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

		T T T T T T T T T T T T T T T T T T T						
		Year of Construction						
	Total  Column Factor:  0.5	1990 to 2001 <sup>1</sup>	1980 to 1989	1970 to 1979	1960 to 1969	1990 to 1999	1949 or Before	RSE Row Factors
RSE Column Factor:								
		1	l	Million Hou	seholds		1	
Total U.S. Households  No Water Heating Water Heating Not Using a Major Fuel <sup>2</sup> Using a Major Fuel <sup>2</sup> For Main Water Heating	107.0 Q 106.9 0.2 106.7 106.5	15.5 Q 15.5 Q 15.4 15.4	18.2 Q 18.2 Q 18.2 18.2	18.8 Q 18.7 Q 18.7 18.7	13.8 Q 13.8 Q 13.7 13.6	14.2 Q 14.2 Q 14.2 14.1	26.6 Q 26.5 Q 26.4 26.4	4.3 NF 4.3 84.9 4.3 4.3
Number of Households with Water Heating, Major Fuels Used: Electricity Natural Gas Fuel Oil	41.6 58.2 4.7	6.5 8.3 0.2	9.8 7.7 0.3	9.8 7.8 0.5	4.2 8.7 0.7	4.4 8.8 0.9	6.9 16.9 2.1	6.6 6.4 19.6
LPG	3.0	0.5	0.4	0.7	0.2	0.3	0.8	23.2
	Quadrillion Btu <sup>a</sup>							
Water-Heating Btu Consumption, Major Fuels Used: Electricity Natural Gas Fuel Oil LPG Total <sup>3</sup>	0.36 1.15 0.13 0.05 1.68	0.06 0.19 0.01 0.01 0.27	0.08 0.16 0.01 0.01 0.27	0.08 0.15 0.02 0.01 0.25	0.04 0.16 0.02 (*) 0.21	0.04 0.18 0.02 (*) 0.24	0.06 0.31 0.05 0.01 0.44	7.7 7.0 20.0 24.7 4.6
	Physical Units <sup>a</sup>							
Physical Units of Water-Heating Consumption, Major Fuels Used: Electricity (billion kWh)	104 1,115 950 515	18 185 48 94	25 160 101 68	24 141 115 116	10 153 136 32	10 171 166 50	17 306 384 156	7.7 7.0 20.0 24.7
	Million Btu per Household <sup>5,a</sup>							
Average Water-Heating Btu Consumption								
per Household Using a Major Fuel <sup>2</sup> For Main Water Heating	15.8 15.8	17.3 17.3	14.8 14.8	13.6 13.6	15.6 15.7	16.8 16.9	16.6 16.6	2.7 2.7
	Million Households							
Number of Households, Where the Main Water-Heating Fuel Is: Electricity Natural Gas Fuel Oil	40.8 58.0 4.6	6.4 8.3 0.2	9.8 7.7 0.3	9.8 7.8 0.5	4.1 8.6 0.7	4.1 8.8 0.9	6.7 16.9 2.0	6.8 6.4 20.2
LPG	2.9 Q	0.2 0.5 Q	0.3 0.4 Q	0.3 0.7 Q	0.7 0.2 Q	0.3 Q	0.8 Q	23.2 NF

See footnotes at end of table.

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

		Year of Construction						
	Total	1990 to 2001 <sup>1</sup>	1980 to 1989	1970 to 1979	1960 to 1969	1990 to 1999	1949 or Before	RSE Row Factors
RSE Column Factor:		1.5						
_	Million Btu per Household <sup>5,a</sup>							
Water-Heating Btu Consumption per Household, <sup>4</sup> Where the Main								
Household, where the Main Water-Heating Fuel Is:								
Electricity	8.7	9.4	8.6	8.5	8.7	8.6	8.6	3.4
Natural Gas	19.7	22.9	21.3	18.6	18.2	19.9	18.5	2.9
			44.5	32.8	25.8	24.8	26.1	-
Fuel OilLPG	28.1	35.0						7.7
	15.9	17.1	14.1	15.0	13.2	17.2	17.1	11.1
	Physical Units (PU) per Household <sup>5,a</sup>							
Physical Units of Water-Heating Consumption per Household, <sup>4</sup> Where the Main Water-Heating Fuel Is: Electricity (kWh)	2.552	2.752	2.522	2.480	2.543	2.522	2.535	3.4
Natural Gas (thousand cf)	19	22	21	18	18	19	18	2.9
Fuel Oil (gallons)	203	252	321	237	186	179	188	7.7
	203 174	187	155	164	144	189	187	11.1
LPG (gallons)								
	Number of Household Members (NHM) per Household <sup>5</sup>							
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 <sup>5,a</sup> (PU÷NHM)							
Water-Heating Intensity, Where the Main Water-Heating Fuel Is:								
Electricity	1,048	1,023	1,042	1,061	1,080	1,071	1,033	2.7
Natural Gas	7.2	7.1	8.0	6.7	7.1	7.4	7.0	3.0
	0.4	0.7	101	84	70	0.7	0.4	10.1
Fuel Oil LPG	84 68	87 60	61	67	78 73	87 72	81 74	13.3

<sup>1</sup> 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.

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

Includes a small amount of kerosene use for water heating.

<sup>4</sup> 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 heating fuels.

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

<sup>&</sup>lt;sup>a</sup> The row factor in this section is underestimated because it contains no error for estimating the end-use.

<sup>(\*) =</sup> 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.