

# 2001 Consumption and Expenditures Tables

## Appliances Consumption Tables

(22 pages, 123 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 CE5-1c. Appliances<sup>1</sup> Energy Consumption in U.S. Households by Climate Zone, 2001 - Preliminary Data**

	Climate Zone <sup>2</sup>						RSE Row Factors
	Total	Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.7	1.0	1.2	1.2	1.0	
<b>Million Households</b>							
<b>Total U.S. Households</b> .....	107.0	9.2	28.6	24.0	21.0	24.1	7.9
<b>Number of Households With Appliances, Fuels Used (more than one may apply):</b>							
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
<b>Quadrillion Btu</b>							
<b>Appliances Btu Consumption, Fuels Used:</b>							
Electricity for:							
Refrigerators .....	0.55	0.05	0.14	0.12	0.10	0.14	7.4
Other Appliances and Lighting .....	1.95	0.17	0.51	0.42	0.36	0.48	7.6
Natural Gas .....	0.37	0.02	0.11	0.08	0.09	0.07	11.2
LPG .....	0.05	0.01	Q	0.01	0.01	0.01	25.0
Total <sup>3</sup> .....	2.92	0.24	0.78	0.63	0.56	0.70	7.3
<b>Physical Units</b>							
<b>Physical Units of Appliances Consumption, Fuels Used:</b>							
Electricity for:							
Refrigerators (billion kWh) .....	160	13	41	34	30	42	7.4
Other Appliances and Lighting (billion kWh) .....	572	51	150	124	106	141	7.6
Natural Gas (billion cf) .....	362	16	111	81	87	66	11.2
LPG (million gallons) .....	500	71	Q	114	66	92	25.0
<b>Million Btu per Household<sup>4</sup></b>							
<b>Appliances Btu Consumption per Household, Fuels Used:</b>							
Electricity for:							
Refrigerators .....	5.1	4.9	4.9	4.8	4.9	6.0	2.7
Other Appliances and Lighting .....	18.2	18.6	17.9	17.6	17.3	19.9	2.8
Natural Gas .....	8.7	7.1	8.7	8.3	9.7	8.7	5.4
LPG .....	8.2	5.9	Q	9.0	6.0	8.4	24.8
Total <sup>3</sup> .....	27.3	26.0	27.2	26.4	26.7	29.1	2.5

See footnotes at end of table.

**Table CE5-1c. Appliances<sup>1</sup> Energy Consumption in U.S. Households by Climate Zone, 2001 - Preliminary Data (Continued)**

RSE Column Factor:	Climate Zone <sup>2</sup>						RSE Row Factors
	Total	Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
0.4	1.7	1.0	1.2	1.2	1.0		

**Physical Units per Household<sup>4</sup>**

**Physical Units of Appliances Consumption per Household, Fuels Used:**

Electricity for:							
Refrigerators (kWh) .....	1,500	1,440	1,425	1,414	1,437	1,752	2.7
Other Appliances and Lighting (kWh) .....	5,346	5,466	5,245	5,168	5,065	5,841	2.8
Natural Gas (thousand cf) .....	8	7	8	8	9	8	5.4
LPG (gallons) .....	89	65	Q	99	66	92	24.8

<sup>1</sup> Includes energy consumption for refrigeration and lighting.

<sup>2</sup> One of five climatically distinct areas, determined according to the 30-year average (1961-1990) of the annual heating and cooling degree-days. For this report, the heating or cooling degree-days are a measure of how cold or how hot a location is over a period of one year, relative to a base temperature of 65 degrees Fahrenheit. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

<sup>3</sup> Includes a small amount of fuel oil and kerosene.

<sup>4</sup> Averages are for those households using each of the fuels for appliances.

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 CE5-2c. Appliances<sup>1</sup> Energy Consumption in U.S. Households  
by Year of Construction - Preliminary Data, 2001**

	Total	Year of Construction						RSE Row Factors
		1990 to 2001 <sup>2</sup>	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.6	1.1	1.1	1.1	1.0	1.0	
<b>Million Households</b>								
<b>Total U.S. Households</b> .....	107.0	15.5	18.2	18.8	13.8	14.2	26.6	4.3
<b>Number of Households With Appliances, Fuels Used (more than one may apply):</b>								
Electricity for:								
Refrigerators .....	106.8	15.5	18.2	18.7	13.8	14.1	26.5	4.2
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
<b>Quadrillion Btu</b>								
<b>Appliances Btu Consumption, Fuels Used:</b>								
Electricity for:								
Refrigerators .....	0.55	0.08	0.10	0.10	0.07	0.07	0.12	4.4
Other Appliances and Lighting .....	1.95	0.34	0.35	0.34	0.24	0.25	0.43	4.4
Natural Gas .....	0.37	0.06	0.05	0.04	0.05	0.06	0.12	9.6
LPG .....	0.05	0.01	0.01	0.01	(*)	0.01	0.02	29.1
Total <sup>3</sup> .....	2.92	0.49	0.50	0.50	0.35	0.38	0.70	4.5
<b>Physical Units</b>								
<b>Physical Units of Appliances Consumption, Fuels Used:</b>								
Electricity for:								
Refrigerators (billion kWh) .....	160	24	29	30	20	21	37	4.4
Other Appliances and Lighting (billion kWh) .....	572	99	104	101	69	72	127	4.4
Natural Gas (billion cf) .....	362	58	45	43	44	54	117	9.6
LPG (million gallons) .....	500	61	70	79	42	58	190	29.1
<b>Million Btu per Household<sup>4</sup></b>								
<b>Appliances Btu Consumption per Household, Fuels Used:</b>								
Electricity for:								
Refrigerators .....	5.1	5.3	5.4	5.4	4.9	5.2	4.7	2.5
Other Appliances and Lighting .....	18.2	21.9	19.4	18.3	17.1	17.4	16.3	2.5
Natural Gas .....	8.7	11.3	9.9	8.6	7.8	8.4	8.1	5.8
LPG .....	8.2	8.3	6.7	7.1	5.4	7.8	11.2	24.2
Total <sup>3</sup> .....	27.3	31.4	27.7	26.5	25.6	26.9	26.2	2.5

See footnotes at end of table.

**Table CE5-2c. Appliances<sup>1</sup> Energy Consumption in U.S. Households by Year of Construction - Preliminary Data, 2001 (Continued)**

	Total	Year of Construction						RSE Row Factors
		1990 to 2001 <sup>2</sup>	1980 to 1989	1970 to 1979	1960 to 1969	1950 to 1959	1949 or Before	
RSE Column Factor:	0.5	1.6	1.1	1.1	1.1	1.0	1.0	
<b>Physical Units per Household<sup>4</sup></b>								
<b>Physical Units of Appliances Consumption per Household, Fuels Used:</b>								
Electricity for:								
Refrigerators (kWh) .....	1,500	1,546	1,584	1,574	1,441	1,519	1,382	2.5
Other Appliances and Lighting (kWh) .....	5,346	6,414	5,680	5,376	5,017	5,096	4,777	2.5
Natural Gas (thousand cf) .....	8	11	10	8	8	8	8	5.8
LPG (gallons) .....	89	90	73	77	59	85	123	24.2

<sup>1</sup> Includes energy consumption for refrigeration and lighting.

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

<sup>3</sup> Includes a small amount of fuel oil and kerosene.

<sup>4</sup> Averages are for those households using each of the fuels for appliances.

(\*) = 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 2001 Residential Energy Consumption Survey.

**Table CE5-3c. Appliances<sup>1</sup> Energy Consumption in U.S. Households by Household Income, 2001 - Preliminary Data**

	Total	2001 Household Income				Below Poverty Line	Eli-gible for Fed-eral Assist-ance <sup>2</sup>	RSE Row Factors
		Less than \$10,000	\$10,000 to \$29,999	\$30,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.6	0.8	0.9	1.1	1.4	0.8	
<b>Million Households</b>								
<b>Total U.S. Households</b> .....	107.0	11.0	30.6	27.1	38.3	15.0	33.8	3.4
<b>Number of Households With Appliances, Fuels Used (more than one may apply):</b>								
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
<b>Quadrillion Btu</b>								
<b>Appliances Btu Consumption, Fuels Used:</b>								
Electricity for:								
Refrigerators .....	0.55	0.05	0.14	0.13	0.22	0.06	0.15	3.5
Other Appliances and Lighting .....	1.95	0.12	0.45	0.49	0.89	0.20	0.50	3.7
Natural Gas .....	0.37	0.03	0.08	0.09	0.17	0.05	0.11	7.5
LPG .....	0.05	(*)	0.01	0.01	0.03	(*)	0.01	20.6
Total <sup>3</sup> .....	2.92	0.20	0.68	0.71	1.31	0.31	0.78	3.7
<b>Physical Units</b>								
<b>Physical Units of Appliances Consumption, Fuels Used:</b>								
Electricity for:								
Refrigerators (billion kWh) .....	160	14	42	39	66	19	45	3.5
Other Appliances and Lighting (billion kWh) .....	572	36	131	143	261	58	147	3.7
Natural Gas (billion cf) .....	362	32	81	83	167	48	109	7.5
LPG (million gallons) .....	500	17	118	80	284	44	136	20.6
<b>Million Btu per Household<sup>4</sup></b>								
<b>Appliances Btu Consumption per Household, Fuels Used:</b>								
Electricity for:								
Refrigerators .....	5.1	4.3	4.7	4.9	5.9	4.3	4.6	1.9
Other Appliances and Lighting .....	18.2	11.2	14.7	18.0	23.3	13.1	14.9	2.1
Natural Gas .....	8.7	6.9	7.1	8.2	10.8	7.5	7.8	3.5
LPG .....	8.2	3.2	5.7	4.8	15.4	5.5	6.0	13.4
Total <sup>3</sup> .....	27.3	18.5	22.4	26.4	34.3	21.0	23.1	2.0

See footnotes at end of table.

**Table CE5-3c. Appliances<sup>1</sup> Energy Consumption in U.S. Households by Household Income, 2001 - Preliminary Data (Continued)**

	Total	2001 Household Income				Below Poverty Line	Eli-gible for Fed-eral Assist-ance <sup>2</sup>	RSE Row Factors
		Less than \$10,000	\$10,000 to \$29,999	\$30,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.6	0.8	0.9	1.1	1.4	0.8	

**Physical Units per Household<sup>4</sup>**

**Physical Units of Appliances Consumption per Household, Fuels Used:**

Electricity for:								
Refrigerators (kWh) .....	1,500	1,254	1,368	1,439	1,717	1,266	1,335	1.9
Other Appliances and Lighting (kWh) .....	5,346	3,280	4,295	5,279	6,827	3,842	4,360	2.1
Natural Gas (thousand cf) .....	8	7	7	8	11	7	8	3.5
LPG (gallons) .....	89	35	63	53	169	60	65	13.4

<sup>1</sup> Includes energy consumption for refrigeration and lighting.

<sup>2</sup> Below 150 percent of poverty line or 60 percent of median State income.

<sup>3</sup> Includes a small amount of fuel oil and kerosene.

<sup>4</sup> Averages are for those households using each of the fuels for appliances.

(\*) = 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 2001 Residential Energy Consumption Survey.

**Table CE5-4c. Appliances<sup>1</sup> Energy Consumption in U.S. Households  
by Type of Housing Unit, 2001 - Preliminary Data**

	Total	Type of Housing Unit			Mobile Home	RSE Row Factors
		Single-Family	Multifamily			
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.6	1.5	1.3	1.7	
<b>Million Households</b>						
<b>Total U.S. Households</b> .....	107.0	73.7	9.5	17.0	6.8	4.4
<b>Number of Households With Appliances, Fuels Used (more than one may apply):</b>						
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	15.5
<b>Quadrillion Btu</b>						
<b>Appliances Btu Consumption, Fuels Used:</b>						
Electricity for:						
Refrigerators .....	0.55	0.42	0.04	0.06	0.03	4.5
Other Appliances and Lighting .....	1.95	1.57	0.11	0.15	0.12	4.6
Natural Gas .....	0.37	0.29	0.03	0.04	0.01	9.4
LPG .....	0.05	0.04	Q	Q	0.01	26.6
Total <sup>2</sup> .....	2.92	2.32	0.18	0.25	0.17	4.5
<b>Physical Units</b>						
<b>Physical Units of Appliances Consumption, Fuels Used:</b>						
Electricity for:						
Refrigerators (billion kWh) .....	160	123	10	17	9	4.5
Other Appliances and Lighting (billion kWh) .....	572	460	33	44	35	4.6
Natural Gas (billion cf) .....	362	285	29	34	13	9.4
LPG (million gallons) .....	500	419	Q	Q	76	26.6
<b>Million Btu per Household<sup>3</sup></b>						
<b>Appliances Btu Consumption per Household, Fuels Used:</b>						
Electricity for:						
Refrigerators .....	5.1	5.7	3.8	3.5	4.7	2.2
Other Appliances and Lighting .....	18.2	21.3	11.7	8.9	17.5	2.5
Natural Gas .....	8.7	9.6	7.0	6.0	7.3	4.6
LPG .....	8.2	9.2	Q	Q	5.5	21.9
Total <sup>2</sup> .....	27.3	31.5	18.6	14.5	25.3	2.3

See footnotes at end of table.



**Table CE5-4c. Appliances<sup>1</sup> Energy Consumption in U.S. Households  
by Type of Housing Unit, 2001 - Preliminary Data (Continued)**

	Total	Type of Housing Unit			Mobile Home	RSE Row Factors
		Single-Family	Multifamily			
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.6	1.5	1.3	1.7	

**Physical Units per Household<sup>3</sup>**

**Physical Units of Appliances Consumption  
per Household, Fuels Used:**

	Total	Single-Family	Two to Four Units	Five or More Units	Mobile Home	RSE Row Factors
Electricity for:						
Refrigerators (kWh) .....	1,500	1,670	1,101	1,023	1,392	2.2
Other Appliances and Lighting (kWh) .....	5,346	6,245	3,433	2,606	5,118	2.5
Natural Gas (thousand cf) .....	8	9	7	6	7	4.6
LPG (gallons) .....	89	100	Q	Q	60	21.9

<sup>1</sup> Includes energy consumption for refrigeration and lighting.

<sup>2</sup> Includes a small amount of fuel oil and kerosene.

<sup>3</sup> Averages are for those households using each of the fuels for appliances.

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 CE5-5u. Appliances<sup>1</sup> Energy Consumption and Expenditures Per Household Member by Household Demographics, 2001 - Preliminary Data**

Household Demographics	Appliances Energy								RSE Row Factors
	Households (millions)	Total		Per Household		Number of Persons Per Household	Per Household Member		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)		Consumption (million Btu)	Expenditures (dollars)	
RSE Column Factor:	1.3	1.5	1.5	0.8	0.8	0.7	0.8	0.8	
<b>Total</b> .....	107.0	2.92	71.18	27.3	665	2.6	10.6	260	1.3
<b>Household Size</b>									
1 Person .....	28.2	0.46	11.85	16.3	421	1.0	16.3	421	1.8
2 Persons .....	35.1	0.94	22.86	26.6	651	2.0	13.3	325	2.0
3 Persons .....	17.0	0.52	12.59	30.5	740	3.0	10.2	247	2.6
4 Persons .....	15.6	0.54	12.99	34.9	834	4.0	8.7	209	2.8
5 Persons .....	7.1	0.29	6.91	41.1	971	5.0	8.2	194	5.8
6 or More Persons .....	4.0	0.17	3.98	41.8	996	6.7	6.2	148	4.6
<b>2001 Household Income Category</b>									
Less than \$9,999 .....	11.0	0.20	4.92	18.5	446	1.9	9.9	238	4.5
\$10,000 to \$14,999 .....	7.7	0.16	3.72	20.3	485	2.1	9.5	228	4.9
\$15,000 to \$19,999 .....	8.9	0.20	4.87	22.1	546	2.3	9.7	239	4.2
\$20,000 to \$29,999 .....	14.0	0.33	7.95	23.7	569	2.3	10.1	243	3.4
\$30,000 to \$39,999 .....	13.9	0.35	8.46	25.1	608	2.6	9.8	238	3.0
\$40,000 to \$49,999 .....	13.2	0.36	8.90	27.6	674	2.7	10.2	250	3.6
\$50,000 to \$74,999 .....	21.7	0.66	16.56	30.6	764	2.9	10.5	262	2.6
\$75,000 to \$99,999 .....	8.1	0.27	6.75	33.7	835	2.9	11.5	286	4.4
\$100,000 or More .....	8.6	0.38	9.05	44.3	1,058	3.0	14.5	347	5.1
<b>Income Relative to Poverty Line</b>									
Below 100 Percent .....	15.0	0.31	7.50	21.0	501	2.6	8.2	195	3.6
100 to 150 Percent .....	11.5	0.28	6.60	24.4	575	2.7	9.0	212	4.0
Above 150 Percent .....	80.5	2.32	57.09	28.8	709	2.5	11.3	279	1.4
<b>Eligible for Federal Assistance<sup>2</sup></b>									
Yes .....	33.8	0.78	18.83	23.1	557	2.7	8.7	210	2.2
No .....	73.2	2.14	52.35	29.2	715	2.5	11.6	284	1.5
<b>Age of Householder</b>									
Under 25 Years .....	6.1	0.13	3.13	21.0	510	2.6	7.9	193	4.9
25 to 34 Years .....	16.8	0.42	10.26	24.9	610	3.0	8.2	201	2.7
35 to 44 Years .....	22.3	0.69	16.58	31.0	742	3.3	9.4	225	2.8
45 to 54 Years .....	20.7	0.66	15.86	31.8	766	2.8	11.6	278	3.0
55 to 64 Years .....	14.5	0.41	10.20	28.1	702	2.1	13.2	329	3.2
65 to 74 Years .....	12.6	0.32	7.87	25.4	625	1.8	14.2	350	3.5
75 Years or More .....	13.8	0.29	7.28	20.8	526	1.7	12.6	319	3.4
<b>Race of Householder</b>									
Non-Hispanic .....	96.8	2.69	65.28	27.7	674	2.5	11.2	271	1.4
Non-Hispanic White .....	78.7	2.21	53.46	28.1	679	2.4	11.7	282	1.6
Non-Hispanic Black .....	12.7	0.36	8.59	28.0	675	2.7	10.4	252	4.0
Multi-racial <sup>3</sup> .....	0.9	0.02	0.57	25.0	653	2.8	8.9	232	13.6
Other <sup>4</sup> .....	4.5	0.10	2.66	21.9	590	3.3	6.6	179	6.8
Hispanic .....	10.2	0.23	5.90	22.7	580	3.3	6.9	177	4.8

<sup>1</sup> These consumption and expenditures amounts cover the total energy used for all appliances (including refrigerators and lighting) and any of the three fuels (electricity, natural gas, and LPG) used in the housing unit. They do not only cover the energy used for the appliance listed.

<sup>2</sup> Below 150 percent of poverty line or 60 percent of median State income.

<sup>3</sup> Respondents could select one or more race categories to describe themselves.

<sup>4</sup> Includes Native American, Native Alaskan, Asian, and Pacific Islander households.

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, B, C of the 2001 Residential Energy Consumption Survey.

The following table will be added at a later date.

- CE5-6u. Appliances Energy Consumption and Expenditures in U.S. Households by Usage Indicators, 2001

**Table CE5-7c. Appliances<sup>1</sup> Energy Consumption in U.S. Households  
by Four Most Populated States, 2001 - Preliminary Data**

	Total U.S.	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.1	1.0	1.2	2.0	
<b>Million Households</b>						
<b>Total U.S. Households</b> .....	107.0	7.1	12.3	7.7	6.3	NF
<b>Number of Households With Appliances, Fuels Used (more than one may apply):</b>						
Electricity for:						
Refrigerators .....	106.8	7.1	12.3	7.7	6.3	NF
Other Appliances and Lighting .....	107.0	7.1	12.3	7.7	6.3	NF
Natural Gas .....	42.6	4.5	7.8	3.3	0.7	9.1
LPG .....	5.6	0.5	0.6	Q	Q	26.5
<b>Quadrillion Btu</b>						
<b>Appliances Btu Consumption, Fuels Used:</b>						
Electricity for:						
Refrigerators .....	0.55	0.03	0.05	0.05	0.04	3.7
Other Appliances and Lighting .....	1.95	0.09	0.16	0.17	0.13	4.0
Natural Gas .....	0.37	0.03	0.08	0.03	(*)	13.9
LPG .....	0.05	(*)	(*)	Q	Q	39.8
Total <sup>2</sup> .....	2.92	0.16	0.29	0.25	0.17	3.0
<b>Physical Units</b>						
<b>Physical Units of Appliances Consumption, Fuels Used:</b>						
Electricity for:						
Refrigerators (billion kWh) .....	160	8	14	15	11	3.7
Other Appliances and Lighting (billion kWh) .....	572	27	47	50	38	4.0
Natural Gas (billion cf) .....	362	34	74	28	4	13.9
LPG (million gallons) .....	500	41	54	Q	Q	39.8
<b>Million Btu per Household<sup>3</sup></b>						
<b>Appliances Btu Consumption per Household, Fuels Used:</b>						
Electricity for:						
Refrigerators .....	5.1	3.9	3.9	6.6	5.9	3.6
Other Appliances and Lighting .....	18.2	12.9	13.0	22.1	20.5	4.0
Natural Gas .....	8.7	7.8	9.8	8.7	6.6	5.9
LPG .....	8.2	Q	8.8	Q	Q	46.1
Total <sup>2</sup> .....	27.3	22.2	23.4	32.5	27.4	3.0

See footnotes at end of table.

**Table CE5-7c. Appliances<sup>1</sup> Energy Consumption in U.S. Households by Four Most Populated States, 2001 - Preliminary Data (Continued)**

	Total U.S.	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.1	1.0	1.2	2.0	

**Physical Units per Household<sup>3</sup>**

**Physical Units of Appliances Consumption per Household, Fuels Used:**

Electricity for:						
Refrigerators (kWh) .....	1,500	1,142	1,136	1,930	1,737	3.6
Other Appliances and Lighting (kWh) .....	5,346	3,770	3,800	6,484	5,997	4.0
Natural Gas (thousand cf) .....	8	8	10	8	6	5.9
LPG (gallons) .....	89	Q	96	Q	Q	46.1

<sup>1</sup> Includes energy consumption for refrigeration and lighting.

<sup>2</sup> Includes a small amount of fuel oil and kerosene.

<sup>3</sup> Averages are for those households using each of the fuels for appliances.

(\*) = 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 2001 Residential Energy Consumption Survey.

**Table CE5-8c. Appliances<sup>1</sup> Energy Consumption in U.S. Households  
by Urban/Rural Location, 2001 - Preliminary Data**

	Urban/Rural Location <sup>2</sup>					RSE Row Factors
	Total	City	Town	Suburbs	Rural	
	0.5	0.8	1.5	1.3	1.2	
<b>Million Households</b>						
<b>Total U.S. Households</b> .....	107.0	49.9	18.0	21.2	17.9	4.2
<b>Number of Households With Appliances, Fuels Used (more than one may apply):</b>						
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
<b>Quadrillion Btu</b>						
<b>Appliances Btu Consumption, Fuels Used:</b>						
Electricity for:						
Refrigerators .....	0.55	0.23	0.09	0.12	0.10	4.2
Other Appliances and Lighting .....	1.95	0.77	0.33	0.43	0.41	4.3
Natural Gas .....	0.37	0.20	0.06	0.09	0.02	9.1
LPG .....	0.05	(*)	0.01	Q	0.02	22.9
Total <sup>3</sup> .....	2.92	1.21	0.49	0.66	0.55	4.2
<b>Physical Units</b>						
<b>Physical Units of Appliances Consumption, Fuels Used:</b>						
Electricity for:						
Refrigerators (billion kWh) .....	160	68	27	35	30	4.2
Other Appliances and Lighting (billion kWh) .....	572	226	97	127	121	4.3
Natural Gas (billion cf) .....	362	197	61	87	17	9.1
LPG (million gallons) .....	500	41	61	Q	229	22.9
<b>Million Btu per Household<sup>4</sup></b>						
<b>Appliances Btu Consumption per Household, Fuels Used:</b>						
Electricity for:						
Refrigerators .....	5.1	4.7	5.1	5.6	5.7	2.2
Other Appliances and Lighting .....	18.2	15.5	18.4	20.5	23.1	2.2
Natural Gas .....	8.7	8.2	9.8	9.8	7.2	5.5
LPG .....	8.2	7.0	6.7	Q	5.7	18.6
Total <sup>3</sup> .....	27.3	24.3	27.3	31.0	30.9	2.2

See footnotes at end of table.

**Table CE5-8c. Appliances<sup>1</sup> Energy Consumption in U.S. Households by Urban/Rural Location, 2001 - Preliminary Data (Continued)**

	Total	Urban/Rural Location <sup>2</sup>				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.5	0.8	1.5	1.3	1.2	
<b>Physical Units per Household<sup>4</sup></b>						
<b>Physical Units of Appliances Consumption per Household, Fuels Used:</b>						
Electricity for:						
Refrigerators (kWh) .....	1,500	1,373	1,503	1,645	1,674	2.2
Other Appliances and Lighting (kWh) .....	5,346	4,540	5,396	6,006	6,759	2.2
Natural Gas (thousand cf) .....	8	8	9	10	7	5.5
LPG (gallons) .....	89	76	73	Q	62	18.6

1 Includes energy consumption 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.  
(\*) = 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 2001 Residential Energy Consumption Survey.

**Table CE5-9c. Appliances<sup>1</sup> Energy Consumption in U.S. Households by Northeast Census Region, 2001 - Preliminary Data**

	Northeast Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.4	1.0	1.0	2.2	
<b>Million Households</b>					
<b>Total U.S. Households</b> .....	107.0	20.3	14.8	5.4	NF
<b>Number of Households With Appliances, Fuels Used (more than one may apply):</b>					
Electricity for:					
Refrigerators .....	106.8	20.2	14.8	5.4	NF
Other Appliances and Lighting .....	107.0	20.3	14.8	5.4	NF
Natural Gas .....	42.6	9.8	8.1	1.7	9.7
LPG .....	5.6	1.5	0.9	0.6	16.7
<b>Quadrillion Btu</b>					
<b>Appliances Btu Consumption, Fuels Used:</b>					
Electricity for:					
Refrigerators .....	0.55	0.09	0.07	0.02	2.4
Other Appliances and Lighting .....	1.95	0.30	0.22	0.08	3.5
Natural Gas .....	0.37	0.08	0.06	0.01	11.5
LPG .....	0.05	0.02	0.01	Q	43.8
Total <sup>2</sup> .....	2.92	0.49	0.36	0.13	3.4
<b>Physical Units</b>					
<b>Physical Units of Appliances Consumption, Fuels Used:</b>					
Electricity for:					
Refrigerators (billion kWh) .....	160	26	20	7	2.4
Other Appliances and Lighting (billion kWh) .....	572	89	65	23	3.5
Natural Gas (billion cf) .....	362	76	63	12	11.5
LPG (million gallons) .....	500	214	98	Q	43.8
<b>Million Btu per Household<sup>3</sup></b>					
<b>Appliances Btu Consumption per Household, Fuels Used:</b>					
Electricity for:					
Refrigerators .....	5.1	4.4	4.5	4.1	2.4
Other Appliances and Lighting .....	18.2	15.0	15.0	14.8	3.5
Natural Gas .....	8.7	7.9	8.0	7.6	4.4
LPG .....	8.2	13.3	10.3	Q	41.8
Total <sup>2</sup> .....	27.3	24.2	24.5	23.3	3.4
<b>Physical Units per Household<sup>3</sup></b>					
<b>Physical Units of Appliances Consumption per Household, Fuels Used:</b>					
Electricity for:					
Refrigerators (kWh) .....	1,500	1,289	1,317	1,212	2.4
Other Appliances and Lighting (kWh) .....	5,346	4,387	4,404	4,341	3.5
Natural Gas (thousand cf) .....	8	8	8	7	4.4
LPG (gallons) .....	89	145	112	Q	41.7

<sup>1</sup> Includes energy consumption for refrigeration and lighting.

<sup>2</sup> Includes a small amount of fuel oil and kerosene.

<sup>3</sup> Averages are for those households using each of the fuels for appliances.

NF = No applicable RSE row factor.

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

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

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

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



**Table CE5-10c. Appliances<sup>1</sup> Energy Consumption in U.S. Households by Midwest Census Region, 2001 - Preliminary Data**

	Midwest Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			East North Central	West North Central	
	0.7	0.9	1.3	1.2	
RSE Column Factor:					
<b>Million Households</b>					
<b>Total U.S. Households</b> .....	107.0	24.5	17.1	7.4	NF
<b>Number of Households With Appliances, Fuels Used (more than one may apply):</b>					
Electricity for:					
Refrigerators .....	106.8	24.5	17.1	7.4	NF
Other Appliances and Lighting .....	107.0	24.5	17.1	7.4	NF
Natural Gas .....	42.6	11.3	8.8	2.5	6.4
LPG .....	5.6	1.2	0.5	0.7	24.5
<b>Quadrillion Btu</b>					
<b>Appliances Btu Consumption, Fuels Used:</b>					
Electricity for:					
Refrigerators .....	0.55	0.13	0.09	0.04	2.1
Other Appliances and Lighting .....	1.95	0.47	0.32	0.15	1.9
Natural Gas .....	0.37	0.10	0.08	0.02	8.7
LPG .....	0.05	0.01	(*)	(*)	30.6
Total <sup>2</sup> .....	2.92	0.70	0.49	0.21	1.9
<b>Physical Units</b>					
<b>Physical Units of Appliances Consumption, Fuels Used:</b>					
Electricity for:					
Refrigerators (billion kWh) .....	160	37	25	12	2.1
Other Appliances and Lighting (billion kWh) .....	572	138	93	45	1.9
Natural Gas (billion cf) .....	362	94	78	16	8.7
LPG (million gallons) .....	500	58	25	33	30.6
<b>Million Btu per Household<sup>3</sup></b>					
<b>Appliances Btu Consumption per Household, Fuels Used:</b>					
Electricity for:					
Refrigerators .....	5.1	5.2	5.1	5.5	2.1
Other Appliances and Lighting .....	18.2	19.2	18.6	20.5	1.9
Natural Gas .....	8.7	8.6	9.1	6.6	4.9
LPG .....	8.2	4.4	4.4	4.4	8.2
Total <sup>2</sup> .....	27.3	28.5	28.5	28.7	1.9

See footnotes at end of table.

**Table CE5-10c. Appliances<sup>1</sup> Energy Consumption in U.S. Households  
by Midwest Census Region, 2001 - Preliminary Data (Continued)**

	Total U.S.	Midwest Census Region			RSE Row Factors
		Total	Census Division		
			East North Central	West North Central	
RSE Column Factor:	0.7	0.9	1.3	1.2	
<b>Physical Units per Household<sup>3</sup></b>					
<b>Physical Units of Appliances Consumption per Household, Fuels Used:</b>					
Electricity for:					
Refrigerators (kWh) .....	1,500	1,524	1,480	1,624	2.1
Other Appliances and Lighting (kWh) .....	5,346	5,617	5,445	6,014	1.9
Natural Gas (thousand cf) .....	8	8	9	6	4.9
LPG (gallons) .....	89	48	48	48	8.2

<sup>1</sup> Includes energy consumption for refrigeration and lighting.

<sup>2</sup> Includes a small amount of fuel oil and kerosene.

<sup>3</sup> Averages are for those households using each of the fuels for appliances.

(\*) = 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 2001 Residential Energy Consumption Survey.

**Table CE5-11c. Appliances<sup>1</sup> Energy Consumption in U.S. Households by South Census Region, 2001 - Preliminary Data**

	South Census Region					RSE Row Factors
	Total U.S.	Census Division			Total	
		Total	South Atlantic	East South Central		
RSE Column Factor:	0.5	0.8	1.3	1.5	1.3	
<b>Million Households</b>						
<b>Total U.S. Households</b> .....	107.0	38.9	20.3	6.8	11.8	NF
<b>Number of Households With Appliances, Fuels Used (more than one may apply):</b>						
Electricity for:						
Refrigerators .....	106.8	38.9	20.3	6.8	11.8	NF
Other Appliances and Lighting .....	107.0	38.9	20.3	6.8	11.8	NF
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
<b>Quadrillion Btu</b>						
<b>Appliances Btu Consumption, Fuels Used:</b>						
Electricity for:						
Refrigerators .....	0.55	0.23	0.11	0.04	0.08	2.9
Other Appliances and Lighting .....	1.95	0.82	0.41	0.15	0.25	2.5
Natural Gas .....	0.37	0.10	0.05	0.01	0.05	13.1
LPG .....	0.05	0.01	0.01	(*)	(*)	25.2
Total <sup>2</sup> .....	2.92	1.16	0.58	0.21	0.37	2.2
<b>Physical Units</b>						
<b>Physical Units of Appliances Consumption, Fuels Used:</b>						
Electricity for:						
Refrigerators (billion kWh) .....	160	67	33	12	22	2.9
Other Appliances and Lighting (billion kWh) .....	572	240	121	45	74	2.5
Natural Gas (billion cf) .....	362	100	45	11	45	13.1
LPG (million gallons) .....	500	132	75	41	16	25.2
<b>Million Btu per Household<sup>3</sup></b>						
<b>Appliances Btu Consumption per Household, Fuels Used:</b>						
Electricity for:						
Refrigerators .....	5.1	5.9	5.5	6.0	6.4	2.9
Other Appliances and Lighting .....	18.2	21.0	20.3	22.5	21.3	2.5
Natural Gas .....	8.7	9.0	9.3	8.9	8.7	6.3
LPG .....	8.2	6.4	7.0	6.2	4.7	18.8
Total <sup>2</sup> .....	27.3	29.8	28.5	30.8	31.7	2.2

See footnotes at end of table.

**Table CE5-11c. Appliances<sup>1</sup> Energy Consumption in U.S. Households  
by South Census Region, 2001 - Preliminary Data (Continued)**

	Total U.S.	South Census Region				RSE Row Factors
		Total	Census Division			
			South Atlantic	East South Central	West South Central	
RSE Column Factor:	0.5	0.8	1.3	1.5	1.3	

**Physical Units per Household<sup>3</sup>**

**Physical Units of Appliances Consumption  
per Household, Fuels Used:**

Electricity for:						
Refrigerators (kWh) .....	1,500	1,715	1,617	1,751	1,864	2.9
Other Appliances and Lighting (kWh) .....	5,346	6,158	5,961	6,609	6,237	2.5
Natural Gas (thousand cf) .....	8	9	9	9	8	6.3
LPG (gallons) .....	89	70	77	68	52	18.8

<sup>1</sup> Includes energy consumption for refrigeration and lighting.

<sup>2</sup> Includes a small amount of fuel oil and kerosene.

<sup>3</sup> Averages are for those households using each of the fuels for appliances.

(\*) = 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 2001 Residential Energy Consumption Survey.

**Table CE5-12c. Appliances<sup>1</sup> Energy Consumption in U.S. Households  
by West Census Region, 2001 - Preliminary Data**

	West Census Region				RSE Row Factors
	Total U.S.	Census Division			
		Total	Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.6	1.2	
<b>Million Households</b>					
<b>Total U.S. Households</b> .....	107.0	23.3	6.7	16.6	NF
<b>Number of Households With Appliances, Fuels Used (more than one may apply):</b>					
Electricity for:					
Refrigerators .....	106.8	23.2	6.7	16.5	NF
Other Appliances and Lighting .....	107.0	23.3	6.7	16.6	NF
Natural Gas .....	42.6	10.0	1.8	8.1	4.8
LPG .....	5.6	1.0	Q	0.7	18.5
<b>Quadrillion Btu</b>					
<b>Appliances Btu Consumption, Fuels Used:</b>					
Electricity for:					
Refrigerators .....	0.55	0.10	0.03	0.07	2.6
Other Appliances and Lighting .....	1.95	0.36	0.12	0.24	2.7
Natural Gas .....	0.37	0.09	0.02	0.08	8.9
LPG .....	0.05	0.01	(*)	0.01	27.5
Total <sup>2</sup> .....	2.92	0.57	0.17	0.39	2.6
<b>Physical Units</b>					
<b>Physical Units of Appliances Consumption, Fuels Used:</b>					
Electricity for:					
Refrigerators (billion kWh) .....	160	30	10	20	2.6
Other Appliances and Lighting (billion kWh) .....	572	106	36	70	2.7
Natural Gas (billion cf) .....	362	92	15	77	8.9
LPG (million gallons) .....	500	96	30	66	27.5
<b>Million Btu per Household<sup>3</sup></b>					
<b>Appliances Btu Consumption per Household, Fuels Used:</b>					
Electricity for:					
Refrigerators .....	5.1	4.4	5.1	4.2	2.5
Other Appliances and Lighting .....	18.2	15.5	18.1	14.4	2.7
Natural Gas .....	8.7	9.5	8.4	9.7	6.4
LPG .....	8.2	8.6	Q	8.6	29.2
Total <sup>2</sup> .....	27.3	24.3	25.9	23.7	2.6

See footnotes at end of table.

**Table CE5-12c. Appliances<sup>1</sup> Energy Consumption in U.S. Households  
by West Census Region, 2001 - Preliminary Data (Continued)**

	West Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.6	1.2	
<b>Physical Units per Household<sup>3</sup></b>					
<b>Physical Units of Appliances Consumption per Household, Fuels Used:</b>					
Electricity for:					
Refrigerators (kWh) .....	1,500	1,296	1,481	1,221	2.5
Other Appliances and Lighting (kWh) .....	5,346	4,537	5,319	4,220	2.7
Natural Gas (thousand cf) .....	8	9	8	9	6.4
LPG (gallons) .....	89	94	Q	94	29.2

<sup>1</sup> Includes energy consumption for refrigeration and lighting.

<sup>2</sup> Includes a small amount of fuel oil and kerosene.

<sup>3</sup> Averages are for those households using each of the fuels for appliances.

(\*) = 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 2001 Residential Energy Consumption Survey.