

Table CE4-2e. Water-Heating Energy Expenditures in U.S. Households by Year of Construction, 2001

	Total	Year of Construction					1990 to 1999	1949 or Before	RSE Row Factors
		1990 to 2001 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1990 to 1999			
RSE Column Factor:	0.5	1.4	1.2	1.0	1.2	1.2	0.9		
Million Households									
Total U.S. Households	107.0	15.5	18.2	18.8	13.8	14.2	26.6	4.3	
No Water Heating	Q	Q	Q	Q	Q	Q	Q	NF	
Water Heating	106.9	15.5	18.2	18.7	13.8	14.2	26.5	4.3	
Not Using a Major Fuel ²	0.2	Q	Q	Q	Q	Q	Q	83.2	
Using a Major Fuel ²	106.7	15.4	18.2	18.7	13.7	14.2	26.4	4.3	
For Main Water Heating	106.5	15.4	18.2	18.7	13.6	14.1	26.4	4.3	
Number of Households with Water Heating, Major Fuels Used:									
Electricity	41.6	6.5	9.8	9.8	4.2	4.4	6.9	6.6	
Natural Gas	58.2	8.3	7.7	7.8	8.7	8.8	16.9	6.4	
Fuel Oil	4.7	0.2	0.3	0.5	0.7	0.9	2.1	19.6	
LPG	3.0	0.5	0.4	0.7	0.2	0.3	0.8	23.2	
Billion Dollars^a									
Water-Heating Expenditures, Major Fuels Used:									
Electricity	8.47	1.38	2.01	1.98	0.83	0.86	1.40	7.6	
Natural Gas	11.31	1.90	1.62	1.40	1.56	1.70	3.12	7.3	
Fuel Oil	1.14	0.06	0.13	0.14	0.16	0.20	0.45	20.0	
LPG	0.69	0.12	0.10	0.16	0.04	0.07	0.20	24.7	
Total ³	21.61	3.47	3.86	3.68	2.59	2.84	5.18	4.4	
Dollars per Household^{5,a}									
Average Water-Heating Expenditures per Household									
Using a Major Fuel ²	203	225	212	196	189	200	196	2.3	
For Main Water Heating	203	225	212	196	190	201	196	2.3	
Million Households									
Number of Households, Where the Main Water-Heating Fuel Is:									
Electricity	40.8	6.4	9.8	9.8	4.1	4.1	6.7	6.8	
Natural Gas	58.0	8.3	7.7	7.8	8.6	8.8	16.9	6.4	
Fuel Oil	4.6	0.2	0.3	0.5	0.7	0.9	2.0	20.2	
LPG	2.9	0.5	0.4	0.7	0.2	0.3	0.8	23.2	
Does Not Heat Water	Q	Q	Q	Q	Q	Q	Q	NF	
Dollars per Household^{5,a}									
Water-Heating Expenditures per Household,⁴ Where the Main Water-Heating Fuel Is:									
Electricity	208	215	206	202	204	212	210	3.4	
Natural Gas	194	229	210	179	181	193	184	3.2	
Fuel Oil	243	302	402	296	217	213	223	8.8	
LPG	233	242	229	219	184	280	238	11.6	

See footnotes at end of table.

Table CE4-2e. Water-Heating Energy Expenditures in U.S. Households by Year of Construction, 2001 (Continued)

	Total	Year of Construction						RSE Row Factors
		1990 to 2001 ¹	1980 to 1989	1970 to 1979	1960 to 1969	1990 to 1999	1949 or Before	
RSE Column Factor:	0.5	1.4	1.2	1.0	1.2	1.2	0.9	
Number of Household Members (NHM) per Household⁵								
Number of Household Members per Household, Where the Main Water-Heating Fuel Is:								
Electricity	2.4	2.7	2.4	2.3	2.4	2.4	2.5	3.2
Natural Gas	2.7	3.1	2.6	2.7	2.5	2.6	2.6	2.9
Fuel Oil	2.4	2.9	3.2	2.8	2.4	2.1	2.3	7.1
LPG	2.6	3.1	2.5	2.4	2.0	2.6	2.5	11.7
Water-Heating Intensity^{5,a} (Dollars÷NHM)								
Water-Heating Intensity, Where the Main Water-Heating Fuel Is:								
Electricity	85	80	85	87	87	90	86	2.7
Natural Gas	73	73	82	67	73	73	72	3.6
Fuel Oil	101	105	127	105	91	104	96	11.1
LPG	91	78	90	90	93	108	94	13.8

¹ New construction for 2001 includes only those housing units built and occupied between January and the April-August period when the household interviews were conducted.

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 expenditures of the water-heating fuel. Not included are: 1) the expenditures of the main water-heating fuel for uses other than water heating; 2) the expenditures of the main water-heating fuel where it is the secondary, and not the main, water-heating fuel, and; 3) the expenditures 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.

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.