	20.7
Kerosene						
Yes	3.5	0.35	5.02	100.5	1,443	6.7
No	Q	Q	Q	Q	Q	NF

¹ Estimates provided by the household interview respondents, who were asked which category best described the total heated floorspace in the home.

² The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (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 CE1-7c. Total Energy Consumption in U.S. Households
by Four Most Populated States, 1997**

	Four Most Populated States					RSE Row Factors
	Total U.S.	New York	California	Texas	Florida	
	0.4	1.3	1.0	1.5	1.5	
RSE Column Factor:						
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	17.8
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
Quadrillion Btu						
Total Btu Consumption, Fuels Used:						
Electricity						
Primary	10.72	0.41	0.72	1.01	0.87	4.7
Site	3.54	0.14	0.24	0.33	0.29	4.7
Natural Gas	5.28	0.39	0.47	0.32	0.03	8.3
Fuel Oil	1.01	0.30	Q	Q	Q	22.7
Kerosene	0.06	Q	Q	Q	Q	47.3
LPG	0.36	0.01	0.02	0.02	(*)	26.8
Wood	0.43	0.08	0.04	0.01	Q	13.4
Total (excludes primary electricity and wood)	10.25	0.84	0.73	0.67	0.33	3.8
Physical Units						
Physical Units of Total Consumption, Fuels Used:						
Electricity (billion kWh)	1,037	40	70	98	84	4.7
Natural Gas (billion cf)	5,143	379	459	311	30	8.3
Fuel Oil (million gallons)	7,273	2,163	Q	Q	Q	22.7
Kerosene (million gallons)	437	Q	Q	Q	Q	47.3
LPG (million gallons)	3,937	102	183	178	44	26.8
Wood (million cords)	21.4	4.2	1.9	0.5	Q	13.4
Million Btu per Household²						
Total Btu Consumption per Household, Fuels Used:						
Electricity						
Primary	105.6	60.8	62.9	145.4	146.9	4.7
Site	34.9	20.1	20.8	48.0	48.5	4.7
Natural Gas	85.3	75.9	48.6	67.8	27.2	6.2
Fuel Oil	101.2	103.0	Q	Q	Q	8.7
Kerosene	17.0	45.1	Q	Q	Q	26.3
LPG	44.6	16.8	39.1	49.1	10.5	18.7
Wood	28.5	100.0	17.9	12.7	9.6	14.6
Total (excludes primary electricity and wood)	101.0	123.4	63.9	96.1	54.9	3.8

See footnotes at end of table.

Table CE1-7c. Total Energy Consumption 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	1.3	1.0	1.5	1.5	
Physical Units per Household²						
Physical Units of Total Consumption per Household, Fuels Used:						
Electricity (kWh)	10,219	5,879	6,087	14,062	14,210	4.7
Natural Gas (thousand cf)	83	74	47	66	26	6.2
Fuel Oil (gallons)	730	743	Q	Q	Q	8.7
Kerosene (gallons)	126	334	Q	Q	Q	26.3
LPG (gallons)	488	184	429	538	115	18.7
Wood (cords)	1.4	5.0	0.9	0.6	0.5	14.6
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
Quadrillion Btu						
Total Btu Consumption, Where the End Use Is:						
Space Heating	5.18	0.52	0.22	0.21	0.03	8.7
Electric Air-Conditioning	0.42	0.01	0.02	0.07	0.07	10.0
Water Heating	1.92	0.17	0.24	0.14	0.06	4.2
Refrigerators	0.46	0.02	0.04	0.04	0.03	3.5
Other Appliances and Lighting	2.27	0.12	0.22	0.20	0.14	4.1
Million Btu per Household²						
Total Btu Consumption per Household, Where the End Use Is:						
Space Heating	52.0	76.9	19.5	30.5	4.6	8.8
Electric Air-Conditioning	5.7	1.8	3.6	11.6	13.1	7.8
Water Heating	19.0	25.1	20.7	20.5	9.8	4.2
Refrigerators	4.5	3.3	3.9	6.4	5.8	3.5
Other Appliances and Lighting	22.4	18.3	18.9	28.4	22.9	4.1

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.
(*) = Value rounds to zero in the units displayed.
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 CE1-8c. Total Energy Consumption 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	1.4	1.3	1.2	
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
Quadrillion Btu						
Total Btu Consumption, Fuels Used:						
Electricity						
Primary	10.72	4.30	1.88	2.25	2.28	4.2
Site	3.54	1.42	0.62	0.74	0.75	4.2
Natural Gas	5.28	2.88	0.94	1.12	0.34	7.0
Fuel Oil	1.01	0.28	0.25	0.17	0.30	13.2
Kerosene	0.06	0.01	0.02	(*)	0.03	25.1
LPG	0.36	0.02	0.07	0.01	0.25	18.2
Wood	0.43	0.06	0.07	0.05	0.25	13.0
Total (excludes primary electricity and wood)	10.25	4.62	1.90	2.05	1.68	4.0
Physical Units						
Physical Units of Total Consumption, Fuels Used:						
Electricity (billion kWh)	1,037	416	182	218	221	4.2
Natural Gas (billion cf)	5,143	2,804	919	1,088	332	7.0
Fuel Oil (million gallons)	7,273	2,055	1,782	1,252	2,184	13.3
Kerosene (million gallons)	437	79	115	24	220	25.1
LPG (million gallons)	3,937	256	777	156	2,748	18.2
Wood (million cords)	21.4	2.9	3.4	2.5	12.5	13.0
Million Btu per Household³						
Total Btu Consumption per Household, Fuels Used:						
Electricity						
Primary	105.6	89.2	103.3	121.3	138.7	2.2
Site	34.9	29.5	34.1	40.0	45.8	2.2
Natural Gas	85.3	81.4	89.8	91.6	89.1	3.2
Fuel Oil	101.2	89.3	103.7	109.8	107.9	5.1
Kerosene	17.0	11.1	26.3	5.9	21.4	18.9
LPG	44.6	25.9	49.2	24.3	48.9	10.8
Wood	28.5	17.0	24.4	13.3	50.3	10.1
Total (excludes primary electricity and wood)	101.0	95.8	104.2	110.4	101.9	2.3

See footnotes at end of table.

Table CE1-8c. Total Energy Consumption 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	1.4	1.3	1.2	
Physical Units per Household³						
Physical Units of Total Consumption per Household, Fuels Used:						
Electricity (kWh)	10,219	8,632	9,988	11,736	13,417	2.2
Natural Gas (thousand cf)	83	79	87	89	87	3.2
Fuel Oil (gallons)	730	644	748	793	778	5.1
Kerosene (gallons)	126	82	195	43	158	18.9
LPG (gallons)	488	284	538	266	535	10.8
Wood (cords)	1.4	0.9	1.2	0.7	2.5	10.1
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
Quadrillion Btu						
Total Btu Consumption, Where the End Use Is:						
Space Heating	5.18	2.31	1.04	0.99	0.84	5.0
Electric Air-Conditioning	0.42	0.18	0.06	0.10	0.07	6.3
Water Heating	1.92	0.95	0.33	0.37	0.27	4.1
Refrigerators	0.46	0.21	0.08	0.09	0.08	3.9
Other Appliances and Lighting	2.27	0.97	0.39	0.49	0.43	3.8
Million Btu per Household³						
Total Btu Consumption per Household, Where the End Use Is:						
Space Heating	52.0	48.8	57.7	53.9	52.8	3.7
Electric Air-Conditioning	5.7	5.5	4.6	7.0	5.9	4.5
Water Heating	19.0	19.8	18.4	20.1	16.3	2.3
Refrigerators	4.5	4.3	4.3	5.1	4.9	1.9
Other Appliances and Lighting	22.4	20.1	21.2	26.3	26.0	1.9

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.

(*) = Value rounds to zero in the units displayed.

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 CE1-9c. Total Energy Consumption 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	
			0.5	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
Quadrillion Btu					
Total Btu Consumption, Fuels Used:					
Electricity					
Primary	10.72	1.48	1.09	0.39	3.3
Site	3.54	0.49	0.36	0.13	3.3
Natural Gas	5.28	1.03	0.86	0.17	9.3
Fuel Oil	1.01	0.81	0.48	0.33	12.3
Kerosene	0.06	0.03	0.01	0.01	31.2
LPG	0.36	0.03	0.02	0.01	23.6
Wood	0.43	0.14	0.11	0.03	16.6
Total (excludes primary electricity and wood)	10.25	2.38	1.73	0.65	2.2
Physical Units					
Physical Units of Total Consumption, Fuels Used:					
Electricity (billion kWh)	1,037	143	105	37	3.3
Natural Gas (billion cf)	5,143	1,000	836	165	9.3
Fuel Oil (million gallons)	7,273	5,816	3,433	2,383	12.3
Kerosene (million gallons)	437	214	104	110	31.2
LPG (million gallons)	3,937	317	207	110	23.6
Wood (million cords)	21.4	7.0	5.3	1.6	16.6
Million Btu per Household²					
Total Btu Consumption per Household, Fuels Used:					
Electricity					
Primary	105.6	74.9	75.6	73.0	3.3
Site	34.9	24.7	25.0	24.1	3.3
Natural Gas	85.3	86.9	86.9	87.0	3.5
Fuel Oil	101.2	108.0	103.1	115.9	4.2
Kerosene	17.0	30.2	23.6	41.3	18.1
LPG	44.6	18.7	19.9	16.7	19.5
Wood	28.5	56.0	65.7	37.9	12.6
Total (excludes primary electricity and wood)	101.0	120.6	119.7	122.9	2.2

See footnotes at end of table.

Table CE1-9c. Total Energy Consumption 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:	0.5	1.0	1.2	
Physical Units per Household²					
Physical Units of Total Consumption per Household, Fuels Used:					
Electricity (kWh)	10,219	7,246	7,313	7,062	3.3
Natural Gas (thousand cf)	83	85	85	85	3.5
Fuel Oil (gallons)	730	779	744	836	4.2
Kerosene (gallons)	126	224	174	306	18.1
LPG (gallons)	488	204	218	183	19.5
Wood (cords)	1.4	2.8	3.3	1.9	12.6
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
Quadrillion Btu					
Total Btu Consumption, Where the End Use Is:					
Space Heating	5.18	1.48	1.06	0.43	3.2
Electric Air-Conditioning	0.42	0.02	0.02	(*)	7.4
Water Heating	1.92	0.42	0.31	0.11	2.6
Refrigerators	0.46	0.07	0.05	0.02	2.4
Other Appliances and Lighting	2.27	0.38	0.29	0.09	1.9
Million Btu per Household²					
Total Btu Consumption per Household, Where the End Use Is:					
Space Heating	52.0	76.0	73.8	82.0	3.3
Electric Air-Conditioning	5.7	2.0	2.2	1.5	5.0
Water Heating	19.0	21.4	21.6	20.9	2.7
Refrigerators	4.5	3.6	3.7	3.5	2.4
Other Appliances and Lighting	22.4	19.2	19.9	17.4	1.9

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.
 (*) = Value rounds to zero in the units displayed.
 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 CE1-10c. Total Energy Consumption 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	1.1	
RSE Column Factor:	0.5	1.0	1.1	1.8	
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	17.3
LPG	8.1	2.3	1.2	1.2	20.8
Wood	15.0	2.6	1.7	0.9	12.2
Quadrillion Btu					
Total Btu Consumption, Fuels Used:					
Electricity					
Primary	10.72	2.26	1.51	0.75	3.7
Site	3.54	0.75	0.50	0.25	3.7
Natural Gas	5.28	2.20	1.67	0.52	6.1
Fuel Oil	1.01	0.10	0.06	0.04	19.9
Kerosene	0.06	Q	Q	Q	34.0
LPG	0.36	0.17	0.10	0.07	18.6
Wood	0.43	0.08	0.04	Q	24.4
Total (excludes primary electricity and wood)	10.25	3.22	2.34	0.89	2.6
Physical Units					
Physical Units of Total Consumption, Fuels Used:					
Electricity (billion kWh)	1,037	219	146	73	3.7
Natural Gas (billion cf)	5,143	2,141	1,630	511	6.1
Fuel Oil (million gallons)	7,273	752	462	291	19.9
Kerosene (million gallons)	437	Q	Q	Q	34.0
LPG (million gallons)	3,937	1,869	1,058	811	18.6
Wood (million cords)	21.4	3.8	2.2	Q	24.4
Million Btu per Household²					
Total Btu Consumption per Household, Fuels Used:					
Electricity					
Primary	105.6	94.0	89.2	105.3	3.7
Site	34.9	31.0	29.4	34.7	3.7
Natural Gas	85.3	118.6	122.7	107.2	2.3
Fuel Oil	101.2	98.8	98.7	99.2	4.8
Kerosene	17.0	Q	Q	Q	26.2
LPG	44.6	73.7	83.5	64.0	9.3
Wood	28.5	29.3	26.2	35.1	18.9
Total (excludes primary electricity and wood)	101.0	134.0	138.2	124.1	2.6

See footnotes at end of table.

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

	Midwest Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.5	1.0	1.1	1.8	
Physical Units per Household²					
Physical Units of Total Consumption per Household, Fuels Used:					
Electricity (kWh)	10,219	9,091	8,631	10,181	3.7
Natural Gas (thousand cf)	83	115	119	104	2.3
Fuel Oil (gallons)	730	715	713	718	4.8
Kerosene (gallons)	126	Q	Q	Q	26.2
LPG (gallons)	488	807	914	701	9.3
Wood (cords)	1.4	1.5	1.3	1.8	18.9
Million Households					
Number of Households, Where the End Use Is:					
Space Heating ³	99.7	23.8	16.8	7.0	0.6
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
Quadrillion Btu					
Total Btu Consumption, Where the End Use Is:					
Space Heating	5.18	1.96	1.44	0.52	4.0
Electric Air-Conditioning	0.42	0.06	0.04	0.03	5.9
Water Heating	1.92	0.53	0.38	0.14	2.6
Refrigerators	0.46	0.10	0.07	0.03	2.1
Other Appliances and Lighting	2.27	0.58	0.41	0.17	2.2
Million Btu per Household²					
Total Btu Consumption per Household, Where the End Use Is:					
Space Heating	52.0	82.3	85.8	73.7	4.0
Electric Air-Conditioning	5.7	3.3	3.0	4.1	5.0
Water Heating	19.0	22.0	22.7	20.3	2.5
Refrigerators	4.5	4.3	4.2	4.5	2.1
Other Appliances and Lighting	22.4	24.0	24.2	23.4	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.
 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 CE1-11c. Total Energy Consumption in U.S. Households
by South Census Region, 1997**

	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	0.8	1.1	1.5	1.5	
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	29.1
Kerosene	3.5	1.9	1.3	0.4	Q	15.8
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
Quadrillion Btu						
Total Btu Consumption, Fuels Used:						
Electricity						
Primary	10.72	5.05	2.53	0.98	1.55	3.1
Site	3.54	1.67	0.83	0.32	0.51	3.1
Natural Gas	5.28	1.13	0.43	0.19	0.51	10.3
Fuel Oil	1.01	0.08	0.07	Q	Q	29.4
Kerosene	0.06	0.02	0.02	(*)	Q	23.6
LPG	0.36	0.12	0.05	0.04	0.02	19.9
Wood	0.43	0.11	0.07	0.02	0.02	15.7
Total (excludes primary electricity and wood)	10.25	3.01	1.40	0.56	1.05	3.3
Physical Units						
Physical Units of Total Consumption, Fuels Used:						
Electricity (billion kWh)	1,037	489	244	94	150	3.1
Natural Gas (billion cf)	5,143	1,097	416	180	500	10.3
Fuel Oil (million gallons)	7,273	555	537	Q	Q	29.4
Kerosene (million gallons)	437	161	126	33	Q	23.6
LPG (million gallons)	3,937	1,276	572	457	247	19.9
Wood (million cords)	21.4	5.7	3.5	1.2	1.0	15.7
Million Btu per Household²						
Total Btu Consumption per Household, Fuels Used:						
Electricity						
Primary	105.6	140.8	135.2	153.9	142.9	3.1
Site	34.9	46.5	44.6	50.8	47.2	3.1
Natural Gas	85.3	68.5	66.3	69.3	70.1	5.8
Fuel Oil	101.2	66.2	65.3	Q	Q	6.8
Kerosene	17.0	11.6	13.1	Q	Q	20.2
LPG	44.6	36.0	32.0	38.7	43.3	8.0
Wood	28.5	20.1	21.3	22.6	15.2	12.8
Total (excludes primary electricity and wood)	101.0	83.9	75.1	87.7	96.7	3.3

See footnotes at end of table.

Table CE1-11c. Total Energy Consumption in U.S. Households by South Census Region, 1997 (Continued)

	South Census Region					RSE Row Factors
	Total U.S.	Census Division			RSE Column Factor:	
		Total	South Atlantic	East South Central		
	0.5	0.8	1.1	1.5	1.5	
Physical Units per Household²						
Physical Units of Total Consumption per Household, Fuels Used:						
Electricity (kWh)	10,219	13,624	13,077	14,890	13,826	3.1
Natural Gas (thousand cf)	83	67	65	67	68	5.8
Fuel Oil (gallons)	730	478	471	Q	Q	6.8
Kerosene (gallons)	126	86	97	Q	Q	20.2
LPG (gallons)	488	395	350	424	474	8.0
Wood (cords)	1.4	1.0	1.1	1.1	0.8	12.8
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
Quadrillion Btu						
Total Btu Consumption, Where the End Use Is:						
Space Heating	5.18	1.09	0.51	0.22	0.36	7.1
Electric Air-Conditioning	0.42	0.29	0.14	0.04	0.11	4.9
Water Heating	1.92	0.56	0.24	0.10	0.22	3.5
Refrigerators	0.46	0.19	0.09	0.04	0.07	2.2
Other Appliances and Lighting	2.27	0.87	0.42	0.16	0.30	2.2
Million Btu per Household²						
Total Btu Consumption per Household, Where the End Use Is:						
Space Heating	52.0	30.8	28.1	35.0	33.0	7.2
Electric Air-Conditioning	5.7	8.8	8.1	7.0	11.0	4.5
Water Heating	19.0	15.7	13.2	15.6	20.0	3.5
Refrigerators	4.5	5.4	4.9	5.5	6.1	2.2
Other Appliances and Lighting	22.4	24.4	22.2	25.2	27.6	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.

(*) = Value rounds to zero in the units displayed.

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 CE1-12c. Total Energy Consumption in U.S. Households by West Census Region, 1997

	West Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			Mountain	Pacific	
	0.5	1.0	1.7	1.2	
RSE Column Factor:					
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	25.5
Kerosene	3.5	0.2	Q	Q	21.5
LPG	8.1	1.0	0.4	0.6	18.2
Wood	15.0	4.2	1.1	3.1	9.2
Quadrillion Btu					
Total Btu Consumption, Fuels Used:					
Electricity					
Primary	10.72	1.92	0.60	1.32	2.6
Site	3.54	0.64	0.20	0.44	2.6
Natural Gas	5.28	0.93	0.35	0.58	5.3
Fuel Oil	1.01	0.02	Q	0.01	29.7
Kerosene	0.06	(*)	Q	Q	32.0
LPG	0.36	0.04	0.02	0.02	22.5
Wood	0.43	0.10	0.03	0.06	14.4
Total (excludes primary electricity and wood)	10.25	1.63	0.58	1.05	3.0
Physical Units					
Physical Units of Total Consumption, Fuels Used:					
Electricity (billion kWh)	1,037	186	58	128	2.6
Natural Gas (billion cf)	5,143	904	343	561	5.3
Fuel Oil (million gallons)	7,273	151	Q	108	29.7
Kerosene (million gallons)	437	33	Q	Q	32.0
LPG (million gallons)	3,937	475	255	220	22.5
Wood (million cords)	21.4	4.9	1.7	3.1	14.4
Million Btu per Household²					
Total Btu Consumption per Household, Fuels Used:					
Electricity					
Primary	105.6	88.4	97.4	84.8	2.6
Site	34.9	29.2	32.2	28.0	2.6
Natural Gas	85.3	61.5	79.4	54.1	3.8
Fuel Oil	101.2	75.0	Q	77.5	16.0
Kerosene	17.0	20.4	Q	Q	28.8
LPG	44.6	44.8	62.7	33.7	12.2
Wood	28.5	23.2	30.7	20.5	11.1
Total (excludes primary electricity and wood)	101.0	74.9	94.0	67.3	3.0

See footnotes at end of table.

Table CE1-12c. Total Energy Consumption 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:	0.5	1.0	1.7	1.2	
Physical Units per Household²					
Physical Units of Total Consumption per Household, Fuels Used:					
Electricity (kWh)	10,219	8,549	9,424	8,203	2.6
Natural Gas (thousand cf)	83	60	77	53	3.8
Fuel Oil (gallons)	730	540	Q	559	16.0
Kerosene (gallons)	126	151	Q	Q	28.8
LPG (gallons)	488	491	687	369	12.2
Wood (cords)	1.4	1.2	1.5	1.0	11.1
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
Quadrillion Btu					
Total Btu Consumption, Where the End Use Is:					
Space Heating	5.18	0.65	0.29	0.36	4.7
Electric Air-Conditioning	0.42	0.04	0.02	0.02	9.6
Water Heating	1.92	0.41	0.12	0.30	3.8
Refrigerators	0.46	0.09	0.03	0.06	2.5
Other Appliances and Lighting	2.27	0.44	0.13	0.31	3.0
Million Btu per Household²					
Total Btu Consumption per Household, Where the End Use Is:					
Space Heating	52.0	30.9	46.9	24.4	4.8
Electric Air-Conditioning	5.7	4.4	6.4	3.4	8.6
Water Heating	19.0	19.1	19.2	19.1	3.8
Refrigerators	4.5	4.1	4.4	4.1	2.5
Other Appliances and Lighting	22.4	20.2	21.2	19.9	3.0

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.
 (*) = Value rounds to zero in the units displayed.
 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.