

Table WH1. Total Households Using Water Heating Equipment, 2005
Million U.S. Households

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Number of Water Heaters Used (million U.S. households)		Fuels Used (million U.S. households)		
			One	Two or More	Using a Major Fuel ⁵	Using a Non-Major Fuel ⁶	
Total	111.1	110.0	106.3	3.7	109.8	0.3	
Census Region and Division							
Northeast.....	20.6	19.9	19.6	0.3	19.9	Q	
New England.....	5.5	5.3	5.2	Q	5.3	Q	
Middle Atlantic.....	15.1	14.5	14.4	Q	14.5	Q	
Midwest.....	25.6	25.4	24.5	0.9	25.4	Q	
East North Central.....	17.7	17.6	17.1	0.5	17.6	Q	
West North Central.....	7.9	7.8	7.4	0.4	7.8	N	
South.....	40.7	40.5	39.0	1.5	40.5	Q	
South Atlantic.....	21.7	21.7	21.1	0.5	21.7	N	
East South Central.....	6.9	6.9	6.6	0.3	6.9	Q	
West South Central.....	12.1	12.0	11.3	0.7	12.0	N	
West.....	24.2	24.2	23.2	1.0	24.0	Q	
Mountain.....	7.6	7.5	7.1	0.4	7.5	Q	
Pacific.....	16.6	16.6	16.1	0.6	16.5	Q	
Four Most Populated States							
New York.....	7.1	6.7	6.5	Q	6.7	Q	
Florida.....	7.0	7.0	6.9	Q	7.0	N	
Texas.....	8.0	7.9	7.4	0.5	7.9	N	
California.....	12.1	12.1	11.7	0.4	12.1	Q	
All Other States.....	76.9	76.3	73.8	2.5	76.2	0.2	
Urban/Rural Location (as Self-Reported)							
City.....	47.1	46.5	45.5	1.0	46.5	Q	
Town.....	19.0	18.9	18.2	0.6	18.8	Q	
Suburbs.....	22.7	22.6	21.6	0.9	22.5	Q	
Rural.....	22.3	22.1	21.0	1.1	22.0	Q	
Climate Zone¹							
Less than 2,000 CDD and--							
Greater than 7,000 HDD.....	10.9	10.7	10.3	0.4	10.6	Q	
5,500 to 7,000 HDD.....	26.1	25.8	25.2	0.7	25.8	Q	
4,000 to 5,499 HDD.....	27.3	26.8	26.2	0.6	26.8	Q	
Fewer than 4,000 HDD.....	24.0	23.9	23.0	0.9	23.9	Q	
2000 CDD or More and--							
Less than 4,000 HDD.....	22.8	22.7	21.7	1.1	22.6	Q	

Table WH1. Total Households Using Water Heating Equipment, 2005
Million U.S. Households

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Number of Water Heaters Used (million U.S. households)		Fuels Used (million U.S. households)		
			One	Two or More	Using a Major Fuel ⁵	Using a Non-Major Fuel ⁶	
Type of Housing Unit							
Single-Family Detached.....	72.1	71.9	68.7	3.2	71.8	0.3	
Single-Family Attached.....	7.6	7.5	7.4	Q	7.5	N	
Apartments in 2-4 Unit Buildings.....	7.8	7.7	7.6	Q	7.7	N	
Apartments in 5 or More Unit Buildings.....	16.7	16.1	15.9	Q	16.1	Q	
Mobile Homes.....	6.9	6.8	6.7	Q	6.8	N	
Ownership of Housing Unit							
Owned	78.1	77.8	74.5	3.3	77.6	0.3	
Single-Family Detached.....	64.1	63.9	60.9	3.0	63.8	0.3	
Single-Family Attached.....	4.2	4.1	4.0	Q	4.1	N	
Apartments in 2-4 Unit Buildings.....	1.8	1.8	1.8	Q	1.8	N	
Apartments in 5 or More Unit Buildings.....	2.3	2.3	2.2	Q	2.3	N	
Mobile Homes.....	5.7	5.6	5.5	Q	5.6	N	
Rented	33.0	32.2	31.9	0.4	32.2	Q	
Single-Family Detached.....	8.0	8.0	7.9	Q	8.0	N	
Single-Family Attached.....	3.4	3.4	3.4	Q	3.4	N	
Apartments in 2-4 Unit Buildings.....	5.9	5.8	5.8	Q	5.8	N	
Apartments in 5 or More Unit Buildings.....	14.4	13.9	13.7	Q	13.8	Q	
Mobile Homes.....	1.2	1.1	1.1	N	1.1	N	
Year of Construction							
Before 1940.....	14.7	14.5	14.0	0.6	14.5	Q	
1940 to 1949.....	7.4	7.3	7.2	Q	7.3	Q	
1950 to 1959.....	12.5	12.4	12.2	Q	12.4	N	
1960 to 1969.....	12.5	12.3	12.0	0.3	12.2	Q	
1970 to 1979.....	18.9	18.6	18.4	0.3	18.6	Q	
1980 to 1989.....	18.6	18.5	17.7	0.7	18.4	Q	
1990 to 1999.....	17.3	17.2	16.1	1.1	17.2	Q	
2000 to 2005.....	9.2	9.2	8.8	0.4	9.1	Q	

Table WH1. Total Households Using Water Heating Equipment, 2005
Million U.S. Households

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Number of Water Heaters Used (million U.S. households)		Fuels Used (million U.S. households)		
			One	Two or More	Using a Major Fuel ⁵	Using a Non-Major Fuel ⁶	
Household Size							
1 Person.....	30.0	29.5	28.8	0.6	29.5		Q
2 Persons.....	34.8	34.5	33.4	1.1	34.4		Q
3 Persons.....	18.4	18.2	17.4	0.8	18.2		Q
4 Persons.....	15.9	15.8	15.3	0.5	15.8		Q
5 Persons.....	7.9	7.9	7.6	0.3	7.9		N
6 or More Persons.....	4.1	4.1	3.8	0.3	4.1		N
2005 Household Income Category							
Less than \$10,000.....	9.9	9.5	9.5	Q	9.5		N
\$10,000 to \$14,999.....	8.5	8.3	8.2	Q	8.3		N
\$15,000 to \$19,999.....	8.4	8.3	8.1	Q	8.3		N
\$20,000 to \$29,999.....	15.1	14.9	14.7	0.2	14.9		N
\$30,000 to \$39,999.....	13.6	13.5	13.3	Q	13.4		Q
\$40,000 to \$49,999.....	11.0	11.0	10.6	0.4	11.0		Q
\$50,000 to \$74,999.....	19.8	19.7	19.0	0.8	19.7		Q
\$75,000 to \$99,999.....	10.6	10.6	10.2	0.4	10.5		Q
\$100,000 or More.....	14.2	14.1	12.7	1.4	14.1		Q
Income Relative to Poverty Line							
Below 100 Percent.....	16.6	16.2	16.0	Q	16.2		N
100 to 150 Percent.....	12.9	12.8	12.6	Q	12.8		N
Above 150 Percent.....	81.5	81.0	77.7	3.4	80.9		0.3
Eligible for Federal Assistance²							
Yes.....	38.6	37.8	37.3	0.5	37.8		N
No.....	72.5	72.2	69.0	3.2	72.0		0.3
Payment Method for Utilities							
All Paid by Household.....	97.5	97.0	93.7	3.3	96.8		0.3
Some Paid, Some in Rent.....	7.6	7.4	7.1	0.3	7.4		Q
All Included in Rent.....	4.7	4.4	4.3	Q	4.3		Q
Other Method.....	1.3	1.3	1.2	Q	1.3		N

Table WH1. Total Households Using Water Heating Equipment, 2005
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			One	Two or More	Using a Major Fuel ⁵	Using a Non-Major Fuel ⁶	
Ethnic Origin of Householder							
Hispanic Descent.....	14.8	14.5	14.2	0.3	14.5		Q
Non-Hispanic Descent.....	96.3	95.5	92.1	3.4	95.3		0.3
Race of Householder³							
White.....	79.1	78.4	75.3	3.2	78.4		Q
Hispanic.....	5.0	5.0	4.8	Q	5.0		N
Non-Hispanic.....	74.1	73.5	70.5	3.0	73.4		Q
Black.....	13.4	13.3	13.1	Q	13.3		N
Hispanic.....	0.3	0.3	0.3	N	0.3		N
Non-Hispanic.....	13.1	13.0	12.8	Q	13.0		N
Asian.....	3.3	3.3	3.2	Q	3.3		Q
Multi-Racial.....	1.3	1.3	1.2	Q	1.3		Q
Other.....	7.1	7.0	6.9	Q	7.0		Q
Undetermined (Race Reported as Hispanic).....	6.9	6.6	6.6	Q	6.6		N
Age of Householder							
Under 25 Years.....	5.5	5.2	5.1	Q	5.2		N
25 to 34 Years.....	18.2	18.0	17.7	0.3	18.0		Q
35 to 44 Years.....	22.2	22.1	21.3	0.8	22.0		Q
45 to 54 Years.....	23.3	23.2	22.3	0.9	23.2		Q
55 to 64 Years.....	18.0	17.9	17.0	0.9	17.8		Q
65 to 74 Years.....	12.3	12.1	11.7	0.4	12.1		Q
75 Years or More.....	11.7	11.5	11.3	Q	11.5		Q
Adults Age 65 or Older in Household							
Yes.....	26.9	26.4	25.7	0.8	26.4		Q
No.....	84.2	83.6	80.7	2.9	83.4		0.3
Children Under Age 5 in Household							
Yes.....	15.0	14.9	14.4	0.5	14.9		Q
No.....	96.1	95.1	91.9	3.2	94.9		0.3
Children Age 5 to 16 in Household							
Yes.....	28.1	28.0	26.8	1.2	28.0		Q
No.....	83.0	82.0	79.5	2.4	81.8		0.3

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			One	Two or More	Using a Major Fuel ⁵	Using a Non-Major Fuel ⁶	
Number of Water Heaters							
1.....	106.3	106.3	106.3	N	106.1	0.2	
2 or More.....	3.7	3.7	N	3.7	3.7	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	14.7	14.0	0.7	14.6	Q	
2 to 4 Years.....	18.6	18.6	18.2	0.4	18.6	Q	
5 to 9 Years.....	25.5	25.5	24.5	1.0	25.5	Q	
10 to 19 Years.....	20.1	20.1	19.4	0.8	20.1	Q	
20 Years or More.....	6.8	6.8	6.6	Q	6.8	Q	
Don't Know.....	12.0	12.0	11.7	0.3	12.0	Q	
No Separate Water Heater.....	1.9	1.9	1.9	Q	1.9	Q	
Used by Two or More Housing Units							
Less than 2 Years.....	0.3	0.3	0.3	N	0.3	N	
2 to 4 Years.....	0.5	0.5	0.5	N	0.5	Q	
5 to 9 Years.....	0.5	0.5	0.4	Q	0.5	N	
10 to 19 Years.....	0.6	0.6	0.6	N	0.6	N	
20 Years or More.....	0.6	0.6	0.6	N	0.6	N	
Don't Know.....	4.4	4.4	4.3	Q	4.4	N	
No Separate Water Heater.....	3.4	3.4	3.4	Q	3.4	Q	
Size of Main Water Heater							
Used by One Housing Unit							
Small (30 gallons or less).....	17.1	17.1	16.8	0.3	17.1	N	
Medium (31 to 49 gallons).....	52.4	52.4	50.9	1.4	52.4	Q	
Large (50 gallons or more).....	27.1	27.1	25.5	1.6	27.0	Q	
Tankless water heater.....	1.1	1.1	1.1	Q	1.1	N	
No Separate Water Heater.....	1.9	1.9	1.9	Q	1.9	Q	
Used by Two or More Housing Units							
Small (30 gallons or less).....	1.4	1.4	1.4	Q	1.4	N	
Medium (31 to 49 gallons).....	2.4	2.4	2.4	Q	2.4	N	
Large (50 gallons or more).....	2.8	2.8	2.8	Q	2.8	N	
Tankless water heater.....	0.2	0.2	0.2	N	0.2	Q	
No Separate Water Heater.....	3.4	3.4	3.4	Q	3.4	Q	

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			One	Two or More	Using a Major Fuel ⁵	Using a Non-Major Fuel ⁶	
Clothes Washer							
Do Not Use a Clothes Washer.....	19.3	18.6	18.4	Q	18.6	Q	
Use a Clothes Washer.....	91.8	91.4	88.0	3.4	91.2	0.3	
Top Loading.....	84.1	83.7	80.9	2.8	83.6	0.2	
Front Loading.....	7.7	7.7	7.1	0.6	7.7	Q	
Age of Clothes Washer							
Less than 2 Years.....	15.7	15.6	15.0	0.6	15.6	Q	
2 to 4 Years.....	21.1	21.0	20.2	0.8	21.0	Q	
5 to 9 Years.....	28.9	28.7	27.5	1.2	28.6	Q	
10 to 19 Years.....	19.9	19.8	19.2	0.7	19.8	Q	
20 Years or More.....	4.1	4.0	3.9	Q	4.0	Q	
Don't Know.....	2.2	2.2	2.2	N	2.2	N	
Frequency of Clothes Washer Use							
Use a Clothes Washer in the Home.....	91.8	91.4	88.0	3.4	91.2	0.3	
1 Load Each Week.....	7.3	7.1	7.0	Q	7.1	N	
2 to 5 Loads Each Week.....	39.0	38.8	37.6	1.3	38.8	Q	
6 to 9 Loads Each Week.....	33.8	33.7	32.4	1.3	33.6	Q	
10 to 15 Loads Each Week.....	9.3	9.3	8.7	0.6	9.3	Q	
More than 15 Loads Each Week.....	2.4	2.4	2.2	Q	2.4	N	
Do Not Use a Clothes Washer in the Home.....	19.3	18.6	18.4	Q	18.6	Q	
Usual Water Temperature Setting							
Wash Cycle							
Hot.....	6.7	6.7	6.5	Q	6.7	N	
Warm.....	50.5	50.3	48.0	2.3	50.2	Q	
Cold.....	34.6	34.4	33.4	1.0	34.3	Q	
Rinse Cycle							
Hot.....	1.6	1.6	1.5	Q	1.6	N	
Warm.....	18.2	18.1	17.4	0.7	18.1	Q	
Cold.....	72.0	71.7	69.0	2.7	71.6	0.2	
Energy Star Clothes Washer⁴							
Yes.....	21.7	21.7	20.8	0.9	21.7	Q	
No.....	10.4	10.4	10.1	0.3	10.4	Q	
Don't Know.....	4.5	4.5	4.3	Q	4.5	N	
Unit is More Than 4 Years Old.....	55.1	54.8	52.7	2.0	54.7	0.2	

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			One	Two or More	Using a Major Fuel ⁵	Using a Non-Major Fuel ⁶	
Dishwasher							
Do Not Use a Dishwasher.....	64.7	64.5	61.6	3.0	64.4	0.2	
Use a Dishwasher.....	46.4	45.5	44.8	0.7	45.4	Q	
Age of Dishwasher							
Less than 2 Years.....	11.5	11.4	10.9	0.5	11.4	N	
2 to 4 Years.....	14.6	14.5	13.8	0.7	14.5	Q	
5 to 9 Years.....	19.2	19.1	18.2	0.9	19.1	Q	
10 to 19 Years.....	12.8	12.8	12.0	0.8	12.8	Q	
20 Years or More.....	3.3	3.3	3.3	Q	3.3	N	
Don't Know.....	3.3	3.3	3.3	N	3.3	N	
Frequency of Dishwasher Use							
Use a Dishwasher.....	64.7	64.5	61.6	3.0	64.4	0.2	
At Least Once Each Day.....	11.3	11.3	10.5	0.8	11.3	Q	
4 to 6 Times a Week.....	11.7	11.7	11.0	0.8	11.7	Q	
2 to 3 Times a Week.....	21.8	21.7	20.8	0.8	21.6	Q	
Once each Week.....	9.0	9.0	8.6	0.4	8.9	Q	
Less than Once Each Week.....	10.9	10.9	10.7	Q	10.9	N	
Do Not Use a Dishwasher.....	46.4	45.5	44.8	0.7	45.4	Q	
Energy Star Dishwasher⁴							
Yes.....	16.4	16.3	15.4	0.8	16.2	Q	
No.....	6.6	6.6	6.4	Q	6.6	N	
Don't Know.....	3.1	3.1	2.9	Q	3.1	N	
Unit is More Than 4 Years Old.....	38.6	38.5	36.8	1.7	38.5	Q	

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			One	Two or More	Using a Major Fuel ⁵	Using a Non-Major Fuel ⁶	
Other Water Heating							
Hot Tubs or Spas	6.7	6.7	6.0	0.6	6.6		Q
Electricity.....	5.3	5.3	4.8	0.5	5.2		Q
Natural Gas.....	1.2	1.2	1.0	Q	1.2		N
Swimming Pools	1.9	1.9	1.5	0.4	1.9		Q
Natural Gas.....	1.2	1.2	1.0	Q	1.2		N
Electricity.....	0.4	0.4	Q	Q	0.4		N
Propane/LPG.....	0.3	0.3	0.3	Q	0.3		Q
Some Other Fuel.....	Q	Q	Q	N	Q		N
Electric Water Beds	2.2	2.1	2.1	Q	2.1		N
1.....	1.9	1.8	1.8	Q	1.8		N
2 or More.....	0.3	0.3	0.3	Q	0.3		N
Heaters Used all Year	1.7	1.7	1.7	Q	1.7		N
1.....	1.5	1.5	1.4	Q	1.5		N
2 or More.....	0.3	0.3	Q	Q	0.3		N

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).

6 Non-major water heating fuels include kerosene, wood, solar, district steam, and other.

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.

Table WH2. Total Households by Water Heating Fuels Used, 2005
Million U.S. Households

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Fuels Used (million U.S. households)				
			Electricity	Natural Gas	Fuel Oil	LPG	Other Fuels
Total	111.1	110.0	43.3	59.8	4.3	5.8	0.3
Census Region and Division							
Northeast.....	20.6	19.9	4.2	11.2	3.9	0.7	Q
New England.....	5.5	5.3	1.4	2.3	1.4	0.2	Q
Middle Atlantic.....	15.1	14.5	2.8	8.8	2.5	0.5	Q
Midwest.....	25.6	25.4	7.5	17.1	Q	1.6	Q
East North Central.....	17.7	17.6	5.2	12.0	N	0.9	Q
West North Central.....	7.9	7.8	2.3	5.1	Q	0.7	N
South.....	40.7	40.5	25.5	14.6	Q	1.7	Q
South Atlantic.....	21.7	21.7	15.6	5.9	Q	0.6	N
East South Central.....	6.9	6.9	4.7	2.1	Q	0.3	Q
West South Central.....	12.1	12.0	5.2	6.6	N	0.8	N
West.....	24.2	24.2	6.2	17.0	Q	1.7	Q
Mountain.....	7.6	7.5	2.0	5.1	Q	0.8	Q
Pacific.....	16.6	16.6	4.2	11.9	Q	0.9	Q
Four Most Populated States							
New York.....	7.1	6.7	0.8	3.8	1.7	0.4	Q
Florida.....	7.0	7.0	6.3	0.9	N	Q	N
Texas.....	8.0	7.9	3.4	4.4	N	0.5	N
California.....	12.1	12.1	1.3	10.3	N	0.8	Q
All Other States.....	76.9	76.3	31.5	40.4	2.6	3.9	0.2
Urban/Rural Location (as Self-Reported)							
City.....	47.1	46.5	16.7	28.3	1.4	1.1	Q
Town.....	19.0	18.9	6.6	11.3	0.7	0.7	Q
Suburbs.....	22.7	22.6	6.0	15.6	0.9	0.9	Q
Rural.....	22.3	22.1	14.0	4.6	1.2	3.2	Q
Climate Zone¹							
Less than 2,000 CDD and--							
Greater than 7,000 HDD.....	10.9	10.7	3.5	5.7	Q	1.0	Q
5,500 to 7,000 HDD.....	26.1	25.8	6.8	16.7	1.6	1.2	Q
4,000 to 5,499 HDD.....	27.3	26.8	10.3	14.4	1.7	1.0	Q
Fewer than 4,000 HDD.....	24.0	23.9	8.7	14.5	Q	1.6	Q
2000 CDD or More and--							
Less than 4,000 HDD.....	22.8	22.7	14.1	8.6	Q	0.9	Q

Table WH2. Total Households by Water Heating Fuels Used, 2005
Million U.S. Households

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Fuels Used (million U.S. households)					
			Electricity	Natural Gas	Fuel Oil	LPG	Other Fuels	
Type of Housing Unit								
Single-Family Detached.....	72.1	71.9	26.3	41.1	2.8	4.5	0.3	
Single-Family Attached.....	7.6	7.5	2.3	5.1	Q	Q	N	
Apartments in 2-4 Unit Buildings.....	7.8	7.7	2.5	4.8	0.4	Q	N	
Apartments in 5 or More Unit Buildings.....	16.7	16.1	7.6	7.5	0.8	0.4	Q	
Mobile Homes.....	6.9	6.8	4.7	1.5	Q	0.6	N	
Ownership of Housing Unit								
Owned	78.1	77.8	29.5	43.0	3.1	5.0	0.3	
Single-Family Detached.....	64.1	63.9	22.8	36.7	2.7	4.3	0.3	
Single-Family Attached.....	4.2	4.1	1.0	2.9	Q	Q	N	
Apartments in 2-4 Unit Buildings.....	1.8	1.8	0.4	1.3	Q	Q	N	
Apartments in 5 or More Unit Buildings.....	2.3	2.3	1.3	0.9	Q	Q	N	
Mobile Homes.....	5.7	5.6	4.0	1.2	Q	0.5	N	
Rented	33.0	32.2	13.8	16.8	1.2	0.7	Q	
Single-Family Detached.....	8.0	8.0	3.5	4.3	Q	Q	N	
Single-Family Attached.....	3.4	3.4	1.3	2.1	Q	Q	N	
Apartments in 2-4 Unit Buildings.....	5.9	5.8	2.0	3.5	0.3	Q	N	
Apartments in 5 or More Unit Buildings.....	14.4	13.9	6.3	6.6	0.7	0.4	Q	
Mobile Homes.....	1.2	1.1	0.8	0.3	Q	Q	N	
Year of Construction								
Before 1940.....	14.7	14.5	4.1	9.1	1.1	0.8	Q	
1940 to 1949.....	7.4	7.3	1.4	5.0	0.6	0.5	Q	
1950 to 1959.....	12.5	12.4	3.9	7.9	0.6	0.3	N	
1960 to 1969.....	12.5	12.3	4.1	7.2	0.6	0.5	Q	
1970 to 1979.....	18.9	18.6	8.7	8.9	0.5	0.7	Q	
1980 to 1989.....	18.6	18.5	8.7	9.1	0.3	1.0	Q	
1990 to 1999.....	17.3	17.2	8.6	8.1	0.4	1.1	Q	
2000 to 2005.....	9.2	9.2	4.0	4.5	0.2	0.8	Q	

Table WH2. Total Households by Water Heating Fuels Used, 2005
Million U.S. Households

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Fuels Used (million U.S. households)					
			Electricity	Natural Gas	Fuel Oil	LPG	Other Fuels	
Household Size								
1 Person.....	30.0	29.5	12.8	15.3	0.8	1.1		Q
2 Persons.....	34.8	34.5	13.8	18.1	1.4	2.1		Q
3 Persons.....	18.4	18.2	7.3	9.9	0.8	0.9		Q
4 Persons.....	15.9	15.8	5.6	9.1	0.6	0.9		Q
5 Persons.....	7.9	7.9	2.7	4.7	0.4	0.4		N
6 or More Persons.....	4.1	4.1	1.2	2.7	Q	0.3		N
2005 Household Income Category								
Less than \$10,000.....	9.9	9.5	4.1	4.7	0.3	0.3		N
\$10,000 to \$14,999.....	8.5	8.3	3.8	3.9	0.4	0.3		N
\$15,000 to \$19,999.....	8.4	8.3	3.8	3.9	0.5	0.3		N
\$20,000 to \$29,999.....	15.1	14.9	6.4	7.8	0.4	0.6		N
\$30,000 to \$39,999.....	13.6	13.5	5.9	6.7	0.4	0.6		Q
\$40,000 to \$49,999.....	11.0	11.0	4.4	6.0	0.4	0.6		Q
\$50,000 to \$74,999.....	19.8	19.7	7.2	11.3	0.6	1.2		Q
\$75,000 to \$99,999.....	10.6	10.6	4.0	5.9	0.6	0.4		Q
\$100,000 or More.....	14.2	14.1	3.7	9.7	0.6	1.4		Q
Income Relative to Poverty Line								
Below 100 Percent.....	16.6	16.2	7.0	7.9	0.7	0.7		N
100 to 150 Percent.....	12.9	12.8	5.9	6.3	0.4	0.4		N
Above 150 Percent.....	81.5	81.0	30.4	45.6	3.2	4.7		0.3
Eligible for Federal Assistance²								
Yes.....	38.6	37.8	16.2	18.9	1.7	1.4		N
No.....	72.5	72.2	27.1	40.9	2.5	4.4		0.3
Payment Method for Utilities								
All Paid by Household.....	97.5	97.0	39.4	52.2	3.2	5.1		0.3
Some Paid, Some in Rent.....	7.6	7.4	2.3	4.3	0.7	0.4		Q
All Included in Rent.....	4.7	4.4	1.1	2.7	0.3	Q		Q
Other Method.....	1.3	1.3	0.6	0.6	Q	Q		N

Table WH2. Total Households by Water Heating Fuels Used, 2005
Million U.S. Households

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Fuels Used (million U.S. households)					
			Electricity	Natural Gas	Fuel Oil	LPG	Other Fuels	
Ethnic Origin of Householder								
Hispanic Descent.....	14.8	14.5	5.2	7.9	0.8	0.8	Q	
Non-Hispanic Descent.....	96.3	95.5	38.1	51.9	3.4	5.0	0.3	
Race of Householder³								
White.....	79.1	78.4	31.6	41.8	3.0	4.9	Q	
Hispanic.....	5.0	5.0	2.0	2.5	0.2	0.4	N	
Non-Hispanic.....	74.1	73.5	29.6	39.3	2.8	4.5	Q	
Black.....	13.4	13.3	5.6	7.1	0.4	0.3	N	
Hispanic.....	0.3	0.3	Q	Q	Q	N	N	
Non-Hispanic.....	13.1	13.0	5.5	7.0	0.4	0.3	N	
Asian.....	3.3	3.3	1.0	2.2	Q	Q	Q	
Multi-Racial.....	1.3	1.3	0.5	0.8	Q	Q	Q	
Other.....	7.1	7.0	1.8	4.6	0.3	0.3	Q	
Undetermined (Race Reported as Hispanic).....	6.9	6.6	2.7	3.3	0.4	Q	N	
Age of Householder								
Under 25 Years.....	5.5	5.2	2.9	2.1	Q	Q	N	
25 to 34 Years.....	18.2	18.0	7.4	9.9	0.4	0.7	Q	
35 to 44 Years.....	22.2	22.1	8.6	12.4	0.7	1.1	Q	
45 to 54 Years.....	23.3	23.2	8.1	13.4	1.1	1.4	Q	
55 to 64 Years.....	18.0	17.9	6.8	9.6	0.8	1.4	Q	
65 to 74 Years.....	12.3	12.1	4.9	6.4	0.4	0.8	Q	
75 Years or More.....	11.7	11.5	4.7	6.0	0.6	0.3	Q	
Adults Age 65 or Older in Household								
Yes.....	26.9	26.4	10.5	14.3	1.2	1.2	Q	
No.....	84.2	83.6	32.8	45.6	3.1	4.6	0.3	
Children Under Age 5 in Household								
Yes.....	15.0	14.9	5.5	8.6	0.5	0.8	Q	
No.....	96.1	95.1	37.8	51.3	3.8	5.0	0.3	
Children Age 5 to 16 in Household								
Yes.....	28.1	28.0	9.9	16.4	1.1	1.8	Q	
No.....	83.0	82.0	33.4	43.4	3.1	4.0	0.3	

Table WH2. Total Households by Water Heating Fuels Used, 2005
Million U.S. Households

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Fuels Used (million U.S. households)					
			Electricity	Natural Gas	Fuel Oil	LPG	Other Fuels	
Number of Water Heaters								
1.....	106.3	106.3	41.8	56.6	4.0	3.8	0.2	
2 or More.....	3.7	3.7	1.5	3.3	0.3	2.0	Q	
Do Not Use Hot Water.....	1.1	N	N	N	N	N	N	
Age of Main Water Heater								
Used by One Housing Unit								
Less than 2 Years.....	14.7	14.7	5.2	8.5	0.3	1.2	Q	
2 to 4 Years.....	18.6	18.6	7.2	10.3	0.4	1.1	Q	
5 to 9 Years.....	25.5	25.5	11.2	13.3	0.5	1.5	Q	
10 to 19 Years.....	20.1	20.1	8.0	11.2	0.6	1.0	Q	
20 Years or More.....	6.8	6.8	3.0	3.3	0.5	Q	Q	
Don't Know.....	12.0	12.0	5.0	6.7	0.2	0.4	Q	
No Separate Water Heater.....	1.9	1.9	0.6	0.6	Q	Q	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.....	0.5	0.5	Q	Q	Q	Q	Q	
5 to 9 Years.....	0.5	0.5	Q	0.4	Q	Q	N	
10 to 19 Years.....	0.6	0.6	Q	0.3	Q	N	N	
20 Years or More.....	0.6	0.6	Q	0.3	Q	Q	N	
Don't Know.....	4.4	4.4	1.3	2.7	0.4	Q	N	
No Separate Water Heater.....	3.4	3.4	1.1	1.8	0.4	Q	Q	
Size of Main Water Heater								
Used by One Housing Unit								
Small (30 gallons or less).....	17.1	17.1	9.2	7.1	0.4	0.8	N	
Medium (31 to 49 gallons).....	52.4	52.4	19.3	30.7	1.1	2.6	Q	
Large (50 gallons or more).....	27.1	27.1	11.0	15.2	0.5	1.7	Q	
Tankless water heater.....	1.1	1.1	Q	0.3	0.6	Q	N	
No Separate Water Heater.....	1.9	1.9	0.6	0.6	Q	Q	Q	
Used by Two or More Housing Units								
Small (30 gallons or less).....	1.4	1.4	0.4	0.8	Q	Q	N	
Medium (31 to 49 gallons).....	2.4	2.4	0.7	1.5	Q	Q	N	
Large (50 gallons or more).....	2.8	2.8	0.8	1.8	Q	Q	N	
Tankless water heater.....	0.2	0.2	N	Q	Q	N	Q	
No Separate Water Heater.....	3.4	3.4	1.1	1.8	0.4	Q	Q	

Table WH2. Total Households by Water Heating Fuels Used, 2005
Million U.S. Households

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Fuels Used (million U.S. households)					
			Electricity	Natural Gas	Fuel Oil	LPG	Other Fuels	
Clothes Washer								
Do Not Use a Clothes Washer.....	19.3	18.6	7.4	9.7	1.0	0.7		Q
Use a Clothes Washer.....	91.8	91.4	36.0	50.1	3.3	5.1		0.3
Top Loading.....	84.1	83.7	33.2	45.7	2.9	4.4		0.2
Front Loading.....	7.7	7.7	2.8	4.4	0.4	0.6		Q
Age of Clothes Washer								
Less than 2 Years.....	15.7	15.6	6.0	9.0	0.3	0.8		Q
2 to 4 Years.....	21.1	21.0	8.0	11.5	0.8	1.5		Q
5 to 9 Years.....	28.9	28.7	11.8	15.2	1.1	1.6		Q
10 to 19 Years.....	19.9	19.8	7.6	11.1	0.8	1.0		Q
20 Years or More.....	4.1	4.0	1.7	2.2	Q	Q		Q
Don't Know.....	2.2	2.2	0.9	1.2	Q	N		N
Frequency of Clothes Washer Use								
Use a Clothes Washer in the Home.....	91.8	91.4	36.0	50.1	3.3	5.1		0.3
1 Load Each Week.....	7.3	7.1	3.0	3.9	Q	Q		N
2 to 5 Loads Each Week.....	39.0	38.8	15.1	21.3	1.5	2.1		Q
6 to 9 Loads Each Week.....	33.8	33.7	13.2	18.3	1.2	2.0		Q
10 to 15 Loads Each Week.....	9.3	9.3	3.8	5.0	0.4	0.7		Q
More than 15 Loads Each Week.....	2.4	2.4	0.8	1.6	Q	Q		N
Do Not Use a Clothes Washer in the Home.....	19.3	18.6	7.4	9.7	1.0	0.7		Q
Usual Water Temperature Setting								
Wash Cycle								
Hot.....	6.7	6.7	2.4	3.9	0.3	Q		N
Warm.....	50.5	50.3	17.8	29.5	1.8	3.2		Q
Cold.....	34.6	34.4	15.8	16.7	1.1	1.7		Q
Rinse Cycle								
Hot.....	1.6	1.6	0.6	0.9	N	Q		N
Warm.....	18.2	18.1	6.5	10.4	0.8	1.0		Q
Cold.....	72.0	71.7	28.9	38.8	2.5	4.0		0.2
Energy Star Clothes Washer⁴								
Yes.....	21.7	21.7	7.0	13.1	0.9	1.5		Q
No.....	10.4	10.4	4.9	5.1	0.2	0.5		Q
Don't Know.....	4.5	4.5	2.1	2.2	Q	0.4		N
Unit is More Than 4 Years Old.....	55.1	54.8	22.0	29.7	2.1	2.7		0.2

Table WH2. Total Households by Water Heating Fuels Used, 2005
Million U.S. Households

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Fuels Used (million U.S. households)					
			Electricity	Natural Gas	Fuel Oil	LPG	Other Fuels	
Dishwasher								
Do Not Use a Dishwasher.....	64.7	64.5	25.6	35.3	2.3	4.0	0.2	
Use a Dishwasher.....	46.4	45.5	17.8	24.6	2.0	1.8	Q	
Age of Dishwasher								
Less than 2 Years.....	11.5	11.4	4.6	6.5	0.3	0.6	N	
2 to 4 Years.....	14.6	14.5	5.5	8.0	0.6	1.1	Q	
5 to 9 Years.....	19.2	19.1	7.6	10.4	0.6	1.3	Q	
10 to 19 Years.....	12.8	12.8	5.0	7.0	0.6	0.9	Q	
20 Years or More.....	3.3	3.3	1.2	1.8	0.2	Q	N	
Don't Know.....	3.3	3.3	1.6	1.6	Q	Q	N	
Frequency of Dishwasher Use								
Use a Dishwasher.....	64.7	64.5	25.6	35.3	2.3	4.0	0.2	
At Least Once Each Day.....	11.3	11.3	4.0	6.6	0.5	0.7	Q	
4 to 6 Times a Week.....	11.7	11.7	4.4	6.6	0.5	1.0	Q	
2 to 3 Times a Week.....	21.8	21.7	8.2	12.0	0.8	1.3	Q	
Once each Week.....	9.0	9.0	4.0	4.6	0.2	0.5	Q	
Less than Once Each Week.....	10.9	10.9	4.9	5.4	0.3	0.5	N	
Do Not Use a Dishwasher.....	46.4	45.5	17.8	24.6	2.0	1.8	Q	
Energy Star Dishwasher⁴								
Yes.....	16.4	16.3	5.6	9.6	0.7	1.2	Q	
No.....	6.6	6.6	3.3	3.0	Q	0.4	N	
Don't Know.....	3.1	3.1	1.3	1.8	Q	Q	N	
Unit is More Than 4 Years Old.....	38.6	38.5	15.5	20.8	1.4	2.3	Q	

Table WH2. Total Households by Water Heating Fuels Used, 2005
Million U.S. Households

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Fuels Used (million U.S. households)					
			Electricity	Natural Gas	Fuel Oil	LPG	Other Fuels	
Other Water Heating								
Hot Tubs or Spas	6.7	6.7	2.4	4.0	Q	0.7	Q	Q
Electricity.....	5.3	5.3	2.3	2.8	Q	0.4	Q	Q
Natural Gas.....	1.2	1.2	Q	1.2	N	Q	Q	N
Swimming Pools	1.9	1.9	0.5	1.2	Q	0.4	Q	Q
Natural Gas.....	1.2	1.2	Q	1.0	Q	Q	Q	N
Electricity.....	0.4	0.4	Q	Q	Q	Q	Q	N
Propane/LPG.....	0.3	0.3	Q	Q	Q	Q	Q	Q
Some Other Fuel.....	Q	Q	Q	N	N	N	N	N
Electric Water Beds	2.2	2.1	1.0	1.0	Q	Q	Q	N
1.....	1.9	1.8	0.9	0.8	Q	Q	Q	N
2 or More.....	0.3	0.3	Q	Q	N	Q	Q	N
Heaters Used all Year	1.7	1.7	0.7	0.8	Q	Q	Q	N
1.....	1.5	1.5	0.7	0.6	Q	Q	Q	N
2 or More.....	0.3	0.3	Q	Q	N	Q	Q	N

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.

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.

Table WH3. Total Consumption for Water Heating by Major Fuels Used, 2005
Physical Units

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (physical units)			
			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	LPG (million gal)
Total.....	111.1	109.8	122	1,368	986	1,642
Census Region and Division						
Northeast.....	20.6	19.9	11	247	889	213
New England.....	5.5	5.3	4	49	329	62
Middle Atlantic.....	15.1	14.5	7	198	561	152
Midwest.....	25.6	25.4	22	389	Q	500
East North Central.....	17.7	17.6	15	279	N	318
West North Central.....	7.9	7.8	7	110	Q	183
South.....	40.7	40.5	70	341	Q	463
South Atlantic.....	21.7	21.7	42	136	Q	139
East South Central.....	6.9	6.9	14	51	Q	95
West South Central.....	12.1	12.0	14	155	N	229
West.....	24.2	24.0	19	391	Q	465
Mountain.....	7.6	7.5	6	110	Q	193
Pacific.....	16.6	16.5	13	281	Q	272
Four Most Populated States						
New York.....	7.1	6.7	2	75	388	119
Florida.....	7.0	7.0	15	18	N	Q
Texas.....	8.0	7.9	10	106	N	148
California.....	12.1	12.1	3	243	N	240
All Other States.....	76.9	76.2	92	927	597	1,110
Urban/Rural Location (as Self-Reported)						
City.....	47.1	46.5	43	611	314	322
Town.....	19.0	18.8	18	258	164	177
Suburbs.....	22.7	22.5	17	404	223	226
Rural.....	22.3	22.0	44	95	286	919
Climate Zone¹						
Less than 2,000 CDD and--						
Greater than 7,000 HDD.....	10.9	10.6	10	130	Q	272
5,500 to 7,000 HDD.....	26.1	25.8	19	367	382	302
4,000 to 5,499 HDD.....	27.3	26.8	31	325	382	365
Fewer than 4,000 HDD.....	24.0	23.9	24	351	Q	441
2000 CDD or More and--						
Less than 4,000 HDD.....	22.8	22.6	38	195	Q	262

Table WH3. Total Consumption for Water Heating by Major Fuels Used, 2005
Physical Units

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (physical units)			
			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	LPG (million gal)
Type of Housing Unit						
Single-Family Detached.....	72.1	71.8	80	1,047	657	1,314
Single-Family Attached.....	7.6	7.5	6	109	Q	Q
Apartments in 2-4 Unit Buildings.....	7.8	7.7	6	82	82	Q
Apartments in 5 or More Unit Buildings.....	16.7	16.1	16	104	181	90
Mobile Homes.....	6.9	6.8	13	25	Q	160
Ownership of Housing Unit						
Owned	78.1	77.6	85	1,064	710	1,424
Single-Family Detached.....	64.1	63.8	69	939	617	1,240
Single-Family Attached.....	4.2	4.1	2	65	Q	Q
Apartments in 2-4 Unit Buildings.....	1.8	1.8	1	25	Q	Q
Apartments in 5 or More Unit Buildings.....	2.3	2.3	2	15	Q	Q
Mobile Homes.....	5.7	5.6	11	19	Q	129
Rented	33.0	32.2	37	304	276	219
Single-Family Detached.....	8.0	8.0	11	108	Q	Q
Single-Family Attached.....	3.4	3.4	4	44	Q	Q
Apartments in 2-4 Unit Buildings.....	5.9	5.8	5	57	51	Q
Apartments in 5 or More Unit Buildings.....	14.4	13.8	14	89	172	85
Mobile Homes.....	1.2	1.1	2	6	Q	Q
Year of Construction						
Before 1940.....	14.7	14.5	12	191	258	214
1940 to 1949.....	7.4	7.3	3	114	125	148
1950 to 1959.....	12.5	12.4	10	173	121	96
1960 to 1969.....	12.5	12.2	11	159	161	116
1970 to 1979.....	18.9	18.6	24	191	126	192
1980 to 1989.....	18.6	18.4	25	207	64	276
1990 to 1999.....	17.3	17.2	25	213	87	305
2000 to 2005.....	9.2	9.1	12	120	44	297

Table WH3. Total Consumption for Water Heating by Major Fuels Used, 2005
Physical Units

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (physical units)			
			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	LPG (million gal)
Household Size						
1 Person.....	30.0	29.5	21	231	128	224
2 Persons.....	34.8	34.4	38	405	322	528
3 Persons.....	18.4	18.2	25	250	203	263
4 Persons.....	15.9	15.8	21	248	172	319
5 Persons.....	7.9	7.9	11	141	106	190
6 or More Persons.....	4.1	4.1	6	94	Q	119
2005 Household Income Category						
Less than \$10,000.....	9.9	9.5	9	81	74	89
\$10,000 to \$14,999.....	8.5	8.3	9	67	84	67
\$15,000 to \$19,999.....	8.4	8.3	10	71	99	80
\$20,000 to \$29,999.....	15.1	14.9	18	153	77	157
\$30,000 to \$39,999.....	13.6	13.4	17	144	82	147
\$40,000 to \$49,999.....	11.0	11.0	12	132	95	142
\$50,000 to \$74,999.....	19.8	19.7	21	275	143	363
\$75,000 to \$99,999.....	10.6	10.5	13	154	150	101
\$100,000 or More.....	14.2	14.1	12	292	182	495
Income Relative to Poverty Line						
Below 100 Percent.....	16.6	16.2	19	152	162	209
100 to 150 Percent.....	12.9	12.8	17	123	80	91
Above 150 Percent.....	81.5	80.9	85	1,094	744	1,342
Eligible for Federal Assistance²						
Yes.....	38.6	37.8	45	376	361	392
No.....	72.5	72.0	77	992	625	1,250
Payment Method for Utilities						
All Paid by Household.....	97.5	96.8	111	1,257	739	1,469
Some Paid, Some in Rent.....	7.6	7.4	6	60	162	91
All Included in Rent.....	4.7	4.3	3	39	68	Q
Other Method.....	1.3	1.3	2	12	Q	Q

Table WH3. Total Consumption for Water Heating by Major Fuels Used, 2005
Physical Units

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (physical units)			
			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	LPG (million gal)
Ethnic Origin of Householder						
Hispanic Descent.....	14.8	14.5	16	176	194	218
Non-Hispanic Descent.....	96.3	95.3	106	1,192	792	1,425
Race of Householder³						
White.....	79.1	78.4	88	961	700	1,362
Hispanic.....	5.0	5.0	6	54	56	101
Non-Hispanic.....	74.1	73.4	82	907	644	1,261
Black.....	13.4	13.3	16	168	100	83
Hispanic.....	0.3	0.3	Q	Q	Q	N
Non-Hispanic.....	13.1	13.0	16	165	92	83
Asian.....	3.3	3.3	3	51	Q	Q
Multi-Racial.....	1.3	1.3	1	17	Q	Q
Other.....	7.1	7.0	6	96	73	93
Undetermined (Race Reported as Hispanic).....	6.9	6.6	8	76	106	Q
Age of Householder						
Under 25 Years.....	5.5	5.2	8	34	Q	Q
25 to 34 Years.....	18.2	18.0	24	231	96	204
35 to 44 Years.....	22.2	22.0	29	331	158	376
45 to 54 Years.....	23.3	23.2	25	323	293	431
55 to 64 Years.....	18.0	17.8	18	214	191	358
65 to 74 Years.....	12.3	12.1	11	129	84	188
75 Years or More.....	11.7	11.5	8	106	114	66
Adults Age 65 or Older in Household						
Yes.....	26.9	26.4	22	290	242	277
No.....	84.2	83.4	100	1,078	744	1,366
Children Under Age 5 in Household						
Yes.....	15.0	14.9	21	231	132	262
No.....	96.1	94.9	101	1,137	853	1,380
Children Age 5 to 16 in Household						
Yes.....	28.1	28.0	38	469	302	655
No.....	83.0	81.8	83	899	684	987

Table WH3. Total Consumption for Water Heating by Major Fuels Used, 2005
Physical Units

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (physical units)			
			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	LPG (million gal)
Number of Water Heaters						
1.....	106.3	106.1	116	1,301	903	1,037
2 or More.....	3.7	3.7	5	67	83	605
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	16	219	75	334
2 to 4 Years.....	18.6	18.6	23	251	100	314
5 to 9 Years.....	25.5	25.5	32	333	124	453
10 to 19 Years.....	20.1	20.1	21	267	152	239
20 Years or More.....	6.8	6.8	8	71	115	Q
Don't Know.....	12.0	12.0	14	137	59	126
No Separate Water Heater.....	1.9	1.9	1	7	Q	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	7	Q	Q
10 to 19 Years.....	0.6	0.6	Q	4	Q	N
20 Years or More.....	0.6	0.6	Q	3	Q	Q
Don't Know.....	4.4	4.4	3	37	95	Q
No Separate Water Heater.....	3.4	3.4	2	24	103	Q
Size of Main Water Heater						
Used by One Housing Unit						
Small (30 gallons or less).....	17.1	17.1	22	133	83	210
Medium (31 to 49 gallons).....	52.4	52.4	50	731	257	752
Large (50 gallons or more).....	27.1	27.0	41	406	160	528
Tankless water heater.....	1.1	1.1	Q	8	126	Q
No Separate Water Heater.....	1.9	1.9	1	7	Q	Q
Used by Two or More Housing Units						
Small (30 gallons or less).....	1.4	1.4	1	14	Q	Q
Medium (31 to 49 gallons).....	2.4	2.4	2	19	Q	Q
Large (50 gallons or more).....	2.8	2.8	2	24	Q	Q
Tankless water heater.....	0.2	0.2	N	Q	Q	N
No Separate Water Heater.....	3.4	3.4	2	24	103	Q

Table WH3. Total Consumption for Water Heating by Major Fuels Used, 2005
Physical Units

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (physical units)			
			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	LPG (million gal)
Clothes Washer						
Do Not Use a Clothes Washer.....	19.3	18.6	18	101	213	183
Use a Clothes Washer.....	91.8	91.2	104	1,268	773	1,460
Top Loading.....	84.1	83.6	96	1,141	686	1,284
Front Loading.....	7.7	7.7	9	127	88	176
Age of Clothes Washer						
Less than 2 Years.....	15.7	15.6	20	239	88	283
2 to 4 Years.....	21.1	21.0	25	294	221	487
5 to 9 Years.....	28.9	28.6	35	375	241	427
10 to 19 Years.....	19.9	19.8	19	279	185	234
20 Years or More.....	4.1	4.0	4	52	Q	Q
Don't Know.....	2.2	2.2	3	29	Q	N
Frequency of Clothes Washer Use						
Use a Clothes Washer in the Home.....	91.8	91.2	104	1,268	773	1,460
1 Load Each Week.....	7.3	7.1	6	80	Q	Q
2 to 5 Loads Each Week.....	39.0	38.8	38	502	314	479
6 to 9 Loads Each Week.....	33.8	33.6	43	483	299	687
10 to 15 Loads Each Week.....	9.3	9.3	15	153	132	206
More than 15 Loads Each Week.....	2.4	2.4	4	50	Q	Q
Do Not Use a Clothes Washer in the Home.....	19.3	18.6	18	101	213	183
Usual Water Temperature Setting						
Wash Cycle						
Hot.....	6.7	6.7	7	102	59	Q
Warm.....	50.5	50.2	52	746	451	920
Cold.....	34.6	34.3	45	420	264	497
Rinse Cycle						
Hot.....	1.6	1.6	2	26	N	Q
Warm.....	18.2	18.1	18	265	179	274
Cold.....	72.0	71.6	84	976	595	1,174
Energy Star Clothes Washer⁴						
Yes.....	21.7	21.7	23	350	241	473
No.....	10.4	10.4	15	128	57	151
Don't Know.....	4.5	4.5	5	54	Q	146
Unit is More Than 4 Years Old.....	55.1	54.7	60	735	464	690

Table WH3. Total Consumption for Water Heating by Major Fuels Used, 2005
Physical Units

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (physical units)			
			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	LPG (million gal)
Dishwasher						
Do Not Use a Dishwasher.....	64.7	64.4	76	908	571	1,134
Use a Dishwasher.....	46.4	45.4	46	460	415	509
Age of Dishwasher						
Less than 2 Years.....	11.5	11.4	15	180	65	230
2 to 4 Years.....	14.6	14.5	18	212	151	303
5 to 9 Years.....	19.2	19.1	22	269	143	330
10 to 19 Years.....	12.8	12.8	14	173	136	208
20 Years or More.....	3.3	3.3	3	41	Q	Q
Don't Know.....	3.3	3.3	4	33	Q	Q
Frequency of Dishwasher Use						
Use a Dishwasher.....	64.7	64.4	76	908	571	1,134
At Least Once Each Day.....	11.3	11.3	16	211	145	248
4 to 6 Times a Week.....	11.7	11.7	15	184	125	312
2 to 3 Times a Week.....	21.8	21.6	23	302	184	350
Once each Week.....	9.0	8.9	11	95	50	111
Less than Once Each Week.....	10.9	10.9	12	117	66	113
Do Not Use a Dishwasher.....	46.4	45.4	46	460	415	509
Energy Star Dishwasher⁴						
Yes.....	16.4	16.2	19	268	162	410
No.....	6.6	6.6	9	76	Q	95
Don't Know.....	3.1	3.1	4	48	Q	Q
Unit is More Than 4 Years Old.....	38.6	38.5	44	516	355	601

Table WH3. Total Consumption for Water Heating by Major Fuels Used, 2005
Physical Units

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (physical units)				
			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	LPG (million gal)	
Other Water Heating							
Hot Tubs or Spas.....	6.7	6.6	8	112	Q	164	
Electricity.....	5.3	5.2	7	77	Q	101	
Natural Gas.....	1.2	1.2	Q	34	N	Q	
Swimming Pools.....	1.9	1.9	2	44	Q	149	
Natural Gas.....	1.2	1.2	Q	34	Q	Q	
Electricity.....	0.4	0.4	Q	Q	Q	Q	
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	4	24	Q	Q	
1.....	1.9	1.8	3	19	Q	Q	
2 or More.....	0.3	0.3	Q	Q	N	Q	
Heaters Used all Year.....	1.7	1.7	3	20	Q	Q	
1.....	1.5	1.5	2	16	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.

Table WH4. Total Consumption for Water Heating by Major Fuels Used, 2005
Quadrillion British Thermal Units (Btu)

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (quadrillion Btu)				
			Total	Electricity	Natural Gas	Fuel Oil	LPG
Total	111.1	109.8	2.11	0.42	1.41	0.14	0.15
Census Region and Division							
Northeast.....	20.6	19.9	0.43	0.04	0.25	0.12	0.02
New England.....	5.5	5.3	0.11	0.01	0.05	0.05	0.01
Middle Atlantic.....	15.1	14.5	0.32	0.03	0.20	0.08	0.01
Midwest.....	25.6	25.4	0.52	0.07	0.40	Q	0.05
East North Central.....	17.7	17.6	0.37	0.05	0.29	N	0.03
West North Central.....	7.9	7.8	0.15	0.02	0.11	Q	0.02
South.....	40.7	40.5	0.64	0.24	0.35	Q	0.04
South Atlantic.....	21.7	21.7	0.30	0.14	0.14	Q	0.01
East South Central.....	6.9	6.9	0.11	0.05	0.05	Q	0.01
West South Central.....	12.1	12.0	0.23	0.05	0.16	N	0.02
West.....	24.2	24.0	0.51	0.06	0.40	Q	0.04
Mountain.....	7.6	7.5	0.15	0.02	0.11	Q	0.02
Pacific.....	16.6	16.5	0.36	0.04	0.29	Q	0.02
Four Most Populated States							
New York.....	7.1	6.7	0.15	0.01	0.08	0.05	0.01
Florida.....	7.0	7.0	0.07	0.05	0.02	N	Q
Texas.....	8.0	7.9	0.16	0.03	0.11	N	0.01
California.....	12.1	12.1	0.28	0.01	0.25	N	0.02
All Other States.....	76.9	76.2	1.45	0.31	0.95	0.08	0.10
Urban/Rural Location (as Self-Reported)							
City.....	47.1	46.5	0.85	0.15	0.63	0.04	0.03
Town.....	19.0	18.8	0.36	0.06	0.27	0.02	0.02
Suburbs.....	22.7	22.5	0.53	0.06	0.42	0.03	0.02
Rural.....	22.3	22.0	0.37	0.15	0.10	0.04	0.08
Climate Zone¹							
Less than 2,000 CDD and--							
Greater than 7,000 HDD.....	10.9	10.6	0.22	0.04	0.13	Q	0.02
5,500 to 7,000 HDD.....	26.1	25.8	0.52	0.07	0.38	0.05	0.03
4,000 to 5,499 HDD.....	27.3	26.8	0.53	0.10	0.33	0.05	0.03
Fewer than 4,000 HDD.....	24.0	23.9	0.48	0.08	0.36	Q	0.04
2000 CDD or More and--							
Less than 4,000 HDD.....	22.8	22.6	0.36	0.13	0.20	Q	0.02

Table WH4. Total Consumption for Water Heating by Major Fuels Used, 2005
Quadrillion British Thermal Units (Btu)

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (quadrillion Btu)					
			Total	Electricity	Natural Gas	Fuel Oil	LPG	
Type of Housing Unit								
Single-Family Detached.....	72.1	71.8	1.56	0.27	1.08	0.09	0.12	
Single-Family Attached.....	7.6	7.5	0.14	0.02	0.11	Q	Q	
Apartments in 2-4 Unit Buildings.....	7.8	7.7	0.12	0.02	0.08	0.01	Q	
Apartments in 5 or More Unit Buildings.....	16.7	16.1	0.20	0.06	0.11	0.03	0.01	
Mobile Homes.....	6.9	6.8	0.09	0.05	0.03	Q	0.01	
Ownership of Housing Unit								
Owned	78.1	77.6	1.61	0.29	1.09	0.10	0.13	
Single-Family Detached.....	64.1	63.8	1.40	0.23	0.97	0.09	0.11	
Single-Family Attached.....	4.2	4.1	0.08	0.01	0.07	Q	Q	
Apartments in 2-4 Unit Buildings.....	1.8	1.8	0.03	(*)	0.03	Q	Q	
Apartments in 5 or More Unit Buildings.....	2.3	2.3	0.02	0.01	0.02	Q	Q	
Mobile Homes.....	5.7	5.6	0.07	0.04	0.02	Q	0.01	
Rented	33.0	32.2	0.50	0.13	0.31	0.04	0.02	
Single-Family Detached.....	8.0	8.0	0.16	0.04	0.11	Q	Q	
Single-Family Attached.....	3.4	3.4	0.06	0.01	0.05	Q	Q	
Apartments in 2-4 Unit Buildings.....	5.9	5.8	0.09	0.02	0.06	0.01	Q	
Apartments in 5 or More Unit Buildings.....	14.4	13.8	0.17	0.05	0.09	0.02	0.01	
Mobile Homes.....	1.2	1.1	0.02	0.01	0.01	Q	Q	
Year of Construction								
Before 1940.....	14.7	14.5	0.29	0.04	0.20	0.04	0.02	
1940 to 1949.....	7.4	7.3	0.16	0.01	0.12	0.02	0.01	
1950 to 1959.....	12.5	12.4	0.24	0.03	0.18	0.02	0.01	
1960 to 1969.....	12.5	12.2	0.23	0.04	0.16	0.02	0.01	
1970 to 1979.....	18.9	18.6	0.31	0.08	0.20	0.02	0.02	
1980 to 1989.....	18.6	18.4	0.33	0.08	0.21	0.01	0.03	
1990 to 1999.....	17.3	17.2	0.35	0.09	0.22	0.01	0.03	
2000 to 2005.....	9.2	9.1	0.20	0.04	0.12	0.01	0.03	

Table WH4. Total Consumption for Water Heating by Major Fuels Used, 2005
Quadrillion British Thermal Units (Btu)

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (quadrillion Btu)					
			Total	Electricity	Natural Gas	Fuel Oil	LPG	
Household Size								
1 Person.....	30.0	29.5	0.35	0.07	0.24	0.02	0.02	
2 Persons.....	34.8	34.4	0.64	0.13	0.42	0.04	0.05	
3 Persons.....	18.4	18.2	0.39	0.08	0.26	0.03	0.02	
4 Persons.....	15.9	15.8	0.38	0.07	0.26	0.02	0.03	
5 Persons.....	7.9	7.9	0.21	0.04	0.14	0.01	0.02	
6 or More Persons.....	4.1	4.1	0.14	0.02	0.10	Q	0.01	
2005 Household Income Category								
Less than \$10,000.....	9.9	9.5	0.13	0.03	0.08	0.01	0.01	
\$10,000 to \$14,999.....	8.5	8.3	0.12	0.03	0.07	0.01	0.01	
\$15,000 to \$19,999.....	8.4	8.3	0.13	0.03	0.07	0.01	0.01	
\$20,000 to \$29,999.....	15.1	14.9	0.24	0.06	0.16	0.01	0.01	
\$30,000 to \$39,999.....	13.6	13.4	0.23	0.06	0.15	0.01	0.01	
\$40,000 to \$49,999.....	11.0	11.0	0.20	0.04	0.14	0.01	0.01	
\$50,000 to \$74,999.....	19.8	19.7	0.41	0.07	0.28	0.02	0.03	
\$75,000 to \$99,999.....	10.6	10.5	0.23	0.05	0.16	0.02	0.01	
\$100,000 or More.....	14.2	14.1	0.41	0.04	0.30	0.03	0.05	
Income Relative to Poverty Line								
Below 100 Percent.....	16.6	16.2	0.26	0.06	0.16	0.02	0.02	
100 to 150 Percent.....	12.9	12.8	0.21	0.06	0.13	0.01	0.01	
Above 150 Percent.....	81.5	80.9	1.64	0.29	1.12	0.10	0.12	
Eligible for Federal Assistance²								
Yes.....	38.6	37.8	0.63	0.15	0.39	0.05	0.04	
No.....	72.5	72.0	1.48	0.26	1.02	0.09	0.11	
Payment Method for Utilities								
All Paid by Household.....	97.5	96.8	1.91	0.38	1.29	0.10	0.13	
Some Paid, Some in Rent.....	7.6	7.4	0.11	0.02	0.06	0.02	0.01	
All Included in Rent.....	4.7	4.3	0.07	0.01	0.04	0.01	Q	
Other Method.....	1.3	1.3	0.02	0.01	0.01	Q	Q	

Table WH4. Total Consumption for Water Heating by Major Fuels Used, 2005
Quadrillion British Thermal Units (Btu)

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (quadrillion Btu)					
			Total	Electricity	Natural Gas	Fuel Oil	LPG	
Ethnic Origin of Householder								
Hispanic Descent.....	14.8	14.5	0.28	0.05	0.18	0.03	0.02	
Non-Hispanic Descent.....	96.3	95.3	1.83	0.36	1.23	0.11	0.13	
Race of Householder³								
White.....	79.1	78.4	1.51	0.30	0.99	0.10	0.12	
Hispanic.....	5.0	5.0	0.09	0.02	0.06	0.01	0.01	
Non-Hispanic.....	74.1	73.4	1.42	0.28	0.93	0.09	0.12	
Black.....	13.4	13.3	0.25	0.06	0.17	0.01	0.01	
Hispanic.....	0.3	0.3	0.01	Q	Q	Q	N	
Non-Hispanic.....	13.1	13.0	0.24	0.05	0.17	0.01	0.01	
Asian.....	3.3	3.3	0.07	0.01	0.05	Q	Q	
Multi-Racial.....	1.3	1.3	0.02	(*)	0.02	Q	Q	
Other.....	7.1	7.0	0.14	0.02	0.10	0.01	0.01	
Undetermined (Race Reported as Hispanic).....	6.9	6.6	0.13	0.03	0.08	0.01	Q	
Age of Householder								
Under 25 Years.....	5.5	5.2	0.07	0.03	0.04	Q	Q	
25 to 34 Years.....	18.2	18.0	0.35	0.08	0.24	0.01	0.02	
35 to 44 Years.....	22.2	22.0	0.49	0.10	0.34	0.02	0.03	
45 to 54 Years.....	23.3	23.2	0.50	0.08	0.33	0.04	0.04	
55 to 64 Years.....	18.0	17.8	0.34	0.06	0.22	0.03	0.03	
65 to 74 Years.....	12.3	12.1	0.20	0.04	0.13	0.01	0.02	
75 Years or More.....	11.7	11.5	0.16	0.03	0.11	0.02	0.01	
Adults Age 65 or Older in Household								
Yes.....	26.9	26.4	0.43	0.08	0.30	0.03	0.03	
No.....	84.2	83.4	1.68	0.34	1.11	0.10	0.12	
Children Under Age 5 in Household								
Yes.....	15.0	14.9	0.35	0.07	0.24	0.02	0.02	
No.....	96.1	94.9	1.76	0.34	1.17	0.12	0.13	
Children Age 5 to 16 in Household								
Yes.....	28.1	28.0	0.72	0.13	0.48	0.04	0.06	
No.....	83.0	81.8	1.39	0.28	0.92	0.09	0.09	

Table WH4. Total Consumption for Water Heating by Major Fuels Used, 2005
Quadrillion British Thermal Units (Btu)

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (quadrillion Btu)					
			Total	Electricity	Natural Gas	Fuel Oil	LPG	
Number of Water Heaters								
1.....	106.3	106.1	1.96	0.40	1.34	0.13	0.09	
2 or More.....	3.7	3.7	0.15	0.02	0.07	0.01	0.06	
Do Not Use Hot Water.....	1.1	N	N	N	N	N	N	
Age of Main Water Heater								
Used by One Housing Unit								
Less than 2 Years.....	14.7	14.6	0.32	0.06	0.23	0.01	0.03	
2 to 4 Years.....	18.6	18.6	0.38	0.08	0.26	0.01	0.03	
5 to 9 Years.....	25.5	25.5	0.51	0.11	0.34	0.02	0.04	
10 to 19 Years.....	20.1	20.1	0.39	0.07	0.27	0.02	0.02	
20 Years or More.....	6.8	6.8	0.12	0.03	0.07	0.02	Q	
Don't Know.....	12.0	12.0	0.21	0.05	0.14	0.01	0.01	
No Separate Water Heater.....	1.9	1.9	0.03	(*)	0.01	Q	Q	
Used by Two or More Housing Units								
Less than 2 Years.....	0.3	0.3	0.01	Q	Q	Q	N	
2 to 4 Years.....	0.5	0.5	0.01	Q	Q	Q	Q	
5 to 9 Years.....	0.5	0.5	0.01	Q	0.01	Q	Q	
10 to 19 Years.....	0.6	0.6	0.01	Q	(*)	Q	N	
20 Years or More.....	0.6	0.6	0.01	Q	(*)	Q	Q	
Don't Know.....	4.4	4.4	0.06	0.01	0.04	0.01	Q	
No Separate Water Heater.....	3.4	3.4	0.05	0.01	0.02	0.01	Q	
Size of Main Water Heater								
Used by One Housing Unit								
Small (30 gallons or less).....	17.1	17.1	0.24	0.07	0.14	0.01	0.02	
Medium (31 to 49 gallons).....	52.4	52.4	1.03	0.17	0.75	0.04	0.07	
Large (50 gallons or more).....	27.1	27.0	0.63	0.14	0.42	0.02	0.05	
Tankless water heater.....	1.1	1.1	0.03	Q	0.01	0.02	Q	
No Separate Water Heater.....	1.9	1.9	0.03	(*)	0.01	Q	Q	
Used by Two or More Housing Units								
Small (30 gallons or less).....	1.4	1.4	0.03	(*)	0.01	Q	Q	
Medium (31 to 49 gallons).....	2.4	2.4	0.03	0.01	0.02	Q	Q	
Large (50 gallons or more).....	2.8	2.8	0.04	0.01	0.02	Q	Q	
Tankless water heater.....	0.2	0.2	0.01	N	Q	Q	N	
No Separate Water Heater.....	3.4	3.4	0.05	0.01	0.02	0.01	Q	

Table WH4. Total Consumption for Water Heating by Major Fuels Used, 2005
Quadrillion British Thermal Units (Btu)

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (quadrillion Btu)					
			Total	Electricity	Natural Gas	Fuel Oil	LPG	
Clothes Washer								
Do Not Use a Clothes Washer.....	19.3	18.6	0.21	0.06	0.10	0.03	0.02	
Use a Clothes Washer.....	91.8	91.2	1.90	0.36	1.30	0.11	0.13	
Top Loading.....	84.1	83.6	1.71	0.33	1.17	0.10	0.12	
Front Loading.....	7.7	7.7	0.19	0.03	0.13	0.01	0.02	
Age of Clothes Washer								
Less than 2 Years.....	15.7	15.6	0.35	0.07	0.25	0.01	0.03	
2 to 4 Years.....	21.1	21.0	0.46	0.08	0.30	0.03	0.04	
5 to 9 Years.....	28.9	28.6	0.58	0.12	0.39	0.03	0.04	
10 to 19 Years.....	19.9	19.8	0.40	0.06	0.29	0.03	0.02	
20 Years or More.....	4.1	4.0	0.07	0.01	0.05	Q	Q	
Don't Know.....	2.2	2.2	0.04	0.01	0.03	Q	N	
Frequency of Clothes Washer Use								
Use a Clothes Washer in the Home.....	91.8	91.2	1.90	0.36	1.30	0.11	0.13	
1 Load Each Week.....	7.3	7.1	0.11	0.02	0.08	Q	Q	
2 to 5 Loads Each Week.....	39.0	38.8	0.73	0.13	0.52	0.04	0.04	
6 to 9 Loads Each Week.....	33.8	33.6	0.75	0.15	0.50	0.04	0.06	
10 to 15 Loads Each Week.....	9.3	9.3	0.24	0.05	0.16	0.02	0.02	
More than 15 Loads Each Week.....	2.4	2.4	0.07	0.01	0.05	Q	Q	
Do Not Use a Clothes Washer in the Home.....	19.3	18.6	0.21	0.06	0.10	0.03	0.02	
Usual Water Temperature Setting								
Wash Cycle								
Hot.....	6.7	6.7	0.14	0.02	0.10	0.01	Q	
Warm.....	50.5	50.2	1.09	0.18	0.77	0.06	0.08	
Cold.....	34.6	34.3	0.67	0.15	0.43	0.04	0.05	
Rinse Cycle								
Hot.....	1.6	1.6	0.04	0.01	0.03	N	Q	
Warm.....	18.2	18.1	0.38	0.06	0.27	0.02	0.03	
Cold.....	72.0	71.6	1.48	0.29	1.00	0.08	0.11	
Energy Star Clothes Washer⁴								
Yes.....	21.7	21.7	0.52	0.08	0.36	0.03	0.04	
No.....	10.4	10.4	0.21	0.05	0.13	0.01	0.01	
Don't Know.....	4.5	4.5	0.09	0.02	0.06	Q	0.01	
Unit is More Than 4 Years Old.....	55.1	54.7	1.09	0.21	0.76	0.06	0.06	

Table WH4. Total Consumption for Water Heating by Major Fuels Used, 2005
Quadrillion British Thermal Units (Btu)

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (quadrillion Btu)					
			Total	Electricity	Natural Gas	Fuel Oil	LPG	
Dishwasher								
Do Not Use a Dishwasher.....	64.7	64.4	1.38	0.26	0.93	0.08	0.10	
Use a Dishwasher.....	46.4	45.4	0.73	0.16	0.47	0.06	0.05	
Age of Dishwasher								
Less than 2 Years.....	11.5	11.4	0.27	0.05	0.19	0.01	0.02	
2 to 4 Years.....	14.6	14.5	0.33	0.06	0.22	0.02	0.03	
5 to 9 Years.....	19.2	19.1	0.40	0.08	0.28	0.02	0.03	
10 to 19 Years.....	12.8	12.8	0.26	0.05	0.18	0.02	0.02	
20 Years or More.....	3.3	3.3	0.07	0.01	0.04	Q	Q	
Don't Know.....	3.3	3.3	0.05	0.01	0.03	Q	Q	
Frequency of Dishwasher Use								
Use a Dishwasher.....	64.7	64.4	1.38	0.26	0.93	0.08	0.10	
At Least Once Each Day.....	11.3	11.3	0.31	0.05	0.22	0.02	0.02	
4 to 6 Times a Week.....	11.7	11.7	0.28	0.05	0.19	0.02	0.03	
2 to 3 Times a Week.....	21.8	21.6	0.45	0.08	0.31	0.03	0.03	
Once each Week.....	9.0	8.9	0.15	0.04	0.10	0.01	0.01	
Less than Once Each Week.....	10.9	10.9	0.18	0.04	0.12	0.01	0.01	
Do Not Use a Dishwasher.....	46.4	45.4	0.73	0.16	0.47	0.06	0.05	
Energy Star Dishwasher⁴								
Yes.....	16.4	16.2	0.40	0.06	0.28	0.02	0.04	
No.....	6.6	6.6	0.12	0.03	0.08	Q	0.01	
Don't Know.....	3.1	3.1	0.07	0.02	0.05	Q	Q	
Unit is More Than 4 Years Old.....	38.6	38.5	0.79	0.15	0.53	0.05	0.05	

Table WH4. Total Consumption for Water Heating by Major Fuels Used, 2005
Quadrillion British Thermal Units (Btu)

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (quadrillion Btu)				
			Total	Electricity	Natural Gas	Fuel Oil	LPG
Other Water Heating							
Hot Tubs or Spas	6.7	6.6	0.16	0.03	0.12	Q	0.02
Electricity.....	5.3	5.2	0.12	0.03	0.08	Q	0.01
Natural Gas.....	1.2	1.2	0.04	Q	0.03	N	Q
Swimming Pools	1.9	1.9	0.07	0.01	0.05	Q	0.01
Natural Gas.....	1.2	1.2	0.05	Q	0.03	Q	Q
Electricity.....	0.4	0.4	0.02	Q	Q	Q	Q
Propane/LPG.....	0.3	0.3	0.01	Q	Q	Q	Q
Some Other Fuel.....	Q	Q	Q	Q	N	N	N
Electric Water Beds	2.2	2.1	0.04	0.01	0.02	Q	Q
1.....	1.9	1.8	0.03	0.01	0.02	Q	Q
2 or More.....	0.3	0.3	0.01	Q	Q	N	Q
Heaters Used all Year	1.7	1.7	0.04	0.01	0.02	Q	Q
1.....	1.5	1.5	0.03	0.01	0.02	Q	Q
2 or More.....	0.3	0.3	0.01	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.

Table WH5. Total Expenditures for Water Heating by Major Fuels Used, 2005
Billion Dollars

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (billion Dollars)				
			Total	Electricity	Natural Gas	Fuel Oil	LPG
Total	111.1	109.8	31.99	11.13	15.57	2.00	3.28
Census Region and Division							
Northeast.....	20.6	19.9	6.65	1.32	3.07	1.81	0.45
New England.....	5.5	5.3	1.95	0.48	0.69	0.66	0.12
Middle Atlantic.....	15.1	14.5	4.70	0.84	2.38	1.15	0.33
Midwest.....	25.6	25.4	6.84	1.80	4.10	Q	0.92
East North Central.....	17.7	17.6	4.73	1.27	2.85	N	0.60
West North Central.....	7.9	7.8	2.11	0.53	1.25	Q	0.32
South.....	40.7	40.5	11.46	6.31	4.08	Q	0.95
South Atlantic.....	21.7	21.7	5.92	3.83	1.72	Q	0.29
East South Central.....	6.9	6.9	1.95	1.06	0.66	Q	0.20
West South Central.....	12.1	12.0	3.60	1.42	1.70	N	0.47
West.....	24.2	24.0	7.04	1.70	4.32	Q	0.96
Mountain.....	7.6	7.5	2.19	0.53	1.22	Q	0.39
Pacific.....	16.6	16.5	4.85	1.18	3.10	Q	0.57
Four Most Populated States							
New York.....	7.1	6.7	2.36	0.31	0.98	0.80	0.26
Florida.....	7.0	7.0	1.86	1.56	0.25	N	Q
Texas.....	8.0	7.9	2.57	1.05	1.21	N	0.31
California.....	12.1	12.1	3.56	0.34	2.71	N	0.51
All Other States.....	76.9	76.2	21.65	7.88	10.42	1.20	2.14
Urban/Rural Location (as Self-Reported)							
City.....	47.1	46.5	12.50	4.13	7.00	0.64	0.74
Town.....	19.0	18.8	5.29	1.65	2.90	0.33	0.40
Suburbs.....	22.7	22.5	7.14	1.57	4.61	0.45	0.51
Rural.....	22.3	22.0	7.06	3.78	1.07	0.58	1.63
Climate Zone¹							
Less than 2,000 CDD and--							
Greater than 7,000 HDD.....	10.9	10.6	3.20	1.00	1.33	Q	0.50
5,500 to 7,000 HDD.....	26.1	25.8	7.16	1.70	4.11	0.76	0.58
4,000 to 5,499 HDD.....	27.3	26.8	7.85	2.58	3.76	0.79	0.73
Fewer than 4,000 HDD.....	24.0	23.9	7.14	2.14	4.03	Q	0.92
2000 CDD or More and--							
Less than 4,000 HDD.....	22.8	22.6	6.65	3.71	2.34	Q	0.54

Table WH5. Total Expenditures for Water Heating by Major Fuels Used, 2005
Billion Dollars

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (billion Dollars)					
			Total	Electricity	Natural Gas	Fuel Oil	LPG	
Type of Housing Unit								
Single-Family Detached.....	72.1	71.8	23.00	7.13	11.98	1.33		2.56
Single-Family Attached.....	7.6	7.5	2.03	0.59	1.26	Q		Q
Apartments in 2-4 Unit Buildings.....	7.8	7.7	1.84	0.62	0.98	0.17		Q
Apartments in 5 or More Unit Buildings.....	16.7	16.1	3.31	1.63	1.09	0.37		0.22
Mobile Homes.....	6.9	6.8	1.81	1.17	0.26	Q		0.31
Ownership of Housing Unit								
Owned	78.1	77.6	24.09	7.63	12.21	1.45		2.80
Single-Family Detached.....	64.1	63.8	20.56	6.12	10.77	1.26		2.42
Single-Family Attached.....	4.2	4.1	1.12	0.23	0.74	Q		Q
Apartments in 2-4 Unit Buildings.....	1.8	1.8	0.53	0.10	0.33	Q		Q
Apartments in 5 or More Unit Buildings.....	2.3	2.3	0.41	0.22	0.16	Q		Q
Mobile Homes.....	5.7	5.6	1.47	0.96	0.20	Q		0.26
Rented	33.0	32.2	7.90	3.50	3.36	0.56		0.48
Single-Family Detached.....	8.0	8.0	2.43	1.01	1.21	Q		Q
Single-Family Attached.....	3.4	3.4	0.91	0.35	0.51	Q		Q
Apartments in 2-4 Unit Buildings.....	5.9	5.8	1.32	0.51	0.65	0.10		Q
Apartments in 5 or More Unit Buildings.....	14.4	13.8	2.89	1.41	0.93	0.35		0.20
Mobile Homes.....	1.2	1.1	0.35	0.21	0.06	Q		Q
Year of Construction								
Before 1940.....	14.7	14.5	4.32	1.15	2.22	0.52		0.42
1940 to 1949.....	7.4	7.3	2.17	0.33	1.28	0.26		0.30
1950 to 1959.....	12.5	12.4	3.36	0.94	1.97	0.25		0.20
1960 to 1969.....	12.5	12.2	3.40	1.02	1.80	0.33		0.24
1970 to 1979.....	18.9	18.6	5.05	2.21	2.21	0.26		0.38
1980 to 1989.....	18.6	18.4	5.21	2.20	2.31	0.13		0.56
1990 to 1999.....	17.3	17.2	5.45	2.24	2.42	0.18		0.62
2000 to 2005.....	9.2	9.1	3.03	1.03	1.36	Q		0.55

Table WH5. Total Expenditures for Water Heating by Major Fuels Used, 2005
Billion Dollars

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (billion Dollars)					
			Total	Electricity	Natural Gas	Fuel Oil	LPG	
Household Size								
1 Person.....	30.0	29.5	5.38	1.97	2.59	0.26	0.56	
2 Persons.....	34.8	34.4	9.81	3.41	4.73	0.66	1.02	
3 Persons.....	18.4	18.2	6.03	2.26	2.86	0.41	0.50	
4 Persons.....	15.9	15.8	5.69	1.92	2.78	0.35	0.63	
5 Persons.....	7.9	7.9	3.14	1.01	1.57	0.21	0.35	
6 or More Persons.....	4.1	4.1	1.94	0.56	1.05	Q	0.22	
2005 Household Income Category								
Less than \$10,000.....	9.9	9.5	2.15	0.92	0.90	0.15	0.18	
\$10,000 to \$14,999.....	8.5	8.3	1.88	0.85	0.72	0.17	0.14	
\$15,000 to \$19,999.....	8.4	8.3	1.99	0.84	0.78	0.20	0.17	
\$20,000 to \$29,999.....	15.1	14.9	3.81	1.64	1.69	0.16	0.32	
\$30,000 to \$39,999.....	13.6	13.4	3.67	1.56	1.67	0.17	0.27	
\$40,000 to \$49,999.....	11.0	11.0	3.02	1.08	1.50	0.19	0.26	
\$50,000 to \$74,999.....	19.8	19.7	6.14	1.95	3.15	0.29	0.75	
\$75,000 to \$99,999.....	10.6	10.5	3.50	1.17	1.82	0.30	0.21	
\$100,000 or More.....	14.2	14.1	5.84	1.12	3.35	0.38	0.99	
Income Relative to Poverty Line								
Below 100 Percent.....	16.6	16.2	4.18	1.78	1.67	0.33	0.39	
100 to 150 Percent.....	12.9	12.8	3.33	1.62	1.35	0.16	0.19	
Above 150 Percent.....	81.5	80.9	24.48	7.73	12.55	1.51	2.70	
Eligible for Federal Assistance²								
Yes.....	38.6	37.8	9.93	4.24	4.16	0.74	0.79	
No.....	72.5	72.0	22.06	6.89	11.41	1.27	2.49	
Payment Method for Utilities								
All Paid by Household.....	97.5	96.8	28.92	10.05	14.48	1.50	2.89	
Some Paid, Some in Rent.....	7.6	7.4	1.76	0.58	0.62	0.33	0.22	
All Included in Rent.....	4.7	4.3	0.95	0.33	0.35	0.14	Q	
Other Method.....	1.3	1.3	0.36	0.17	0.13	Q	Q	

Table WH5. Total Expenditures for Water Heating by Major Fuels Used, 2005
Billion Dollars

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (billion Dollars)					
			Total	Electricity	Natural Gas	Fuel Oil	LPG	
Ethnic Origin of Householder								
Hispanic Descent.....	14.8	14.5	4.47	1.65	2.00	0.39	0.42	
Non-Hispanic Descent.....	96.3	95.3	27.52	9.48	13.57	1.61	2.85	
Race of Householder³								
White.....	79.1	78.4	22.99	7.79	11.04	1.42	2.74	
Hispanic.....	5.0	5.0	1.53	0.60	0.61	0.12	0.20	
Non-Hispanic.....	74.1	73.4	21.46	7.19	10.42	1.31	2.54	
Black.....	13.4	13.3	3.72	1.53	1.83	0.20	0.16	
Hispanic.....	0.3	0.3	0.12	Q	Q	Q	N	
Non-Hispanic.....	13.1	13.0	3.60	1.46	1.80	0.19	0.16	
Asian.....	3.3	3.3	0.94	0.28	0.58	Q	Q	
Multi-Racial.....	1.3	1.3	0.34	0.11	0.20	Q	Q	
Other.....	7.1	7.0	1.94	0.55	1.08	0.15	0.17	
Undetermined (Race Reported as Hispanic).....	6.9	6.6	2.06	0.88	0.85	0.21	Q	
Age of Householder								
Under 25 Years.....	5.5	5.2	1.26	0.72	0.39	Q	Q	
25 to 34 Years.....	18.2	18.0	5.34	2.18	2.59	0.19	0.38	
35 to 44 Years.....	22.2	22.0	7.36	2.61	3.70	0.32	0.73	
45 to 54 Years.....	23.3	23.2	7.36	2.21	3.69	0.59	0.87	
55 to 64 Years.....	18.0	17.8	5.36	1.67	2.56	0.39	0.74	
65 to 74 Years.....	12.3	12.1	2.97	0.98	1.44	0.17	0.38	
75 Years or More.....	11.7	11.5	2.33	0.76	1.20	0.24	0.13	
Adults Age 65 or Older in Household								
Yes.....	26.9	26.4	6.41	2.06	3.30	0.50	0.55	
No.....	84.2	83.4	25.58	9.08	12.27	1.51	2.72	
Children Under Age 5 in Household								
Yes.....	15.0	14.9	5.35	1.99	2.59	0.27	0.51	
No.....	96.1	94.9	26.64	9.15	12.98	1.73	2.77	
Children Age 5 to 16 in Household								
Yes.....	28.1	28.0	10.58	3.47	5.26	0.61	1.24	
No.....	83.0	81.8	21.41	7.67	10.31	1.39	2.04	

Table WH5. Total Expenditures for Water Heating by Major Fuels Used, 2005
Billion Dollars

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (billion Dollars)					
			Total	Electricity	Natural Gas	Fuel Oil	LPG	
Number of Water Heaters								
1.....	106.3	106.1	29.27	10.67	14.85	1.84	1.92	
2 or More.....	3.7	3.7	2.72	0.47	0.72	0.17	1.36	
Do Not Use Hot Water.....	1.1	N	N	N	N	N	N	
Age of Main Water Heater								
Used by One Housing Unit								
Less than 2 Years.....	14.7	14.6	4.90	1.48	2.58	0.15	0.69	
2 to 4 Years.....	18.6	18.6	5.68	2.06	2.85	0.21	0.57	
5 to 9 Years.....	25.5	25.5	7.70	2.83	3.76	0.24	0.87	
10 to 19 Years.....	20.1	20.1	5.79	1.88	3.09	0.31	0.51	
20 Years or More.....	6.8	6.8	1.87	0.73	0.79	0.23	Q	
Don't Know.....	12.0	12.0	3.17	1.23	1.57	0.12	0.26	
No Separate Water Heater.....	1.9	1.9	0.52	0.12	0.08	Q	Q	
Used by Two or More Housing Units								
Less than 2 Years.....	0.3	0.3	0.05	Q	Q	Q	N	
2 to 4 Years.....	0.5	0.5	0.11	Q	Q	Q	Q	
5 to 9 Years.....	0.5	0.5	0.14	Q	0.08	Q	Q	
10 to 19 Years.....	0.6	0.6	0.12	Q	0.04	Q	N	
20 Years or More.....	0.6	0.6	0.15	Q	0.03	Q	Q	
Don't Know.....	4.4	4.4	1.04	0.40	0.38	0.19	Q	
No Separate Water Heater.....	3.4	3.4	0.75	0.23	0.25	0.21	Q	
Size of Main Water Heater								
Used by One Housing Unit								
Small (30 gallons or less).....	17.1	17.1	4.11	2.00	1.51	0.17	0.43	
Medium (31 to 49 gallons).....	52.4	52.4	14.96	4.54	8.41	0.51	1.48	
Large (50 gallons or more).....	27.1	27.0	9.59	3.62	4.61	0.32	1.03	
Tankless water heater.....	1.1	1.1	0.45	Q	0.09	0.26	Q	
No Separate Water Heater.....	1.9	1.9	0.52	0.12	0.08	Q	Q	
Used by Two or More Housing Units								
Small (30 gallons or less).....	1.4	1.4	0.39	0.09	0.15	Q	Q	
Medium (31 to 49 gallons).....	2.4	2.4	0.52	0.23	0.19	Q	Q	
Large (50 gallons or more).....	2.8	2.8	0.63	0.24	0.24	Q	Q	
Tankless water heater.....	0.2	0.2	0.08	N	Q	Q	N	
No Separate Water Heater.....	3.4	3.4	0.75	0.23	0.25	0.21	Q	

Table WH5. Total Expenditures for Water Heating by Major Fuels Used, 2005
Billion Dollars

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (billion Dollars)					
			Total	Electricity	Natural Gas	Fuel Oil	LPG	
Clothes Washer								
Do Not Use a Clothes Washer.....	19.3	18.6	3.69	1.76	1.10	0.43	0.41	
Use a Clothes Washer.....	91.8	91.2	28.29	9.37	14.48	1.57	2.87	
Top Loading.....	84.1	83.6	25.50	8.55	13.03	1.39	2.53	
Front Loading.....	7.7	7.7	2.79	0.82	1.45	0.18	0.35	
Age of Clothes Washer								
Less than 2 Years.....	15.7	15.6	5.21	1.76	2.71	0.18	0.56	
2 to 4 Years.....	21.1	21.0	7.01	2.23	3.37	0.45	0.96	
5 to 9 Years.....	28.9	28.6	8.73	3.10	4.31	0.49	0.82	
10 to 19 Years.....	19.9	19.8	5.70	1.70	3.18	0.37	0.46	
20 Years or More.....	4.1	4.0	1.06	0.36	0.56	Q	Q	
Don't Know.....	2.2	2.2	0.59	0.23	0.34	Q	N	
Frequency of Clothes Washer Use								
Use a Clothes Washer in the Home.....	91.8	91.2	28.29	9.37	14.48	1.57	2.87	
1 Load Each Week.....	7.3	7.1	1.56	0.53	0.91	Q	Q	
2 to 5 Loads Each Week.....	39.0	38.8	10.85	3.49	5.72	0.65	1.00	
6 to 9 Loads Each Week.....	33.8	33.6	11.31	3.81	5.60	0.60	1.30	
10 to 15 Loads Each Week.....	9.3	9.3	3.61	1.24	1.72	0.27	0.39	
More than 15 Loads Each Week.....	2.4	2.4	0.95	0.31	0.52	Q	Q	
Do Not Use a Clothes Washer in the Home.....	19.3	18.6	3.69	1.76	1.10	0.43	0.41	
Usual Water Temperature Setting								
Wash Cycle								
Hot.....	6.7	6.7	1.99	0.61	1.17	0.13	Q	
Warm.....	50.5	50.2	15.85	4.66	8.47	0.91	1.81	
Cold.....	34.6	34.3	10.46	4.10	4.83	0.53	0.99	
Rinse Cycle								
Hot.....	1.6	1.6	0.51	0.18	0.30	N	Q	
Warm.....	18.2	18.1	5.59	1.65	3.05	0.37	0.52	
Cold.....	72.0	71.6	22.19	7.54	11.12	1.20	2.33	
Energy Star Clothes Washer⁴								
Yes.....	21.7	21.7	7.61	2.10	4.07	0.50	0.94	
No.....	10.4	10.4	3.18	1.39	1.39	0.11	0.29	
Don't Know.....	4.5	4.5	1.42	0.49	0.62	Q	0.28	
Unit is More Than 4 Years Old.....	55.1	54.7	16.08	5.39	8.39	0.94	1.36	

Table WH5. Total Expenditures for Water Heating by Major Fuels Used, 2005
Billion Dollars

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (billion Dollars)					
			Total	Electricity	Natural Gas	Fuel Oil	LPG	
Dishwasher								
Do Not Use a Dishwasher.....	64.7	64.4	20.59	6.76	10.40	1.16	2.27	
Use a Dishwasher.....	46.4	45.4	11.40	4.38	5.17	0.84	1.01	
Age of Dishwasher								
Less than 2 Years.....	11.5	11.4	3.95	1.29	2.07	0.13	0.46	
2 to 4 Years.....	14.6	14.5	4.86	1.55	2.40	0.31	0.60	
5 to 9 Years.....	19.2	19.1	5.97	1.98	3.07	0.29	0.63	
10 to 19 Years.....	12.8	12.8	4.06	1.31	2.02	0.27	0.45	
20 Years or More.....	3.3	3.3	0.98	0.28	0.46	Q	Q	
Don't Know.....	3.3	3.3	0.77	0.36	0.38	Q	Q	
Frequency of Dishwasher Use								
Use a Dishwasher.....	64.7	64.4	20.59	6.76	10.40	1.16	2.27	
At Least Once Each Day.....	11.3	11.3	4.46	1.35	2.36	0.30	0.45	
4 to 6 Times a Week.....	11.7	11.7	4.26	1.28	2.12	0.25	0.60	
2 to 3 Times a Week.....	21.8	21.6	6.65	2.08	3.47	0.37	0.72	
Once each Week.....	9.0	8.9	2.42	0.93	1.13	0.10	0.25	
Less than Once Each Week.....	10.9	10.9	2.82	1.12	1.32	0.13	0.25	
Do Not Use a Dishwasher.....	46.4	45.4	11.40	4.38	5.17	0.84	1.01	
Energy Star Dishwasher⁴								
Yes.....	16.4	16.2	5.85	1.65	3.06	0.34	0.81	
No.....	6.6	6.6	1.91	0.80	0.87	Q	0.20	
Don't Know.....	3.1	3.1	1.04	0.39	0.54	Q	Q	
Unit is More Than 4 Years Old.....	38.6	38.5	11.78	3.92	5.93	0.72	1.21	

Table WH5. Total Expenditures for Water Heating by Major Fuels Used, 2005
Billion Dollars

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (billion Dollars)					
			Total	Electricity	Natural Gas	Fuel Oil	LPG	
Other Water Heating								
Hot Tubs or Spas	6.7	6.6	2.38	0.69	1.24		Q	0.34
Electricity.....	5.3	5.2	1.82	0.67	0.85		Q	0.20
Natural Gas.....	1.2	1.2	0.49	Q	0.38		N	Q
Swimming Pools	1.9	1.9	1.10	0.18	0.51		Q	0.31
Natural Gas.....	1.2	1.2	0.66	Q	0.38		Q	Q
Electricity.....	0.4	0.4	0.27	Q	Q		Q	Q
Propane/LPG.....	0.3	0.3	0.17	Q	Q		Q	Q
Some Other Fuel.....	Q	Q	Q	Q	N		N	N
Electric Water Beds	2.2	2.1	0.68	0.32	0.26		Q	Q
1.....	1.9	1.8	0.58	0.29	0.22		Q	Q
2 or More.....	0.3	0.3	0.10	Q	Q		N	Q
Heaters Used all Year	1.7	1.7	0.55	0.23	0.22		Q	Q
1.....	1.5	1.5	0.45	0.20	0.18		Q	Q
2 or More.....	0.3	0.3	0.10	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.

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

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)
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

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)
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

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)
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

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)
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

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)
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

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)
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

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)
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.

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 ⁵ (millions)	Major Fuels Used ⁵ (million Btu of consumption per household using the fuel as a water heating source)				
			Any Major Fuel ⁵	Electricity	Natural Gas	Fuel Oil	LPG
Total	111.1	109.8	19.2	9.6	24.1	31.6	25.4
Census Region and Division							
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
Four Most Populated States							
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
Urban/Rural Location (as Self-Reported)							
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
Climate Zone¹							
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

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 ⁵ (millions)	Major Fuels Used ⁵ (million Btu of consumption per household using the fuel as a water heating source)					
			Any Major Fuel ⁵	Electricity	Natural Gas	Fuel Oil	LPG	
Type of Housing Unit								
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	
Ownership of Housing Unit								
Owned	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	
Rented	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	
Year of Construction								
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	

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 ⁵ (millions)	Major Fuels Used ⁵ (million Btu of consumption per household using the fuel as a water heating source)					
			Any Major Fuel ⁵	Electricity	Natural Gas	Fuel Oil	LPG	
Household Size								
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	
2005 Household Income Category								
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	
Income Relative to Poverty Line								
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	
Eligible for Federal Assistance²								
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	
Payment Method for Utilities								
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	

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 ⁵ (millions)	Major Fuels Used ⁵ (million Btu of consumption per household using the fuel as a water heating source)					
			Any Major Fuel ⁵	Electricity	Natural Gas	Fuel Oil	LPG	
Ethnic Origin of Householder								
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	
Race of Householder³								
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	
Age of Householder								
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	
Adults Age 65 or Older in Household								
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	
Children Under Age 5 in Household								
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	
Children Age 5 to 16 in Household								
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	

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 ⁵ (millions)	Major Fuels Used ⁵ (million Btu of consumption per household using the fuel as a water heating source)					
			Any Major Fuel ⁵	Electricity	Natural Gas	Fuel Oil	LPG	
Number of Water Heaters								
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	
Age of Main Water Heater								
Used by One Housing Unit								
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	
Used by Two or More Housing Units								
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	
Size of Main Water Heater								
Used by One Housing Unit								
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	
Used by Two or More Housing Units								
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	

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 ⁵ (millions)	Major Fuels Used ⁵ (million Btu of consumption per household using the fuel as a water heating source)					
			Any Major Fuel ⁵	Electricity	Natural Gas	Fuel Oil	LPG	
Clothes Washer								
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	
Age of Clothes Washer								
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	
Frequency of Clothes Washer Use								
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	
Usual Water Temperature Setting								
Wash Cycle								
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	
Rinse Cycle								
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	
Energy Star Clothes Washer⁴								
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	

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 ⁵ (millions)	Major Fuels Used ⁵ (million Btu of consumption per household using the fuel as a water heating source)					
			Any Major Fuel ⁵	Electricity	Natural Gas	Fuel Oil	LPG	
Dishwasher								
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	
Age of Dishwasher								
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	
Frequency of Dishwasher Use								
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	
Energy Star Dishwasher⁴								
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	

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 ⁵ (millions)	Major Fuels Used ⁵ (million Btu of consumption per household using the fuel as a water heating source)				
			Any Major Fuel ⁵	Electricity	Natural Gas	Fuel Oil	LPG
Other Water Heating							
Hot Tubs or Spas	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
Swimming Pools	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
Electric Water Beds	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
Heaters Used all Year	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.

Table WH8. Average Expenditures for Water Heating by Major Fuels Used, 2005
Dollars per Household

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (Dollars per household using the fuel)				
			Any Major Fuel ⁵	Electricity	Natural Gas	Fuel Oil	LPG
Total	111.1	109.8	291	257	267	464	517
Census Region and Division							
Northeast.....	20.6	19.9	335	315	275	462	607
New England.....	5.5	5.3	367	343	297	460	548
Middle Atlantic.....	15.1	14.5	323	301	270	463	628
Midwest.....	25.6	25.4	270	241	245	N	468
East North Central.....	17.7	17.6	269	246	242	N	495
West North Central.....	7.9	7.8	271	230	250	N	432
South.....	40.7	40.5	283	247	295	Q	489
South Atlantic.....	21.7	21.7	273	246	313	Q	486
East South Central.....	6.9	6.9	284	226	335	N	Q
West South Central.....	12.1	12.0	300	273	268	N	435
West.....	24.2	24.0	293	276	259	N	544
Mountain.....	7.6	7.5	291	270	246	N	487
Pacific.....	16.6	16.5	293	278	265	N	600
Four Most Populated States							
New York.....	7.1	6.7	354	367	260	481	607
Florida.....	7.0	7.0	263	249	349	N	Q
Texas.....	8.0	7.9	325	307	282	N	Q
California.....	12.1	12.1	295	259	264	N	636
All Other States.....	76.9	76.2	284	250	265	452	497
Urban/Rural Location (as Self-Reported)							
City.....	47.1	46.5	269	248	251	437	666
Town.....	19.0	18.8	281	249	258	466	573
Suburbs.....	22.7	22.5	317	262	301	506	458
Rural.....	22.3	22.0	321	270	273	461	497
Climate Zone¹							
Less than 2,000 CDD and--							
Greater than 7,000 HDD.....	10.9	10.6	300	290	243	457	468
5,500 to 7,000 HDD.....	26.1	25.8	277	248	248	463	406
4,000 to 5,499 HDD.....	27.3	26.8	293	250	267	467	630
Fewer than 4,000 HDD.....	24.0	23.9	299	247	284	N	575
2000 CDD or More and--							
Less than 4,000 HDD.....	22.8	22.6	294	264	290	N	478

Table WH8. Average Expenditures for Water Heating by Major Fuels Used, 2005
Dollars per Household

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (Dollars per household using the fuel)				
			Any Major Fuel ⁵	Electricity	Natural Gas	Fuel Oil	LPG
Type of Housing Unit							
Single-Family Detached.....	72.1	71.8	320	271	301	472	507
Single-Family Attached.....	7.6	7.5	269	257	251	Q	Q
Apartments in 2-4 Unit Buildings.....	7.8	7.7	241	250	208	402	Q
Apartments in 5 or More Unit Buildings.....	16.7	16.1	206	215	146	481	580
Mobile Homes.....	6.9	6.8	267	249	185	Q	518
Ownership of Housing Unit							
Owned	78.1	77.6	310	259	292	463	498
Single-Family Detached.....	64.1	63.8	323	269	303	464	500
Single-Family Attached.....	4.2	4.1	272	229	256	Q	Q
Apartments in 2-4 Unit Buildings.....	1.8	1.8	287	228	264	Q	N
Apartments in 5 or More Unit Buildings.....	2.3	2.3	183	163	178	Q	N
Mobile Homes.....	5.7	5.6	260	243	177	N	488
Rented	33.0	32.2	245	253	202	467	632
Single-Family Detached.....	8.0	8.0	304	287	288	Q	Q
Single-Family Attached.....	3.4	3.4	266	280	243	Q	Q
Apartments in 2-4 Unit Buildings.....	5.9	5.8	226	255	188	368	Q
Apartments in 5 or More Unit Buildings.....	14.4	13.8	210	226	142	477	580
Mobile Homes.....	1.2	1.1	303	280	217	Q	Q
Year of Construction							
Before 1940.....	14.7	14.5	298	284	251	478	418
1940 to 1949.....	7.4	7.3	296	242	260	399	538
1950 to 1959.....	12.5	12.4	271	244	253	447	759
1960 to 1969.....	12.5	12.2	278	250	253	522	483
1970 to 1979.....	18.9	18.6	272	255	251	505	495
1980 to 1989.....	18.6	18.4	282	253	263	426	497
1990 to 1999.....	17.3	17.2	317	260	315	473	509
2000 to 2005.....	9.2	9.1	332	259	310	Q	579

Table WH8. Average Expenditures for Water Heating by Major Fuels Used, 2005
Dollars per Household

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (Dollars per household using the fuel)					
			Any Major Fuel ⁵	Electricity	Natural Gas	Fuel Oil	LPG	
Household Size								
1 Person.....	30.0	29.5	183	153	171	311	402	
2 Persons.....	34.8	34.4	285	247	269	460	454	
3 Persons.....	18.4	18.2	332	311	299	505	538	
4 Persons.....	15.9	15.8	361	346	311	553	673	
5 Persons.....	7.9	7.9	399	377	347	544	671	
6 or More Persons.....	4.1	4.1	474	469	400	Q	Q	
2005 Household Income Category								
Less than \$10,000.....	9.9	9.5	226	223	190	441	589	
\$10,000 to \$14,999.....	8.5	8.3	226	225	184	377	496	
\$15,000 to \$19,999.....	8.4	8.3	240	221	204	423	568	
\$20,000 to \$29,999.....	15.1	14.9	255	255	222	404	532	
\$30,000 to \$39,999.....	13.6	13.4	273	262	256	381	428	
\$40,000 to \$49,999.....	11.0	11.0	275	247	257	438	389	
\$50,000 to \$74,999.....	19.8	19.7	312	272	284	465	498	
\$75,000 to \$99,999.....	10.6	10.5	332	294	321	536	466	
\$100,000 or More.....	14.2	14.1	414	303	363	624	675	
Income Relative to Poverty Line								
Below 100 Percent.....	16.6	16.2	259	255	215	438	589	
100 to 150 Percent.....	12.9	12.8	260	275	215	418	539	
Above 150 Percent.....	81.5	80.9	303	254	283	475	500	
Eligible for Federal Assistance²								
Yes.....	38.6	37.8	263	262	222	416	567	
No.....	72.5	72.0	306	254	288	496	496	
Payment Method for Utilities								
All Paid by Household.....	97.5	96.8	299	255	284	469	509	
Some Paid, Some in Rent.....	7.6	7.4	238	258	151	446	560	
All Included in Rent.....	4.7	4.3	218	293	127	467	Q	
Other Method.....	1.3	1.3	284	294	218	Q	Q	

Table WH8. Average Expenditures for Water Heating by Major Fuels Used, 2005
Dollars per Household

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (Dollars per household using the fuel)				
			Any Major Fuel ⁵	Electricity	Natural Gas	Fuel Oil	LPG
Ethnic Origin of Householder							
Hispanic Descent.....	14.8	14.5	309	318	255	467	535
Non-Hispanic Descent.....	96.3	95.3	289	249	269	463	514
Race of Householder³							
White.....	79.1	78.4	293	246	272	464	506
Hispanic.....	5.0	5.0	309	300	246	Q	507
Non-Hispanic.....	74.1	73.4	292	242	273	459	506
Black.....	13.4	13.3	279	271	261	471	Q
Hispanic.....	0.3	0.3	355	Q	Q	Q	N
Non-Hispanic.....	13.1	13.0	277	264	263	501	Q
Asian.....	3.3	3.3	286	282	261	Q	Q
Multi-Racial.....	1.3	1.3	272	230	267	Q	N
Other.....	7.1	7.0	279	298	239	443	589
Undetermined (Race Reported as Hispanic).....	6.9	6.6	311	322	259	470	Q
Age of Householder							
Under 25 Years.....	5.5	5.2	241	245	189	Q	Q
25 to 34 Years.....	18.2	18.0	296	296	267	438	557
35 to 44 Years.....	22.2	22.0	335	305	305	426	542
45 to 54 Years.....	23.3	23.2	318	272	280	552	567
55 to 64 Years.....	18.0	17.8	301	246	277	476	533
65 to 74 Years.....	12.3	12.1	246	201	234	413	435
75 Years or More.....	11.7	11.5	203	163	203	405	359
Adults Age 65 or Older in Household							
Yes.....	26.9	26.4	243	196	239	411	436
No.....	84.2	83.4	307	277	275	485	542
Children Under Age 5 in Household							
Yes.....	15.0	14.9	360	360	310	496	591
No.....	96.1	94.9	281	242	260	460	505
Children Age 5 to 16 in Household							
Yes.....	28.1	28.0	378	350	329	537	635
No.....	83.0	81.8	262	229	243	439	473

Table WH8. Average Expenditures for Water Heating by Major Fuels Used, 2005
Dollars per Household

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (Dollars per household using the fuel)					
			Any Major Fuel ⁵	Electricity	Natural Gas	Fuel Oil	LPG	
Number of Water Heaters								
1.....	106.3	106.1	276	255	263	461	506	
2 or More.....	3.7	3.7	742	309	396	Q	Q	
Do Not Use Hot Water.....	1.1	N	N	N	N	N	N	
Age of Main Water Heater								
Used by One Housing Unit								
Less than 2 Years.....	14.7	14.6	335	283	308	496	594	
2 to 4 Years.....	18.6	18.6	306	286	282	468	497	
5 to 9 Years.....	25.5	25.5	302	253	294	493	528	
10 to 19 Years.....	20.1	20.1	288	234	282	501	429	
20 Years or More.....	6.8	6.8	275	241	251	420	Q	
Don't Know.....	12.0	12.0	264	245	239	421	Q	
No Separate Water Heater.....	1.9	1.9	272	197	138	460	Q	
Used by Two or More Housing Units								
Less than 2 Years.....	0.3	0.3	173	Q	Q	Q	N	
2 to 4 Years.....	0.5	0.5	237	Q	Q	Q	Q	
5 to 9 Years.....	0.5	0.5	293	Q	239	Q	N	
10 to 19 Years.....	0.6	0.6	217	Q	145	Q	N	
20 Years or More.....	0.6	0.6	253	Q	102	Q	Q	
Don't Know.....	4.4	4.4	235	316	143	477	Q	
No Separate Water Heater.....	3.4	3.4	218	215	138	472	Q	
Size of Main Water Heater								
Used by One Housing Unit								
Small (30 gallons or less).....	17.1	17.1	240	218	221	403	556	
Medium (31 to 49 gallons).....	52.4	52.4	286	236	277	469	494	
Large (50 gallons or more).....	27.1	27.0	355	328	321	620	529	
Tankless water heater.....	1.1	1.1	395	Q	350	404	Q	
No Separate Water Heater.....	1.9	1.9	272	197	138	460	Q	
Used by Two or More Housing Units								
Small (30 gallons or less).....	1.4	1.4	273	212	190	Q	Q	
Medium (31 to 49 gallons).....	2.4	2.4	213	316	135	Q	Q	
Large (50 gallons or more).....	2.8	2.8	225	322	134	Q	Q	
Tankless water heater.....	0.2	0.2	469	N	Q	Q	N	
No Separate Water Heater.....	3.4	3.4	218	215	138	472	Q	

Table WH8. Average Expenditures for Water Heating by Major Fuels Used, 2005
Dollars per Household

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (Dollars per household using the fuel)					
			Any Major Fuel ⁵	Electricity	Natural Gas	Fuel Oil	LPG	
Clothes Washer								
Do Not Use a Clothes Washer.....	19.3	18.6	199	239	114	443	585	
Use a Clothes Washer.....	91.8	91.2	310	261	297	470	504	
Top Loading.....	84.1	83.6	305	258	292	480	504	
Front Loading.....	7.7	7.7	364	296	349	401	506	
Age of Clothes Washer								
Less than 2 Years.....	15.7	15.6	334	291	311	547	632	
2 to 4 Years.....	21.1	21.0	334	280	301	523	545	
5 to 9 Years.....	28.9	28.6	305	263	295	434	465	
10 to 19 Years.....	19.9	19.8	288	224	293	449	387	
20 Years or More.....	4.1	4.0	262	218	254	Q	Q	
Don't Know.....	2.2	2.2	271	247	283	Q	N	
Frequency of Clothes Washer Use								
Use a Clothes Washer in the Home.....	91.8	91.2	310	261	297	470	504	
1 Load Each Week.....	7.3	7.1	219	175	234	Q	Q	
2 to 5 Loads Each Week.....	39.0	38.8	280	231	273	432	419	
6 to 9 Loads Each Week.....	33.8	33.6	337	288	315	483	570	
10 to 15 Loads Each Week.....	9.3	9.3	388	328	366	691	547	
More than 15 Loads Each Week.....	2.4	2.4	395	364	357	Q	Q	
Do Not Use a Clothes Washer in the Home.....	19.3	18.6	199	239	114	443	585	
Usual Water Temperature Setting								
Wash Cycle								
Hot.....	6.7	6.7	298	258	305	383	Q	
Warm.....	50.5	50.2	315	261	295	501	492	
Cold.....	34.6	34.3	305	260	298	450	528	
Rinse Cycle								
Hot.....	1.6	1.6	326	286	342	N	Q	
Warm.....	18.2	18.1	309	255	302	443	491	
Cold.....	72.0	71.6	310	261	294	479	511	
Energy Star Clothes Washer⁴								
Yes.....	21.7	21.7	351	298	317	565	573	
No.....	10.4	10.4	306	285	282	469	548	
Don't Know.....	4.5	4.5	315	236	284	Q	Q	
Unit is More Than 4 Years Old.....	55.1	54.7	294	245	291	439	441	

Table WH8. Average Expenditures for Water Heating by Major Fuels Used, 2005
Dollars per Household

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (Dollars per household using the fuel)					
			Any Major Fuel ⁵	Electricity	Natural Gas	Fuel Oil	LPG	
Dishwasher								
Do Not Use a Dishwasher.....	64.7	64.4	320	264	305	496	510	
Use a Dishwasher.....	46.4	45.4	251	246	213	426	529	
Age of Dishwasher								
Less than 2 Years.....	11.5	11.4	345	282	330	441	774	
2 to 4 Years.....	14.6	14.5	336	279	311	508	523	
5 to 9 Years.....	19.2	19.1	313	261	306	515	462	
10 to 19 Years.....	12.8	12.8	317	260	298	466	386	
20 Years or More.....	3.3	3.3	297	225	264	586	Q	
Don't Know.....	3.3	3.3	233	222	236	Q	Q	
Frequency of Dishwasher Use								
Use a Dishwasher.....	64.7	64.4	320	264	305	496	510	
At Least Once Each Day.....	11.3	11.3	395	334	381	564	566	
4 to 6 Times a Week.....	11.7	11.7	363	291	334	519	585	
2 to 3 Times a Week.....	21.8	21.6	308	253	296	463	458	
Once each Week.....	9.0	8.9	270	233	249	464	Q	
Less than Once Each Week.....	10.9	10.9	258	228	246	453	470	
Do Not Use a Dishwasher.....	46.4	45.4	251	246	213	426	529	
Energy Star Dishwasher⁴								
Yes.....	16.4	16.2	361	296	329	479	650	
No.....	6.6	6.6	290	243	290	Q	506	
Don't Know.....	3.1	3.1	335	307	318	Q	Q	
Unit is More Than 4 Years Old.....	38.6	38.5	306	254	294	504	448	

Table WH8. Average Expenditures for Water Heating by Major Fuels Used, 2005
Dollars per Household

	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel ⁵ (millions)	Major Fuels Used ⁵ (Dollars per household using the fuel)				
			Any Major Fuel ⁵	Electricity	Natural Gas	Fuel Oil	LPG
Other Water Heating							
Hot Tubs or Spas	6.7	6.6	359	295	330	Q	397
Electricity.....	5.3	5.2	347	295	332	Q	Q
Natural Gas.....	1.2	1.2	411	Q	325	N	N
Swimming Pools	1.9	1.9	571	358	438	Q	Q
Natural Gas.....	1.2	1.2	538	Q	394	Q	Q
Electricity.....	0.4	0.4	654	Q	Q	Q	N
Propane/LPG.....	0.3	0.3	566	Q	Q	Q	Q
Some Other Fuel.....	Q	Q	Q	Q	N	N	N
Electric Water Beds	2.2	2.1	320	328	285	Q	Q
1.....	1.9	1.8	317	325	284	Q	Q
2 or More.....	0.3	0.3	337	Q	Q	N	Q
Heaters Used all Year	1.7	1.7	316	317	289	Q	Q
1.....	1.5	1.5	312	312	290	Q	Q
2 or More.....	0.3	0.3	338	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.

Table WH9. Average Number of Household Members by Main Water Heating Fuel Used, 2005
Number of Household Members per Housing Unit

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Main Water Heating Fuel Used (number of household members per housing unit)					
			Any Fuel	Electricity	Natural Gas	Fuel Oil	LPG	Other
Total	111.1	110.0	2.58	2.45	2.66	2.70	2.68	2.56
Census Region and Division								
Northeast.....	20.6	19.9	2.58	2.27	2.67	2.70	2.60	Q
New England.....	5.5	5.3	2.37	2.08	2.41	2.55	2.80	Q
Middle Atlantic.....	15.1	14.5	2.66	2.36	2.73	2.78	2.53	N
Midwest.....	25.6	25.4	2.48	2.30	2.58	N	2.17	Q
East North Central.....	17.7	17.6	2.49	2.30	2.61	N	1.94	Q
West North Central.....	7.9	7.8	2.44	2.29	2.50	N	2.49	N
South.....	40.7	40.5	2.53	2.46	2.61	Q	2.98	Q
South Atlantic.....	21.7	21.7	2.51	2.44	2.67	Q	2.71	N
East South Central.....	6.9	6.9	2.42	2.40	2.40	N	Q	Q
West South Central.....	12.1	12.0	2.63	2.58	2.63	N	3.31	N
West.....	24.2	24.2	2.76	2.68	2.77	N	2.95	Q
Mountain.....	7.6	7.5	2.67	2.71	2.67	N	2.52	Q
Pacific.....	16.6	16.6	2.80	2.67	2.81	N	3.36	Q
Four Most Populated States								
New York.....	7.1	6.7	2.76	2.31	2.81	2.94	2.42	N
Florida.....	7.0	7.0	2.51	2.46	2.92	N	Q	N
Texas.....	8.0	7.9	2.77	2.79	2.72	N	Q	N
California.....	12.1	12.1	2.75	2.15	2.81	N	3.09	Q
All Other States.....	76.9	76.3	2.52	2.42	2.59	2.53	2.60	Q
Urban/Rural Location (as Self-Reported)								
City.....	47.1	46.5	2.54	2.42	2.61	2.55	2.81	Q
Town.....	19.0	18.9	2.58	2.38	2.68	2.76	2.79	Q
Suburbs.....	22.7	22.6	2.70	2.41	2.78	3.04	3.03	Q
Rural.....	22.3	22.1	2.53	2.52	2.46	2.57	2.62	Q
Climate Zone¹								
Less than 2,000 CDD and--								
Greater than 7,000 HDD.....	10.9	10.7	2.52	2.40	2.61	2.54	2.39	Q
5,500 to 7,000 HDD.....	26.1	25.8	2.51	2.28	2.60	2.69	2.33	Q
4,000 to 5,499 HDD.....	27.3	26.8	2.61	2.50	2.65	2.78	3.01	N
Fewer than 4,000 HDD.....	24.0	23.9	2.62	2.37	2.74	N	2.86	Q
2000 CDD or More and--								
Less than 4,000 HDD.....	22.8	22.7	2.60	2.55	2.67	N	2.87	Q

Table WH9. Average Number of Household Members by Main Water Heating Fuel Used, 2005
Number of Household Members per Housing Unit

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Main Water Heating Fuel Used (number of household members per housing unit)						
			Any Fuel	Electricity	Natural Gas	Fuel Oil	LPG	Other	
Type of Housing Unit									
Single-Family Detached.....	72.1	71.9	2.73	2.60	2.82	2.75	2.67		Q
Single-Family Attached.....	7.6	7.5	2.49	2.30	2.55	Q	Q		N
Apartments in 2-4 Unit Buildings.....	7.8	7.7	2.42	2.37	2.44	2.52	Q		N
Apartments in 5 or More Unit Buildings.....	16.7	16.1	2.05	1.97	2.06	2.57	2.32		Q
Mobile Homes.....	6.9	6.8	2.49	2.46	2.44	Q	2.88		N
Ownership of Housing Unit									
Owned.....	78.1	77.8	2.60	2.47	2.67	2.80	2.67		Q
Single-Family Detached.....	64.1	63.9	2.67	2.57	2.74	2.74	2.64		Q
Single-Family Attached.....	4.2	4.1	2.38	1.99	2.49	Q	Q		N
Apartments in 2-4 Unit Buildings.....	1.8	1.8	2.23	1.96	2.14	Q	N		N
Apartments in 5 or More Unit Buildings.....	2.3	2.3	1.64	1.59	1.71	Q	N		N
Mobile Homes.....	5.7	5.6	2.40	2.37	2.30	N	2.88		N
Rented.....	33.0	32.2	2.52	2.39	2.63	2.45	2.74		Q
Single-Family Detached.....	8.0	8.0	3.17	2.79	3.49	Q	Q		N
Single-Family Attached.....	3.4	3.4	2.62	2.55	2.64	Q	Q		N
Apartments in 2-4 Unit Buildings.....	5.9	5.8	2.48	2.45	2.55	1.85	Q		N
Apartments in 5 or More Unit Buildings.....	14.4	13.9	2.11	2.05	2.11	2.59	2.32		Q
Mobile Homes.....	1.2	1.1	2.93	2.93	3.04	Q	Q		N
Year of Construction									
Before 1940.....	14.7	14.5	2.47	2.30	2.57	2.45	1.96		Q
1940 to 1949.....	7.4	7.3	2.45	2.30	2.55	2.27	2.03		N
1950 to 1959.....	12.5	12.4	2.43	2.27	2.49	2.28	3.41		N
1960 to 1969.....	12.5	12.3	2.66	2.45	2.76	2.95	2.61		Q
1970 to 1979.....	18.9	18.6	2.50	2.39	2.55	3.09	2.78		Q
1980 to 1989.....	18.6	18.5	2.52	2.36	2.66	2.91	2.64		Q
1990 to 1999.....	17.3	17.2	2.81	2.66	2.94	3.45	2.95		Q
2000 to 2005.....	9.2	9.2	2.77	2.64	2.80	Q	3.12		Q

Table WH9. Average Number of Household Members by Main Water Heating Fuel Used, 2005
Number of Household Members per Housing Unit

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Main Water Heating Fuel Used (number of household members per housing unit)						
			Any Fuel	Electricity	Natural Gas	Fuel Oil	LPG	Other	
Household Size									
1 Person.....	30.0	29.5	1.00	1.00	1.00	1.00	1.00	1.00	Q
2 Persons.....	34.8	34.5	2.00	2.00	2.00	2.00	2.00	2.00	Q
3 Persons.....	18.4	18.2	3.00	3.00	3.00	3.00	3.00	3.00	Q
4 Persons.....	15.9	15.8	4.00	4.00	4.00	4.00	4.00	4.00	Q
5 Persons.....	7.9	7.9	5.00	5.00	5.00	5.00	5.00	5.00	N
6 or More Persons.....	4.1	4.1	6.75	6.72	6.80	Q	Q	Q	N
2005 Household Income Category									
Less than \$10,000.....	9.9	9.5	1.95	1.97	1.90	2.04	2.54	2.54	N
\$10,000 to \$14,999.....	8.5	8.3	2.07	1.99	2.10	2.55	1.76	1.76	N
\$15,000 to \$19,999.....	8.4	8.3	2.20	2.18	2.22	2.13	2.35	2.35	N
\$20,000 to \$29,999.....	15.1	14.9	2.46	2.37	2.47	2.28	3.44	3.44	N
\$30,000 to \$39,999.....	13.6	13.5	2.63	2.64	2.62	2.56	2.59	2.59	Q
\$40,000 to \$49,999.....	11.0	11.0	2.66	2.45	2.78	2.97	2.93	2.93	Q
\$50,000 to \$74,999.....	19.8	19.7	2.76	2.63	2.87	2.87	2.36	2.36	Q
\$75,000 to \$99,999.....	10.6	10.6	2.87	2.70	3.03	2.82	2.33	2.33	Q
\$100,000 or More.....	14.2	14.1	3.06	2.90	3.09	3.52	3.14	3.14	Q
Income Relative to Poverty Line									
Below 100 Percent.....	16.6	16.2	2.76	2.69	2.76	2.82	3.47	3.47	N
100 to 150 Percent.....	12.9	12.8	2.71	2.62	2.81	2.37	2.72	2.72	N
Above 150 Percent.....	81.5	81.0	2.52	2.36	2.62	2.70	2.51	2.51	2.56
Eligible for Federal Assistance²									
Yes.....	38.6	37.8	2.69	2.59	2.76	2.58	2.99	2.99	N
No.....	72.5	72.2	2.52	2.36	2.61	2.77	2.55	2.55	2.56
Payment Method for Utilities									
All Paid by Household.....	97.5	97.0	2.62	2.47	2.73	2.80	2.67	2.67	2.73
Some Paid, Some in Rent.....	7.6	7.4	2.26	2.31	2.16	2.57	2.59	2.59	N
All Included in Rent.....	4.7	4.4	2.11	1.89	2.16	2.00	Q	Q	Q
Other Method.....	1.3	1.3	2.30	2.13	2.40	Q	Q	Q	N

Table WH9. Average Number of Household Members by Main Water Heating Fuel Used, 2005
Number of Household Members per Housing Unit

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Main Water Heating Fuel Used (number of household members per housing unit)					
			Any Fuel	Electricity	Natural Gas	Fuel Oil	LPG	Other
Ethnic Origin of Householder								
Hispanic Descent.....	14.8	14.5	3.51	3.35	3.66	3.15	3.26	N
Non-Hispanic Descent.....	96.3	95.5	2.44	2.32	2.50	2.60	2.56	2.56
Race of Householder³								
White.....	79.1	78.4	2.41	2.30	2.48	2.52	2.51	Q
Hispanic.....	5.0	5.0	3.33	3.32	3.42	Q	2.75	N
Non-Hispanic.....	74.1	73.5	2.35	2.23	2.42	2.47	2.49	Q
Black.....	13.4	13.3	2.59	2.57	2.60	2.58	Q	N
Hispanic.....	0.3	0.3	2.86	Q	Q	Q	N	N
Non-Hispanic.....	13.1	13.0	2.58	2.56	2.59	2.62	Q	N
Asian.....	3.3	3.3	3.29	2.78	3.53	Q	Q	Q
Multi-Racial.....	1.3	1.3	2.68	2.27	2.90	Q	N	Q
Other.....	7.1	7.0	3.06	3.00	3.05	3.32	3.36	Q
Undetermined (Race Reported as Hispanic).....	6.9	6.6	3.65	3.44	3.83	3.51	Q	N
Age of Householder								
Under 25 Years.....	5.5	5.2	2.62	2.54	2.82	Q	Q	N
25 to 34 Years.....	18.2	18.0	3.22	3.05	3.31	3.62	3.55	Q
35 to 44 Years.....	22.2	22.1	3.39	3.15	3.53	3.39	3.77	Q
45 to 54 Years.....	23.3	23.2	2.63	2.49	2.65	3.15	2.94	Q
55 to 64 Years.....	18.0	17.9	2.09	1.97	2.14	2.46	2.17	Q
65 to 74 Years.....	12.3	12.1	1.79	1.81	1.78	1.99	1.72	Q
75 Years or More.....	11.7	11.5	1.46	1.43	1.46	1.69	1.64	N
Adults Age 65 or Older in Household								
Yes.....	26.9	26.4	1.87	1.78	1.93	1.94	1.82	Q
No.....	84.2	83.6	2.80	2.66	2.88	3.00	2.94	2.60
Children Under Age 5 in Household								
Yes.....	15.0	14.9	4.35	4.26	4.42	4.10	4.39	Q
No.....	96.1	95.1	2.30	2.18	2.36	2.54	2.40	Q
Children Age 5 to 16 in Household								
Yes.....	28.1	28.0	4.19	4.09	4.26	4.18	4.14	Q
No.....	83.0	82.0	2.02	1.96	2.05	2.19	2.13	Q

Table WH9. Average Number of Household Members by Main Water Heating Fuel Used, 2005
Number of Household Members per Housing Unit

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Main Water Heating Fuel Used (number of household members per housing unit)						
			Any Fuel	Electricity	Natural Gas	Fuel Oil	LPG	Other	
Number of Water Heaters									
1.....	106.3	106.3	2.56	2.43	2.65	2.68	2.66	2.63	
2 or More.....	3.7	3.7	2.95	2.98	2.89	Q	Q	Q	
Do Not Use Hot Water.....	1.1	N	N	N	N	N	N	N	
Age of Main Water Heater									
Used by One Housing Unit									
Less than 2 Years.....	14.7	14.7	2.71	2.66	2.76	2.63	2.51	Q	
2 to 4 Years.....	18.6	18.6	2.70	2.67	2.68	3.13	2.98	Q	
5 to 9 Years.....	25.5	25.5	2.72	2.59	2.82	3.25	2.60	Q	
10 to 19 Years.....	20.1	20.1	2.39	2.16	2.52	2.66	2.72	N	
20 Years or More.....	6.8	6.8	2.38	2.22	2.54	2.33	Q	Q	
Don't Know.....	12.0	12.0	2.74	2.53	2.88	3.00	Q	Q	
No Separate Water Heater.....	1.9	1.9	2.25	1.78	2.41	2.68	Q	Q	
Used by Two or More Housing Units									
Less than 2 Years.....	0.3	0.3	2.03	Q	Q	Q	N	N	
2 to 4 Years.....	0.5	0.5	2.81	Q	Q	Q	Q	Q	
5 to 9 Years.....	0.5	0.5	2.61	Q	3.08	Q	N	N	
10 to 19 Years.....	0.6	0.6	2.22	Q	2.46	Q	N	N	
20 Years or More.....	0.6	0.6	2.20	Q	2.11	Q	Q	N	
Don't Know.....	4.4	4.4	2.22	2.30	2.19	2.07	Q	N	
No Separate Water Heater.....	3.4	3.4	2.02	1.68	2.01	2.86	Q	N	
Size of Main Water Heater									
Used by One Housing Unit									
Small (30 gallons or less).....	17.1	17.1	2.24	2.19	2.23	2.55	2.62	N	
Medium (31 to 49 gallons).....	52.4	52.4	2.61	2.52	2.66	2.85	2.57	Q	
Large (50 gallons or more).....	27.1	27.1	2.88	2.68	3.02	3.23	3.06	Q	
Tankless water heater.....	1.1	1.1	2.80	Q	3.52	2.50	Q	N	
No Separate Water Heater.....	1.9	1.9	2.25	1.78	2.41	2.68	Q	Q	
Used by Two or More Housing Units									
Small (30 gallons or less).....	1.4	1.4	2.11	1.89	2.37	Q	Q	N	
Medium (31 to 49 gallons).....	2.4	2.4	2.31	2.48	2.28	Q	Q	N	
Large (50 gallons or more).....	2.8	2.8	2.32	2.03	2.32	Q	Q	N	
Tankless water heater.....	0.2	0.2	2.52	N	Q	Q	N	Q	
No Separate Water Heater.....	3.4	3.4	2.02	1.68	2.01	2.86	Q	N	

Table WH9. Average Number of Household Members by Main Water Heating Fuel Used, 2005
Number of Household Members per Housing Unit

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Main Water Heating Fuel Used (number of household members per housing unit)					
			Any Fuel	Electricity	Natural Gas	Fuel Oil	LPG	Other
Clothes Washer								
Do Not Use a Clothes Washer.....	19.3	18.6	2.17	2.10	2.18	2.43	2.38	Q
Use a Clothes Washer.....	91.8	91.4	2.66	2.52	2.75	2.78	2.74	Q
Top Loading.....	84.1	83.7	2.64	2.50	2.73	2.74	2.63	Q
Front Loading.....	7.7	7.7	2.92	2.66	3.01	3.06	3.66	Q
Age of Clothes Washer								
Less than 2 Years.....	15.7	15.6	2.98	2.97	2.98	2.84	3.01	Q
2 to 4 Years.....	21.1	21.0	2.88	2.70	2.96	3.34	3.04	Q
5 to 9 Years.....	28.9	28.7	2.63	2.54	2.68	2.83	2.62	Q
10 to 19 Years.....	19.9	19.8	2.31	2.06	2.50	2.24	2.20	Q
20 Years or More.....	4.1	4.0	2.04	1.86	2.14	Q	Q	N
Don't Know.....	2.2	2.2	3.00	2.54	3.37	Q	N	N
Frequency of Clothes Washer Use								
Use a Clothes Washer in the Home.....	91.8	91.4	2.66	2.52	2.75	2.78	2.74	Q
1 Load Each Week.....	7.3	7.1	1.53	1.50	1.54	Q	Q	N
2 to 5 Loads Each Week.....	39.0	38.8	2.16	2.02	2.25	2.39	1.92	Q
6 to 9 Loads Each Week.....	33.8	33.7	3.02	2.85	3.14	3.03	3.08	Q
10 to 15 Loads Each Week.....	9.3	9.3	3.82	3.69	3.93	4.23	3.47	N
More than 15 Loads Each Week.....	2.4	2.4	4.62	4.52	4.62	Q	Q	N
Do Not Use a Clothes Washer in the Home.....	19.3	18.6	2.17	2.10	2.18	2.43	2.38	Q
Usual Water Temperature Setting								
Wash Cycle								
Hot.....	6.7	6.7	2.50	2.37	2.54	2.63	Q	N
Warm.....	50.5	50.3	2.60	2.46	2.68	2.87	2.47	Q
Cold.....	34.6	34.4	2.78	2.60	2.93	2.69	3.08	Q
Rinse Cycle								
Hot.....	1.6	1.6	2.83	2.99	2.79	N	Q	N
Warm.....	18.2	18.1	2.74	2.50	2.89	2.78	2.66	Q
Cold.....	72.0	71.7	2.64	2.51	2.71	2.78	2.79	Q
Energy Star Clothes Washer⁴								
Yes.....	21.7	21.7	2.97	2.84	3.04	3.25	2.69	Q
No.....	10.4	10.4	2.96	2.91	2.93	3.11	3.90	Q
Don't Know.....	4.5	4.5	2.60	2.52	2.65	Q	Q	N
Unit is More Than 4 Years Old.....	55.1	54.8	2.49	2.33	2.60	2.57	2.48	Q

Table WH9. Average Number of Household Members by Main Water Heating Fuel Used, 2005
Number of Household Members per Housing Unit

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Main Water Heating Fuel Used (number of household members per housing unit)					
			Any Fuel	Electricity	Natural Gas	Fuel Oil	LPG	Other
Dishwasher								
Do Not Use a Dishwasher.....	64.7	64.5	2.66	2.51	2.76	2.93	2.67	Q
Use a Dishwasher.....	46.4	45.5	2.45	2.35	2.51	2.42	2.69	Q
Age of Dishwasher								
Less than 2 Years.....	11.5	11.4	2.86	2.73	2.96	2.99	2.65	N
2 to 4 Years.....	14.6	14.5	2.77	2.64	2.79	3.11	3.39	Q
5 to 9 Years.....	19.2	19.1	2.65	2.51	2.74	3.23	2.40	Q
10 to 19 Years.....	12.8	12.8	2.55	2.41	2.67	2.67	1.92	Q
20 Years or More.....	3.3	3.3	2.32	2.06	2.47	2.50	Q	N
Don't Know.....	3.3	3.3	2.41	2.15	2.60	Q	Q	N
Frequency of Dishwasher Use								
Use a Dishwasher.....	64.7	64.5	2.66	2.51	2.76	2.93	2.67	Q
At Least Once Each Day.....	11.3	11.3	3.65	3.49	3.79	3.39	3.45	N
4 to 6 Times a Week.....	11.7	11.7	3.08	2.87	3.28	3.01	2.56	N
2 to 3 Times a Week.....	21.8	21.7	2.35	2.23	2.38	2.85	2.39	Q
Once each Week.....	9.0	9.0	1.99	2.12	1.83	2.71	Q	Q
Less than Once Each Week.....	10.9	10.9	2.38	2.18	2.55	2.43	2.44	N
Do Not Use a Dishwasher.....	46.4	45.5	2.45	2.35	2.51	2.42	2.69	Q
Energy Star Dishwasher⁴								
Yes.....	16.4	16.3	2.87	2.77	2.93	3.00	2.87	Q
No.....	6.6	6.6	2.66	2.55	2.66	Q	4.19	N
Don't Know.....	3.1	3.1	2.81	2.63	2.90	Q	Q	N
Unit is More Than 4 Years Old.....	38.6	38.5	2.56	2.40	2.68	2.86	2.34	Q

Table WH9. Average Number of Household Members by Main Water Heating Fuel Used, 2005
Number of Household Members per Housing Unit

	U.S. Households (millions)	Total U.S. Using Any Water Heating Fuel (millions)	Main Water Heating Fuel Used (number of household members per housing unit)						
			Any Fuel	Electricity	Natural Gas	Fuel Oil	LPG	Other	
Other Water Heating									
Hot Tubs or Spas	6.7	6.7	2.84	2.68	2.94	Q	2.38	Q	
Electricity.....	5.3	5.3	2.76	2.63	2.91	Q	Q	Q	
Natural Gas.....	1.2	1.2	3.07	Q	3.01	N	N	N	
Swimming Pools	1.9	1.9	2.98	2.94	2.97	Q	Q	Q	
Natural Gas.....	1.2	1.2	3.06	Q	3.05	Q	Q	N	
Electricity.....	0.4	0.4	2.54	Q	Q	Q	N	N	
Propane/LPG.....	0.3	0.3	3.40	Q	Q	Q	Q	Q	
Some Other Fuel.....	Q	Q	Q	Q	N	N	N	N	
Electric Water Beds	2.2	2.1	2.93	3.00	2.99	Q	Q	Q	
1.....	1.9	1.8	2.86	3.03	2.80	Q	Q	N	
2 or More.....	0.3	0.3	3.36	Q	Q	N	Q	N	
Heaters Used all Year	1.7	1.7	2.80	2.81	2.92	Q	Q	N	
1.....	1.5	1.5	2.69	2.83	2.68	Q	Q	N	
2 or More.....	0.3	0.3	3.39	Q	Q	N	Q	N	

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.

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.

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.

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

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
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

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
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

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
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

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	
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	

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
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

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
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

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
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.