

2001 Consumption and Expenditures Tables

Appliances Expenditures Tables

(10 pages, 57 kb)

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These data are from the 2001 Residential Energy Consumption Survey (RECS) which provides information on the use of energy in residential housing units in the United States. The RECS is a national statistical survey that collects energy-related data for occupied primary housing units. RECS was first conducted in 1978; the twelfth and most recent survey was conducted in 2001. In the 2001 RECS, data were collected from a sample of 4,822 households in housing units statistically selected to represent the 107.0 million housing units in the United States. The RECS data are available for the four Census regions, the nine Census divisions, and for the four most populous States--California, Florida, New York, and Texas.

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

Table CE5-1e. Appliances¹ Energy Expenditures in U.S. Households by Climate Zone, 2001

	Climate Zone ²						RSE Row Factors
	Total	Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.7	1.1	1.1	1.2	1.0	
Million Households							
Total U.S. Households	107.0	9.2	28.6	24.0	21.0	24.1	7.9
Number of Households With Appliances, Fuels Used (more than one may apply):							
Electricity for:							
Refrigerators	106.8	9.2	28.6	24.0	20.9	24.1	7.9
Other Appliances and Lighting	107.0	9.2	28.6	24.0	21.0	24.1	7.9
Natural Gas	42.6	2.3	13.1	10.1	9.2	7.8	9.4
LPG	5.6	1.1	1.3	1.2	1.0	1.0	21.1
Billion Dollars^a							
Appliances Expenditures, Fuels Used:							
Electricity for:							
Refrigerators	14.38	1.06	3.50	3.09	2.78	3.94	6.9
Other Appliances and Lighting	52.56	4.45	13.81	11.37	10.35	12.58	7.0
Natural Gas	3.83	0.14	1.07	0.97	0.96	0.68	11.3
LPG	0.86	0.12	0.25	0.18	0.14	0.17	25.5
Total ³	71.66	5.78	18.64	15.64	14.23	17.37	6.8
Dollars per Household^{4,a}							
Appliances Expenditures per Household, Fuels Used:							
Electricity for:							
Refrigerators	135	115	122	129	133	164	2.8
Other Appliances and Lighting	491	481	482	474	493	523	2.8
Natural Gas	90	62	82	96	104	87	5.4
LPG	154	113	Q	159	138	166	23.5
Total ³	670	625	651	651	678	722	2.7

¹ Includes energy expenditures for refrigeration and lighting.

² 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.

³ Includes a small amount of fuel oil and kerosene.

⁴ Averages are for those households using each of the fuels for appliances.

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

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

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

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

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

Table CE5-2e. Appliances¹ Energy Expenditures in U.S. Households by Year of Construction, 2001

	Total	Year of Construction						RSE Row Factors
		1990 to 2001 ²	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.7	1.1	1.1	1.1	1.0	0.9	
Million Households								
Total U.S. Households	107.0	15.5	18.2	18.8	13.8	14.2	26.6	4.3
Number of Households With Appliances, Fuels Used (more than one may apply):								
Electricity for:								
Refrigerators	106.8	15.5	18.2	18.7	13.8	14.1	26.5	4.3
Other Appliances and Lighting	107.0	15.5	18.2	18.8	13.8	14.2	26.6	4.3
Natural Gas	42.6	5.3	4.7	5.2	5.8	6.7	14.9	7.2
LPG	5.6	0.7	1.0	1.0	0.7	0.7	1.5	16.3
Billion Dollars^a								
Appliances Expenditures, Fuels Used:								
Electricity for:								
Refrigerators	14.38	2.01	2.47	2.54	1.88	2.01	3.48	4.6
Other Appliances and Lighting	52.56	8.84	9.11	8.82	6.59	6.97	12.22	4.5
Natural Gas	3.83	0.62	0.45	0.45	0.46	0.56	1.30	9.6
LPG	0.86	0.09	0.11	0.14	0.09	0.12	0.31	26.8
Total ³	71.66	11.56	12.14	11.95	9.02	9.67	17.32	4.4
Dollars per Household^{4,a}								
Appliances Expenditures per Household, Fuels Used:								
Electricity for:								
Refrigerators	135	130	136	135	136	142	131	2.8
Other Appliances and Lighting	491	572	499	470	478	492	460	2.6
Natural Gas	90	116	97	86	80	83	87	5.7
LPG	154	135	118	138	123	181	199	21.9
Total ³	670	748	666	637	655	682	651	2.5

¹ Includes energy expenditures for refrigeration and lighting.

² New construction for 2001 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

³ Includes a small amount of fuel oil and kerosene.

⁴ Averages are for those households using each of the fuels for appliances.

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

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

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

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

Table CE5-3e. Appliances¹ Energy Expenditures in U.S. Households by Household Income, 2001

	Total	2001 Household Income				Below Poverty Line	Eligible for Federal Assistance ²	RSE Row Factors
		Less than \$10,000	\$10,000 to \$29,999	\$30,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.7	0.9	0.9	1.0	1.3	0.9	
Million Households								
Total U.S. Households	107.0	11.0	30.6	27.1	38.3	15.0	33.8	3.4
Number of Households With Appliances, Fuels Used (more than one may apply):								
Electricity for:								
Refrigerators	106.8	11.0	30.5	27.1	38.3	14.9	33.7	3.4
Other Appliances and Lighting	107.0	11.0	30.6	27.1	38.3	15.0	33.8	3.4
Natural Gas	42.6	4.7	11.7	10.4	15.8	6.6	14.3	6.3
LPG	5.6	0.5	1.9	1.5	1.7	0.7	2.1	14.5
Billion Dollars								
Appliances Expenditures, Fuels Used:								
Electricity for:								
Refrigerators	14.38	1.23	3.74	3.50	5.92	1.68	4.07	3.5
Other Appliances and Lighting	52.56	3.23	11.75	13.01	24.57	5.23	13.37	3.7
Natural Gas	3.83	0.35	0.85	0.89	1.73	0.53	1.16	7.7
LPG	0.86	0.03	0.22	0.14	0.46	0.08	0.26	20.7
Total ³	71.66	4.85	16.57	17.54	32.69	7.52	18.85	3.6
Dollars per Household⁴								
Appliances Expenditures per Household, Fuels Used:								
Electricity for:								
Refrigerators	135	112	123	129	155	113	121	2.0
Other Appliances and Lighting	491	293	385	480	642	349	395	2.2
Natural Gas	90	76	73	86	109	80	81	3.6
LPG	154	71	118	94	274	107	125	15.2
Total ³	670	440	542	647	854	502	558	2.0

¹ Includes energy expenditures for refrigeration and lighting.

² Below 150 percent of poverty line or 60 percent of median State income.

³ Includes a small amount of fuel oil and kerosene.

⁴ Averages are for those households using each of the fuels for appliances.

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

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

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

**Table CE5-4e. Appliances¹ Energy Expenditures in U.S. Households
by Type of Housing Unit, 2001**

	Total	Type of Housing Unit				RSE Row Factors
		Single-Family	Apartments in Buildings With		Mobile Homes	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.6	1.6	1.3	1.7	
Million Households						
Total U.S. Households	107.0	73.7	9.5	17.0	6.8	4.4
Number of Households With Appliances, Fuels Used (more than one may apply):						
Electricity for:						
Refrigerators	106.8	73.6	9.5	16.9	6.8	4.4
Other Appliances and Lighting	107.0	73.7	9.5	17.0	6.8	4.4
Natural Gas	42.6	30.5	4.3	5.9	1.9	7.4
LPG	5.6	4.2	Q	Q	1.3	15.6
Billion Dollars^a						
Appliances Expenditures, Fuels Used:						
Electricity for:						
Refrigerators	14.38	10.82	1.07	1.65	0.85	4.6
Other Appliances and Lighting	52.56	41.76	3.41	4.38	3.01	4.8
Natural Gas	3.83	2.91	0.34	0.45	0.13	9.6
LPG	0.86	0.73	Q	Q	0.12	24.6
Total ²	71.66	56.24	4.82	6.49	4.11	4.6
Dollars per Household^{3,a}						
Appliances Expenditures per Household, Fuels Used:						
Electricity for:						
Refrigerators	135	147	113	98	124	2.5
Other Appliances and Lighting	491	567	359	257	442	2.7
Natural Gas	90	95	79	77	69	4.8
LPG	154	174	Q	Q	98	21.1
Total ²	670	763	508	382	604	2.5

¹ Includes energy expenditures for refrigeration and lighting.

² Includes a small amount of fuel oil and kerosene.

³ Averages are for those households using each of the fuels for appliances.

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

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

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

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

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

Table CE5-7e. Appliances¹ Energy Expenditures in U.S. Households by Four Most Populated States, 2001

	Total U.S.	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	0.8	1.0	1.6	2.1	
Million Households						
Total U.S. Households	107.0	7.1	12.3	7.7	6.3	NE
Number of Households With Appliances, Fuels Used (more than one may apply):						
Electricity for:						
Refrigerators	106.8	7.1	12.3	7.7	6.3	NE
Other Appliances and Lighting	107.0	7.1	12.3	7.7	6.3	NE
Natural Gas	42.6	4.5	7.8	3.3	0.7	9.1
LPG	5.6	0.5	0.6	Q	Q	29.6
Billion Dollars^a						
Appliances Expenditures, Fuels Used:						
Electricity for:						
Refrigerators	14.38	1.18	1.53	1.31	1.05	4.1
Other Appliances and Lighting	52.56	3.90	5.81	4.31	3.38	3.9
Natural Gas	3.83	0.48	0.78	0.25	Q	12.7
LPG	0.86	0.09	0.10	Q	Q	37.5
Total ²	71.66	5.64	8.22	5.89	4.56	3.4
Dollars per Household^{3,a}						
Appliances Expenditures per Household, Fuels Used:						
Electricity for:						
Refrigerators	135	167	125	171	166	4.0
Other Appliances and Lighting	491	550	471	562	533	3.9
Natural Gas	90	107	99	77	117	6.5
LPG	154	176	171	Q	Q	44.8
Total ²	670	796	666	768	720	3.4

¹ Includes energy expenditures for refrigeration and lighting.

² Includes a small amount of fuel oil and kerosene.

³ Averages are for those households using each of the fuels for appliances.

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

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

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

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

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

Table CE5-8e. Appliances¹ Energy Expenditures in U.S. Households by Urban/Rural Location, 2001

	Total	Urban/Rural Location ²				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.5	0.8	1.4	1.4	1.2	
Million Households						
Total U.S. Households	107.0	49.9	18.0	21.2	17.9	4.2
Number of Households With Appliances, Fuels Used (more than one may apply):						
Electricity for:						
Refrigerators	106.8	49.7	18.0	21.2	17.8	4.2
Other Appliances and Lighting	107.0	49.9	18.0	21.2	17.9	4.2
Natural Gas	42.6	24.6	6.4	9.1	2.4	6.9
LPG	5.6	0.5	0.8	0.5	3.7	16.3
Billion Dollars^a						
Appliances Expenditures, Fuels Used:						
Electricity for:						
Refrigerators	14.38	6.38	2.36	3.16	2.48	4.1
Other Appliances and Lighting	52.56	21.57	8.86	12.06	10.06	4.3
Natural Gas	3.83	2.13	0.61	0.91	0.18	9.1
LPG	0.86	0.09	0.10	Q	0.40	22.4
Total ³	71.66	30.19	11.93	16.40	13.14	4.1
Dollars per Household^{4,a}						
Appliances Expenditures per Household, Fuels Used:						
Electricity for:						
Refrigerators	135	128	131	149	139	2.2
Other Appliances and Lighting	491	433	491	568	564	2.2
Natural Gas	90	87	95	100	74	5.7
LPG	154	176	125	497	108	21.1
Total ³	670	605	662	773	735	2.1

¹ Includes energy expenditures for refrigeration and lighting.
² Based on the household respondent's description rather than the Federal Government definition.
³ Includes a small amount of fuel oil and kerosene.
⁴ Averages are for those households using each of the fuels for appliances.
^a The row factor in this section is underestimated because it contains no error for estimating the end-use.
Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.
Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.
• See "Glossary" for definition of terms used in this report.
Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 2001 Residential Energy Consumption Survey.

Table CE5-9e. Appliances¹ Energy Expenditures in U.S. Households by Northeast Census Region, 2001

	Northeast Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.5	0.9	1.1	1.8	
Million Households					
Total U.S. Households	107.0	20.3	14.8	5.4	NE
Number of Households With Appliances, Fuels Used (more than one may apply):					
Electricity for:					
Refrigerators	106.8	20.2	14.8	5.4	NE
Other Appliances and Lighting	107.0	20.3	14.8	5.4	NE
Natural Gas	42.6	9.8	8.1	1.7	9.7
LPG	5.6	1.5	0.9	0.6	16.7
Billion Dollars^a					
Appliances Expenditures, Fuels Used:					
Electricity for:					
Refrigerators	14.38	3.02	2.27	0.76	1.8
Other Appliances and Lighting	52.56	10.68	7.76	2.92	2.9
Natural Gas	3.83	0.99	0.81	0.18	11.2
LPG	0.86	0.37	0.18	Q	33.7
Total ²	71.66	15.06	11.02	4.05	2.7
Dollars per Household^{3,a}					
Appliances Expenditures per Household, Fuels Used:					
Electricity for:					
Refrigerators	135	150	153	140	1.8
Other Appliances and Lighting	491	527	523	540	3.0
Natural Gas	90	101	99	105	3.4
LPG	154	252	205	Q	30.6
Total ²	670	744	742	748	2.7

¹ Includes energy expenditures for refrigeration and lighting.

² Includes a small amount of fuel oil and kerosene.

³ Averages are for those households using each of the fuels for appliances.

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

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

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

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

**Table CE5-10e. Appliances¹ Energy Expenditures in U.S. Households
by Midwest Census Region, 2001**

	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
		0.6	1.0	1.3	
Million Households					
Total U.S. Households	107.0	24.5	17.1	7.4	NE
Number of Households With Appliances, Fuels Used (more than one may apply):					
Electricity for:					
Refrigerators	106.8	24.5	17.1	7.4	NE
Other Appliances and Lighting	107.0	24.5	17.1	7.4	NE
Natural Gas	42.6	11.3	8.8	2.5	6.4
LPG	5.6	1.2	0.5	0.7	24.5
Billion Dollars^a					
Appliances Expenditures, Fuels Used:					
Electricity for:					
Refrigerators	14.38	2.99	2.10	0.89	2.0
Other Appliances and Lighting	52.56	11.81	8.29	3.52	2.6
Natural Gas	3.83	0.81	0.66	0.15	9.1
LPG	0.86	0.08	0.03	0.04	30.1
Total ²	71.66	15.69	11.08	4.61	2.2
Dollars per Household^{3,a}					
Appliances Expenditures per Household, Fuels Used:					
Electricity for:					
Refrigerators	135	122	123	121	2.0
Other Appliances and Lighting	491	482	485	475	2.6
Natural Gas	90	71	75	60	5.7
LPG	154	65	65	65	10.8
Total ²	670	641	648	623	2.2

¹ Includes energy expenditures for refrigeration and lighting.

² Includes a small amount of fuel oil and kerosene.

³ Averages are for those households using each of the fuels for appliances.

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

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

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

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

Table CE5-11e. Appliances¹ Energy Expenditures in U.S. Households by South Census Region, 2001

	South Census Region					RSE Row Factors
	Total U.S.	Census Division				
		Total	South Atlantic	East South Central		
RSE Column Factor:	0.5	0.8	1.2	1.2	1.5	
Million Households						
Total U.S. Households	107.0	38.9	20.3	6.8	11.8	NE
Number of Households With Appliances, Fuels Used (more than one may apply):						
Electricity for:						
Refrigerators	106.8	38.9	20.3	6.8	11.8	NE
Other Appliances and Lighting	107.0	38.9	20.3	6.8	11.8	NE
Natural Gas	42.6	11.5	4.9	1.3	5.3	9.2
LPG	5.6	1.9	1.0	0.6	0.3	18.7
Billion Dollars^a						
Appliances Expenditures, Fuels Used:						
Electricity for:						
Refrigerators	14.38	5.60	2.84	0.82	1.94	3.4
Other Appliances and Lighting	52.56	19.70	10.33	3.04	6.33	2.7
Natural Gas	3.83	1.10	0.55	0.11	0.43	12.6
LPG	0.86	0.26	0.17	0.06	0.03	21.7
Total ²	71.66	26.67	13.90	4.04	8.74	2.5
Dollars per Household^{3,a}						
Appliances Expenditures per Household, Fuels Used:						
Electricity for:						
Refrigerators	135	144	140	120	165	3.4
Other Appliances and Lighting	491	506	509	446	536	2.7
Natural Gas	90	95	112	88	82	6.1
LPG	154	138	171	103	103	17.0
Total ²	670	685	684	592	740	2.5

¹ Includes energy expenditures for refrigeration and lighting.

² Includes a small amount of fuel oil and kerosene.

³ Averages are for those households using each of the fuels for appliances.

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

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

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

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

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

Table CE5-12e. Appliances¹ Energy Expenditures in U.S. Households by West Census Region, 2001

	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.9	1.1	
Million Households					
Total U.S. Households	107.0	23.3	6.7	16.6	NE
Number of Households With Appliances, Fuels Used (more than one may apply):					
Electricity for:					
Refrigerators	106.8	23.2	6.7	16.5	NE
Other Appliances and Lighting	107.0	23.3	6.7	16.6	NE
Natural Gas	42.6	10.0	1.8	8.1	4.8
LPG	5.6	1.0	Q	0.7	19.3
Billion Dollars^a					
Appliances Expenditures, Fuels Used:					
Electricity for:					
Refrigerators	14.38	2.76	0.81	1.95	3.0
Other Appliances and Lighting	52.56	10.37	2.94	7.43	3.6
Natural Gas	3.83	0.94	0.14	0.80	9.2
LPG	0.86	0.15	0.04	0.12	25.7
Total ²	71.66	14.23	3.93	10.30	3.3
Dollars per Household^{3,a}					
Appliances Expenditures per Household, Fuels Used:					
Electricity for:					
Refrigerators	135	119	122	118	3.0
Other Appliances and Lighting	491	445	437	448	3.6
Natural Gas	90	94	76	98	6.0
LPG	154	151	Q	166	27.9
Total ²	670	611	585	621	3.3

¹ Includes energy expenditures for refrigeration and lighting.

² Includes a small amount of fuel oil and kerosene.

³ Averages are for those households using each of the fuels for appliances.

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

NE = RSE row factor not estimated because RSE's for all statistics in this row are between 0.0 and 1.0 percent.

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

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

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

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