

**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 <sup>5</sup> (millions)	Major Fuels Used <sup>5</sup> (physical units)			
			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	LPG (million gal)
<b>Total.....</b>	111.1	109.8	122	1,368	986	1,642
<b>Census Region and Division</b>						
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
<b>Four Most Populated States</b>						
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
<b>Urban/Rural Location (as Self-Reported)</b>						
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
<b>Climate Zone<sup>1</sup></b>						
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

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			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	LPG (million gal)
<b>Type of Housing Unit</b>						
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
<b>Ownership of Housing Unit</b>						
<b>Owned</b> .....	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
<b>Rented</b> .....	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
<b>Year of Construction</b>						
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

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			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	LPG (million gal)
<b>Household Size</b>						
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
<b>2005 Household Income Category</b>						
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
<b>Income Relative to Poverty Line</b>						
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
<b>Eligible for Federal Assistance<sup>2</sup></b>						
Yes.....	38.6	37.8	45	376	361	392
No.....	72.5	72.0	77	992	625	1,250
<b>Payment Method for Utilities</b>						
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

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	U.S. Households (millions)	Total U.S. Using a Major Water Heating Fuel <sup>5</sup> (millions)	Major Fuels Used <sup>5</sup> (physical units)			
			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	LPG (million gal)
<b>Ethnic Origin of Householder</b>						
Hispanic Descent.....	14.8	14.5	16	176	194	218
Non-Hispanic Descent.....	96.3	95.3	106	1,192	792	1,425
<b>Race of Householder<sup>3</sup></b>						
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
<b>Age of Householder</b>						
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
<b>Adults Age 65 or Older in Household</b>						
Yes.....	26.9	26.4	22	290	242	277
No.....	84.2	83.4	100	1,078	744	1,366
<b>Children Under Age 5 in Household</b>						
Yes.....	15.0	14.9	21	231	132	262
No.....	96.1	94.9	101	1,137	853	1,380
<b>Children Age 5 to 16 in Household</b>						
Yes.....	28.1	28.0	38	469	302	655
No.....	83.0	81.8	83	899	684	987

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			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	LPG (million gal)
<b>Number of Water Heaters</b>						
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
<b>Age of Main Water Heater</b>						
<b>Used by One Housing Unit</b>						
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
<b>Used by Two or More Housing Units</b>						
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
<b>Size of Main Water Heater</b>						
<b>Used by One Housing Unit</b>						
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
<b>Used by Two or More Housing Units</b>						
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

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			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	LPG (million gal)
<b>Clothes Washer</b>						
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
<b>Age of Clothes Washer</b>						
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
<b>Frequency of Clothes Washer Use</b>						
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
<b>Usual Water Temperature Setting</b>						
<b>Wash Cycle</b>						
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
<b>Rinse Cycle</b>						
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
<b>Energy Star Clothes Washer<sup>4</sup></b>						
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

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			Electricity (billion kWh)	Natural Gas (billion cf)	Fuel Oil (million gal)	LPG (million gal)
<b>Dishwasher</b>						
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
<b>Age of Dishwasher</b>						
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
<b>Frequency of Dishwasher Use</b>						
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
<b>Energy Star Dishwasher<sup>4</sup></b>						
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

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<b>Other Water Heating</b>							
<b>Hot Tubs or Spas.....</b>	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	
<b>Swimming Pools.....</b>	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	
<b>Electric Water Beds.....</b>	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	
<b>Heaters Used all Year.....</b>	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.