

**Table CE3-1c. Electric Air-Conditioning Energy Consumption in U.S. Households by Climate Zone, 2001**

	Climate Zone <sup>1</sup>						RSE Row Factors
	Total	Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.6	1.0	0.9	1.5	1.0	
<b>Million Households</b>							
<b>Total U.S. Households</b> .....	107.0	9.2	28.6	24.0	21.0	24.1	8.1
No/Don't Use Air-Conditioning .....	26.2	4.0	8.1	4.2	7.6	2.3	11.3
Electric Air-Conditioning <sup>2</sup> .....	80.8	5.3	20.5	19.9	13.4	21.8	8.2
Central Air-Conditioning <sup>3</sup> .....	57.5	3.1	12.9	12.7	10.5	18.2	9.2
Room/Wall Air-Conditioning .....	23.3	2.2	7.6	7.2	2.9	3.6	11.3
<b>Quadrillion Btu<sup>a</sup></b>							
<b>Electric Air-Conditioning Btu Consumption</b>							
Total .....	0.62	0.02	0.08	0.11	0.11	0.30	10.3
Central Air-Conditioning .....	0.55	0.01	0.07	0.09	0.09	0.28	10.6
Room/Wall Air-Conditioning .....	0.08	(*)	0.02	0.02	0.01	0.02	14.7
<b>Billion kWh<sup>a</sup></b>							
<b>Electric Air-Conditioning kWh Consumption</b>							
Total .....	183	6	25	33	31	88	10.3
Central Air-Conditioning .....	161	4	20	27	28	82	10.6
Room/Wall Air-Conditioning .....	22	1	5	6	3	6	14.7
<b>Million Btu per Household<sup>4,a</sup></b>							
<b>Electric Air-Conditioning Btu Consumption per Household</b>							
Electric Air-Conditioning .....	7.7	3.6	4.1	5.7	7.9	13.8	4.9
Central Air-Conditioning .....	9.5	4.7	5.3	7.1	9.0	15.4	4.6
Room/Wall Air-Conditioning .....	3.2	2.1	2.2	3.0	4.0	6.0	8.0
<b>kWh per Household<sup>4,a</sup></b>							
<b>Electric Air-Conditioning kWh Consumption per Household</b>							
Electric Air-Conditioning .....	2,263	1,069	1,208	1,660	2,322	4,058	4.9
Central Air-Conditioning .....	2,796	1,372	1,542	2,094	2,638	4,510	4.6
Room/Wall Air-Conditioning .....	950	630	639	890	1,161	1,752	8.0
<b>2001 Cooling Degree-Days (CDD) per Household<sup>4</sup></b>							
<b>2001 Cooling Degree-Days per Household</b>							
Total U.S. Households .....	1,407	665	777	1,147	1,236	2,852	3.8
No/Don't Use Air-Conditioning .....	883	603	639	860	738	2,752	8.2
Electric Air-Conditioning .....	1,578	712	832	1,207	1,520	2,863	3.0
Central Air-Conditioning .....	1,701	732	848	1,221	1,561	2,887	3.2
Room/Wall Air-Conditioning .....	1,274	681	804	1,181	1,368	2,742	3.4

See footnotes at end of table.

**Table CE3-1c. Electric Air-Conditioning Energy Consumption in U.S. Households by Climate Zone, 2001 (Continued)**

	Climate Zone <sup>1</sup>						RSE Row Factors
	Total	Fewer than 2,000 CDD and --				2,000 CDD or More and Fewer than 4,000 HDD	
		More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Fewer than 4,000 HDD		
RSE Column Factor:	0.4	1.6	1.0	0.9	1.5	1.0	
<b>Cooled Square Footage (CSF) per Household<sup>4</sup></b>							
<b>Cooled Square Footage per Household</b>							
Electric Air-Conditioning .....	1,724	1,867	1,863	1,697	1,732	1,579	4.1
Central Air-Conditioning .....	2,032	2,405	2,336	2,101	1,989	1,729	4.1
Room/Wall Air-Conditioning .....	967	1,090	1,058	981	790	811	6.2
<b>Air-Conditioning Intensity<sup>4,a</sup> [kWh÷{CDD×(CSF÷1000)}]</b>							
<b>Air-Conditioning Intensity</b>							
Electric Air-Conditioning .....	0.83	0.80	0.78	0.81	0.88	0.90	2.5
Central Air-Conditioning .....	0.81	0.78	0.78	0.82	0.85	0.90	2.7
Room/Wall Air-Conditioning .....	0.77	0.85	0.75	0.77	1.07	0.79	5.6

<sup>1</sup> One of five climatically distinct areas, determined according to the 30-year average (1961-1990) of the annual heating and cooling degree-days. For this report, the heating or cooling degree-days are a measure of how cold or how hot a location is over a period of one year, relative to a base temperature of 65 degrees Fahrenheit. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

<sup>2</sup> The number of households, where the end use is electric air-conditioning, does **not** include households that did not use their equipment (2.1 million).

<sup>3</sup> The 2001 RECS reported 800,000 households having both central air-conditioning and room/wall air-conditioners, with 600,000 households using both central air-conditioning and 200,000 households using only room/wall air-conditioners. These room/wall air-conditioners are not included in the count of 23.3 million households using room/wall air-conditioners. Note: This applies to all occurrences of central air-conditioning.

<sup>4</sup> Averages are for those households using any electric air-conditioning, central air-conditioning, or room/wall air-conditioning, as applicable.

<sup>a</sup> 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.

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.