

Table WH11. Expenditures Intensity by Main Water Heating Fuel Used, 2005
Water Heating Intensity

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ as Main (millions)	Main Water Heating Fuel Used (Dollars/number of household members)			
			Electricity	Natural Gas	Fuel Oil	LPG
Total	111.1	109.8	105	100	172	193
Census Region and Division						
Northeast.....	20.6	19.9	139	103	171	233
New England.....	5.5	5.3	165	123	180	196
Middle Atlantic.....	15.1	14.5	127	99	167	248
Midwest.....	25.6	25.4	105	95	N	215
East North Central.....	17.7	17.6	107	93	N	256
West North Central.....	7.9	7.8	101	100	N	174
South.....	40.7	40.5	101	113	Q	164
South Atlantic.....	21.7	21.7	101	117	Q	180
East South Central.....	6.9	6.9	94	140	N	Q
West South Central.....	12.1	12.0	106	102	N	131
West.....	24.2	24.0	103	94	N	184
Mountain.....	7.6	7.5	100	92	N	193
Pacific.....	16.6	16.5	104	94	N	178
Four Most Populated States						
New York.....	7.1	6.7	159	93	164	251
Florida.....	7.0	7.0	101	120	N	Q
Texas.....	8.0	7.9	110	104	N	Q
California.....	12.1	12.1	120	94	N	206
All Other States.....	76.9	76.1	103	102	179	191
Urban/Rural Location (as Self-Reported)						
City.....	47.1	46.5	102	96	172	237
Town.....	19.0	18.8	105	96	169	206
Suburbs.....	22.7	22.5	108	108	167	151
Rural.....	22.3	22.0	107	111	180	190
Climate Zone¹						
Less than 2,000 CDD and--						
Greater than 7,000 HDD.....	10.9	10.6	121	93	180	196
5,500 to 7,000 HDD.....	26.1	25.8	109	95	172	175
4,000 to 5,499 HDD.....	27.3	26.8	100	101	168	209
Fewer than 4,000 HDD.....	24.0	23.9	104	104	N	201
2000 CDD or More and--						
Less than 4,000 HDD.....	22.8	22.6	104	109	N	167

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			Electricity	Natural Gas	Fuel Oil	LPG
Type of Housing Unit						
Single-Family Detached.....	72.1	71.7	104	107	172	190
Single-Family Attached.....	7.6	7.5	112	98	Q	Q
Apartments in 2-4 Unit Buildings.....	7.8	7.7	106	85	159	Q
Apartments in 5 or More Unit Buildings.....	16.7	16.1	109	71	187	Q
Mobile Homes.....	6.9	6.8	101	76	Q	180
Ownership of Housing Unit						
Owned	78.1	77.6	105	110	165	186
Single-Family Detached.....	64.1	63.7	105	111	169	189
Single-Family Attached.....	4.2	4.1	115	103	Q	Q
Apartments in 2-4 Unit Buildings.....	1.8	1.8	116	123	Q	N
Apartments in 5 or More Unit Buildings.....	2.3	2.3	103	105	Q	N
Mobile Homes.....	5.7	5.6	103	77	N	170
Rented	33.0	32.2	106	77	190	231
Single-Family Detached.....	8.0	8.0	103	82	Q	Q
Single-Family Attached.....	3.4	3.4	110	92	Q	Q
Apartments in 2-4 Unit Buildings.....	5.9	5.8	104	74	199	Q
Apartments in 5 or More Unit Buildings.....	14.4	13.8	110	67	184	Q
Mobile Homes.....	1.2	1.1	95	71	Q	Q
Year of Construction						
Before 1940.....	14.7	14.5	123	97	195	213
1940 to 1949.....	7.4	7.3	105	102	176	265
1950 to 1959.....	12.5	12.4	107	102	196	222
1960 to 1969.....	12.5	12.2	102	92	177	185
1970 to 1979.....	18.9	18.6	107	98	164	178
1980 to 1989.....	18.6	18.4	107	99	146	189
1990 to 1999.....	17.3	17.2	98	107	137	173
2000 to 2005.....	9.2	9.1	98	111	Q	185

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			Electricity	Natural Gas	Fuel Oil	LPG
Household Size						
1 Person.....	30.0	29.5	153	171	311	402
2 Persons.....	34.8	34.4	124	134	230	227
3 Persons.....	18.4	18.2	104	100	168	179
4 Persons.....	15.9	15.8	86	78	138	168
5 Persons.....	7.9	7.9	75	69	109	134
6 or More Persons.....	4.1	4.1	70	59	Q	Q
2005 Household Income Category						
Less than \$10,000.....	9.9	9.5	113	100	216	232
\$10,000 to \$14,999.....	8.5	8.3	113	87	148	281
\$15,000 to \$19,999.....	8.4	8.3	101	92	199	242
\$20,000 to \$29,999.....	15.1	14.9	108	90	177	155
\$30,000 to \$39,999.....	13.6	13.4	99	98	149	165
\$40,000 to \$49,999.....	11.0	11.0	101	93	147	133
\$50,000 to \$74,999.....	19.8	19.7	103	99	162	211
\$75,000 to \$99,999.....	10.6	10.5	109	106	190	200
\$100,000 or More.....	14.2	14.1	105	118	177	215
Income Relative to Poverty Line						
Below 100 Percent.....	16.6	16.2	95	78	155	170
100 to 150 Percent.....	12.9	12.8	105	76	176	198
Above 150 Percent.....	81.5	80.8	108	108	176	199
Eligible for Federal Assistance²						
Yes.....	38.6	37.8	101	81	161	189
No.....	72.5	72.0	108	110	179	195
Payment Method for Utilities						
All Paid by Household.....	97.5	96.8	103	104	168	190
Some Paid, Some in Rent.....	7.6	7.4	111	70	174	216
All Included in Rent.....	4.7	4.3	155	59	233	Q
Other Method.....	1.3	1.3	138	91	Q	Q

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			Electricity	Natural Gas	Fuel Oil	LPG
Ethnic Origin of Householder						
Hispanic Descent.....	14.8	14.5	95	70	148	164
Non-Hispanic Descent.....	96.3	95.3	107	107	178	200
Race of Householder³						
White.....	79.1	78.4	107	110	184	202
Hispanic.....	5.0	5.0	90	72	Q	185
Non-Hispanic.....	74.1	73.4	109	113	186	204
Black.....	13.4	13.3	105	101	182	Q
Hispanic.....	0.3	0.3	Q	Q	Q	N
Non-Hispanic.....	13.1	13.0	103	101	191	Q
Asian.....	3.3	3.3	102	74	Q	Q
Multi-Racial.....	1.3	1.3	101	92	Q	N
Other.....	7.1	6.9	99	78	134	176
Undetermined (Race Reported as Hispanic).....	6.9	6.6	94	68	134	Q
Age of Householder						
Under 25 Years.....	5.5	5.2	97	67	Q	Q
25 to 34 Years.....	18.2	18.0	97	81	121	157
35 to 44 Years.....	22.2	22.0	97	86	126	144
45 to 54 Years.....	23.3	23.2	109	106	175	193
55 to 64 Years.....	18.0	17.8	125	129	193	246
65 to 74 Years.....	12.3	12.1	111	132	208	252
75 Years or More.....	11.7	11.5	114	139	239	218
Adults Age 65 or Older in Household						
Yes.....	26.9	26.4	110	124	212	239
No.....	84.2	83.4	104	96	162	184
Children Under Age 5 in Household						
Yes.....	15.0	14.9	84	70	121	135
No.....	96.1	94.9	111	110	181	210
Children Age 5 to 16 in Household						
Yes.....	28.1	28.0	86	77	128	153
No.....	83.0	81.8	117	118	201	222

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			Electricity	Natural Gas	Fuel Oil	LPG	
Number of Water Heaters							
1.....	106.3	106.1	105	99	172	190	
2 or More.....	3.7	3.6	104	137	Q	Q	
Do Not Use Hot Water.....	1.1	N	N	N	N	N	
Age of Main Water Heater							
Used by One Housing Unit							
Less than 2 Years.....	14.7	14.6	106	112	189	236	
2 to 4 Years.....	18.6	18.6	107	105	149	167	
5 to 9 Years.....	25.5	25.5	98	104	152	203	
10 to 19 Years.....	20.1	20.1	108	112	188	158	
20 Years or More.....	6.8	6.8	108	99	180	Q	
Don't Know.....	12.0	12.0	97	83	141	Q	
No Separate Water Heater.....	1.9	1.9	111	57	172	Q	
Used by Two or More Housing Units							
Less than 2 Years.....	0.3	0.3	Q	Q	Q	N	
2 to 4 Years.....	0.5	0.5	Q	Q	Q	Q	
5 to 9 Years.....	0.5	0.5	Q	78	Q	N	
10 to 19 Years.....	0.6	0.6	Q	59	Q	N	
20 Years or More.....	0.6	0.6	Q	49	Q	Q	
Don't Know.....	4.4	4.4	137	65	231	Q	
No Separate Water Heater.....	3.4	3.4	128	69	165	Q	
Size of Main Water Heater							
Used by One Housing Unit							
Small (30 gallons or less).....	17.1	17.1	99	99	158	212	
Medium (31 to 49 gallons).....	52.4	52.4	94	104	164	192	
Large (50 gallons or more).....	27.1	27.0	123	106	192	173	
Tankless water heater.....	1.1	1.1	Q	99	161	Q	
No Separate Water Heater.....	1.9	1.9	111	57	172	Q	
Used by Two or More Housing Units							
Small (30 gallons or less).....	1.4	1.4	112	80	Q	Q	
Medium (31 to 49 gallons).....	2.4	2.4	128	59	Q	Q	
Large (50 gallons or more).....	2.8	2.8	159	58	Q	Q	
Tankless water heater.....	0.2	0.2	N	Q	Q	N	
No Separate Water Heater.....	3.4	3.4	128	69	165	Q	

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			Electricity	Natural Gas	Fuel Oil	LPG
Clothes Washer						
Do Not Use a Clothes Washer.....	19.3	18.6	114	52	183	245
Use a Clothes Washer.....	91.8	91.2	104	108	169	184
Top Loading.....	84.1	83.6	103	107	175	191
Front Loading.....	7.7	7.7	111	116	131	138
Age of Clothes Washer						
Less than 2 Years.....	15.7	15.6	98	104	193	210
2 to 4 Years.....	21.1	21.0	104	102	157	179
5 to 9 Years.....	28.9	28.6	103	110	153	178
10 to 19 Years.....	19.9	19.8	109	117	201	176
20 Years or More.....	4.1	4.0	117	119	Q	Q
Don't Know.....	2.2	2.2	97	84	Q	N
Frequency of Clothes Washer Use						
Use a Clothes Washer in the Home.....	91.8	91.2	104	108	169	184
1 Load Each Week.....	7.3	7.1	117	152	Q	Q
2 to 5 Loads Each Week.....	39.0	38.8	114	121	181	218
6 to 9 Loads Each Week.....	33.8	33.6	101	100	160	185
10 to 15 Loads Each Week.....	9.3	9.3	89	93	163	158
More than 15 Loads Each Week.....	2.4	2.4	80	77	Q	Q
Do Not Use a Clothes Washer in the Home.....	19.3	18.6	114	52	183	245
Usual Water Temperature Setting						
Wash Cycle						
Hot.....	6.7	6.7	109	120	146	Q
Warm.....	50.5	50.2	106	110	174	199
Cold.....	34.6	34.3	100	102	167	172
Rinse Cycle						
Hot.....	1.6	1.6	96	123	N	Q
Warm.....	18.2	18.1	102	105	159	184
Cold.....	72.0	71.6	104	108	172	183
Energy Star Clothes Washer⁴						
Yes.....	21.7	21.7	105	104	174	213
No.....	10.4	10.4	98	96	151	141
Don't Know.....	4.5	4.5	94	107	Q	Q
Unit is More Than 4 Years Old.....	55.1	54.6	105	112	171	178

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			Electricity	Natural Gas	Fuel Oil	LPG
Dishwasher						
Do Not Use a Dishwasher.....	64.7	64.4	105	110	169	191
Use a Dishwasher.....	46.4	45.4	105	85	176	196
Age of Dishwasher						
Less than 2 Years.....	11.5	11.4	103	111	148	291
2 to 4 Years.....	14.6	14.5	106	112	164	154
5 to 9 Years.....	19.2	19.1	104	112	159	193
10 to 19 Years.....	12.8	12.8	108	112	175	201
20 Years or More.....	3.3	3.3	109	107	234	Q
Don't Know.....	3.3	3.3	103	91	Q	Q
Frequency of Dishwasher Use						
Use a Dishwasher.....	64.7	64.4	105	110	169	191
At Least Once Each Day.....	11.3	11.3	96	101	167	164
4 to 6 Times a Week.....	11.7	11.7	101	102	173	229
2 to 3 Times a Week.....	21.8	21.6	113	124	163	192
Once each Week.....	9.0	8.9	110	136	171	Q
Less than Once Each Week.....	10.9	10.9	105	96	186	192
Do Not Use a Dishwasher.....	46.4	45.4	105	85	176	196
Energy Star Dishwasher⁴						
Yes.....	16.4	16.2	107	112	160	226
No.....	6.6	6.6	95	109	Q	121
Don't Know.....	3.1	3.1	117	110	Q	Q
Unit is More Than 4 Years Old.....	38.6	38.5	106	110	176	191

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			Electricity	Natural Gas	Fuel Oil	LPG	
Other Water Heating							
Hot Tubs or Spas.....	6.7	6.6	110	112	Q	167	
Electricity.....	5.3	5.2	112	114	Q	Q	
Natural Gas.....	1.2	1.2	Q	108	N	N	
Swimming Pools.....	1.9	1.9	122	147	Q	Q	
Natural Gas.....	1.2	1.2	Q	129	Q	Q	
Electricity.....	0.4	0.4	Q	Q	Q	N	
Propane/LPG.....	0.3	0.3	Q	Q	Q	Q	
Some Other Fuel.....	Q	Q	Q	N	N	N	
Electric Water Beds.....	2.2	2.1	109	95	Q	Q	
1.....	1.9	1.8	107	101	Q	Q	
2 or More.....	0.3	0.3	Q	Q	N	Q	
Heaters Used all Year.....	1.7	1.7	113	99	Q	Q	
1.....	1.5	1.5	110	108	Q	Q	
2 or More.....	0.3	0.3	Q	Q	N	Q	

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 question of whether the appliance was an Energy Star appliance was asked only of those households having an appliance that was four years old or less.

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

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.