

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.