

Table WH6. Average Consumption for Water Heating by Major Fuels Used, 2005
Physical Units per Household

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (physical units of consumption per household using the fuel as a water heating source)			
			Electricity (kWh)	Natural Gas (thousand cf)	Fuel Oil (gallons)	LPG (gallons)
Total.....	111.1	109.8	2,814	23	228	278
Census Region and Division						
Northeast.....	20.6	19.9	2,608	22	227	295
New England.....	5.5	5.3	2,552	21	230	286
Middle Atlantic.....	15.1	14.5	2,637	22	225	298
Midwest.....	25.6	25.4	2,944	23	N	286
East North Central.....	17.7	17.6	2,949	24	N	293
West North Central.....	7.9	7.8	2,931	22	N	278
South.....	40.7	40.5	2,763	25	Q	258
South Atlantic.....	21.7	21.7	2,709	25	Q	243
East South Central.....	6.9	6.9	2,964	26	N	Q
West South Central.....	12.1	12.0	2,744	24	N	240
West.....	24.2	24.0	3,004	23	N	281
Mountain.....	7.6	7.5	2,890	22	N	256
Pacific.....	16.6	16.5	3,057	24	N	305
Four Most Populated States						
New York.....	7.1	6.7	2,526	20	232	286
Florida.....	7.0	7.0	2,474	24	N	Q
Texas.....	8.0	7.9	2,869	25	N	Q
California.....	12.1	12.1	2,121	24	N	317
All Other States.....	76.9	76.2	2,912	24	225	277
Urban/Rural Location (as Self-Reported)						
City.....	47.1	46.5	2,598	22	216	284
Town.....	19.0	18.8	2,643	23	228	305
Suburbs.....	22.7	22.5	2,920	26	250	214
Rural.....	22.3	22.0	3,106	24	226	282
Climate Zone¹						
Less than 2,000 CDD and--						
Greater than 7,000 HDD.....	10.9	10.6	3,012	24	226	269
5,500 to 7,000 HDD.....	26.1	25.8	2,818	22	232	242
4,000 to 5,499 HDD.....	27.3	26.8	2,991	23	225	320
Fewer than 4,000 HDD.....	24.0	23.9	2,750	25	N	297
2000 CDD or More and--						
Less than 4,000 HDD.....	22.8	22.6	2,673	24	N	249

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			Electricity (kWh)	Natural Gas (thousand cf)	Fuel Oil (gallons)	LPG (gallons)
Type of Housing Unit						
Single-Family Detached.....	72.1	71.8	3,030	26	233	284
Single-Family Attached.....	7.6	7.5	2,808	22	Q	Q
Apartments in 2-4 Unit Buildings.....	7.8	7.7	2,493	17	194	Q
Apartments in 5 or More Unit Buildings.....	16.7	16.1	2,150	14	237	249
Mobile Homes.....	6.9	6.8	2,844	18	Q	265
Ownership of Housing Unit						
Owned	78.1	77.6	2,881	25	227	275
Single-Family Detached.....	64.1	63.8	3,014	26	228	281
Single-Family Attached.....	4.2	4.1	2,442	22	Q	Q
Apartments in 2-4 Unit Buildings.....	1.8	1.8	1,867	20	Q	N
Apartments in 5 or More Unit Buildings.....	2.3	2.3	1,556	17	Q	N
Mobile Homes.....	5.7	5.6	2,785	17	N	245
Rented	33.0	32.2	2,670	18	232	297
Single-Family Detached.....	8.0	8.0	3,136	26	Q	Q
Single-Family Attached.....	3.4	3.4	3,102	21	Q	Q
Apartments in 2-4 Unit Buildings.....	5.9	5.8	2,629	17	181	Q
Apartments in 5 or More Unit Buildings.....	14.4	13.8	2,276	14	235	249
Mobile Homes.....	1.2	1.1	3,146	21	Q	Q
Year of Construction						
Before 1940.....	14.7	14.5	3,012	22	236	247
1940 to 1949.....	7.4	7.3	2,517	23	194	277
1950 to 1959.....	12.5	12.4	2,499	22	219	389
1960 to 1969.....	12.5	12.2	2,726	22	255	229
1970 to 1979.....	18.9	18.6	2,734	22	244	260
1980 to 1989.....	18.6	18.4	2,848	24	217	261
1990 to 1999.....	17.3	17.2	2,964	28	234	288
2000 to 2005.....	9.2	9.1	2,884	27	Q	328

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			Electricity (kWh)	Natural Gas (thousand cf)	Fuel Oil (gallons)	LPG (gallons)
Household Size						
1 Person.....	30.0	29.5	1,610	15	153	185
2 Persons.....	34.8	34.4	2,749	23	225	252
3 Persons.....	18.4	18.2	3,413	26	247	298
4 Persons.....	15.9	15.8	3,850	28	270	351
5 Persons.....	7.9	7.9	4,079	31	272	389
6 or More Persons.....	4.1	4.1	5,145	36	Q	Q
2005 Household Income Category						
Less than \$10,000.....	9.9	9.5	2,273	17	217	289
\$10,000 to \$14,999.....	8.5	8.3	2,423	17	184	247
\$15,000 to \$19,999.....	8.4	8.3	2,552	19	213	269
\$20,000 to \$29,999.....	15.1	14.9	2,750	20	200	276
\$30,000 to \$39,999.....	13.6	13.4	2,934	22	184	233
\$40,000 to \$49,999.....	11.0	11.0	2,750	23	220	244
\$50,000 to \$74,999.....	19.8	19.7	2,957	25	228	277
\$75,000 to \$99,999.....	10.6	10.5	3,318	27	271	237
\$100,000 or More.....	14.2	14.1	3,256	32	299	380
Income Relative to Poverty Line						
Below 100 Percent.....	16.6	16.2	2,724	19	216	316
100 to 150 Percent.....	12.9	12.8	2,959	19	207	256
Above 150 Percent.....	81.5	80.9	2,806	25	233	272
Eligible for Federal Assistance²						
Yes.....	38.6	37.8	2,797	20	204	285
No.....	72.5	72.0	2,824	25	244	276
Payment Method for Utilities						
All Paid by Household.....	97.5	96.8	2,829	25	231	280
Some Paid, Some in Rent.....	7.6	7.4	2,493	15	218	239
All Included in Rent.....	4.7	4.3	2,648	14	230	Q
Other Method.....	1.3	1.3	3,386	21	Q	Q

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Physical Units per Household

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (physical units of consumption per household using the fuel as a water heating source)			
			Electricity (kWh)	Natural Gas (thousand cf)	Fuel Oil (gallons)	LPG (gallons)
Ethnic Origin of Householder						
Hispanic Descent.....	14.8	14.5	3,106	22	232	277
Non-Hispanic Descent.....	96.3	95.3	2,774	24	227	279
Race of Householder³						
White.....	79.1	78.4	2,768	24	228	274
Hispanic.....	5.0	5.0	3,032	22	Q	258
Non-Hispanic.....	74.1	73.4	2,750	24	226	275
Black.....	13.4	13.3	2,883	24	231	Q
Hispanic.....	0.3	0.3	Q	Q	Q	N
Non-Hispanic.....	13.1	13.0	2,842	24	245	Q
Asian.....	3.3	3.3	2,649	23	Q	Q
Multi-Racial.....	1.3	1.3	2,646	22	Q	N
Other.....	7.1	7.0	3,078	21	213	330
Undetermined (Race Reported as Hispanic).....	6.9	6.6	3,111	23	238	Q
Age of Householder						
Under 25 Years.....	5.5	5.2	2,669	17	Q	Q
25 to 34 Years.....	18.2	18.0	3,192	24	221	313
35 to 44 Years.....	22.2	22.0	3,345	27	213	292
45 to 54 Years.....	23.3	23.2	3,058	25	274	314
55 to 64 Years.....	18.0	17.8	2,679	23	230	280
65 to 74 Years.....	12.3	12.1	2,187	21	200	220
75 Years or More.....	11.7	11.5	1,757	18	195	201
Adults Age 65 or Older in Household						
Yes.....	26.9	26.4	2,131	21	199	225
No.....	84.2	83.4	3,032	24	240	295
Children Under Age 5 in Household						
Yes.....	15.0	14.9	3,827	28	244	313
No.....	96.1	94.9	2,666	23	226	273
Children Age 5 to 16 in Household						
Yes.....	28.1	28.0	3,889	29	266	351
No.....	83.0	81.8	2,496	21	215	251

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			Electricity (kWh)	Natural Gas (thousand cf)	Fuel Oil (gallons)	LPG (gallons)
Number of Water Heaters						
1.....	106.3	106.1	2,786	23	227	274
2 or More.....	3.7	3.7	3,593	36	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	3,119	26	240	300
2 to 4 Years.....	18.6	18.6	3,215	25	227	289
5 to 9 Years.....	25.5	25.5	2,855	26	255	292
10 to 19 Years.....	20.1	20.1	2,620	24	244	237
20 Years or More.....	6.8	6.8	2,598	22	209	Q
Don't Know.....	12.0	12.0	2,694	21	212	Q
No Separate Water Heater.....	1.9	1.9	1,898	12	222	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	20	Q	N
10 to 19 Years.....	0.6	0.6	Q	15	Q	N
20 Years or More.....	0.6	0.6	Q	11	Q	Q
Don't Know.....	4.4	4.4	2,558	14	234	Q
No Separate Water Heater.....	3.4	3.4	2,040	13	232	Q
Size of Main Water Heater						
Used by One Housing Unit						
Small (30 gallons or less).....	17.1	17.1	2,380	19	199	277
Medium (31 to 49 gallons).....	52.4	52.4	2,608	24	235	273
Large (50 gallons or more).....	27.1	27.0	3,732	28	306	300
Tankless water heater.....	1.1	1.1	Q	32	197	Q
No Separate Water Heater.....	1.9	1.9	1,898	12	222	Q
Used by Two or More Housing Units						
Small (30 gallons or less).....	1.4	1.4	1,632	18	Q	Q
Medium (31 to 49 gallons).....	2.4	2.4	2,554	13	Q	Q
Large (50 gallons or more).....	2.8	2.8	2,788	13	Q	Q
Tankless water heater.....	0.2	0.2	N	Q	Q	N
No Separate Water Heater.....	3.4	3.4	2,040	13	232	Q

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			Electricity (kWh)	Natural Gas (thousand cf)	Fuel Oil (gallons)	LPG (gallons)
Clothes Washer						
Do Not Use a Clothes Washer.....	19.3	18.6	2,382	11	217	261
Use a Clothes Washer.....	91.8	91.2	2,902	26	232	282
Top Loading.....	84.1	83.6	2,882	26	236	282
Front Loading.....	7.7	7.7	3,144	31	201	284
Age of Clothes Washer						
Less than 2 Years.....	15.7	15.6	3,237	27	265	343
2 to 4 Years.....	21.1	21.0	3,105	26	255	297
5 to 9 Years.....	28.9	28.6	2,951	26	214	269
10 to 19 Years.....	19.9	19.8	2,489	26	227	229
20 Years or More.....	4.1	4.0	2,299	23	Q	Q
Don't Know.....	2.2	2.2	2,808	25	Q	N
Frequency of Clothes Washer Use						
Use a Clothes Washer in the Home.....	91.8	91.2	2,902	26	232	282
1 Load Each Week.....	7.3	7.1	1,840	20	Q	Q
2 to 5 Loads Each Week.....	39.0	38.8	2,514	24	208	232
6 to 9 Loads Each Week.....	33.8	33.6	3,235	27	242	320
10 to 15 Loads Each Week.....	9.3	9.3	3,846	33	345	301
More than 15 Loads Each Week.....	2.4	2.4	4,188	34	Q	Q
Do Not Use a Clothes Washer in the Home.....	19.3	18.6	2,382	11	217	261
Usual Water Temperature Setting						
Wash Cycle						
Hot.....	6.7	6.7	2,857	26	176	Q
Warm.....	50.5	50.2	2,948	26	248	279
Cold.....	34.6	34.3	2,858	26	223	284
Rinse Cycle						
Hot.....	1.6	1.6	3,242	29	N	Q
Warm.....	18.2	18.1	2,782	26	213	282
Cold.....	72.0	71.6	2,921	26	238	284
Energy Star Clothes Washer⁴						
Yes.....	21.7	21.7	3,327	27	274	311
No.....	10.4	10.4	3,172	26	232	301
Don't Know.....	4.5	4.5	2,583	25	Q	Q
Unit is More Than 4 Years Old.....	55.1	54.7	2,737	25	218	255

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			Electricity (kWh)	Natural Gas (thousand cf)	Fuel Oil (gallons)	LPG (gallons)
Dishwasher						
Do Not Use a Dishwasher.....	64.7	64.4	2,980	27	244	284
Use a Dishwasher.....	46.4	45.4	2,574	19	210	270
Age of Dishwasher						
Less than 2 Years.....	11.5	11.4	3,211	29	217	408
2 to 4 Years.....	14.6	14.5	3,170	27	243	299
5 to 9 Years.....	19.2	19.1	2,960	27	251	269
10 to 19 Years.....	12.8	12.8	2,858	25	232	210
20 Years or More.....	3.3	3.3	2,474	24	298	Q
Don't Know.....	3.3	3.3	2,544	21	Q	Q
Frequency of Dishwasher Use						
Use a Dishwasher.....	64.7	64.4	2,980	27	244	284
At Least Once Each Day.....	11.3	11.3	3,946	34	275	344
4 to 6 Times a Week.....	11.7	11.7	3,320	29	255	329
2 to 3 Times a Week.....	21.8	21.6	2,805	26	228	244
Once each Week.....	9.0	8.9	2,637	21	222	Q
Less than Once Each Week.....	10.9	10.9	2,453	22	226	237
Do Not Use a Dishwasher.....	46.4	45.4	2,574	19	210	270
Energy Star Dishwasher⁴						
Yes.....	16.4	16.2	3,376	29	229	357
No.....	6.6	6.6	2,754	25	Q	282
Don't Know.....	3.1	3.1	3,487	28	Q	Q
Unit is More Than 4 Years Old.....	38.6	38.5	2,844	26	250	250

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			Electricity (kWh)	Natural Gas (thousand cf)	Fuel Oil (gallons)	LPG (gallons)
Other Water Heating						
Hot Tubs or Spas	6.7	6.6	3,275	30	Q	234
Electricity.....	5.3	5.2	3,280	30	Q	Q
Natural Gas.....	1.2	1.2	Q	29	N	N
Swimming Pools	1.9	1.9	3,512	38	Q	Q
Natural Gas.....	1.2	1.2	Q	35	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	3,583	25	Q	Q
1.....	1.9	1.8	3,525	25	Q	Q
2 or More.....	0.3	0.3	Q	Q	N	Q
Heaters Used all Year	1.7	1.7	3,576	26	Q	Q
1.....	1.5	1.5	3,493	25	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.