

Table CE4-3c. Water-Heating Energy Consumption in U.S. Households by Household Income, 2001

	Total	2001 Household Income				Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
		Less than \$10,000	\$10,000 to \$29,999	\$30,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.6	1.0	0.9	0.8	1.5	0.9	
Million Households								
Total U.S. Households	107.0	11.0	30.6	27.1	38.3	15.0	33.8	3.3
No Water Heating	Q	Q	Q	Q	Q	Q	Q	NF
Water Heating	106.9	11.0	30.5	27.1	38.3	14.9	33.7	3.3
Not Using a Major Fuel ²	0.2	Q	Q	Q	Q	Q	Q	72.4
Using a Major Fuel ²	106.7	11.0	30.5	27.0	38.2	14.9	33.7	3.3
For Main Water Heating	106.5	11.0	30.4	27.0	38.1	14.9	33.7	3.3
Number of Households with Water Heating, Major Fuels Used:								
Electricity	41.6	4.7	13.4	10.8	12.7	6.4	14.3	6.0
Natural Gas	58.2	5.6	15.5	14.1	23.0	7.9	17.7	5.2
Fuel Oil	4.7	0.4	1.1	1.3	2.0	0.4	1.1	15.5
LPG	3.0	0.3	0.9	1.0	0.8	0.4	0.9	19.4
Quadrillion Btu^a								
Water-Heating Btu Consumption, Major Fuels Used:								
Electricity	0.36	0.03	0.10	0.09	0.13	0.05	0.11	6.4
Natural Gas	1.15	0.08	0.26	0.27	0.53	0.13	0.31	5.7
Fuel Oil	0.13	0.01	0.02	0.03	0.06	0.01	0.03	17.2
LPG	0.05	(*)	0.01	0.02	0.01	(*)	0.01	21.2
Total ³	1.68	0.13	0.40	0.42	0.73	0.19	0.47	3.7
Physical Units^a								
Physical Units of Water-Heating Consumption, Major Fuels Used:								
Electricity (billion kWh)	104	9	29	28	39	14	33	6.4
Natural Gas (billion cf)	1,115	82	257	267	510	124	304	5.7
Fuel Oil (million gallons)	950	76	176	246	452	83	221	17.2
LPG (million gallons)	515	19	164	184	148	45	156	21.2
Million Btu per Household^{5,a}								
Average Water-Heating Btu Consumption per Household								
Using a Major Fuel ²	15.8	11.5	13.2	15.5	19.2	12.9	14.0	2.3
For Main Water Heating	15.8	11.5	13.2	15.5	19.3	12.9	14.0	2.3
Million Households								
Number of Households, Where the Main Water-Heating Fuel Is:								
Electricity	40.8	4.7	13.1	10.6	12.4	6.2	14.0	6.0
Natural Gas	58.0	5.6	15.4	14.1	23.0	7.8	17.6	5.2
Fuel Oil	4.6	0.4	1.0	1.3	1.9	0.4	1.1	15.9
LPG	2.9	0.3	0.9	1.0	0.8	0.4	0.9	19.5
No Water Heating	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table CE4-3c. Water-Heating Energy Consumption in U.S. Households by Household Income, 2001 (Continued)

	2001 Household Income					Below Poverty Line	Eligible for Federal Assistance ¹	RSE Row Factors
	Total	Less than \$10,000	\$10,000 to \$29,999	\$30,000 to \$49,999	\$50,000 or More			
RSE Column Factor:	0.6	1.6	1.0	0.9	0.8	1.5	0.9	
Million Btu per Household^{5,a}								
Water-Heating Btu Consumption per Household,⁴ Where the Main Water-Heating Fuel Is:								
Electricity	8.7	6.3	7.6	8.8	10.7	7.8	8.1	2.7
Natural Gas	19.7	14.9	17.1	19.4	22.8	16.3	17.7	2.4
Fuel Oil	28.1	27.7	22.9	26.5	32.1	26.8	28.9	6.2
LPG	15.9	6.2	16.4	17.6	16.6	10.0	15.4	9.8
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	1,850	2,231	2,593	3,122	2,282	2,367	2.7
Natural Gas (thousand cf)	19	15	17	19	22	16	17	2.4
Fuel Oil (gallons)	203	200	165	192	231	193	209	6.2
LPG (gallons)	174	68	180	192	182	110	168	9.8
Number of Household Members (NHM) per Household⁵								
Number of Household Members per Household, Where the Main Water-Heating Fuel Is:								
Electricity	2.4	1.7	2.2	2.5	2.9	2.4	2.5	3.0
Natural Gas	2.7	2.0	2.4	2.7	3.0	2.8	2.8	2.6
Fuel Oil	2.4	2.1	1.7	2.5	2.8	2.3	2.5	7.2
LPG	2.6	1.3	2.5	2.8	2.9	2.5	2.7	10.7
Water-Heating Intensity^{5,a} (PU÷NHM)								
Water-Heating Intensity, Where the Main Water-Heating Fuel Is:								
Electricity	1,048	1,060	1,008	1,053	1,073	970	962	2.6
Natural Gas	7.2	7.2	7.0	6.9	7.4	5.7	6.1	2.7
Fuel Oil	84	94	96	76	83	84	84	8.6
LPG	68	53	73	69	64	43	63	11.8

¹ Below 150 percent of poverty line or 60 percent of median State income.

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.