

2001 Household Energy Consumption and Expenditures Tables

Table CE1-5.2u. Total Energy Consumption and Expenditures by Square Feet and Household Demographics, 2001

Household Demographics	Total End-Use Energy								RSE Row Factors
	Households (millions)	Total		Per Household			Per Square Feet		
		Consumption (quadrillion Btu)	Expenditures (billion dollars)	Consumption (million Btu)	Expenditures (dollars)	Square Feet	Consumption (1000 Btu)	Expenditures (dollars)	
RSE Column Factor:	1.3	1.5	1.4	0.8	0.7	0.9	0.8	0.8	
Total Households	107.0	9.86	159.74	92.2	1,493	1,975	46.7	0.76	1.3
Household Size									
1 Person	28.2	1.84	29.67	65.5	1,053	1,433	45.7	0.74	2.2
2 Persons	35.1	3.25	52.18	92.6	1,486	2,079	44.6	0.71	2.0
3 Persons	17.0	1.67	27.38	98.2	1,608	2,100	46.8	0.77	2.8
4 Persons	15.6	1.71	28.17	110.0	1,808	2,343	46.9	0.77	2.9
5 Persons	7.1	0.87	14.27	122.9	2,006	2,317	53.0	0.87	5.2
6 or More Persons	4.0	0.51	8.08	127.3	2,022	2,308	55.2	0.88	5.3
2001 Household Income Category									
Less than \$9,999	11.0	0.72	11.47	65.2	1,039	1,168	55.9	0.89	4.6
\$10,000 to \$14,999	7.7	0.53	8.62	69.7	1,124	1,328	52.5	0.85	4.4
\$15,000 to \$19,999	8.9	0.72	11.49	80.5	1,290	1,494	53.9	0.86	4.2
\$20,000 to \$29,999	14.0	1.17	18.38	83.4	1,315	1,555	53.6	0.85	3.1
\$30,000 to \$39,999	13.9	1.21	19.43	86.9	1,398	1,725	50.4	0.81	3.1
\$40,000 to \$49,999	13.2	1.22	20.03	92.8	1,518	2,068	44.9	0.73	3.6
\$50,000 to \$74,999	21.7	2.22	36.47	102.5	1,683	2,360	43.4	0.71	2.7
\$75,000 to \$99,999	8.1	0.91	14.75	112.5	1,825	2,690	41.8	0.68	4.2
\$100,000 or More	8.6	1.17	19.09	136.1	2,231	3,395	40.1	0.66	4.5
Income Relative to Poverty Line									
Below 100 Percent	15.0	1.06	17.04	70.7	1,138	1,227	57.6	0.93	3.8
100 to 150 Percent	11.5	0.95	15.19	83.0	1,324	1,494	55.6	0.89	3.7
Above 150 Percent	80.5	7.85	127.51	97.5	1,583	2,183	44.7	0.73	1.4
Eligible for Federal Assistance ¹									
Yes	33.8	2.70	42.94	79.9	1,270	1,435	55.7	0.89	2.4
No	73.2	7.16	116.80	97.9	1,596	2,225	44.0	0.72	1.5
Age of Householder									
Under 25 Years	6.1	0.40	7.04	65.9	1,148	1,154	57.1	1.00	4.6
25 to 34 Years	16.8	1.39	23.02	82.4	1,367	1,673	49.2	0.82	2.9
35 to 44 Years	22.3	2.24	36.35	100.1	1,626	2,096	47.7	0.78	2.6
45 to 54 Years	20.7	2.16	34.77	104.4	1,678	2,307	45.2	0.73	2.9
55 to 64 Years	14.5	1.41	23.14	97.3	1,593	2,207	44.1	0.72	3.1
65 to 74 Years	12.6	1.11	17.52	88.3	1,391	1,932	45.7	0.72	3.6
75 Years or More	11.2	0.92	13.98	81.4	1,243	1,773	45.9	0.70	4.0
No answer/refused	2.6	0.23	3.89	90.4	1,522	1,977	45.7	0.77	7.3
Race of Householder									
Non-Hispanic	96.8	9.15	147.60	94.5	1,524	2,035	46.5	0.75	1.4
Non-Hispanic White	78.7	7.49	120.71	95.2	1,533	2,087	45.6	0.73	1.6
Non-Hispanic Black	12.7	1.28	20.10	100.8	1,581	1,827	55.2	0.87	4.5
Multi-racial ²	0.9	0.07	1.17	75.4	1,343	1,526	49.4	0.88	12.9
Other ³	4.5	0.31	5.62	69.0	1,244	1,808	38.1	0.69	6.8
Hispanic	10.2	0.71	12.15	70.0	1,195	1,407	49.8	0.85	4.3

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

² Respondents could select one or more race categories to describe themselves.

³ 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-G of the 2001 Residential Energy Consumption Survey.

**Table CE1-3c. Total Energy Consumption in U.S. Households
by Household Income, 2001 (Continued)**

	Total	2001 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$29,999	\$30,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.5	1.7	0.9	1.0	0.9	1.4	0.9	
Physical Units per Household³								
Physical Units of Total Consumption per Household, Fuels Used:								
Electricity (kWh)	10,656	7,190	8,906	10,545	13,131	8,152	8,871	2.4
Natural Gas (thousand cf)	70	54	63	68	81	56	64	3.0
Fuel Oil (gallons)	589	492	527	562	667	471	553	5.7
Kerosene (gallons)	119	162	157	99	77	166	154	21.0
LPG (gallons)	440	308	450	455	456	352	411	9.9
Wood (cords)	1.3	3.5	1.9	1.5	0.9	2.4	2.1	18.4
Million Households								
Number of Households, Where the End Use Is:								
Space Heating ⁴	105.3	10.8	30.2	26.5	37.8	14.6	33.2	3.4
Electric Air-Conditioning ⁵	80.8	6.9	21.7	21.0	31.2	9.1	22.6	3.9
Water Heating ⁶	106.7	11.0	30.5	27.0	38.2	14.9	33.7	3.3
Refrigerators	106.8	11.0	30.5	27.1	38.3	14.9	33.7	3.3
Appliances	107.0	11.0	30.6	27.1	38.3	15.0	33.8	3.3
Quadrillion Btu^a								
Total Btu Consumption, Where the End Use Is:								
Space Heating	4.62	0.36	1.20	1.14	1.92	0.50	1.32	4.4
Electric Air-Conditioning	0.62	0.04	0.13	0.15	0.31	0.05	0.13	5.9
Water Heating	1.68	0.13	0.40	0.42	0.73	0.19	0.47	3.7
Refrigerators	0.53	0.05	0.14	0.13	0.22	0.06	0.15	3.6
Other Appliances and Lighting	2.40	0.16	0.55	0.59	1.11	0.25	0.63	3.8
Million Btu per Household^{3,a}								
Total Btu Consumption per Household, Where the End Use Is:								
Space Heating	43.9	33.1	39.7	43.1	50.8	34.1	39.7	3.4
Electric Air-Conditioning	7.7	5.1	5.9	7.2	9.9	5.8	5.8	4.0
Water Heating	15.8	11.5	13.2	15.5	19.2	12.9	14.0	2.3
Refrigerators	5.0	4.2	4.6	4.8	5.7	4.2	4.4	2.0
Other Appliances and Lighting	22.5	14.1	17.9	21.7	29.1	16.8	18.7	2.2

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

² The RECS cannot be used to accurately estimate the number of households that do not use electricity.

³ The averages for total and for appliances are over the set of all households; otherwise the averages are over the set of households using a given fuel or over the set using a given end use.

⁴ Households where the main or secondary space-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

⁵ The number of households, where the end use is electric air-conditioning, does not include households that did not use their equipment (0.9 million). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

⁶ Households where the main or secondary water-heating fuel is electricity, natural gas, fuel oil, kerosene, or LPG.

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

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

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

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

2005 Energy Consumption and Expenditures Tables

Table US1. Total Energy Consumption, Expenditures, and Intensities, 2005
Part 2: Household Characteristics

Household Characteristics	U.S. Households (millions)	Number of Members per Household	Floorspace per Household (Square Feet)	Energy Consumption ³				Energy Expenditures ³			
				Total U.S. (quadrillion Btu)	Per Household (million Btu)	Per Household Member (million Btu)	Per Square Foot (thousand Btu)	Total U.S. (billion Dollars)	Per Household (Dollars)	Per Household Member (Dollars)	Per Square Foot (Dollars)
Total.....	111.1	2.57	2,171	10.55	94.9	37.0	43.7	201.07	1,810	705	0.83
Household Size											
1 Person.....	30.0	1.00	1,671	2.12	70.7	70.7	42.3	38.69	1,288	1,288	0.77
2 Persons.....	34.8	2.00	2,297	3.36	96.4	48.2	42.0	64.30	1,847	923	0.80
3 Persons.....	18.4	3.00	2,324	1.91	104.1	34.7	44.8	36.86	2,004	668	0.86
4 Persons.....	15.9	4.00	2,460	1.72	108.4	27.1	44.1	33.47	2,111	528	0.86
5 Persons.....	7.9	5.00	2,539	0.92	117.1	23.4	46.1	18.05	2,288	458	0.90
6 or More Persons.....	4.1	6.75	2,246	0.51	123.8	18.3	55.1	9.68	2,370	351	1.06
2005 Household Income Category											
Less than \$10,000.....	9.9	1.92	1,393	0.73	73.7	38.3	52.9	13.40	1,353	703	0.97
\$10,000 to \$14,999.....	8.5	2.07	1,430	0.64	76.2	36.7	53.3	11.97	1,417	684	0.99
\$15,000 to \$19,999.....	8.4	2.19	1,518	0.66	78.8	36.0	51.9	12.13	1,448	661	0.95
\$20,000 to \$29,999.....	15.1	2.45	1,709	1.29	84.9	34.7	49.7	23.97	1,584	646	0.93
\$30,000 to \$39,999.....	13.6	2.62	1,937	1.18	86.2	32.9	44.5	22.84	1,674	639	0.86
\$40,000 to \$49,999.....	11.0	2.66	2,314	1.04	95.0	35.7	41.1	19.81	1,803	678	0.78
\$50,000 to \$74,999.....	19.8	2.76	2,361	1.97	99.2	35.9	42.0	38.15	1,924	697	0.81
\$75,000 to \$99,999.....	10.6	2.87	2,939	1.19	112.4	39.1	38.2	23.27	2,197	765	0.75
\$100,000 or More.....	14.2	3.05	3,311	1.85	130.5	42.8	39.4	35.51	2,507	821	0.76
Income Relative to Poverty Line											
Below 100 Percent.....	16.6	2.72	1,400	1.33	79.8	29.3	57.0	24.72	1,485	545	1.06
100 to 150 Percent.....	12.9	2.70	1,583	1.04	80.7	29.9	50.9	19.97	1,548	573	0.98
Above 150 Percent.....	81.5	2.52	2,421	8.18	100.3	39.9	41.4	156.37	1,918	762	0.79
Eligible for Federal Assistance¹											
Yes.....	38.6	2.67	1,598	3.21	83.1	31.2	52.0	60.12	1,559	584	0.98
No.....	72.5	2.52	2,475	7.34	101.2	40.2	40.9	140.95	1,944	773	0.79

Table US8. Average Consumption by Fuels Used, 2005
Physical Units per Household

	U.S. Households (millions)	Fuels Used (physical units of consumption per household using the fuel)					
		Electricity (kWh)	Natural Gas (thousand cf)	Fuel Oil (gallons)	Kerosene ⁴ (gallons)	LPG (gallons)	Wood (cords)
Household Size							
1 Person.....	30.0	7,485	56	719	80	398	1.3
2 Persons.....	34.8	11,675	67	756	62	495	1.6
3 Persons.....	18.4	13,241	70	738	Q	456	1.6
4 Persons.....	15.9	13,932	73	766	Q	462	1.0
5 Persons.....	7.9	14,864	78	721	Q	486	2.2
6 or More Persons.....	4.1	15,210	83	763	Q	366	1.8
2005 Household Income Category							
Less than \$10,000.....	9.9	7,854	59	758	64	430	3.1
\$10,000 to \$14,999.....	8.5	8,710	54	698	126	376	1.2
\$15,000 to \$19,999.....	8.4	9,506	59	628	Q	402	1.5
\$20,000 to \$29,999.....	15.1	10,040	67	675	Q	359	2.1
\$30,000 to \$39,999.....	13.6	11,431	59	695	Q	459	1.4
\$40,000 to \$49,999.....	11.0	11,658	64	787	Q	508	1.5
\$50,000 to \$74,999.....	19.8	12,440	68	682	Q	509	1.7
\$75,000 to \$99,999.....	10.6	13,559	79	837	Q	453	1.4
\$100,000 or More.....	14.2	15,382	82	944	Q	514	0.7
Income Relative to Poverty Line							
Below 100 Percent.....	16.6	9,038	61	706	98	448	2.2
100 to 150 Percent.....	12.9	10,342	59	703	120	315	2.6
Above 150 Percent.....	81.5	12,158	70	755	48	481	1.3
Eligible for Federal Assistance²							
Yes.....	38.6	9,664	62	691	105	383	2.0
No.....	72.5	12,446	70	775	43	490	1.3
Payment Method for Utilities							
All Paid by Household.....	97.5	12,046	70	751	79	461	1.5
Some Paid, Some in Rent.....	7.6	6,620	46	709	Q	340	Q
All Included in Rent.....	4.7	7,127	49	707	Q	Q	Q
Other Method.....	1.3	12,937	63	Q	N	650	Q

Table US8. Average Consumption by Fuels Used, 2005
Physical Units per Household

	U.S. Households (millions)	Fuels Used (physical units of consumption per household using the fuel)					
		Electricity (kWh)	Natural Gas (thousand cf)	Fuel Oil (gallons)	Kerosene ⁴ (gallons)	LPG (gallons)	Wood (cords)
Total.....	111.1	11,480	67	742	76	457	1.
Census Region and Division							
Northeast.....	20.6	8,227	82	798	54	387	2.
New England.....	5.5	7,432	88	855	62	450	1.
Middle Atlantic.....	15.1	8,514	80	762	Q	364	2.
Midwest.....	25.6	10,790	83	528	Q	652	1.
East North Central.....	17.7	10,479	89	535	Q	650	2.
West North Central.....	7.9	11,493	70	Q	Q	654	1.
South.....	40.7	14,895	52	569	80	381	1.
South Atlantic.....	21.7	14,721	57	576	85	343	1.
East South Central.....	6.9	15,928	56	Q	61	451	1.
West South Central.....	12.1	14,619	46	N	N	382	1.
West.....	24.2	9,230	53	566	Q	435	1.
Mountain.....	7.6	10,855	60	Q	N	501	1.
Pacific.....	16.6	8,492	50	673	Q	365	0.
Four Most Populated States							
New York.....	7.1	6,882	71	803	Q	374	3.
Florida.....	7.0	15,862	28	N	Q	Q	0.
Texas.....	8.0	15,149	44	N	N	291	0.
California.....	12.1	6,992	45	Q	N	376	0.
All Other States.....	76.9	11,829	75	723	81	493	1.
Urban/Rural Location (as Self-Reported)							
City.....	47.1	9,896	62	711	41	317	0.
Town.....	19.0	10,982	73	806	45	333	1.
Suburbs.....	22.7	12,598	74	808	Q	308	0.
Rural.....	22.3	14,108	61	700	103	525	2.
Climate Zone¹							
Less than 2,000 CDD and--							
Greater than 7,000 HDD.....	10.9	9,626	87	774	77	670	2.
5,500 to 7,000 HDD.....	26.1	9,440	86	807	71	463	1.
4,000 to 5,499 HDD.....	27.3	11,422	70	695	Q	438	1.
Fewer than 4,000 HDD.....	24.0	10,891	49	Q	69	419	1.
2000 CDD or More and--							
Less than 4,000 HDD.....	22.8	15,388	40	Q	Q	306	1.

Table US8. Average Consumption by Fuels Used, 2005
Physical Units per Household

	U.S. Households (millions)	Fuels Used (physical units of consumption per household using the fuel)					
		Electricity (kWh)	Natural Gas (thousand cf)	Fuel Oil (gallons)	Kerosene ⁴ (gallons)	LPG (gallons)	Wood (cords)
Type of Housing Unit							
Single-Family Detached.....	72.1	13,159	73	770	58	477	1.5
Single-Family Attached.....	7.6	9,240	68	649	Q	Q	0.5
Apartments in 2-4 Unit Buildings.....	7.8	7,460	66	687	N	Q	Q
Apartments in 5 or More Unit Buildings.....	16.7	7,001	41	721	Q	361	Q
Mobile Homes.....	6.9	11,787	53	476	140	395	1.6
Ownership of Housing Unit							
Owned.....	78.1	12,656	73	746	77	460	1.5
Single-Family Detached.....	64.1	13,311	74	765	60	475	1.5
Single-Family Attached.....	4.2	8,994	69	651	Q	Q	0.5
Apartments in 2-4 Unit Buildings.....	1.8	7,348	86	732	N	Q	Q
Apartments in 5 or More Unit Buildings.....	2.3	6,959	51	Q	N	Q	N
Mobile Homes.....	5.7	11,981	51	418	135	386	1.6
Rented.....	33.0	8,695	54	732	66	431	1.5
Single-Family Detached.....	8.0	11,940	67	821	Q	503	1.9
Single-Family Attached.....	3.4	9,539	65	Q	N	Q	Q
Apartments in 2-4 Unit Buildings.....	5.9	7,495	59	666	N	Q	Q
Apartments in 5 or More Unit Buildings.....	14.4	7,008	40	735	Q	363	Q
Mobile Homes.....	1.2	10,857	60	Q	Q	458	Q
Year of Construction							
Before 1940.....	14.7	9,114	84	789	48	443	2.3
1940 to 1949.....	7.4	8,741	69	744	Q	615	1.6
1950 to 1959.....	12.5	9,534	68	708	Q	445	1.4
1960 to 1969.....	12.5	10,703	67	736	Q	362	1.5
1970 to 1979.....	18.9	11,402	61	735	149	416	1.7
1980 to 1989.....	18.6	12,453	56	684	62	400	1.0
1990 to 1999.....	17.3	14,337	66	731	Q	459	1.1
2000 to 2005.....	9.2	13,969	64	616	Q	609	1.8
Total Floorspace (Square Feet)							
Fewer than 500.....	3.2	5,819	48	Q	Q	314	Q
500 to 999.....	23.8	7,881	46	654	89	362	1.8
1,000 to 1,499.....	20.8	10,520	62	716	Q	472	1.3
1,500 to 1,999.....	15.4	12,164	67	603	68	468	1.8
2,000 to 2,499.....	12.2	12,299	70	672	Q	541	1.1
2,500 to 2,999.....	10.3	12,679	73	798	Q	459	1.4
3,000 to 3,499.....	6.7	12,885	80	754	Q	378	1.5
3,500 to 3,999.....	5.2	13,623	84	817	Q	540	2.5
4,000 or More.....	13.3	16,754	91	871	Q	480	1.2

Table US8. Average Consumption by Fuels Used, 2005
Physical Units per Household

	U.S. Households (millions)	Fuels Used (physical units of consumption per household using the fuel)					
		Electricity (kWh)	Natural Gas (thousand cf)	Fuel Oil (gallons)	Kerosene ⁴ (gallons)	LPG (gallons)	Wood (cords)
Ethnic Origin of Householder							
Hispanic Descent.....	14.8	9,626	55	683	Q	400	1.4
Non-Hispanic Descent.....	96.3	11,765	69	751	77	463	1.5
Race of Householder³							
White.....	79.1	11,941	69	745	73	459	1.5
Hispanic.....	5.0	9,793	49	579	Q	472	1.4
Non-Hispanic.....	74.1	12,087	71	753	73	458	1.5
Black.....	13.4	11,071	70	733	94	457	1.3
Hispanic.....	0.3	9,680	54	Q	N	Q	Q
Non-Hispanic.....	13.1	11,106	71	752	94	451	1.3
Asian.....	3.3	8,449	57	Q	N	Q	Q
Multi-Racial.....	1.3	11,808	62	Q	Q	Q	Q
Other.....	7.1	10,193	52	785	Q	623	1.1
Undetermined (Race Reported as Hispanic).....	6.9	9,739	60	715	N	252	1.5

1 One of five climatically distinct areas, determined according to the 30-year average (1971-2000) of the annual heating and cooling degree-days. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

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

3 Respondents were permitted to select more than one racial category to describe themselves. The "Other" category includes Native Americans, Native Alaskans, and Pacific Islanders.

4 Kerosene consumption and expenditure estimates could only be calculated for space heating since too few cases in the sample had viable data for water heating and appliances. Therefore, total estimates for kerosene equal space heating estimates for kerosene.

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

N = No cases in the reporting sample.

(*) Number less than 0.5, 0.05, or 0.005 depending on the number of significant digits in the column, rounded to zero.

Notes: • Because of rounding, data may not sum to totals. • See "Glossary" for definition of terms used in this report.