

**Table WH7. Average Consumption for Water Heating by Major Fuels Used, 2005**  
**Million British Thermal Units (Btu) per Household**

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel <sup>5</sup> (millions)	Major Fuels Used <sup>5</sup> (million Btu of consumption per household using the fuel as a water heating source)				
			Any Major Fuel <sup>5</sup>	Electricity	Natural Gas	Fuel Oil	LPG
<b>Total</b> .....	111.1	109.8	19.2	9.6	24.1	31.6	25.4
<b>Census Region and Division</b>							
Northeast.....	20.6	19.9	21.9	8.9	22.9	31.5	26.9
New England.....	5.5	5.3	21.5	8.7	21.9	31.9	26.1
Middle Atlantic.....	15.1	14.5	22.0	9.0	23.1	31.2	27.2
Midwest.....	25.6	25.4	20.6	10.0	23.8	N	26.1
East North Central.....	17.7	17.6	20.9	10.1	24.4	N	26.7
West North Central.....	7.9	7.8	19.7	10.0	22.6	N	25.4
South.....	40.7	40.5	15.8	9.4	25.4	Q	23.6
South Atlantic.....	21.7	21.7	13.9	9.2	25.3	Q	22.2
East South Central.....	6.9	6.9	16.2	10.1	26.8	N	Q
West South Central.....	12.1	12.0	19.1	9.4	25.0	N	21.9
West.....	24.2	24.0	21.3	10.3	24.1	N	25.7
Mountain.....	7.6	7.5	20.5	9.9	22.9	N	23.4
Pacific.....	16.6	16.5	21.7	10.4	24.7	N	27.9
<b>Four Most Populated States</b>							
New York.....	7.1	6.7	22.4	8.6	20.4	32.2	26.2
Florida.....	7.0	7.0	10.4	8.4	25.2	N	Q
Texas.....	8.0	7.9	19.8	9.8	25.6	N	Q
California.....	12.1	12.1	23.3	7.2	24.3	N	28.9
All Other States.....	76.9	76.2	19.0	9.9	24.2	31.2	25.3
<b>Urban/Rural Location (as Self-Reported)</b>							
City.....	47.1	46.5	18.3	8.9	22.5	30.0	25.9
Town.....	19.0	18.8	19.4	9.0	23.7	31.6	27.8
Suburbs.....	22.7	22.5	23.4	10.0	27.1	34.7	19.6
Rural.....	22.3	22.0	16.8	10.6	24.8	31.4	25.8
<b>Climate Zone<sup>1</sup></b>							
Less than 2,000 CDD and--							
Greater than 7,000 HDD.....	10.9	10.6	20.6	10.3	24.4	31.4	24.5
5,500 to 7,000 HDD.....	26.1	25.8	20.3	9.6	22.8	32.2	22.1
4,000 to 5,499 HDD.....	27.3	26.8	19.6	10.2	23.7	31.2	29.2
Fewer than 4,000 HDD.....	24.0	23.9	20.3	9.4	25.4	N	27.1
2000 CDD or More and--							
Less than 4,000 HDD.....	22.8	22.6	15.7	9.1	24.9	N	22.7

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			Any Major Fuel <sup>5</sup>	Electricity	Natural Gas	Fuel Oil	LPG	
<b>Type of Housing Unit</b>								
Single-Family Detached.....	72.1	71.8	21.7	10.3	27.1	32.3	26.0	
Single-Family Attached.....	7.6	7.5	19.0	9.6	22.3	Q	Q	
Apartments in 2-4 Unit Buildings.....	7.8	7.7	15.6	8.5	18.0	26.9	Q	
Apartments in 5 or More Unit Buildings.....	16.7	16.1	12.2	7.3	14.4	32.8	22.7	
Mobile Homes.....	6.9	6.8	13.3	9.7	18.1	Q	24.2	
<b>Ownership of Housing Unit</b>								
<b>Owned</b> .....	78.1	77.6	20.8	9.8	26.2	31.4	25.1	
Single-Family Detached.....	64.1	63.8	21.9	10.3	27.2	31.6	25.7	
Single-Family Attached.....	4.2	4.1	20.2	8.3	23.0	Q	Q	
Apartments in 2-4 Unit Buildings.....	1.8	1.8	18.4	6.4	20.4	Q	N	
Apartments in 5 or More Unit Buildings.....	2.3	2.3	10.8	5.3	17.2	Q	N	
Mobile Homes.....	5.7	5.6	12.8	9.5	17.2	N	22.4	
<b>Rented</b> .....	33.0	32.2	15.4	9.1	18.9	32.2	27.1	
Single-Family Detached.....	8.0	8.0	20.1	10.7	26.4	Q	Q	
Single-Family Attached.....	3.4	3.4	17.6	10.6	21.4	Q	Q	
Apartments in 2-4 Unit Buildings.....	5.9	5.8	14.8	9.0	17.1	25.1	Q	
Apartments in 5 or More Unit Buildings.....	14.4	13.8	12.5	7.8	14.0	32.5	22.7	
Mobile Homes.....	1.2	1.1	15.9	10.7	22.1	Q	Q	
<b>Year of Construction</b>								
Before 1940.....	14.7	14.5	20.2	10.3	22.2	32.8	22.6	
1940 to 1949.....	7.4	7.3	21.8	8.6	23.7	26.9	25.3	
1950 to 1959.....	12.5	12.4	19.1	8.5	22.9	30.4	35.5	
1960 to 1969.....	12.5	12.2	19.2	9.3	22.9	35.4	20.9	
1970 to 1979.....	18.9	18.6	16.8	9.3	22.3	33.9	23.7	
1980 to 1989.....	18.6	18.4	18.0	9.7	24.2	30.1	23.9	
1990 to 1999.....	17.3	17.2	20.1	10.1	28.6	32.5	26.3	
2000 to 2005.....	9.2	9.1	21.3	9.8	28.0	Q	30.0	

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	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel <sup>5</sup> (millions)	Major Fuels Used <sup>5</sup> (million Btu of consumption per household using the fuel as a water heating source)					
			Any Major Fuel <sup>5</sup>	Electricity	Natural Gas	Fuel Oil	LPG	
<b>Household Size</b>								
1 Person.....	30.0	29.5	11.7	5.5	15.6	21.3	16.9	
2 Persons.....	34.8	34.4	18.5	9.4	23.7	31.2	23.0	
3 Persons.....	18.4	18.2	21.7	11.6	26.9	34.3	27.2	
4 Persons.....	15.9	15.8	24.2	13.1	28.6	37.4	32.0	
5 Persons.....	7.9	7.9	27.2	13.9	32.0	37.8	35.5	
6 or More Persons.....	4.1	4.1	33.3	17.6	36.9	Q	Q	
<b>2005 Household Income Category</b>								
Less than \$10,000.....	9.9	9.5	14.1	7.8	17.6	30.1	26.4	
\$10,000 to \$14,999.....	8.5	8.3	14.1	8.3	17.5	25.5	22.6	
\$15,000 to \$19,999.....	8.4	8.3	15.3	8.7	19.1	29.6	24.6	
\$20,000 to \$29,999.....	15.1	14.9	16.2	9.4	20.6	27.7	25.2	
\$30,000 to \$39,999.....	13.6	13.4	17.3	10.0	22.7	25.5	21.3	
\$40,000 to \$49,999.....	11.0	11.0	18.5	9.4	23.3	30.5	22.3	
\$50,000 to \$74,999.....	19.8	19.7	20.8	10.1	25.5	31.6	25.3	
\$75,000 to \$99,999.....	10.6	10.5	22.1	11.3	27.9	37.5	21.6	
\$100,000 or More.....	14.2	14.1	29.2	11.1	32.5	41.4	34.7	
<b>Income Relative to Poverty Line</b>								
Below 100 Percent.....	16.6	16.2	16.3	9.3	20.0	29.9	28.9	
100 to 150 Percent.....	12.9	12.8	16.0	10.1	20.0	28.7	23.4	
Above 150 Percent.....	81.5	80.9	20.3	9.6	25.4	32.4	24.9	
<b>Eligible for Federal Assistance<sup>2</sup></b>								
Yes.....	38.6	37.8	16.6	9.5	20.7	28.3	26.0	
No.....	72.5	72.0	20.6	9.6	25.7	33.9	25.2	
<b>Payment Method for Utilities</b>								
All Paid by Household.....	97.5	96.8	19.7	9.7	25.4	32.0	25.6	
Some Paid, Some in Rent.....	7.6	7.4	15.2	8.5	15.0	30.2	21.8	
All Included in Rent.....	4.7	4.3	15.1	9.0	14.6	31.9	Q	
Other Method.....	1.3	1.3	18.0	11.6	21.2	Q	Q	

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			Any Major Fuel <sup>5</sup>	Electricity	Natural Gas	Fuel Oil	LPG	
<b>Ethnic Origin of Householder</b>								
Hispanic Descent.....	14.8	14.5	19.6	10.6	23.1	32.2	25.3	
Non-Hispanic Descent.....	96.3	95.3	19.2	9.5	24.3	31.5	25.5	
<b>Race of Householder<sup>3</sup></b>								
White.....	79.1	78.4	19.2	9.4	24.3	31.6	25.0	
Hispanic.....	5.0	5.0	18.8	10.3	22.1	Q	23.5	
Non-Hispanic.....	74.1	73.4	19.3	9.4	24.5	31.4	25.1	
Black.....	13.4	13.3	18.7	9.8	24.6	32.0	Q	
Hispanic.....	0.3	0.3	18.0	Q	Q	Q	N	
Non-Hispanic.....	13.1	13.0	18.7	9.7	24.7	34.0	Q	
Asian.....	3.3	3.3	20.0	9.0	23.9	Q	Q	
Multi-Racial.....	1.3	1.3	18.5	9.0	22.9	Q	N	
Other.....	7.1	7.0	19.7	10.5	22.0	29.5	30.1	
Undetermined (Race Reported as Hispanic).....	6.9	6.6	19.1	10.6	23.7	33.0	Q	
<b>Age of Householder</b>								
Under 25 Years.....	5.5	5.2	13.5	9.1	17.2	Q	Q	
25 to 34 Years.....	18.2	18.0	19.4	10.9	24.5	30.6	28.6	
35 to 44 Years.....	22.2	22.0	22.5	11.4	28.1	29.6	26.7	
45 to 54 Years.....	23.3	23.2	21.4	10.4	25.2	38.0	28.6	
55 to 64 Years.....	18.0	17.8	19.1	9.1	23.8	31.9	25.6	
65 to 74 Years.....	12.3	12.1	16.4	7.5	21.6	27.8	20.1	
75 Years or More.....	11.7	11.5	13.8	6.0	18.3	27.0	18.3	
<b>Adults Age 65 or Older in Household</b>								
Yes.....	26.9	26.4	16.4	7.3	21.6	27.6	20.6	
No.....	84.2	83.4	20.1	10.3	24.9	33.3	26.9	
<b>Children Under Age 5 in Household</b>								
Yes.....	15.0	14.9	23.7	13.1	28.4	33.8	28.6	
No.....	96.1	94.9	18.5	9.1	23.4	31.4	24.9	
<b>Children Age 5 to 16 in Household</b>								
Yes.....	28.1	28.0	25.6	13.3	30.2	36.8	32.0	
No.....	83.0	81.8	17.0	8.5	21.8	29.9	22.9	

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			Any Major Fuel <sup>5</sup>	Electricity	Natural Gas	Fuel Oil	LPG	
<b>Number of Water Heaters</b>								
1.....	106.3	106.1	18.4	9.5	23.7	31.4	25.0	
2 or More.....	3.7	3.7	41.8	12.3	37.2	Q	Q	
Do Not Use Hot Water.....	1.1	N	N	N	N	N	N	
<b>Age of Main Water Heater</b>								
<b>Used by One Housing Unit</b>								
Less than 2 Years.....	14.7	14.6	22.0	10.6	27.0	33.3	27.4	
2 to 4 Years.....	18.6	18.6	20.5	11.0	25.6	31.5	26.4	
5 to 9 Years.....	25.5	25.5	20.0	9.7	26.8	35.3	26.6	
10 to 19 Years.....	20.1	20.1	19.3	8.9	25.1	33.9	21.6	
20 Years or More.....	6.8	6.8	17.7	8.9	23.2	29.0	Q	
Don't Know.....	12.0	12.0	17.2	9.2	21.6	29.4	Q	
No Separate Water Heater.....	1.9	1.9	16.6	6.5	12.6	30.8	Q	
<b>Used by Two or More Housing Units</b>								
Less than 2 Years.....	0.3	0.3	17.3	Q	Q	Q	N	
2 to 4 Years.....	0.5	0.5	14.1	Q	Q	Q	Q	
5 to 9 Years.....	0.5	0.5	19.9	Q	20.7	Q	N	
10 to 19 Years.....	0.6	0.6	13.0	Q	14.9	Q	N	
20 Years or More.....	0.6	0.6	14.3	Q	10.8	Q	Q	
Don't Know.....	4.4	4.4	14.6	8.7	14.2	32.5	Q	
No Separate Water Heater.....	3.4	3.4	14.0	7.0	13.4	32.2	Q	
<b>Size of Main Water Heater</b>								
<b>Used by One Housing Unit</b>								
Small (30 gallons or less).....	17.1	17.1	14.1	8.1	20.0	27.6	25.3	
Medium (31 to 49 gallons).....	52.4	52.4	19.6	8.9	24.8	32.6	24.9	
Large (50 gallons or more).....	27.1	27.0	23.3	12.7	29.0	42.5	27.4	
Tankless water heater.....	1.1	1.1	26.6	Q	32.9	27.3	Q	
No Separate Water Heater.....	1.9	1.9	16.6	6.5	12.6	30.8	Q	
<b>Used by Two or More Housing Units</b>								
Small (30 gallons or less).....	1.4	1.4	17.9	5.6	18.5	Q	Q	
Medium (31 to 49 gallons).....	2.4	2.4	13.1	8.7	13.7	Q	Q	
Large (50 gallons or more).....	2.8	2.8	14.0	9.5	13.7	Q	Q	
Tankless water heater.....	0.2	0.2	31.7	N	Q	Q	N	
No Separate Water Heater.....	3.4	3.4	14.0	7.0	13.4	32.2	Q	

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			Any Major Fuel <sup>5</sup>	Electricity	Natural Gas	Fuel Oil	LPG	
<b>Clothes Washer</b>								
Do Not Use a Clothes Washer.....	19.3	18.6	11.3	8.1	10.8	30.1	23.8	
Use a Clothes Washer.....	91.8	91.2	20.8	9.9	26.7	32.1	25.8	
Top Loading.....	84.1	83.6	20.5	9.8	26.3	32.7	25.7	
Front Loading.....	7.7	7.7	24.6	10.7	31.5	27.9	26.0	
<b>Age of Clothes Washer</b>								
Less than 2 Years.....	15.7	15.6	22.4	11.0	28.1	36.7	31.4	
2 to 4 Years.....	21.1	21.0	22.0	10.6	27.0	35.4	27.1	
5 to 9 Years.....	28.9	28.6	20.2	10.1	26.4	29.6	24.6	
10 to 19 Years.....	19.9	19.8	20.1	8.5	26.4	31.5	20.9	
20 Years or More.....	4.1	4.0	18.0	7.8	24.1	Q	Q	
Don't Know.....	2.2	2.2	18.7	9.6	25.4	Q	N	
<b>Frequency of Clothes Washer Use</b>								
Use a Clothes Washer in the Home.....	91.8	91.2	20.8	9.9	26.7	32.1	25.8	
1 Load Each Week.....	7.3	7.1	15.0	6.3	21.0	Q	Q	
2 to 5 Loads Each Week.....	39.0	38.8	18.9	8.6	24.6	28.9	21.2	
6 to 9 Loads Each Week.....	33.8	33.6	22.3	11.0	28.0	33.6	29.2	
10 to 15 Loads Each Week.....	9.3	9.3	26.2	13.1	33.5	47.8	27.5	
More than 15 Loads Each Week.....	2.4	2.4	28.7	14.3	34.7	Q	Q	
Do Not Use a Clothes Washer in the Home.....	19.3	18.6	11.3	8.1	10.8	30.1	23.8	
<b>Usual Water Temperature Setting</b>								
<b>Wash Cycle</b>								
Hot.....	6.7	6.7	21.0	9.7	27.2	24.5	Q	
Warm.....	50.5	50.2	21.8	10.1	26.7	34.4	25.5	
Cold.....	34.6	34.3	19.4	9.7	26.6	30.9	25.9	
<b>Rinse Cycle</b>								
Hot.....	1.6	1.6	22.3	11.1	30.2	N	Q	
Warm.....	18.2	18.1	21.3	9.5	27.0	29.5	25.7	
Cold.....	72.0	71.6	20.7	10.0	26.5	33.0	25.9	
<b>Energy Star Clothes Washer<sup>4</sup></b>								
Yes.....	21.7	21.7	23.9	11.4	28.1	37.9	28.4	
No.....	10.4	10.4	19.8	10.8	26.7	32.1	27.5	
Don't Know.....	4.5	4.5	19.7	8.8	25.4	Q	Q	
Unit is More Than 4 Years Old.....	55.1	54.7	19.9	9.3	26.2	30.2	23.3	

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			Any Major Fuel <sup>5</sup>	Electricity	Natural Gas	Fuel Oil	LPG	
<b>Dishwasher</b>								
Do Not Use a Dishwasher.....	64.7	64.4	21.4	10.2	27.4	33.8	25.9	
Use a Dishwasher.....	46.4	45.4	16.1	8.8	19.5	29.1	24.7	
<b>Age of Dishwasher</b>								
Less than 2 Years.....	11.5	11.4	23.2	11.0	29.6	30.0	37.2	
2 to 4 Years.....	14.6	14.5	22.6	10.8	28.3	33.7	27.3	
5 to 9 Years.....	19.2	19.1	21.2	10.1	27.6	34.8	24.5	
10 to 19 Years.....	12.8	12.8	20.7	9.8	26.2	32.2	19.2	
20 Years or More.....	3.3	3.3	20.2	8.4	24.3	41.3	Q	
Don't Know.....	3.3	3.3	15.1	8.7	21.1	Q	Q	
<b>Frequency of Dishwasher Use</b>								
Use a Dishwasher.....	64.7	64.4	21.4	10.2	27.4	33.8	25.9	
At Least Once Each Day.....	11.3	11.3	27.9	13.5	35.1	38.2	31.4	
4 to 6 Times a Week.....	11.7	11.7	24.3	11.3	29.8	35.4	30.0	
2 to 3 Times a Week.....	21.8	21.6	20.7	9.6	26.5	31.6	22.3	
Once each Week.....	9.0	8.9	16.9	9.0	21.6	30.8	Q	
Less than Once Each Week.....	10.9	10.9	16.6	8.4	22.4	31.3	21.6	
Do Not Use a Dishwasher.....	46.4	45.4	16.1	8.8	19.5	29.1	24.7	
<b>Energy Star Dishwasher<sup>4</sup></b>								
Yes.....	16.4	16.2	24.7	11.5	29.7	31.8	32.6	
No.....	6.6	6.6	18.3	9.4	26.1	Q	25.8	
Don't Know.....	3.1	3.1	22.9	11.9	29.3	Q	Q	
Unit is More Than 4 Years Old.....	38.6	38.5	20.4	9.7	26.3	34.6	22.9	

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			Any Major Fuel <sup>5</sup>	Electricity	Natural Gas	Fuel Oil	LPG
<b>Other Water Heating</b>							
<b>Hot Tubs or Spas</b> .....	6.7	6.6	24.7	11.2	30.7	Q	21.4
Electricity.....	5.3	5.2	23.0	11.2	30.9	Q	Q
Natural Gas.....	1.2	1.2	32.6	Q	29.8	N	N
<b>Swimming Pools</b> .....	1.9	1.9	36.9	12.0	38.8	Q	Q
Natural Gas.....	1.2	1.2	37.3	Q	35.7	Q	Q
Electricity.....	0.4	0.4	37.7	Q	Q	Q	N
Propane/LPG.....	0.3	0.3	33.1	Q	Q	Q	Q
Some Other Fuel.....	Q	Q	Q	Q	N	N	N
<b>Electric Water Beds</b> .....	2.2	2.1	19.7	12.2	26.2	Q	Q
1.....	1.9	1.8	18.9	12.0	25.3	Q	Q
2 or More.....	0.3	0.3	24.5	Q	Q	N	Q
<b>Heaters Used all Year</b> .....	1.7	1.7	20.2	12.2	26.2	Q	Q
1.....	1.5	1.5	19.5	11.9	25.7	Q	Q
2 or More.....	0.3	0.3	23.5	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.