

Table WH10. Consumption 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 (physical units/number of household members)			
			Electricity	Natural Gas	Fuel Oil	LPG
Total	111.1	109.8	1,150	8.8	85	104
Census Region and Division						
Northeast.....	20.6	19.9	1,150	8.3	84	113
New England.....	5.5	5.3	1,227	8.8	90	102
Middle Atlantic.....	15.1	14.5	1,116	8.2	81	118
Midwest.....	25.6	25.4	1,281	9.0	N	132
East North Central.....	17.7	17.6	1,280	9.1	N	151
West North Central.....	7.9	7.8	1,283	8.8	N	112
South.....	40.7	40.5	1,122	9.4	Q	87
South Atlantic.....	21.7	21.7	1,111	9.2	Q	90
East South Central.....	6.9	6.9	1,234	10.9	N	Q
West South Central.....	12.1	12.0	1,063	9.3	N	73
West.....	24.2	24.0	1,122	8.5	N	95
Mountain.....	7.6	7.5	1,068	8.3	N	101
Pacific.....	16.6	16.5	1,147	8.5	N	91
Four Most Populated States						
New York.....	7.1	6.7	1,092	7.1	79	118
Florida.....	7.0	7.0	1,005	8.4	N	Q
Texas.....	8.0	7.9	1,028	9.1	N	Q
California.....	12.1	12.1	987	8.4	N	102
All Other States.....	76.9	76.1	1,203	9.1	89	107
Urban/Rural Location (as Self-Reported)						
City.....	47.1	46.5	1,075	8.4	85	101
Town.....	19.0	18.8	1,110	8.6	83	109
Suburbs.....	22.7	22.5	1,209	9.5	82	71
Rural.....	22.3	22.0	1,231	9.8	88	108
Climate Zone¹						
Less than 2,000 CDD and--						
Greater than 7,000 HDD.....	10.9	10.6	1,256	9.1	89	113
5,500 to 7,000 HDD.....	26.1	25.8	1,238	8.5	86	104
4,000 to 5,499 HDD.....	27.3	26.8	1,199	8.7	81	106
Fewer than 4,000 HDD.....	24.0	23.9	1,158	9.0	N	104
2000 CDD or More and--						
Less than 4,000 HDD.....	22.8	22.6	1,049	9.1	N	87

Table WH10. Consumption 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 (physical units/number of household members)			
			Electricity	Natural Gas	Fuel Oil	LPG
Type of Housing Unit						
Single-Family Detached.....	72.1	71.7	1,165	9.3	85	106
Single-Family Attached.....	7.6	7.5	1,221	8.5	Q	Q
Apartments in 2-4 Unit Buildings.....	7.8	7.7	1,054	7.2	77	Q
Apartments in 5 or More Unit Buildings.....	16.7	16.1	1,091	6.8	92	107
Mobile Homes.....	6.9	6.8	1,156	7.2	Q	92
Ownership of Housing Unit						
Owned	78.1	77.6	1,166	9.5	81	103
Single-Family Detached.....	64.1	63.7	1,173	9.6	83	106
Single-Family Attached.....	4.2	4.1	1,230	9.0	Q	Q
Apartments in 2-4 Unit Buildings.....	1.8	1.8	952	9.3	Q	N
Apartments in 5 or More Unit Buildings.....	2.3	2.3	977	9.8	Q	N
Mobile Homes.....	5.7	5.6	1,176	7.3	N	85
Rented	33.0	32.2	1,115	7.0	95	108
Single-Family Detached.....	8.0	8.0	1,123	7.3	Q	Q
Single-Family Attached.....	3.4	3.4	1,215	7.9	Q	Q
Apartments in 2-4 Unit Buildings.....	5.9	5.8	1,071	6.5	98	Q
Apartments in 5 or More Unit Buildings.....	14.4	13.8	1,109	6.5	90	107
Mobile Homes.....	1.2	1.1	1,073	7.0	Q	Q
Year of Construction						
Before 1940.....	14.7	14.5	1,307	8.4	96	126
1940 to 1949.....	7.4	7.3	1,092	9.0	85	137
1950 to 1959.....	12.5	12.4	1,100	8.9	96	114
1960 to 1969.....	12.5	12.2	1,115	8.1	87	87
1970 to 1979.....	18.9	18.6	1,143	8.5	79	94
1980 to 1989.....	18.6	18.4	1,204	8.9	75	99
1990 to 1999.....	17.3	17.2	1,115	9.5	68	98
2000 to 2005.....	9.2	9.1	1,091	9.7	Q	105

Table WH10. Consumption 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 (physical units/number of household members)			
			Electricity	Natural Gas	Fuel Oil	LPG
Household Size						
1 Person.....	30.0	29.5	1,610	15.2	153	185
2 Persons.....	34.8	34.4	1,374	11.5	112	126
3 Persons.....	18.4	18.2	1,138	8.7	82	99
4 Persons.....	15.9	15.8	963	6.9	67	88
5 Persons.....	7.9	7.9	816	6.2	54	78
6 or More Persons.....	4.1	4.1	766	5.3	Q	Q
2005 Household Income Category						
Less than \$10,000.....	9.9	9.5	1,155	9.0	107	114
\$10,000 to \$14,999.....	8.5	8.3	1,215	8.1	72	140
\$15,000 to \$19,999.....	8.4	8.3	1,173	8.4	100	115
\$20,000 to \$29,999.....	15.1	14.9	1,158	8.1	87	80
\$30,000 to \$39,999.....	13.6	13.4	1,109	8.4	72	90
\$40,000 to \$49,999.....	11.0	11.0	1,124	8.2	74	83
\$50,000 to \$74,999.....	19.8	19.7	1,126	8.7	79	118
\$75,000 to \$99,999.....	10.6	10.5	1,227	9.0	96	101
\$100,000 or More.....	14.2	14.1	1,124	10.2	85	121
Income Relative to Poverty Line						
Below 100 Percent.....	16.6	16.2	1,013	7.1	77	91
100 to 150 Percent.....	12.9	12.8	1,130	6.9	87	94
Above 150 Percent.....	81.5	80.8	1,191	9.4	86	109
Eligible for Federal Assistance²						
Yes.....	38.6	37.8	1,080	7.3	79	95
No.....	72.5	72.0	1,197	9.6	88	108
Payment Method for Utilities						
All Paid by Household.....	97.5	96.8	1,143	9.0	82	105
Some Paid, Some in Rent.....	7.6	7.4	1,078	6.8	85	92
All Included in Rent.....	4.7	4.3	1,398	6.6	115	Q
Other Method.....	1.3	1.3	1,591	8.6	Q	Q

Table WH10. Consumption 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 (physical units/number of household members)			
			Electricity	Natural Gas	Fuel Oil	LPG
Ethnic Origin of Householder						
Hispanic Descent.....	14.8	14.5	926	6.1	74	85
Non-Hispanic Descent.....	96.3	95.3	1,194	9.4	88	109
Race of Householder³						
White.....	79.1	78.4	1,205	9.5	91	109
Hispanic.....	5.0	5.0	913	6.3	Q	94
Non-Hispanic.....	74.1	73.4	1,234	9.8	92	111
Black.....	13.4	13.3	1,120	9.2	89	Q
Hispanic.....	0.3	0.3	Q	Q	Q	N
Non-Hispanic.....	13.1	13.0	1,109	9.3	94	Q
Asian.....	3.3	3.3	954	6.6	Q	Q
Multi-Racial.....	1.3	1.3	1,165	7.7	Q	N
Other.....	7.1	6.9	1,027	7.0	64	98
Undetermined (Race Reported as Hispanic).....	6.9	6.6	904	6.0	68	Q
Age of Householder						
Under 25 Years.....	5.5	5.2	1,051	5.9	Q	Q
25 to 34 Years.....	18.2	18.0	1,046	7.2	61	88
35 to 44 Years.....	22.2	22.0	1,061	7.7	63	77
45 to 54 Years.....	23.3	23.2	1,231	9.2	87	107
55 to 64 Years.....	18.0	17.8	1,362	10.8	94	129
65 to 74 Years.....	12.3	12.1	1,210	11.8	101	128
75 Years or More.....	11.7	11.5	1,230	12.2	115	122
Adults Age 65 or Older in Household						
Yes.....	26.9	26.4	1,194	10.9	103	124
No.....	84.2	83.4	1,141	8.4	80	100
Children Under Age 5 in Household						
Yes.....	15.0	14.9	898	6.2	59	71
No.....	96.1	94.9	1,223	9.6	89	114
Children Age 5 to 16 in Household						
Yes.....	28.1	28.0	951	6.9	64	85
No.....	83.0	81.8	1,274	10.3	98	118

Table WH10. Consumption 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 (physical units/number of household members)			
			Electricity	Natural Gas	Fuel Oil	LPG
Number of Water Heaters						
1.....	106.3	106.1	1,148	8.7	85	103
2 or More.....	3.7	3.6	1,206	12.5	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	1,172	9.5	91	120
2 to 4 Years.....	18.6	18.6	1,202	9.3	73	97
5 to 9 Years.....	25.5	25.5	1,104	9.2	78	112
10 to 19 Years.....	20.1	20.1	1,211	9.7	92	87
20 Years or More.....	6.8	6.8	1,169	8.9	90	Q
Don't Know.....	12.0	12.0	1,065	7.3	71	Q
No Separate Water Heater.....	1.9	1.9	1,069	5.1	83	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	6.5	Q	N
10 to 19 Years.....	0.6	0.6	Q	5.9	Q	N
20 Years or More.....	0.6	0.6	Q	5.0	Q	Q
Don't Know.....	4.4	4.4	1,112	6.3	113	Q
No Separate Water Heater.....	3.4	3.4	1,216	6.5	81	Q
Size of Main Water Heater						
Used by One Housing Unit						
Small (30 gallons or less).....	17.1	17.1	1,085	8.7	78	105
Medium (31 to 49 gallons).....	52.4	52.4	1,035	9.0	82	106
Large (50 gallons or more).....	27.1	27.0	1,394	9.3	95	98
Tankless water heater.....	1.1	1.1	Q	9.1	79	Q
No Separate Water Heater.....	1.9	1.9	1,069	5.1	83	Q
Used by Two or More Housing Units						
Small (30 gallons or less).....	1.4	1.4	864	7.6	Q	Q
Medium (31 to 49 gallons).....	2.4	2.4	1,032	5.8	Q	Q
Large (50 gallons or more).....	2.8	2.8	1,376	5.7	Q	Q
Tankless water heater.....	0.2	0.2	N	Q	Q	N
No Separate Water Heater.....	3.4	3.4	1,216	6.5	81	Q

Table WH10. Consumption 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 (physical units/number of household members)			
			Electricity	Natural Gas	Fuel Oil	LPG
Clothes Washer						
Do Not Use a Clothes Washer.....	19.3	18.6	1,135	4.8	89	109
Use a Clothes Washer.....	91.8	91.2	1,153	9.4	83	103
Top Loading.....	84.1	83.6	1,150	9.4	86	107
Front Loading.....	7.7	7.7	1,182	10.2	66	78
Age of Clothes Washer						
Less than 2 Years.....	15.7	15.6	1,089	9.2	93	114
2 to 4 Years.....	21.1	21.0	1,151	8.9	76	98
5 to 9 Years.....	28.9	28.6	1,160	9.6	75	103
10 to 19 Years.....	19.9	19.8	1,206	10.3	102	104
20 Years or More.....	4.1	4.0	1,235	11.0	Q	Q
Don't Know.....	2.2	2.2	1,106	7.3	Q	N
Frequency of Clothes Washer Use						
Use a Clothes Washer in the Home.....	91.8	91.2	1,153	9.4	83	103
1 Load Each Week.....	7.3	7.1	1,229	13.2	Q	Q
2 to 5 Loads Each Week.....	39.0	38.8	1,245	10.6	87	121
6 to 9 Loads Each Week.....	33.8	33.6	1,134	8.7	80	104
10 to 15 Loads Each Week.....	9.3	9.3	1,042	8.3	81	87
More than 15 Loads Each Week.....	2.4	2.4	927	7.3	Q	Q
Do Not Use a Clothes Washer in the Home.....	19.3	18.6	1,135	4.8	89	109
Usual Water Temperature Setting						
Wash Cycle						
Hot.....	6.7	6.7	1,207	10.4	67	Q
Warm.....	50.5	50.2	1,196	9.7	86	113
Cold.....	34.6	34.3	1,099	8.8	83	92
Rinse Cycle						
Hot.....	1.6	1.6	1,085	10.5	N	Q
Warm.....	18.2	18.1	1,112	9.1	76	106
Cold.....	72.0	71.6	1,164	9.5	86	102
Energy Star Clothes Washer⁴						
Yes.....	21.7	21.7	1,172	9.0	84	115
No.....	10.4	10.4	1,090	8.9	74	77
Don't Know.....	4.5	4.5	1,025	9.3	Q	Q
Unit is More Than 4 Years Old.....	55.1	54.6	1,176	9.8	85	103

Table WH10. Consumption 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 (physical units/number of household members)			
			Electricity	Natural Gas	Fuel Oil	LPG
Dishwasher						
Do Not Use a Dishwasher.....	64.7	64.4	1,186	9.6	83	106
Use a Dishwasher.....	46.4	45.4	1,096	7.5	87	100
Age of Dishwasher						
Less than 2 Years.....	11.5	11.4	1,176	9.7	73	154
2 to 4 Years.....	14.6	14.5	1,200	9.8	78	88
5 to 9 Years.....	19.2	19.1	1,178	9.8	78	112
10 to 19 Years.....	12.8	12.8	1,186	9.5	87	109
20 Years or More.....	3.3	3.3	1,202	9.6	119	Q
Don't Know.....	3.3	3.3	1,184	7.9	Q	Q
Frequency of Dishwasher Use						
Use a Dishwasher.....	64.7	64.4	1,186	9.6	83	106
At Least Once Each Day.....	11.3	11.3	1,131	9.0	81	100
4 to 6 Times a Week.....	11.7	11.7	1,155	8.8	85	129
2 to 3 Times a Week.....	21.8	21.6	1,256	10.8	80	102
Once each Week.....	9.0	8.9	1,245	11.5	82	Q
Less than Once Each Week.....	10.9	10.9	1,125	8.5	93	97
Do Not Use a Dishwasher.....	46.4	45.4	1,096	7.5	87	100
Energy Star Dishwasher⁴						
Yes.....	16.4	16.2	1,219	9.8	76	124
No.....	6.6	6.6	1,080	9.5	Q	67
Don't Know.....	3.1	3.1	1,324	9.8	Q	Q
Unit is More Than 4 Years Old.....	38.6	38.5	1,183	9.5	87	107

Table WH10. Consumption 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 (physical units/number of household members)					
			Electricity	Natural Gas	Fuel Oil	LPG		
Other Water Heating								
Hot Tubs or Spas.....	6.7	6.6	1,223	10.1	Q	98		
Electricity.....	5.3	5.2	1,247	10.3	Q	Q		
Natural Gas.....	1.2	1.2	Q	9.6	N	N		
Swimming Pools.....	1.9	1.9	1,195	12.7	Q	Q		
Natural Gas.....	1.2	1.2	Q	11.4	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	1,194	8.5	Q	Q		
1.....	1.9	1.8	1,162	8.8	Q	Q		
2 or More.....	0.3	0.3	Q	Q	N	Q		
Heaters Used all Year.....	1.7	1.7	1,273	8.7	Q	Q		
1.....	1.5	1.5	1,234	9.3	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.