

# 2001 Consumption and Expenditures Tables

## Appliances Consumption Tables

(25 pages, 76 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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**Table CE5-1c. Appliances<sup>1</sup> Energy Consumption in U.S. Households by Climate Zone, 2001**

	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	1.1	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<sup>a</sup></b>							
<b>Appliances Btu Consumption, Fuels Used:</b>							
Electricity for:							
Refrigerators .....	0.53	0.04	0.13	0.11	0.10	0.15	7.6
Other Appliances and Lighting .....	1.98	0.18	0.52	0.43	0.37	0.48	7.7
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	24.5
Total <sup>3</sup> .....	2.94	0.24	0.78	0.64	0.56	0.71	7.3
<b>Physical Units<sup>a</sup></b>							
<b>Physical Units of Appliances Consumption, Fuels Used:</b>							
Electricity for:							
Refrigerators (billion kWh) .....	156	12	38	33	29	44	7.6
Other Appliances and Lighting (billion kWh) .....	581	52	154	127	108	142	7.7
Natural Gas (billion cf) .....	362	16	111	81	87	66	11.2
LPG (million gallons) .....	509	75	Q	107	71	92	24.5
<b>Million Btu per Household<sup>4,a</sup></b>							
<b>Appliances Btu Consumption per Household, Fuels Used:</b>							
Electricity for:							
Refrigerators .....	5.0	4.6	4.6	4.6	4.7	6.2	2.9
Other Appliances and Lighting .....	18.5	19.2	18.3	18.0	17.5	20.1	2.9
Natural Gas .....	8.7	7.1	8.7	8.3	9.7	8.7	5.4
LPG .....	8.3	6.3	Q	8.5	6.4	8.4	23.2
Total <sup>3</sup> .....	27.5	26.3	27.4	26.6	26.8	29.5	2.6

See footnotes at end of table.

**Table CE5-1c. Appliances<sup>1</sup> Energy Consumption in U.S. Households by Climate Zone, 2001 (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	1.1	1.0		

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

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

Electricity for:							
Refrigerators (kWh) .....	1,462	1,347	1,334	1,358	1,385	1,827	2.9
Other Appliances and Lighting (kWh) .....	5,435	5,622	5,362	5,270	5,129	5,880	2.9
Natural Gas (thousand cf) .....	8	7	8	8	9	8	5.4
LPG (gallons) .....	91	69	Q	93	70	92	23.2

<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.

<sup>a</sup> 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 CE5-2c. Appliances<sup>1</sup> Energy Consumption in U.S. Households by Year of Construction, 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	1.1	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<sup>a</sup></b>								
<b>Appliances Btu Consumption, Fuels Used:</b>								
Electricity for:								
Refrigerators .....	0.53	0.08	0.10	0.10	0.07	0.07	0.12	4.5
Other Appliances and Lighting .....	1.98	0.35	0.36	0.35	0.24	0.25	0.44	4.5
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	27.7
Total <sup>3</sup> .....	2.94	0.49	0.51	0.50	0.35	0.39	0.70	4.5
<b>Physical Units<sup>a</sup></b>								
<b>Physical Units of Appliances Consumption, Fuels Used:</b>								
Electricity for:								
Refrigerators (billion kWh) .....	156	23	28	29	19	21	35	4.5
Other Appliances and Lighting (billion kWh) .....	581	102	106	102	70	74	128	4.5
Natural Gas (billion cf) .....	362	58	45	43	44	54	117	9.6
LPG (million gallons) .....	509	60	73	79	42	58	196	27.7
<b>Million Btu per Household<sup>4,a</sup></b>								
<b>Appliances Btu Consumption per Household, Fuels Used:</b>								
Electricity for:								
Refrigerators .....	5.0	5.1	5.3	5.3	4.8	5.1	4.5	2.6
Other Appliances and Lighting .....	18.5	22.4	19.8	18.6	17.3	17.8	16.4	2.6
Natural Gas .....	8.7	11.3	9.9	8.6	7.8	8.4	8.1	5.8
LPG .....	8.3	8.2	6.9	7.1	5.5	7.7	11.6	22.3
Total <sup>3</sup> .....	27.5	31.7	28.0	26.6	25.7	27.3	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, 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	1.1	1.0	

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

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

Electricity for:								
Refrigerators (kWh) .....	1,462	1,485	1,559	1,549	1,401	1,504	1,330	2.6
Other Appliances and Lighting (kWh) .....	5,435	6,576	5,800	5,444	5,074	5,230	4,810	2.6
Natural Gas (thousand cf) .....	8	11	10	8	8	8	8	5.8
LPG (gallons) .....	91	90	76	78	60	85	127	22.3

<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.

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

(\*) = 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**

	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<sup>a</sup></b>								
<b>Appliances Btu Consumption, Fuels Used:</b>								
Electricity for:								
Refrigerators .....	0.53	0.05	0.14	0.13	0.22	0.06	0.15	3.6
Other Appliances and Lighting .....	1.98	0.12	0.45	0.50	0.91	0.20	0.51	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> .....	2.94	0.20	0.69	0.72	1.33	0.32	0.78	3.7
<b>Physical Units<sup>a</sup></b>								
<b>Physical Units of Appliances Consumption, Fuels Used:</b>								
Electricity for:								
Refrigerators (billion kWh) .....	156	13	41	38	64	18	44	3.6
Other Appliances and Lighting (billion kWh) .....	581	36	132	145	268	58	148	3.7
Natural Gas (billion cf) .....	362	32	81	83	167	48	109	7.5
LPG (million gallons) .....	509	18	124	86	281	45	143	20.6
<b>Million Btu per Household<sup>4,a</sup></b>								
<b>Appliances Btu Consumption per Household, Fuels Used:</b>								
Electricity for:								
Refrigerators .....	5.0	4.2	4.6	4.8	5.7	4.2	4.4	2.0
Other Appliances and Lighting .....	18.5	11.1	14.8	18.3	23.9	13.3	15.0	2.2
Natural Gas .....	8.7	6.9	7.1	8.2	10.8	7.5	7.8	3.5
LPG .....	8.3	3.3	6.0	5.2	15.2	5.5	6.3	13.3
Total <sup>3</sup> .....	27.5	18.3	22.5	26.5	34.7	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 (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	
<b>Physical Units per Household<sup>4,a</sup></b>								
<b>Physical Units of Appliances Consumption per Household, Fuels Used:</b>								
Electricity for:								
Refrigerators (kWh) .....	1,462	1,218	1,344	1,410	1,663	1,238	1,304	2.0
Other Appliances and Lighting (kWh) .....	5,435	3,239	4,335	5,360	6,998	3,889	4,391	2.2
Natural Gas (thousand cf) .....	8	7	7	8	11	7	8	3.5
LPG (gallons) .....	91	36	66	56	167	60	69	13.3

<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.

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

(\*) = 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**

	Total	Type of Housing Unit			Mobile Homes	RSE Row Factors
		Single-Family	Apartments in Buildings With			
			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	15.4
<b>Quadrillion Btu<sup>a</sup></b>						
<b>Appliances Btu Consumption, Fuels Used:</b>						
Electricity for:						
Refrigerators .....	0.53	0.41	0.03	0.05	0.03	4.6
Other Appliances and Lighting .....	1.98	1.60	0.11	0.14	0.13	4.7
Natural Gas .....	0.37	0.29	0.03	0.04	0.01	9.4
LPG .....	0.05	0.04	Q	Q	0.01	25.9
Total <sup>2</sup> .....	2.94	2.34	0.18	0.23	0.18	4.5
<b>Physical Units<sup>a</sup></b>						
<b>Physical Units of Appliances Consumption, Fuels Used:</b>						
Electricity for:						
Refrigerators (billion kWh) .....	156	120	10	16	10	4.6
Other Appliances and Lighting (billion kWh) .....	581	469	33	42	38	4.7
Natural Gas (billion cf) .....	362	285	29	34	13	9.4
LPG (million gallons) .....	509	424	Q	Q	79	25.9
<b>Million Btu per Household<sup>3,a</sup></b>						
<b>Appliances Btu Consumption per Household, Fuels Used:</b>						
Electricity for:						
Refrigerators .....	5.0	5.6	3.7	3.2	5.1	2.3
Other Appliances and Lighting .....	18.5	21.7	11.9	8.5	18.8	2.5
Natural Gas .....	8.7	9.6	7.0	6.0	7.3	4.6
LPG .....	8.3	9.3	Q	Q	5.7	21.2
Total <sup>2</sup> .....	27.5	31.8	18.8	13.7	27.0	2.2

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 (Continued)**

	Total	Type of Housing Unit			Mobile Homes	RSE Row Factors
		Single-Family	Apartments in Buildings With			
			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,a</sup>**

**Physical Units of Appliances Consumption**

**per Household, Fuels Used:**

Electricity for:						
Refrigerators (kWh) .....	1,462	1,629	1,085	932	1,498	2.3
Other Appliances and Lighting (kWh) .....	5,435	6,360	3,484	2,480	5,521	2.5
Natural Gas (thousand cf) .....	8	9	7	6	7	4.6
LPG (gallons) .....	91	102	Q	Q	62	21.2

<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.

<sup>a</sup> 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 CE5-5.1u. Appliances<sup>1</sup> Energy Consumption and Expenditures by Household Member and Demographics, 2001**

Household Demographics	Appliances Energy								RSE Row Factors
	Households (millions)	Total <sup>a</sup>		Per Household <sup>a</sup>			Per Household Member <sup>a</sup>		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	Household Members	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	2.94	71.66	27.5	670	2.6	10.7	261	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	26.7	651	2.0	13.3	326	2.0
3 Persons .....	17.0	0.52	12.65	30.6	743	3.0	10.2	248	2.7
4 Persons .....	15.6	0.55	13.29	35.5	853	4.0	8.9	213	2.8
5 Persons .....	7.1	0.30	7.00	41.9	984	5.0	8.4	197	5.8
6 or More Persons .....	4.0	0.17	4.01	42.2	1,004	6.7	6.3	149	4.6
<b>2001 Household Income Category</b>									
Less than \$9,999 .....	11.0	0.20	4.85	18.3	440	1.9	9.7	234	4.6
\$10,000 to \$14,999 .....	7.7	0.15	3.70	20.2	483	2.1	9.5	227	4.9
\$15,000 to \$19,999 .....	8.9	0.20	4.97	22.5	557	2.3	9.9	244	4.3
\$20,000 to \$29,999 .....	14.0	0.33	7.90	23.6	566	2.3	10.1	241	3.4
\$30,000 to \$39,999 .....	13.9	0.36	8.62	25.6	620	2.6	10.0	243	3.0
\$40,000 to \$49,999 .....	13.2	0.36	8.93	27.6	677	2.7	10.2	251	3.5
\$50,000 to \$74,999 .....	21.7	0.68	16.83	31.2	777	2.9	10.7	266	2.7
\$75,000 to \$99,999 .....	8.1	0.27	6.75	33.8	835	2.9	11.5	285	4.4
\$100,000 or More .....	8.6	0.38	9.12	44.6	1,066	3.0	14.6	350	5.3
<b>Income Relative to Poverty Line</b>									
Below 100 Percent .....	15.0	0.32	7.52	21.0	502	2.6	8.2	196	3.6
100 to 150 Percent .....	11.5	0.28	6.56	24.3	572	2.7	9.0	211	3.9
Above 150 Percent .....	80.5	2.34	57.58	29.1	715	2.5	11.4	281	1.4
<b>Eligible for Federal Assistance<sup>2</sup></b>									
Yes .....	33.8	0.78	18.85	23.1	558	2.7	8.7	210	2.2
No .....	73.2	2.16	52.81	29.5	722	2.5	11.7	286	1.5
<b>Age of Householder</b>									
Under 25 Years .....	6.1	0.13	3.13	21.0	510	2.6	7.9	193	4.8
25 to 34 Years .....	16.8	0.42	10.29	25.1	611	3.0	8.3	201	2.8
35 to 44 Years .....	22.3	0.70	16.87	31.5	755	3.3	9.6	229	2.9
45 to 54 Years .....	20.7	0.67	16.12	32.3	778	2.8	11.7	283	3.0
55 to 64 Years .....	14.5	0.41	10.21	28.3	703	2.1	13.3	330	3.2
65 to 74 Years .....	12.6	0.32	7.86	25.3	624	1.8	14.2	350	3.5
75 Years or More .....	11.2	0.22	5.49	19.5	488	1.5	13.0	325	4.2
No answer/refused .....	2.6	0.06	1.69	24.7	660	2.3	10.7	285	7.9
<b>Race of Householder</b>									
Non-Hispanic .....	96.8	2.71	65.78	28.0	679	2.5	11.2	273	1.4
Non-Hispanic White .....	78.7	2.23	53.98	28.3	686	2.4	11.8	285	1.6
Non-Hispanic Black .....	12.7	0.35	8.48	27.7	667	2.7	10.3	248	4.0
Multi-racial <sup>3</sup> .....	0.9	0.02	0.56	24.8	648	2.8	8.8	230	13.7
Other <sup>4</sup> .....	4.5	0.10	2.76	22.4	611	3.3	6.8	186	6.7
Hispanic .....	10.2	0.23	5.88	22.6	578	3.3	6.9	176	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.

<sup>a</sup> 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, B, C of the 2001 Residential Energy Consumption Survey.

**Table CE5-5.2u. Appliances<sup>1</sup> Energy Consumption and Expenditures by Square Feet and Household Demographics, 2001**

Household Demographics	Appliances Energy								RSE Row Factors
	Households (millions)	Total <sup>a</sup>		Per Household <sup>a</sup>			Per Square Feet <sup>a</sup>		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	Square Feet	Consumption (1000 Btu)	Expenditures (dollars)	
RSE Column Factor:	1.2	1.4	1.4	0.8	0.8	0.9	0.8	0.9	
<b>Total Households</b> .....	107.0	2.94	71.66	27.5	670	1,975	13.9	0.34	1.4
<b>Household Size</b>									
1 Person .....	28.2	0.46	11.85	16.3	421	1,433	11.4	0.29	2.1
2 Persons .....	35.1	0.94	22.86	26.7	651	2,079	12.8	0.31	2.2
3 Persons .....	17.0	0.52	12.65	30.6	743	2,100	14.6	0.35	3.0
4 Persons .....	15.6	0.55	13.29	35.5	853	2,343	15.2	0.36	3.2
5 Persons .....	7.1	0.30	7.00	41.9	984	2,317	18.1	0.42	5.7
6 or More Persons .....	4.0	0.17	4.01	42.2	1,004	2,308	18.3	0.43	5.5
<b>2001 Household Income Category</b>									
Less than \$9,999 .....	11.0	0.20	4.85	18.3	440	1,168	15.6	0.38	4.5
\$10,000 to \$14,999 .....	7.7	0.15	3.70	20.2	483	1,328	15.2	0.36	4.8
\$15,000 to \$19,999 .....	8.9	0.20	4.97	22.5	557	1,494	15.1	0.37	4.3
\$20,000 to \$29,999 .....	14.0	0.33	7.90	23.6	566	1,555	15.2	0.36	3.4
\$30,000 to \$39,999 .....	13.9	0.36	8.62	25.6	620	1,725	14.8	0.36	3.3
\$40,000 to \$49,999 .....	13.2	0.36	8.93	27.6	677	2,068	13.3	0.33	3.7
\$50,000 to \$74,999 .....	21.7	0.68	16.83	31.2	777	2,360	13.2	0.33	2.8
\$75,000 to \$99,999 .....	8.1	0.27	6.75	33.8	835	2,690	12.5	0.31	4.5
\$100,000 or More .....	8.6	0.38	9.12	44.6	1,066	3,395	13.1	0.31	5.1
<b>Income Relative to Poverty Line</b>									
Below 100 Percent .....	15.0	0.32	7.52	21.0	502	1,227	17.2	0.41	3.6
100 to 150 Percent .....	11.5	0.28	6.56	24.3	572	1,494	16.3	0.38	3.9
Above 150 Percent .....	80.5	2.34	57.58	29.1	715	2,183	13.3	0.33	1.5
<b>Eligible for Federal Assistance<sup>2</sup></b>									
Yes .....	33.8	0.78	18.85	23.1	558	1,435	16.1	0.39	2.3
No .....	73.2	2.16	52.81	29.5	722	2,225	13.2	0.32	1.7
<b>Age of Householder</b>									
Under 25 Years .....	6.1	0.13	3.13	21.0	510	1,154	18.2	0.44	4.8
25 to 34 Years .....	16.8	0.42	10.29	25.1	611	1,673	15.0	0.37	3.1
35 to 44 Years .....	22.3	0.70	16.87	31.5	755	2,096	15.0	0.36	3.0
45 to 54 Years .....	20.7	0.67	16.12	32.3	778	2,307	14.0	0.34	3.1
55 to 64 Years .....	14.5	0.41	10.21	28.3	703	2,207	12.8	0.32	3.5
65 to 74 Years .....	12.6	0.32	7.86	25.3	624	1,932	13.1	0.32	3.8
75 Years or More .....	11.2	0.22	5.49	19.5	488	1,773	11.0	0.28	4.4
No answer/refused .....	2.6	0.06	1.69	24.7	660	1,977	12.5	0.33	8.3
<b>Race of Householder</b>									
Non-Hispanic .....	96.8	2.71	65.78	28.0	679	2,035	13.7	0.33	1.5
Non-Hispanic White .....	78.7	2.23	53.98	28.3	686	2,087	13.6	0.33	1.7
Non-Hispanic Black .....	12.7	0.35	8.48	27.7	667	1,827	15.2	0.36	4.5
Multi-racial <sup>3</sup> .....	0.9	0.02	0.56	24.8	648	1,526	16.2	0.42	14.0
Other <sup>4</sup> .....	4.5	0.10	2.76	22.4	611	1,808	12.4	0.34	7.1
Hispanic .....	10.2	0.23	5.88	22.6	578	1,407	16.1	0.41	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.

<sup>a</sup> The column 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, B, C of the 2001 Residential Energy Consumption Survey.

**Table CE5-6.1u. Appliances<sup>1</sup> Energy Consumption and Expenditures by Household Member and Usage Indicators, 2001**

Usage Indicators	Appliances Energy								RSE Row Factors
	Households (millions)	Total <sup>a</sup>		Per Household <sup>a</sup>			Per Household Member <sup>a</sup>		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	Household Members	Consumption (million Btu)	Expenditures (dollars)	
	RSE Column Factor:	1.4	1.6	1.6	0.7	0.8	0.7	0.8	
<b>Total Households</b> .....	107.0	2.94	71.66	27.5	670	2.6	10.7	261	1.3
<b>Weekday Home Activities</b>									
<b>Home Used for Business</b>									
Yes .....	7.6	0.27	6.44	35.3	852	2.9	12.1	291	4.3
No/Don't Know .....	99.4	2.67	65.21	26.9	656	2.5	10.6	259	1.5
<b>Energy-Intensive Activity</b>									
Yes .....	1.7	0.06	1.55	36.3	909	2.8	13.2	329	9.9
No/Don't Know .....	105.3	2.88	70.11	27.3	666	2.6	10.7	260	1.3
<b>Someone Home All Day</b>									
Yes .....	53.0	1.54	37.56	29.1	709	2.7	10.7	261	1.9
No/Don't Know .....	54.0	1.39	34.10	25.8	632	2.4	10.7	262	1.7
<b>Total Floorspace Category<sup>2</sup></b> <b>(square feet)</b>									
Fewer than 500 .....	3.9	0.05	1.44	13.2	368	1.8	7.3	205	6.4
500 to 999 .....	21.8	0.38	9.42	17.5	433	2.1	8.4	209	3.0
1,000 to 1,499 .....	22.7	0.55	13.34	24.3	588	2.5	9.8	236	2.6
1,500 to 1,999 .....	16.6	0.47	11.48	28.3	690	2.7	10.6	257	2.8
2,000 to 2,499 .....	13.5	0.42	10.17	30.7	752	2.7	11.3	277	3.2
2,500 to 2,999 .....	9.3	0.29	7.17	31.2	768	2.7	11.5	283	3.8
3,000 to 3,499 .....	6.9	0.25	6.12	36.3	889	3.1	11.6	284	5.2
3,500 to 3,999 .....	4.1	0.16	4.05	40.3	1,000	3.2	12.6	313	5.7
4,000 or More .....	8.2	0.36	8.48	44.4	1,033	3.0	14.9	346	5.2
<b>Year of Construction</b>									
1939 or Before .....	19.0	0.49	12.28	25.8	648	2.5	10.4	261	3.6
1940 to 1949 .....	7.6	0.21	5.04	26.9	660	2.7	10.1	248	4.8
1950 to 1959 .....	14.2	0.39	9.67	27.3	682	2.5	10.9	273	3.0
1960 to 1969 .....	13.8	0.35	9.02	25.7	655	2.4	10.6	270	3.5
1970 to 1979 .....	18.8	0.50	11.95	26.6	637	2.5	10.7	255	3.2
1980 to 1989 .....	18.2	0.51	12.14	28.0	666	2.5	11.2	266	3.6
1990 to 1999 .....	14.5	0.46	10.79	31.6	742	2.9	10.8	254	5.3
2000 to 2001 <sup>3</sup> .....	0.9	0.03	0.77	33.9	844	3.4	10.1	250	15.2
<b>Housing Unit Type and Number of Bedrooms</b>									
<b>Mobile Homes</b> .....	6.8	0.18	4.11	27.0	604	2.6	10.5	234	5.7
Less than 3 Bedrooms .....	3.7	0.09	2.00	23.2	538	2.0	11.5	267	6.1
3 or More Bedrooms .....	3.1	0.10	2.11	31.6	683	3.3	9.7	209	7.8
<b>Single-Family Detached</b> .....	63.1	2.06	49.31	32.7	782	2.7	11.9	286	1.8
Less than 3 Bedrooms .....	12.3	0.30	7.07	24.3	577	2.0	12.3	292	3.1
3 Bedrooms .....	33.5	1.03	24.56	30.7	732	2.7	11.5	275	2.2
4 Bedrooms .....	14.4	0.57	13.79	39.4	961	3.3	11.8	288	3.4
5 or More Bedrooms .....	3.0	0.17	3.90	56.3	1,317	3.8	14.7	345	9.1
<b>Single-Family Attached</b> .....	10.6	0.28	6.92	26.5	654	2.7	9.9	244	5.1
Less than 3 Bedrooms .....	3.9	0.08	1.94	20.6	496	2.1	9.9	239	7.7
3 Bedrooms .....	4.6	0.13	3.22	28.2	704	2.7	10.4	260	6.9
4 or More Bedrooms .....	2.1	0.07	1.76	33.9	839	3.7	9.1	224	10.0
<b>Apartments in Buildings</b>									
<b>With 2 to 4 Units</b> .....	9.5	0.18	4.82	18.8	508	2.3	8.2	223	4.7
Less than 2 Bedrooms .....	2.6	0.04	0.94	13.5	360	1.7	7.9	211	10.1
2 Bedrooms .....	5.0	0.10	2.59	19.2	515	2.1	8.9	240	5.5
3 or More Bedrooms .....	1.8	0.05	1.29	25.1	696	3.4	7.3	202	8.9

See footnotes at end of table.

**Table CE5-6.1u. Appliances<sup>1</sup> Energy Consumption and Expenditures by Household Member and Usage Indicators, 2001 (Continued)**

Usage Indicators	Appliances Energy								RSE Row Factors
	Households (millions)	Total <sup>a</sup>		Per Household <sup>a</sup>			Per Household Member <sup>a</sup>		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	Household Members	Consumption (million Btu)	Expenditures (dollars)	
RSE Column Factor:	1.4	1.6	1.6	0.7	0.8	0.7	0.8	0.8	
<b>Apartments in Buildings</b>									
<b>With 5 or More Units</b> .....	17.0	0.23	6.49	13.7	382	2.0	6.9	191	3.9
Less than 2 Bedrooms .....	8.5	0.09	2.58	10.8	303	1.5	7.0	198	4.8
2 Bedrooms .....	7.0	0.11	2.98	15.4	424	2.3	6.8	186	6.5
3 or More Bedrooms .....	1.5	0.03	0.93	22.8	636	3.3	6.8	191	11.8

<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> Does **not** include floorspace for unheated garages.

<sup>3</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>a</sup> The column 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 CE5-6.2u. Appliances<sup>1</sup> Energy Consumption and Expenditures by Square Feet and Usage Indicators, 2001**

Usage Indicators	Appliances Energy								RSE Row Factors
	Households (millions)	Total <sup>a</sup>		Per Household <sup>a</sup>			Per Square Feet <sup>a</sup>		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	Square Feet	Consumption (1000 Btu)	Expenditures (dollars)	
	RSE Column Factor:	1.4	1.6	1.6	0.7	0.8	0.7	0.8	
<b>Total Households</b> .....	107.0	2.94	71.66	27.5	670	1,975	13.9	0.34	1.4
<b>Weekday Home Activities</b>									
<b>Home Used for Business</b>									
Yes .....	7.6	0.27	6.44	35.3	852	2,586	13.6	0.33	4.5
No/Don't Know .....	99.4	2.67	65.21	26.9	656	1,929	13.9	0.34	1.6
<b>Energy-Intensive Activity</b>									
Yes .....	1.7	0.06	1.55	36.3	909	2,529	14.4	0.36	9.6
No/Don't Know .....	105.3	2.88	70.11	27.3	666	1,966	13.9	0.34	1.4
<b>Someone Home All Day</b>									
Yes .....	53.0	1.54	37.56	29.1	709	2,065	14.1	0.34	2.0
No/Don't Know .....	54.0	1.39	34.10	25.8	632	1,887	13.7	0.33	1.7
<b>Total Floorspace Category<sup>2</sup> (square feet)</b>									
Fewer than 500 .....	3.9	0.05	1.44	13.2	368	402	32.7	0.92	5.6
500 to 999 .....	21.8	0.38	9.42	17.5	433	770	22.7	0.56	2.7
1,000 to 1,499 .....	22.7	0.55	13.34	24.3	588	1,232	19.7	0.48	2.4
1,500 to 1,999 .....	16.6	0.47	11.48	28.3	690	1,737	16.3	0.40	2.8
2,000 to 2,499 .....	13.5	0.42	10.17	30.7	752	2,227	13.8	0.34	3.0
2,500 to 2,999 .....	9.3	0.29	7.17	31.2	768	2,733	11.4	0.28	3.5
3,000 to 3,499 .....	6.9	0.25	6.12	36.3	889	3,226	11.2	0.28	5.0
3,500 to 3,999 .....	4.1	0.16	4.05	40.3	1,000	3,697	10.9	0.27	5.5
4,000 or More .....	8.2	0.36	8.48	44.4	1,033	5,280	8.4	0.20	4.9
<b>Year of Construction</b>									
1939 or Before .....	19.0	0.49	12.28	25.8	648	2,034	12.7	0.32	3.6
1940 to 1949 .....	7.6	0.21	5.04	26.9	660	1,853	14.5	0.36	5.2
1950 to 1959 .....	14.2	0.39	9.67	27.3	682	2,004	13.6	0.34	3.2
1960 to 1969 .....	13.8	0.35	9.02	25.7	655	1,836	14.0	0.36	3.7
1970 to 1979 .....	18.8	0.50	11.95	26.6	637	1,737	15.3	0.37	3.4
1980 to 1989 .....	18.2	0.51	12.14	28.0	666	1,925	14.5	0.35	3.6
1990 to 1999 .....	14.5	0.46	10.79	31.6	742	2,370	13.3	0.31	5.8
2000 to 2001 <sup>3</sup> .....	0.9	0.03	0.77	33.9	844	3,036	11.2	0.28	17.5
<b>Housing Unit Type and Number of Bedrooms</b>									
<b>Mobile Homes</b> .....	6.8	0.18	4.11	27.0	604	1,055	25.6	0.57	5.7
Less than 3 Bedrooms .....	3.7	0.09	2.00	23.2	538	835	27.8	0.65	5.9
3 or More Bedrooms .....	3.1	0.10	2.11	31.6	683	1,319	23.9	0.52	7.5
<b>Single-Family Detached</b> .....	63.1	2.06	49.31	32.7	782	2,428	13.5	0.32	1.9
Less than 3 Bedrooms .....	12.3	0.30	7.07	24.3	577	1,611	15.1	0.36	3.4
3 Bedrooms .....	33.5	1.03	24.56	30.7	732	2,288	13.4	0.32	2.4
4 Bedrooms .....	14.4	0.57	13.79	39.4	961	3,064	12.9	0.31	3.4
5 or More Bedrooms .....	3.0	0.17	3.90	56.3	1,317	4,305	13.1	0.31	8.8
<b>Single-Family Attached</b> .....	10.6	0.28	6.92	26.5	654	2,201	12.1	0.30	5.3
Less than 3 Bedrooms .....	3.9	0.08	1.94	20.6	496	1,548	13.3	0.32	7.2
3 Bedrooms .....	4.6	0.13	3.22	28.2	704	2,304	12.2	0.31	7.1
4 or More Bedrooms .....	2.1	0.07	1.76	33.9	839	3,193	10.6	0.26	8.9
<b>Apartments in Buildings</b>									
<b>With 2 to 4 Units</b> .....	9.5	0.18	4.82	18.8	508	1,393	13.5	0.36	4.8
Less than 2 Bedrooms .....	2.6	0.04	0.94	13.5	360	899	15.0	0.40	9.2
2 Bedrooms .....	5.0	0.10	2.59	19.2	515	1,403	13.7	0.37	5.9
3 or More Bedrooms .....	1.8	0.05	1.29	25.1	696	2,061	12.2	0.34	9.3

See footnotes at end of table.

**Table CE5-6.2u. Appliances<sup>1</sup> Energy Consumption and Expenditures by Square Feet and Usage Indicators, 2001 (Continued)**

Usage Indicators	Appliances Energy								RSE Row Factors
	Households (millions)	Total <sup>a</sup>		Per Household <sup>a</sup>			Per Square Feet <sup>a</sup>		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	Square Feet	Consumption (1000 Btu)	Expenditures (dollars)	
RSE Column Factor:	1.4	1.6	1.6	0.7	0.8	0.7	0.8	0.8	
<b>Apartments in Buildings</b>									
<b>With 5 or More Units</b> .....	17.0	0.23	6.49	13.7	382	847	16.2	0.45	3.8
Less than 2 Bedrooms .....	8.5	0.09	2.58	10.8	303	637	16.9	0.48	4.2
2 Bedrooms .....	7.0	0.11	2.98	15.4	424	1,009	15.3	0.42	6.5
3 or More Bedrooms .....	1.5	0.03	0.93	22.8	636	1,294	17.6	0.49	11.0

<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> Does **not** include floorspace for unheated garages.

<sup>3</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>a</sup> The column 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 CE5-7c. Appliances<sup>1</sup> Energy Consumption 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	1.1	0.9	1.3	2.0	
<b>Million Households</b>						
<b>Total U.S. Households</b> .....	107.0	7.1	12.3	7.7	6.3	NE
<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	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	26.7
<b>Quadrillion Btu<sup>a</sup></b>						
<b>Appliances Btu Consumption, Fuels Used:</b>						
Electricity for:						
Refrigerators .....	0.53	0.03	0.04	0.05	0.04	4.0
Other Appliances and Lighting .....	1.98	0.09	0.16	0.17	0.13	4.1
Natural Gas .....	0.37	0.03	0.08	0.03	(*)	13.9
LPG .....	0.05	(*)	(*)	Q	Q	39.8
Total <sup>2</sup> .....	2.94	0.16	0.29	0.25	0.18	3.0
<b>Physical Units<sup>a</sup></b>						
<b>Physical Units of Appliances Consumption, Fuels Used:</b>						
Electricity for:						
Refrigerators (billion kWh) .....	156	8	13	15	12	4.0
Other Appliances and Lighting (billion kWh) .....	581	27	48	50	38	4.1
Natural Gas (billion cf) .....	362	34	74	28	4	13.9
LPG (million gallons) .....	509	42	54	Q	Q	39.8
<b>Million Btu per Household<sup>3,a</sup></b>						
<b>Appliances Btu Consumption per Household, Fuels Used:</b>						
Electricity for:						
Refrigerators .....	5.0	3.7	3.5	6.7	6.3	3.9
Other Appliances and Lighting .....	18.5	12.9	13.1	22.0	20.4	4.1
Natural Gas .....	8.7	7.8	9.8	8.7	6.6	5.9
LPG .....	8.3	Q	8.7	Q	Q	45.0
Total <sup>2</sup> .....	27.5	22.0	23.3	32.6	27.7	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 (Continued)**

	Total U.S.	Four Most Populated States				RSE Row Factors
		New York	California	Texas	Florida	
RSE Column Factor:	0.4	1.1	0.9	1.3	2.0	

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

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

Electricity for:						
Refrigerators (kWh) .....	1,462	1,080	1,039	1,969	1,836	3.9
Other Appliances and Lighting (kWh) .....	5,435	3,793	3,850	6,460	5,990	4.1
Natural Gas (thousand cf) .....	8	8	10	8	6	5.9
LPG (gallons) .....	91	Q	95	Q	Q	45.0

<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.

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

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

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

	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<sup>a</sup></b>						
<b>Appliances Btu Consumption, Fuels Used:</b>						
Electricity for:						
Refrigerators .....	0.53	0.22	0.09	0.12	0.10	4.2
Other Appliances and Lighting .....	1.98	0.78	0.34	0.45	0.42	4.3
Natural Gas .....	0.37	0.20	0.06	0.09	0.02	9.1
LPG .....	0.05	(*)	0.01	Q	0.02	22.6
Total <sup>3</sup> .....	2.94	1.21	0.50	0.67	0.57	4.2
<b>Physical Units<sup>a</sup></b>						
<b>Physical Units of Appliances Consumption, Fuels Used:</b>						
Electricity for:						
Refrigerators (billion kWh) .....	156	66	26	34	30	4.2
Other Appliances and Lighting (billion kWh) .....	581	227	99	131	124	4.3
Natural Gas (billion cf) .....	362	197	61	87	17	9.1
LPG (million gallons) .....	509	42	62	Q	238	22.6
<b>Million Btu per Household<sup>4,a</sup></b>						
<b>Appliances Btu Consumption per Household, Fuels Used:</b>						
Electricity for:						
Refrigerators .....	5.0	4.5	5.0	5.5	5.8	2.1
Other Appliances and Lighting .....	18.5	15.5	18.8	21.0	23.7	2.2
Natural Gas .....	8.7	8.2	9.8	9.8	7.2	5.5
LPG .....	8.3	7.2	6.8	Q	5.9	17.5
Total <sup>3</sup> .....	27.5	24.2	27.5	31.4	31.7	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 (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	

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

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

Electricity for:						
Refrigerators (kWh) .....	1,462	1,323	1,454	1,599	1,695	2.1
Other Appliances and Lighting (kWh) .....	5,435	4,556	5,509	6,162	6,949	2.2
Natural Gas (thousand cf) .....	8	8	9	10	7	5.5
LPG (gallons) .....	91	79	75	Q	65	17.5

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

<sup>2</sup> Based on the household respondent's description rather than the Federal Government definition.

<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.

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

(\*) = 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**

	Northeast Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.4	1.0	1.1	2.1	
<b>Million Households</b>					
<b>Total U.S. Households</b> .....	107.0	20.3	14.8	5.4	NE
<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	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
<b>Quadrillion Btu<sup>a</sup></b>					
<b>Appliances Btu Consumption, Fuels Used:</b>					
Electricity for:					
Refrigerators .....	0.53	0.08	0.06	0.02	2.6
Other Appliances and Lighting .....	1.98	0.31	0.23	0.08	3.7
Natural Gas .....	0.37	0.08	0.06	0.01	11.5
LPG .....	0.05	0.02	0.01	Q	40.6
Total <sup>2</sup> .....	2.94	0.49	0.36	0.13	3.5
<b>Physical Units<sup>a</sup></b>					
<b>Physical Units of Appliances Consumption, Fuels Used:</b>					
Electricity for:					
Refrigerators (billion kWh) .....	156	25	19	6	2.6
Other Appliances and Lighting (billion kWh) .....	581	91	67	24	3.7
Natural Gas (billion cf) .....	362	76	63	12	11.5
LPG (million gallons) .....	509	213	97	Q	40.5
<b>Million Btu per Household<sup>3,a</sup></b>					
<b>Appliances Btu Consumption per Household, Fuels Used:</b>					
Electricity for:					
Refrigerators .....	5.0	4.2	4.3	3.9	2.5
Other Appliances and Lighting .....	18.5	15.3	15.3	15.3	3.7
Natural Gas .....	8.7	7.9	8.0	7.6	4.4
LPG .....	8.3	13.2	10.1	Q	38.5
Total <sup>2</sup> .....	27.5	24.3	24.5	23.5	3.5

See footnotes at end of table.

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

	Total U.S.	Northeast Census Region			RSE Row Factors
		Total	Census Division		
			Middle Atlantic	New England	
RSE Column Factor:	0.4	1.0	1.1	2.1	

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

<b>Physical Units of Appliances Consumption per Household, Fuels Used:</b>					
Electricity for:					
Refrigerators (kWh) .....	1,462	1,230	1,258	1,152	2.5
Other Appliances and Lighting (kWh) .....	5,435	4,480	4,480	4,480	3.7
Natural Gas (thousand cf) .....	8	8	8	7	4.4
LPG (gallons) .....	91	145	111	Q	38.5

<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.

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

	Midwest Census Region				RSE Row Factors
	Total U.S.	Total	Census Division		
			East North Central	West North Central	
	0.7	0.9	1.2	1.3	
RSE Column Factor:					
<b>Million Households</b>					
<b>Total U.S. Households</b> .....	107.0	24.5	17.1	7.4	NE
<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	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
<b>Quadrillion Btu<sup>a</sup></b>					
<b>Appliances Btu Consumption, Fuels Used:</b>					
Electricity for:					
Refrigerators .....	0.53	0.12	0.08	0.04	2.1
Other Appliances and Lighting .....	1.98	0.48	0.33	0.15	2.0
Natural Gas .....	0.37	0.10	0.08	0.02	8.7
LPG .....	0.05	0.01	(*)	(*)	30.0
Total <sup>2</sup> .....	2.94	0.70	0.49	0.21	1.9
<b>Physical Units<sup>a</sup></b>					
<b>Physical Units of Appliances Consumption, Fuels Used:</b>					
Electricity for:					
Refrigerators (billion kWh) .....	156	35	24	11	2.1
Other Appliances and Lighting (billion kWh) .....	581	140	95	45	2.0
Natural Gas (billion cf) .....	362	94	78	16	8.7
LPG (million gallons) .....	509	66	29	37	30.0
<b>Million Btu per Household<sup>3,a</sup></b>					
<b>Appliances Btu Consumption per Household, Fuels Used:</b>					
Electricity for:					
Refrigerators .....	5.0	4.9	4.8	5.2	2.1
Other Appliances and Lighting .....	18.5	19.5	19.1	20.7	2.0
Natural Gas .....	8.7	8.6	9.1	6.6	4.9
LPG .....	8.3	5.0	5.1	4.9	10.2
Total <sup>2</sup> .....	27.5	28.6	28.7	28.6	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 (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	1.2	1.3	

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

<b>Physical Units of Appliances Consumption per Household, Fuels Used:</b>					
Electricity for:					
Refrigerators (kWh) .....	1,462	1,438	1,398	1,531	2.1
Other Appliances and Lighting (kWh) .....	5,435	5,727	5,585	6,056	2.0
Natural Gas (thousand cf) .....	8	8	9	6	4.9
LPG (gallons) .....	91	54	56	53	10.2

<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.

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

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

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

	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	1.3	1.3	1.4	
<b>Million Households</b>						
<b>Total U.S. Households</b> .....	107.0	38.9	20.3	6.8	11.8	NE
<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	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
<b>Quadrillion Btu<sup>a</sup></b>						
<b>Appliances Btu Consumption, Fuels Used:</b>						
Electricity for:						
Refrigerators .....	0.53	0.23	0.11	0.04	0.08	2.9
Other Appliances and Lighting .....	1.98	0.83	0.42	0.16	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	(*)	(*)	22.5
Total <sup>2</sup> .....	2.94	1.18	0.59	0.21	0.38	2.1
<b>Physical Units<sup>a</sup></b>						
<b>Physical Units of Appliances Consumption, Fuels Used:</b>						
Electricity for:						
Refrigerators (billion kWh) .....	156	68	33	12	23	2.9
Other Appliances and Lighting (billion kWh) .....	581	242	123	46	74	2.5
Natural Gas (billion cf) .....	362	100	45	11	45	13.1
LPG (million gallons) .....	509	135	77	39	19	22.5
<b>Million Btu per Household<sup>3,a</sup></b>						
<b>Appliances Btu Consumption per Household, Fuels Used:</b>						
Electricity for:						
Refrigerators .....	5.0	6.0	5.6	6.0	6.6	2.9
Other Appliances and Lighting .....	18.5	21.3	20.6	22.9	21.4	2.5
Natural Gas .....	8.7	9.0	9.3	8.9	8.7	6.3
LPG .....	8.3	6.5	7.2	5.8	5.6	15.9
Total <sup>2</sup> .....	27.5	30.2	28.8	31.1	32.0	2.1

See footnotes at end of table.

**Table CE5-11c. Appliances<sup>1</sup> Energy Consumption in U.S. Households by South Census Region, 2001 (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	1.3	1.4	

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

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

	Total U.S.	Total	South Atlantic	East South Central	West South Central	RSE Row Factors
Electricity for:						
Refrigerators (kWh) .....	1,462	1,746	1,638	1,760	1,923	2.9
Other Appliances and Lighting (kWh) .....	5,435	6,232	6,039	6,714	6,284	2.5
Natural Gas (thousand cf) .....	8	9	9	9	8	6.3
LPG (gallons) .....	91	71	79	64	62	15.9

<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.

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

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

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

	West Census Region				RSE Row Factors
	Total U.S.	Census Division			
		Total	Mountain	Pacific	
	RSE Column Factor:	0.5	1.0	1.7	
<b>Million Households</b>					
<b>Total U.S. Households</b> .....	107.0	23.3	6.7	16.6	NE
<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	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	18.7
<b>Quadrillion Btu<sup>a</sup></b>					
<b>Appliances Btu Consumption, Fuels Used:</b>					
Electricity for:					
Refrigerators .....	0.53	0.10	0.03	0.06	2.7
Other Appliances and Lighting .....	1.98	0.37	0.12	0.24	3.1
Natural Gas .....	0.37	0.09	0.02	0.08	8.9
LPG .....	0.05	0.01	(*)	0.01	27.6
Total <sup>2</sup> .....	2.94	0.57	0.18	0.39	2.8
<b>Physical Units<sup>a</sup></b>					
<b>Physical Units of Appliances Consumption, Fuels Used:</b>					
Electricity for:					
Refrigerators (billion kWh) .....	156	28	10	18	2.7
Other Appliances and Lighting (billion kWh) .....	581	108	36	71	3.1
Natural Gas (billion cf) .....	362	92	15	77	8.9
LPG (million gallons) .....	509	96	30	66	27.6
<b>Million Btu per Household<sup>3,a</sup></b>					
<b>Appliances Btu Consumption per Household, Fuels Used:</b>					
Electricity for:					
Refrigerators .....	5.0	4.1	5.0	3.8	2.7
Other Appliances and Lighting .....	18.5	15.8	18.5	14.7	3.1
Natural Gas .....	8.7	9.5	8.4	9.7	6.4
LPG .....	8.3	8.6	Q	8.5	28.3
Total <sup>2</sup> .....	27.5	24.4	26.1	23.6	2.8

See footnotes at end of table.

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

	Total U.S.	West Census Region			RSE Row Factors
		Total	Census Division		
			Mountain	Pacific	
RSE Column Factor:	0.5	1.0	1.7	1.2	

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

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

Electricity for:					
Refrigerators (kWh) .....	1,462	1,213	1,455	1,115	2.7
Other Appliances and Lighting (kWh) .....	5,435	4,626	5,425	4,302	3.1
Natural Gas (thousand cf) .....	8	9	8	9	6.4
LPG (gallons) .....	91	94	Q	93	28.3

<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.

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

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

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.