

Table SH13. Expenditures 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 [Cents/{HDD*(HSF/1000)}]				
			Electricity	Natural Gas	Fuel Oil	Kerosene ⁵	LPG
Total	111.1	104.0	4.60	6.99	12.27	5.07	10.53
Census Region and Division							
Northeast.....	20.6	19.8	5.15	8.81	12.33	Q	11.95
New England.....	5.5	5.2	7.46	9.33	11.14	Q	Q
Middle Atlantic.....	15.1	14.6	4.92	8.67	13.31	Q	13.46
Midwest.....	25.6	24.2	2.81	5.77	7.91	Q	6.55
East North Central.....	17.7	16.7	2.84	5.86	8.20	Q	6.62
West North Central.....	7.9	7.5	2.72	5.53	Q	N	6.46
South.....	40.7	38.8	5.00	7.95	17.94	Q	16.91
South Atlantic.....	21.7	20.5	4.66	7.56	17.41	Q	12.74
East South Central.....	6.9	6.6	4.22	8.78	Q	Q	22.79
West South Central.....	12.1	11.7	7.13	7.57	N	N	18.84
West.....	24.2	21.2	5.36	6.33	18.02	Q	9.88
Mountain.....	7.6	6.9	4.36	4.96	Q	N	9.90
Pacific.....	16.6	14.2	5.86	7.49	Q	Q	Q
Four Most Populated States							
New York.....	7.1	6.7	6.59	10.07	14.06	Q	Q
Florida.....	7.0	6.3	8.89	17.68	N	Q	Q
Texas.....	8.0	7.7	7.72	6.84	N	N	Q
California.....	12.1	10.5	8.96	8.14	Q	N	Q
All Other States.....	76.9	72.8	3.86	6.52	11.56	5.07	10.34
Urban/Rural Location (as Self-Reported)							
City.....	47.1	44.1	5.53	8.31	15.71	Q	Q
Town.....	19.0	18.3	4.70	7.17	12.75	Q	Q
Suburbs.....	22.7	22.0	3.58	5.73	11.23	Q	12.48
Rural.....	22.3	19.6	4.07	5.34	10.28	Q	10.31
Climate Zone¹							
Less than 2,000 CDD and--							
Greater than 7,000 HDD.....	10.9	10.1	2.92	4.50	9.14	Q	7.14
5,500 to 7,000 HDD.....	26.1	24.9	3.67	6.79	11.76	Q	8.03
4,000 to 5,499 HDD.....	27.3	26.1	3.44	7.59	14.52	Q	9.12
Fewer than 4,000 HDD.....	24.0	21.8	5.58	8.58	Q	Q	18.38
2000 CDD or More and--							
Less than 4,000 HDD.....	22.8	21.0	7.21	8.26	N	Q	27.20

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			Electricity	Natural Gas	Fuel Oil	Kerosene ⁵	LPG	
Type of Housing Unit								
Single-Family Detached.....	72.1	68.2	3.90	6.39	10.65	Q	9.39	
Single-Family Attached.....	7.6	7.3	4.25	7.51	10.21	Q	Q	
Apartments in 2-4 Unit Buildings.....	7.8	7.2	7.65	14.58	22.16	N	Q	
Apartments in 5 or More Unit Buildings.....	16.7	15.0	6.93	8.49	28.83	Q	Q	
Mobile Homes.....	6.9	6.3	7.13	9.96	23.85	8.03	18.76	
Ownership of Housing Unit								
Owned	78.1	73.8	4.11	6.30	10.99	4.94	10.01	
Single-Family Detached.....	64.1	60.6	3.82	6.16	10.60	Q	8.89	
Single-Family Attached.....	4.2	4.1	3.51	5.68	10.75	Q	Q	
Apartments in 2-4 Unit Buildings.....	1.8	1.8	Q	11.36	15.44	N	N	
Apartments in 5 or More Unit Buildings.....	2.3	2.1	6.08	6.12	Q	N	Q	
Mobile Homes.....	5.7	5.2	6.88	9.64	Q	Q	19.04	
Rented	33.0	30.1	6.32	10.59	19.00	Q	16.78	
Single-Family Detached.....	8.0	7.6	4.69	9.11	11.18	Q	17.68	
Single-Family Attached.....	3.4	3.2	5.09	12.15	Q	N	N	
Apartments in 2-4 Unit Buildings.....	5.9	5.4	7.83	16.55	28.95	N	Q	
Apartments in 5 or More Unit Buildings.....	14.4	12.9	7.13	9.02	27.02	Q	Q	
Mobile Homes.....	1.2	1.0	9.18	11.73	Q	Q	Q	
Year of Construction								
Before 1940.....	14.7	13.7	6.12	9.61	14.67	Q	10.66	
1940 to 1949.....	7.4	6.9	5.27	8.14	12.33	N	20.00	
1950 to 1959.....	12.5	11.9	5.47	8.22	14.37	Q	11.94	
1960 to 1969.....	12.5	11.3	5.25	8.04	10.28	Q	17.60	
1970 to 1979.....	18.9	17.2	5.35	7.51	11.04	Q	13.47	
1980 to 1989.....	18.6	17.6	4.46	5.94	11.60	Q	9.67	
1990 to 1999.....	17.3	16.5	4.07	4.53	6.92	Q	8.90	
2000 to 2005.....	9.2	8.8	3.73	4.10	5.45	N	7.54	

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			Electricity	Natural Gas	Fuel Oil	Kerosene ⁵	LPG	
Household Size								
1 Person.....	30.0	28.5	5.76	8.61	15.88	5.14	11.09	
2 Persons.....	34.8	32.6	4.54	6.89	12.33	Q	10.65	
3 Persons.....	18.4	17.2	3.99	6.72	12.70	Q	9.96	
4 Persons.....	15.9	14.7	4.14	6.21	10.01	Q	10.42	
5 Persons.....	7.9	7.3	4.07	6.25	8.02	Q	8.55	
6 or More Persons.....	4.1	3.6	5.34	6.21	Q	N	Q	
2005 Household Income Category								
Less than \$10,000.....	9.9	9.0	6.94	10.91	17.11	Q	23.16	
\$10,000 to \$14,999.....	8.5	7.9	6.89	10.50	13.29	Q	14.03	
\$15,000 to \$19,999.....	8.4	7.7	6.41	9.35	17.36	Q	13.18	
\$20,000 to \$29,999.....	15.1	14.0	5.01	9.18	15.35	Q	13.90	
\$30,000 to \$39,999.....	13.6	12.5	4.76	7.50	13.76	Q	13.26	
\$40,000 to \$49,999.....	11.0	10.4	4.50	7.15	12.65	Q	8.65	
\$50,000 to \$74,999.....	19.8	18.8	4.19	6.36	9.84	Q	9.34	
\$75,000 to \$99,999.....	10.6	10.0	3.83	5.35	9.56	N	8.06	
\$100,000 or More.....	14.2	13.6	3.20	5.27	11.01	N	6.13	
Income Relative to Poverty Line								
Below 100 Percent.....	16.6	14.9	6.63	11.19	14.65	Q	21.75	
100 to 150 Percent.....	12.9	11.8	6.14	9.18	14.88	Q	13.29	
Above 150 Percent.....	81.5	77.2	4.17	6.38	11.62	Q	9.11	
Eligible for Federal Assistance²								
Yes.....	38.6	35.2	5.99	9.37	14.29	5.75	14.26	
No.....	72.5	68.8	4.10	6.29	11.33	Q	9.32	
Payment Method for Utilities								
All Paid by Household.....	97.5	91.7	4.44	6.78	10.93	5.25	10.56	
Some Paid, Some in Rent.....	7.6	6.8	5.58	11.09	23.25	Q	Q	
All Included in Rent.....	4.7	4.3	8.80	9.30	30.28	Q	Q	
Other Method.....	1.3	1.2	8.95	9.87	Q	N	Q	

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			Electricity	Natural Gas	Fuel Oil	Kerosene ⁵	LPG	
Ethnic Origin of Householder								
Hispanic Descent.....	14.8	12.9	6.46	9.02	17.48	Q	13.45	
Non-Hispanic Descent.....	96.3	91.1	4.39	6.78	11.77	5.11	10.35	
Race of Householder³								
White.....	79.1	74.4	4.16	6.48	11.40	4.40	9.72	
Hispanic.....	5.0	4.4	6.12	8.40	16.23	Q	Q	
Non-Hispanic.....	74.1	70.0	4.06	6.39	11.28	4.41	9.73	
Black.....	13.4	13.1	5.54	9.78	15.96	Q	16.70	
Hispanic.....	0.3	0.3	Q	Q	Q	N	Q	
Non-Hispanic.....	13.1	12.7	5.53	9.72	16.16	Q	Q	
Asian.....	3.3	2.9	6.94	6.12	Q	N	N	
Multi-Racial.....	1.3	1.2	5.97	7.01	Q	N	Q	
Other.....	7.1	6.4	5.01	7.95	16.56	Q	15.92	
Undetermined (Race Reported as Hispanic).....	6.9	6.0	7.06	9.21	15.68	N	Q	
Age of Householder								
Under 25 Years.....	5.5	5.0	6.52	9.74	Q	Q	Q	
25 to 34 Years.....	18.2	17.0	4.95	7.19	12.04	Q	9.28	
35 to 44 Years.....	22.2	20.7	4.44	6.43	12.09	Q	10.33	
45 to 54 Years.....	23.3	22.0	3.88	6.34	11.29	Q	7.50	
55 to 64 Years.....	18.0	16.6	4.09	6.68	10.99	Q	10.89	
65 to 74 Years.....	12.3	11.5	5.17	7.60	11.43	Q	12.97	
75 Years or More.....	11.7	11.3	6.01	9.07	14.32	Q	14.74	
Adults Age 65 or Older in Household								
Yes.....	26.9	25.3	5.51	8.28	12.06	Q	13.77	
No.....	84.2	78.7	4.41	6.61	12.37	6.42	9.43	
Children Under Age 5 in Household								
Yes.....	15.0	14.0	4.69	6.54	9.63	Q	9.89	
No.....	96.1	90.0	4.59	7.07	12.58	5.10	10.57	
Children Age 5 to 16 in Household								
Yes.....	28.1	26.2	4.07	6.41	10.83	Q	9.95	
No.....	83.0	77.8	4.85	7.24	12.72	4.10	10.71	

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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	3.99	5.12	9.56	Q	10.59
2 to 4 Years.....	13.8	13.3	4.65	5.98	10.87	Q	10.96
5 to 9 Years.....	20.6	19.7	4.24	5.66	9.68	Q	11.20
10 to 19 Years.....	24.8	23.5	4.30	6.79	10.75	Q	8.99
20 Years or More.....	21.5	19.9	5.44	8.92	11.58	Q	12.71
Don't Know.....	8.6	8.1	6.02	8.80	15.84	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	9.63	Q	N	N
10 to 19 Years.....	1.1	1.0	Q	11.21	Q	Q	Q
20 Years or More.....	2.7	2.4	6.54	11.15	37.96	N	Q
Don't Know.....	3.7	3.5	7.14	12.95	28.19	N	Q
Heated Floorspace (Square Feet)							
Fewer than 500.....	9.7	6.0	16.15	33.09	66.91	Q	Q
500 to 999.....	27.7	26.8	7.94	13.21	27.63	Q	25.96
1,000 to 1,499.....	26.0	25.4	5.41	9.86	19.65	Q	16.25
1,500 to 1,999.....	17.6	16.9	3.88	7.32	12.10	Q	9.30
2,000 to 2,499.....	10.7	10.2	3.42	5.58	9.98	Q	8.55
2,500 to 2,999.....	7.7	7.5	3.18	4.82	8.95	Q	Q
3,000 to 3,499.....	3.8	3.6	2.41	4.66	6.76	Q	Q
3,500 to 3,999.....	2.6	2.5	2.35	3.97	8.31	N	5.09
4,000 or More.....	5.2	5.0	1.62	2.80	5.02	N	4.37
Weekday Home Activities							
Home Used for Business							
Yes.....	8.9	8.3	3.98	5.59	10.16	Q	6.43
No.....	102.2	95.7	4.67	7.16	12.52	5.07	11.72
Energy-Intensive Activity							
Yes.....	2.2	2.1	5.25	5.97	Q	N	Q
No.....	108.9	101.8	4.59	7.02	12.25	5.07	10.63
Someone Home All Day							
Yes.....	56.4	52.4	4.73	7.37	12.50	4.93	12.14
No.....	54.7	51.6	4.50	6.62	11.99	Q	8.97

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Adequacy of Insulation								
Well Insulated.....	42.8	40.7	4.05	6.11	10.36	Q	8.00	
Adequately Insulated.....	46.3	43.5	4.67	6.94	12.85	2.49	12.61	
Poorly Insulated.....	19.0	17.4	6.16	9.13	17.15	8.29	18.82	
No Insulation.....	1.4	0.9	Q	13.97	Q	N	N	
Don't Know.....	1.7	1.5	5.20	11.58	Q	N	Q	
Home is Too Drafty During the Winter								
Never.....	62.9	58.9	4.47	6.40	11.43	3.04	9.10	
Some of the Time.....	32.4	30.4	4.67	7.39	13.06	Q	12.12	
Most of the Time.....	6.1	5.7	6.01	8.47	15.40	Q	18.26	
All of the Time.....	5.6	5.2	5.15	9.53	12.73	Q	16.97	
Don't Know.....	4.1	3.8	5.08	7.05	Q	N	Q	
Unusually High Ceilings								
Yes.....	27.2	25.9	3.61	5.59	9.50	Q	6.80	
No.....	76.9	71.8	4.95	7.71	12.93	3.93	11.24	
Not Asked (Mobile Homes).....	6.9	6.3	7.13	9.96	23.85	8.03	18.76	
Cathedral Ceilings (In Housing Units with High Ceilings)								
Yes.....	17.1	16.2	3.40	4.95	8.52	Q	6.36	
No.....	10.1	9.7	4.11	6.68	11.15	N	8.22	
Type of Glass in Windows								
Single-pane Glass.....	50.7	46.7	5.99	8.84	14.84	6.01	17.17	
Double-pane Glass								
Without Low-e Coating.....	50.6	48.0	3.81	6.29	11.51	Q	9.15	
With Low-e Coating.....	8.0	7.8	2.83	4.90	8.61	Q	6.66	
Triple-pane Glass								
Without Low-e Coating.....	1.0	0.9	Q	4.69	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	3.98	7.29	12.26	Q	11.93	
Some.....	21.6	19.9	4.74	7.57	11.40	Q	10.71	
None.....	62.3	58.2	4.59	6.43	12.85	6.02	10.02	
Don't Know.....	4.7	4.4	6.76	10.12	Q	Q	Q	

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Thermostats								
Do Not Have a Thermostat.....	15.3	11.0	8.89	12.70	26.25	8.31	20.68	
Have a Thermostat.....	95.8	93.0	4.32	6.69	11.42	3.85	9.50	
1.....	84.5	82.1	4.48	6.83	12.08	3.71	9.94	
2 or More.....	11.3	10.9	3.41	5.90	9.44	Q	7.28	
Have a Programmable Thermostat								
Yes.....	33.1	32.5	3.81	5.76	10.21	Q	8.51	
No.....	62.7	60.5	4.62	7.51	11.97	Q	9.97	
Use of Programmable Thermostats								
Reduces Temperature During Day								
Yes.....	18.6	18.3	4.00	5.43	10.17	Q	8.62	
No.....	14.5	14.2	3.65	6.33	10.28	Q	8.47	
Reduces Temperature at Night								
Yes.....	21.5	21.1	3.83	5.47	10.53	Q	8.85	
No.....	11.6	11.4	3.80	6.52	9.66	Q	8.23	

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.