

Table SH12. Consumption Intensity by Main Space Heating Fuel Used, 2005
Space Heating Intensity

	U.S. Households (millions)	Total U.S. Using a Major Space Heating Fuel ⁴ as Main (millions)	Main Space Heating Fuel Used [PU/{HDD*(HSF/1000)}]				
			Electricity	Natural Gas	Fuel Oil	Kerosene ⁵	LPG
Total	111.1	104.0	0.517	6.283	0.060	0.027	0.063
Census Region and Division							
Northeast.....	20.6	19.8	0.435	7.311	0.060	Q	0.075
New England.....	5.5	5.2	0.557	7.311	0.055	Q	Q
Middle Atlantic.....	15.1	14.6	0.425	7.318	0.064	Q	0.076
Midwest.....	25.6	24.2	0.372	5.472	0.039	Q	0.043
East North Central.....	17.7	16.7	0.366	5.705	0.040	Q	0.043
West North Central.....	7.9	7.5	0.377	4.862	Q	N	0.043
South.....	40.7	38.8	0.569	6.706	0.086	Q	0.093
South Atlantic.....	21.7	20.5	0.528	6.275	0.083	Q	0.069
East South Central.....	6.9	6.6	0.567	7.116	Q	Q	0.125
West South Central.....	12.1	11.7	0.708	6.821	N	N	0.107
West.....	24.2	21.2	0.576	6.147	0.085	Q	0.057
Mountain.....	7.6	6.9	0.482	4.925	Q	N	0.059
Pacific.....	16.6	14.2	0.624	7.154	Q	Q	Q
Four Most Populated States							
New York.....	7.1	6.7	0.432	8.080	0.068	Q	Q
Florida.....	7.0	6.3	0.862	10.381	N	Q	Q
Texas.....	8.0	7.7	0.712	6.075	N	N	Q
California.....	12.1	10.5	0.717	7.423	Q	N	Q
All Other States.....	76.9	72.8	0.471	5.941	0.057	0.026	0.062
Urban/Rural Location (as Self-Reported)							
City.....	47.1	44.1	0.583	7.485	0.077	Q	Q
Town.....	19.0	18.3	0.540	6.432	0.063	Q	Q
Suburbs.....	22.7	22.0	0.411	5.108	0.054	Q	Q
Rural.....	22.3	19.6	0.484	4.884	0.050	Q	0.062
Climate Zone¹							
Less than 2,000 CDD and--							
Greater than 7,000 HDD.....	10.9	10.1	0.305	4.421	0.046	Q	0.046
5,500 to 7,000 HDD.....	26.1	24.9	0.452	6.146	0.058	Q	0.052
4,000 to 5,499 HDD.....	27.3	26.1	0.418	6.624	0.070	Q	0.053
Fewer than 4,000 HDD.....	24.0	21.8	0.609	7.462	Q	Q	0.101
2000 CDD or More and--							
Less than 4,000 HDD.....	22.8	21.0	0.732	6.837	N	Q	0.141

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			Electricity	Natural Gas	Fuel Oil	Kerosene ⁵	LPG	
Type of Housing Unit								
Single-Family Detached.....	72.1	68.2	0.450	5.715	0.052	Q	0.057	
Single-Family Attached.....	7.6	7.3	0.473	6.697	0.050	Q	Q	
Apartments in 2-4 Unit Buildings.....	7.8	7.2	0.824	12.445	0.108	N	Q	
Apartments in 5 or More Unit Buildings.....	16.7	15.0	0.709	8.551	0.142	Q	Q	
Mobile Homes.....	6.9	6.3	0.846	8.777	0.114	0.040	0.106	
Ownership of Housing Unit								
Owned	78.1	73.8	0.473	5.611	0.053	0.026	0.061	
Single-Family Detached.....	64.1	60.6	0.442	5.509	0.052	Q	0.055	
Single-Family Attached.....	4.2	4.1	0.376	5.099	0.052	Q	Q	
Apartments in 2-4 Unit Buildings.....	1.8	1.8	Q	9.165	0.075	N	N	
Apartments in 5 or More Unit Buildings.....	2.3	2.1	0.599	6.076	Q	N	Q	
Mobile Homes.....	5.7	5.2	0.821	8.421	Q	Q	0.107	
Rented	33.0	30.1	0.676	9.750	0.094	Q	0.093	
Single-Family Detached.....	8.0	7.6	0.529	8.126	0.057	Q	0.094	
Single-Family Attached.....	3.4	3.2	0.582	10.755	Q	N	N	
Apartments in 2-4 Unit Buildings.....	5.9	5.4	0.835	14.580	0.142	N	Q	
Apartments in 5 or More Unit Buildings.....	14.4	12.9	0.731	9.104	0.133	Q	Q	
Mobile Homes.....	1.2	1.0	1.066	10.755	Q	Q	Q	
Year of Construction								
Before 1940.....	14.7	13.7	0.644	8.533	0.072	Q	0.065	
1940 to 1949.....	7.4	6.9	0.531	7.504	0.060	N	0.129	
1950 to 1959.....	12.5	11.9	0.585	7.274	0.070	Q	0.067	
1960 to 1969.....	12.5	11.3	0.585	7.149	0.050	Q	0.106	
1970 to 1979.....	18.9	17.2	0.615	6.787	0.053	Q	0.078	
1980 to 1989.....	18.6	17.6	0.508	5.435	0.057	Q	0.055	
1990 to 1999.....	17.3	16.5	0.464	4.152	0.035	Q	0.053	
2000 to 2005.....	9.2	8.8	0.415	3.623	0.028	N	0.049	

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			Electricity	Natural Gas	Fuel Oil	Kerosene ⁵	LPG	
Household Size								
1 Person.....	30.0	28.5	0.625	7.854	0.078	0.026	Q	0.066
2 Persons.....	34.8	32.6	0.530	6.086	0.060	Q	Q	0.065
3 Persons.....	18.4	17.2	0.466	5.980	0.061	Q	Q	0.061
4 Persons.....	15.9	14.7	0.449	5.681	0.049	Q	Q	0.059
5 Persons.....	7.9	7.3	0.447	5.600	0.040	Q	Q	0.051
6 or More Persons.....	4.1	3.6	0.567	5.661	Q	N	Q	Q
2005 Household Income Category								
Less than \$10,000.....	9.9	9.0	0.761	9.959	0.084	Q	Q	0.131
\$10,000 to \$14,999.....	8.5	7.9	0.746	10.036	0.065	Q	Q	0.080
\$15,000 to \$19,999.....	8.4	7.7	0.746	8.566	0.087	Q	Q	0.072
\$20,000 to \$29,999.....	15.1	14.0	0.568	8.332	0.075	Q	Q	0.074
\$30,000 to \$39,999.....	13.6	12.5	0.547	6.514	0.066	Q	Q	0.080
\$40,000 to \$49,999.....	11.0	10.4	0.509	6.367	0.063	Q	Q	0.055
\$50,000 to \$74,999.....	19.8	18.8	0.466	5.701	0.048	Q	Q	0.060
\$75,000 to \$99,999.....	10.6	10.0	0.442	4.574	0.047	N	Q	0.048
\$100,000 or More.....	14.2	13.6	0.350	4.803	0.053	N	Q	0.039
Income Relative to Poverty Line								
Below 100 Percent.....	16.6	14.9	0.738	10.338	0.072	Q	Q	0.123
100 to 150 Percent.....	12.9	11.8	0.669	8.347	0.073	Q	Q	0.070
Above 150 Percent.....	81.5	77.2	0.472	5.694	0.057	Q	Q	0.056
Eligible for Federal Assistance²								
Yes.....	38.6	35.2	0.660	8.561	0.070	0.030	Q	0.079
No.....	72.5	68.8	0.465	5.607	0.055	Q	Q	0.058
Payment Method for Utilities								
All Paid by Household.....	97.5	91.7	0.504	5.988	0.053	0.028	Q	0.063
Some Paid, Some in Rent.....	7.6	6.8	0.560	11.075	0.114	Q	Q	Q
All Included in Rent.....	4.7	4.3	0.893	10.403	0.149	Q	Q	Q
Other Method.....	1.3	1.2	1.055	9.310	Q	N	Q	Q

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			Electricity	Natural Gas	Fuel Oil	Kerosene ⁵	LPG	
Ethnic Origin of Householder								
Hispanic Descent.....	14.8	12.9	0.655	8.028	0.086	Q	0.081	
Non-Hispanic Descent.....	96.3	91.1	0.500	6.099	0.057	0.027	0.062	
Race of Householder³								
White.....	79.1	74.4	0.479	5.788	0.056	0.023	0.059	
Hispanic.....	5.0	4.4	0.653	7.415	0.078	Q	Q	
Non-Hispanic.....	74.1	70.0	0.469	5.712	0.055	0.023	0.059	
Black.....	13.4	13.1	0.620	8.871	0.078	Q	0.089	
Hispanic.....	0.3	0.3	Q	Q	Q	N	Q	
Non-Hispanic.....	13.1	12.7	0.620	8.855	0.079	Q	Q	
Asian.....	3.3	2.9	0.668	5.581	Q	N	N	
Multi-Racial.....	1.3	1.2	0.715	6.037	Q	N	Q	
Other.....	7.1	6.4	0.515	7.436	0.081	Q	0.089	
Undetermined (Race Reported as Hispanic).....	6.9	6.0	0.689	8.371	0.077	N	Q	
Age of Householder								
Under 25 Years.....	5.5	5.0	0.696	8.795	Q	Q	Q	
25 to 34 Years.....	18.2	17.0	0.548	6.466	0.060	Q	0.057	
35 to 44 Years.....	22.2	20.7	0.485	5.807	0.059	Q	0.061	
45 to 54 Years.....	23.3	22.0	0.454	5.710	0.055	Q	0.047	
55 to 64 Years.....	18.0	16.6	0.466	5.797	0.053	Q	0.067	
65 to 74 Years.....	12.3	11.5	0.605	6.906	0.055	Q	0.075	
75 Years or More.....	11.7	11.3	0.650	8.279	0.070	Q	0.084	
Adults Age 65 or Older in Household								
Yes.....	26.9	25.3	0.620	7.509	0.059	Q	0.079	
No.....	84.2	78.7	0.495	5.922	0.061	0.034	0.058	
Children Under Age 5 in Household								
Yes.....	15.0	14.0	0.506	5.768	0.047	Q	0.058	
No.....	96.1	90.0	0.519	6.371	0.061	0.027	0.063	
Children Age 5 to 16 in Household								
Yes.....	28.1	26.2	0.459	5.802	0.053	Q	0.058	
No.....	83.0	77.8	0.544	6.485	0.062	0.022	0.065	

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			Electricity	Natural Gas	Fuel Oil	Kerosene ⁵	LPG
Age of Main Heating Equipment Used by One Housing Unit							
Less than 2 Years.....	11.7	11.3	0.460	4.574	0.046	Q	0.064
2 to 4 Years.....	13.8	13.3	0.517	5.259	0.053	Q	0.071
5 to 9 Years.....	20.6	19.7	0.491	5.038	0.046	Q	0.066
10 to 19 Years.....	24.8	23.5	0.489	5.956	0.052	Q	0.053
20 Years or More.....	21.5	19.9	0.615	8.015	0.057	Q	0.073
Don't Know.....	8.6	8.1	0.653	7.998	0.080	N	Q
Used by Two or More Housing Units							
Less than 2 Years.....	0.3	0.3	Q	Q	Q	N	N
2 to 4 Years.....	0.4	0.4	Q	Q	Q	N	N
5 to 9 Years.....	0.6	0.6	Q	10.963	Q	N	N
10 to 19 Years.....	1.1	1.0	Q	10.432	Q	Q	Q
20 Years or More.....	2.7	2.4	0.650	11.725	0.187	N	Q
Don't Know.....	3.7	3.5	0.618	12.282	0.139	N	Q
Heated Floorspace (Square Feet)							
Fewer than 500.....	9.7	6.0	1.728	29.445	0.341	Q	Q
500 to 999.....	27.7	26.8	0.836	12.182	0.135	Q	0.157
1,000 to 1,499.....	26.0	25.4	0.621	8.790	0.095	Q	0.092
1,500 to 1,999.....	17.6	16.9	0.453	6.488	0.059	Q	0.056
2,000 to 2,499.....	10.7	10.2	0.381	4.957	0.050	Q	0.051
2,500 to 2,999.....	7.7	7.5	0.370	4.351	0.044	Q	Q
3,000 to 3,499.....	3.8	3.6	0.315	4.116	0.032	Q	Q
3,500 to 3,999.....	2.6	2.5	0.266	3.646	0.040	N	0.034
4,000 or More.....	5.2	5.0	0.195	2.521	0.024	N	0.027
Weekday Home Activities							
Home Used for Business							
Yes.....	8.9	8.3	0.449	5.060	0.047	Q	0.039
No.....	102.2	95.7	0.524	6.425	0.061	0.027	0.070
Energy-Intensive Activity							
Yes.....	2.2	2.1	0.602	5.256	Q	N	Q
No.....	108.9	101.8	0.516	6.312	0.060	0.027	0.064
Someone Home All Day							
Yes.....	56.4	52.4	0.534	6.625	0.061	0.027	0.072
No.....	54.7	51.6	0.503	5.940	0.058	Q	0.054

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Adequacy of Insulation								
Well Insulated.....	42.8	40.7	0.455	5.549	0.051	Q	0.050	
Adequately Insulated.....	46.3	43.5	0.536	6.211	0.063	0.012	0.073	
Poorly Insulated.....	19.0	17.4	0.664	8.150	0.084	0.045	0.108	
No Insulation.....	1.4	0.9	Q	13.389	Q	N	N	
Don't Know.....	1.7	1.5	0.566	9.421	Q	N	Q	
Home is Too Drafty During the Winter								
Never.....	62.9	58.9	0.500	5.801	0.056	0.016	0.054	
Some of the Time.....	32.4	30.4	0.527	6.562	0.064	Q	0.075	
Most of the Time.....	6.1	5.7	0.665	7.429	0.077	Q	0.106	
All of the Time.....	5.6	5.2	0.633	8.747	0.062	Q	0.099	
Don't Know.....	4.1	3.8	0.544	6.226	Q	N	Q	
Unusually High Ceilings								
Yes.....	27.2	25.9	0.396	5.040	0.047	Q	0.042	
No.....	76.9	71.8	0.558	6.920	0.063	0.022	0.067	
Not Asked (Mobile Homes).....	6.9	6.3	0.846	8.777	0.114	0.040	0.106	
Cathedral Ceilings (In Housing Units with High Ceilings)								
Yes.....	17.1	16.2	0.365	4.499	0.043	Q	0.040	
No.....	10.1	9.7	0.469	5.959	0.055	N	0.050	
Type of Glass in Windows								
Single-pane Glass.....	50.7	46.7	0.648	7.865	0.072	0.031	0.098	
Double-pane Glass								
Without Low-e Coating.....	50.6	48.0	0.436	5.691	0.057	Q	0.054	
With Low-e Coating.....	8.0	7.8	0.337	4.410	0.042	Q	0.046	
Triple-pane Glass								
Without Low-e Coating.....	1.0	0.9	Q	4.300	Q	N	Q	
With Low-e Coating.....	0.3	0.3	Q	Q	Q	N	Q	
Proportion of Original Windows Replaced								
All.....	22.4	21.4	0.446	6.472	0.060	Q	0.073	
Some.....	21.6	19.9	0.539	6.800	0.056	Q	0.063	
None.....	62.3	58.2	0.517	5.805	0.062	0.032	0.060	
Don't Know.....	4.7	4.4	0.722	9.232	Q	Q	Q	

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Thermostats								
Do Not Have a Thermostat	15.3	11.0	0.924	11.831	0.129	0.043	0.113	
Have a Thermostat	95.8	93.0	0.491	5.991	0.056	0.021	0.058	
1.....	84.5	82.1	0.505	6.148	0.059	0.020	0.060	
2 or More.....	11.3	10.9	0.404	5.098	0.046	Q	0.046	
Have a Programmable Thermostat								
Yes.....	33.1	32.5	0.420	5.189	0.050	Q	0.052	
No.....	62.7	60.5	0.529	6.703	0.058	Q	0.061	
Use of Programmable Thermostats								
Reduces Temperature During Day								
Yes.....	18.6	18.3	0.421	4.921	0.049	Q	0.054	
No.....	14.5	14.2	0.421	5.644	0.052	Q	0.050	
Reduces Temperature at Night								
Yes.....	21.5	21.1	0.411	4.922	0.051	Q	0.055	
No.....	11.6	11.4	0.435	5.872	0.049	Q	0.048	

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 The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

5 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.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 2005 Residential Energy Consumption Survey.