

**Table HC4-1a. Air Conditioning by Climate Zone,
Million U.S. Households, 2001**

Air Conditioning Characteristics	Total	Climate Zone ¹					RSE Row Factors
		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	2.1	1.0	0.9	1.5	1.0	
Total Households With							
Air-Conditioning	82.9	5.4	20.9	20.2	14.2	22.1	8.1
Air Conditioners Not Used	2.1	Q	0.4	0.3	0.8	0.4	23.2
Households Using Electric Air-Conditioning²	80.8	5.3	20.5	19.9	13.4	21.8	8.2
Type of Electric Air-Conditioning Used							
Central Air-Conditioning ³	57.5	3.1	12.9	12.7	10.5	18.2	9.2
Without a Heat Pump	46.2	3.0	12.1	9.8	7.0	14.3	10.7
With a Heat Pump	11.3	Q	0.9	2.9	3.5	3.9	19.5
Room Air-Conditioning	23.3	2.2	7.6	7.2	2.9	3.6	11.3
1 Unit	12.8	1.4	4.5	3.4	1.9	1.5	13.5
2 Units	7.5	0.5	2.2	2.5	0.8	1.4	13.8
3 or More Units	3.0	0.2	0.8	1.2	0.2	0.7	20.1
Number of Rooms Air-Conditioned in Summer 2001							
One or Two	12.3	0.8	4.4	3.6	1.8	1.8	12.1
Three	9.2	0.9	2.2	2.2	1.6	2.4	16.5
Four	12.0	0.8	2.6	3.1	1.7	3.8	14.4
Five or More	47.3	2.8	11.3	11.0	8.4	13.8	9.6
Percentage of Rooms Air-Conditioned							
100%	58.8	3.3	13.5	13.7	10.3	18.0	9.4
50% to 99%	12.1	1.1	3.2	3.2	1.7	2.8	13.0
25% to 49%	6.4	0.5	2.3	2.1	0.8	0.7	15.0
1% to 24%	3.5	0.3	1.5	0.8	0.5	0.3	18.9
Large Tree(s) that Shade the Home							
Yes	41.5	2.6	10.0	9.5	6.9	12.5	10.5
No	39.3	2.6	10.5	10.4	6.4	9.3	10.1
Central Air-Conditioner Age (excludes systems for more than one housing unit)							
Less than 2 Years	6.1	0.4	1.1	1.4	1.2	1.9	17.0
2 to 4 Years	10.1	0.5	2.6	2.2	2.0	2.9	15.5
5 to 9 Years	15.4	0.9	3.2	3.3	3.0	5.0	13.1
10 to 19 Years	15.0	0.8	3.7	3.1	2.8	4.6	14.1
20 Years or More	5.7	0.5	1.4	1.1	1.0	1.7	17.9
Don't Know	3.7	Q	0.6	1.0	0.4	1.7	23.3
Central Air-Conditioning Use							
Only a Few Times	16.8	1.8	5.9	4.2	2.9	1.9	12.5
Quite a Bit	12.1	0.5	3.4	3.2	1.6	3.4	13.6
All Summer	28.4	0.7	3.6	5.3	6.0	12.8	12.2

See footnotes at end of table.

**Table HC4-1a. Air Conditioning by Climate Zone,
Million U.S. Households, 2001 (Continued)**

Air Conditioning Characteristics	Total	Climate Zone ¹					RSE Row Factors
		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	2.1	1.0	0.9	1.5	1.0	
Pays for Electricity for Central Air-Conditioning							
Yes	55.5	3.1	12.5	12.1	10.3	17.4	9.4
No	2.0	Q	0.4	0.6	Q	0.8	30.6
Age of Most-Used Room Air Conditioner							
Less than 2 Years	3.1	0.3	1.1	0.9	0.4	0.4	21.1
2 to 4 Years	5.3	0.3	1.5	2.0	0.5	1.0	15.4
5 to 9 Years	6.4	0.7	1.8	1.9	0.8	1.2	15.4
10 or 19 Years	4.3	0.5	1.5	1.2	0.5	0.5	19.1
20 or More Years	2.0	0.2	0.7	0.6	Q	0.3	28.5
Don't Know	2.2	0.2	0.9	0.5	0.4	Q	25.9
Room Air-Conditioning Use							
Only a Few Times	13.6	1.4	5.3	4.0	1.4	1.4	12.4
Quite a Bit	5.0	0.5	1.3	1.7	0.7	0.8	19.9
All Summer	4.7	0.2	1.0	1.4	0.8	1.3	21.0
Pays for Electricity for Room Air-Conditioning							
Yes	21.9	2.1	7.1	6.7	2.7	3.3	11.4
No	1.5	Q	0.5	0.5	Q	Q	40.3

¹ 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.

² 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). It does include the small number of households where the fuel for central air-conditioning equipment was something other than electricity; those households were treated as if the fuel was electricity.

³ 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.

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, B, C of the 2001 Residential Energy Consumption Survey.