

**Table CE4-8e. Water-Heating Energy Expenditures in U.S. Households  
by Urban/Rural Location, 2001**

	Urban/Rural Location <sup>1</sup>					RSE Row Factors
	Total	City	Town	Suburbs	Rural	
	0.6	1.0	1.4	1.1	1.2	
<b>Million Households</b>						
<b>Total U.S. Households</b> .....	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 <sup>2</sup> .....	0.2	Q	Q	Q	Q	72.8
Using a Major Fuel <sup>2</sup> .....	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
<b>Number of Households with Water Heating, Major Fuels Used:</b>						
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	21.2
<b>Billion Dollars<sup>a</sup></b>						
<b>Water-Heating Expenditures, Major Fuels Used:</b>						
Electricity .....	8.47	2.84	1.35	1.51	2.77	7.7
Natural Gas .....	11.31	5.98	1.88	2.86	0.59	6.7
Fuel Oil .....	1.14	0.28	0.29	0.25	0.31	15.5
LPG .....	0.69	0.06	0.10	Q	0.50	22.3
Total <sup>3</sup> .....	21.61	9.17	3.62	4.65	4.17	4.1
<b>Dollars per Household<sup>5,a</sup></b>						
<b>Average Water-Heating Expenditures per Household</b>						
Using a Major Fuel <sup>2</sup> .....	203	185	201	219	235	1.9
For Main Water Heating .....	203	185	201	220	235	1.9
<b>Million Households</b>						
<b>Number of Households, Where the Main Water-Heating Fuel Is:</b>						
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	20.9
Does Not Heat Water .....	Q	Q	Q	Q	Q	NF
<b>Dollars per Household<sup>5,a</sup></b>						
<b>Water-Heating Expenditures per Household,<sup>4</sup> Where the Main Water-Heating Fuel Is:</b>						
Electricity .....	208	185	195	217	239	2.8
Natural Gas .....	194	183	198	219	189	2.9
Fuel Oil .....	243	179	268	253	302	7.3
LPG .....	233	230	192	Q	242	9.8

See footnotes at end of table.

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

	Total	Urban/Rural Location <sup>1</sup>				RSE Row Factors
		City	Town	Suburbs	Rural	
RSE Column Factor:	0.6	1.0	1.4	1.1	1.2	
<b>Number of Household Members (NHM) per Household<sup>5</sup></b>						
<b>Number of Household Members per Household, Where the Main Water-Heating Fuel Is:</b>						
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	9.5
<b>Water-Heating Intensity<sup>5,a</sup> (Dollars÷NHM)</b>						
<b>Water-Heating Intensity, Where the Main Water-Heating Fuel Is:</b>						
Electricity .....	85	80	84	89	90	2.6
Natural Gas .....	73	69	74	79	79	3.5
Fuel Oil .....	101	85	109	103	108	7.8
LPG .....	91	94	90	Q	92	11.5

<sup>1</sup> Based on the household respondent's description rather than the Federal Government definition.

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

<sup>3</sup> Includes a small amount of kerosene use for water heating.

<sup>4</sup> 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.

<sup>5</sup> Averages are for those households using each of the main water-heating fuels.

<sup>a</sup> 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.