

Table CE4-8c. Water-Heating Energy Consumption in U.S. Households by Urban/Rural Location, 2001

	Urban/Rural Location ¹					RSE Row Factors
	Total	City	Town	Suburbs	Rural	
	0.5	0.9	1.4	1.2	1.2	
Million Households						
Total U.S. Households	107.0	49.9	18.0	21.2	17.9	4.2
No Water Heating	Q	Q	Q	Q	Q	NF
Water Heating	106.9	49.8	18.0	21.2	17.9	4.2
Not Using a Major Fuel ²	0.2	Q	Q	Q	Q	73.5
Using a Major Fuel ²	106.7	49.7	18.0	21.2	17.8	4.2
For Main Water Heating	106.5	49.5	18.0	21.1	17.8	4.2
Number of Households with Water Heating, Major Fuels Used:						
Electricity	41.6	15.8	7.0	7.1	11.6	6.6
Natural Gas	58.2	32.6	9.4	13.0	3.1	5.9
Fuel Oil	4.7	1.6	1.1	1.0	1.0	16.2
LPG	3.0	0.3	0.5	Q	2.1	21.3
Quadrillion Btu^a						
Water-Heating Btu Consumption, Major Fuels Used:						
Electricity	0.36	0.12	0.06	0.06	0.12	7.7
Natural Gas	1.15	0.61	0.19	0.28	0.06	6.3
Fuel Oil	0.13	0.04	0.03	0.03	0.04	15.5
LPG	0.05	(*)	0.01	Q	0.03	23.1
Total ³	1.68	0.77	0.29	0.37	0.25	3.9
Physical Units^a						
Physical Units of Water-Heating Consumption, Major Fuels Used:						
Electricity (billion kWh)	104	34	17	18	36	7.7
Natural Gas (billion cf)	1,115	592	189	275	60	6.3
Fuel Oil (million gallons)	950	269	231	196	254	15.5
LPG (million gallons)	515	43	76	Q	375	23.1
Million Btu per Household^{5,a}						
Average Water-Heating Btu Consumption per Household						
Using a Major Fuel ²	15.8	15.4	16.1	17.5	14.3	2.1
For Main Water Heating	15.8	15.4	16.1	17.6	14.3	2.1
Million Households						
Number of Households, Where the Main Water-Heating Fuel Is:						
Electricity	40.8	15.3	6.9	7.0	11.6	6.6
Natural Gas	58.0	32.5	9.4	13.0	3.1	5.9
Fuel Oil	4.6	1.5	1.1	1.0	1.0	16.5
LPG	2.9	0.2	0.5	Q	2.1	21.0
No Water Heating	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table CE4-8c. Water-Heating Energy Consumption in U.S. Households by Urban/Rural Location, 2001 (Continued)

	Urban/Rural Location ¹					RSE Row Factors
	Total	City	Town	Suburbs	Rural	
RSE Column Factor:	0.5	0.9	1.4	1.2	1.2	
Million Btu per Household^{5,a}						
Water-Heating Btu Consumption per Household,⁴ Where the Main Water-Heating Fuel Is:						
Electricity	8.7	7.5	8.2	8.7	10.6	2.8
Natural Gas	19.7	18.7	20.4	21.7	19.7	2.5
Fuel Oil	28.1	23.6	29.2	27.2	34.7	6.4
LPG	15.9	15.6	13.1	Q	16.5	10.2
Physical Units (PU) per Household^{5,a}						
Physical Units of Water-Heating Consumption per Household,⁴ Where the Main Water-Heating Fuel Is:						
Electricity (kWh)	2,552	2,210	2,404	2,536	3,104	2.8
Natural Gas (thousand cf)	19	18	20	21	19	2.5
Fuel Oil (gallons)	203	170	211	196	250	6.4
LPG (gallons)	174	171	144	Q	181	10.2
Number of Household Members (NHM) per Household⁵						
Number of Household Members per Household, Where the Main Water-Heating Fuel Is:						
Electricity	2.4	2.3	2.3	2.4	2.7	2.6
Natural Gas	2.7	2.6	2.7	2.8	2.4	2.7
Fuel Oil	2.4	2.1	2.5	2.5	2.8	5.7
LPG	2.6	2.5	2.1	Q	2.6	9.6
Water-Heating Intensity^{5,a} (PU÷NHM)						
Water-Heating Intensity, Where the Main Water-Heating Fuel Is:						
Electricity	1,048	955	1,036	1,037	1,168	2.2
Natural Gas	7.2	6.9	7.4	7.6	8.0	2.9
Fuel Oil	84	81	86	80	90	6.9
LPG	68	69	67	Q	69	10.1

¹ Based on the household respondent's description rather than the Federal Government definition.

² The major fuels are electricity, natural gas, fuel oil, kerosene, and liquefied petroleum gas (LPG).

³ Includes a small amount of kerosene use for water heating.

⁴ 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.

⁵ 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.