

Table CE4-4c. Water-Heating Energy Consumption in U.S. Households by Type of Housing Unit, 2001

	Type of Housing Unit					RSE Row Factors
	Total	Single-Family	Apartments in Buildings With		Mobile Homes	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.6	1.3	1.8	
Million Households						
Total U.S. Households	107.0	73.7	9.5	17.0	6.8	4.4
No Water Heating	Q	Q	Q	Q	Q	NF
Water Heating	106.9	73.6	9.5	17.0	6.8	4.4
Not Using a Major Fuel ¹	0.2	Q	Q	Q	Q	82.3
Using a Major Fuel ¹	106.7	73.5	9.5	16.9	6.8	4.4
For Main Water Heating	106.5	73.3	9.5	16.8	6.8	4.4
Number of Households with Water Heating, Major Fuels Used:						
Electricity	41.6	25.9	3.4	7.4	4.9	7.5
Natural Gas	58.2	42.8	5.7	8.2	1.5	6.7
Fuel Oil	4.7	3.0	0.4	1.3	Q	19.5
LPG	3.0	2.5	Q	Q	0.4	22.3
Quadrillion Btu^a						
Water-Heating Btu Consumption, Major Fuels Used:						
Electricity	0.36	0.24	0.02	0.04	0.05	8.4
Natural Gas	1.15	0.93	0.08	0.10	0.03	7.4
Fuel Oil	0.13	0.10	0.01	0.02	Q	20.5
LPG	0.05	0.04	Q	Q	(*)	23.4
Total ²	1.68	1.31	0.12	0.17	0.08	4.5
Physical Units^a						
Physical Units of Water-Heating Consumption, Major Fuels Used:						
Electricity (billion kWh)	104	71	7	13	14	8.4
Natural Gas (billion cf)	1,115	907	82	98	28	7.4
Fuel Oil (million gallons)	950	698	76	176	Q	20.5
LPG (million gallons)	515	458	Q	Q	51	23.4
Million Btu per Household^{4,a}						
Average Water-Heating Btu Consumption per Household						
Using a Major Fuel ¹	15.8	17.9	12.4	10.0	12.2	2.7
For Main Water Heating	15.8	17.9	12.4	10.0	12.2	2.7
Million Households						
Number of Households, Where the Main Water-Heating Fuel Is:						
Electricity	40.8	25.2	3.4	7.4	4.9	7.6
Natural Gas	58.0	42.7	5.7	8.1	1.5	6.7
Fuel Oil	4.6	2.9	0.4	1.3	Q	20.2
LPG	2.9	2.5	Q	Q	0.3	22.6
No Water Heating	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table CE4-4c. Water-Heating Energy Consumption in U.S. Households by Type of Housing Unit, 2001 (Continued)

	Type of Housing Unit					RSE Row Factors
	Total	Single-Family	Apartments in Buildings With		Mobile Homes	
			Two to Four Units	Five or More Units		
RSE Column Factor:	0.5	0.5	1.6	1.3	1.8	
Million Btu per Household^{4,a}						
Water-Heating Btu Consumption per Household,³ Where the Main Water-Heating Fuel Is:						
Electricity	8.7	9.6	6.7	5.9	10.0	3.1
Natural Gas	19.7	21.8	14.8	12.4	18.8	3.1
Fuel Oil	28.1	32.3	25.7	19.0	Q	5.9
LPG	15.9	16.7	Q	Q	12.6	8.8
Physical Units (PU) per Household^{4,a}						
Physical Units of Water-Heating Consumption per Household,³ Where the Main Water-Heating Fuel Is:						
Electricity (kWh)	2,552	2,804	1,953	1,716	2,927	3.1
Natural Gas (thousand cf)	19	21	14	12	18	3.1
Fuel Oil (gallons)	203	233	185	137	Q	5.9
LPG (gallons)	174	183	Q	Q	138	8.8
Number of Household Members (NHM) per Household⁴						
Number of Household Members per Household, Where the Main Water-Heating Fuel Is:						
Electricity	2.4	2.6	2.2	1.9	2.7	3.1
Natural Gas	2.7	2.8	2.4	2.1	2.4	3.1
Fuel Oil	2.4	2.6	1.7	2.1	Q	7.3
LPG	2.6	2.7	Q	Q	2.2	8.6
Water-Heating Intensity^{4,a} (PU÷NHM)						
Water-Heating Intensity, Where the Main Water-Heating Fuel Is:						
Electricity	1,048	1,082	895	925	1,094	2.7
Natural Gas	7.2	7.5	6.0	5.7	7.6	3.6
Fuel Oil	84	89	112	64	Q	9.1
LPG	68	68	Q	Q	62	9.3

¹ The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

² Includes a small amount of kerosene use for water heating.

³ Includes only the water-heating consumption of the water-heating fuel. Not included are: 1) the consumption of the main water-heating fuel for uses other than water heating; 2) the consumption of the main water-heating fuel where it is the secondary, and not the main, water-heating fuel, and; 3) the consumption of other fuels that are used as secondary water-heating fuels.

⁴ Averages are for those households using each of the main water-heating fuels.

^a The row factor in this section is underestimated because it contains no error for estimating the end-use.

(*) = Value rounds to zero in the units displayed.

NF = No applicable RSE row factor.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • 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 2001 Residential Energy Consumption Survey.