

**Table HC4-2a. Air Conditioning by Year of Construction,
Million U.S. Households, 2001**

| Air Conditioning Characteristics | Total | Year of Construction | | | | | | RSE Row Factors |
|--|-------|---------------------------|--------------|--------------|--------------|--------------|----------------|-----------------|
| | | 1990 to 2001 ¹ | 1980 to 1989 | 1970 to 1979 | 1960 to 1969 | 1950 to 1959 | 1949 or Before | |
| RSE Column Factor: | 0.4 | 1.6 | 1.2 | 1.1 | 1.2 | 1.1 | 0.9 | |
| Households With Electric Air-Conditioning Equipment | | | | | | | | |
| Air-Conditioning Equipment | 82.9 | 13.6 | 16.0 | 14.7 | 10.4 | 10.5 | 17.6 | 4.7 |
| Air Conditioners Not Used | 2.1 | Q | 0.3 | 0.5 | 0.3 | 0.4 | 0.5 | 27.2 |
| Households Using Electric Air-Conditioning² | | | | | | | | |
| Air-Conditioning ² | 80.8 | 13.4 | 15.8 | 14.2 | 10.1 | 10.2 | 17.1 | 4.7 |
| Type of Electric Air-Conditioning Used | | | | | | | | |
| Central Air-Conditioning ³ | 57.5 | 12.6 | 13.7 | 11.0 | 7.1 | 6.6 | 6.4 | 5.9 |
| Without a Heat Pump | 46.2 | 10.1 | 10.4 | 8.0 | 6.1 | 5.9 | 5.7 | 7.0 |
| With a Heat Pump | 11.3 | 2.5 | 3.3 | 3.0 | 1.0 | 0.8 | 0.6 | 15.2 |
| Room Air-Conditioning | 23.3 | 0.8 | 2.1 | 3.1 | 3.1 | 3.5 | 10.8 | 8.7 |
| 1 Unit | 12.8 | 0.5 | 1.2 | 2.0 | 1.7 | 1.7 | 5.7 | 11.4 |
| 2 Units | 7.5 | 0.2 | 0.8 | 1.0 | 0.8 | 1.3 | 3.3 | 13.8 |
| 3 or More Units | 3.0 | Q | Q | 0.2 | 0.5 | 0.5 | 1.7 | 20.9 |
| Number of Rooms Air-Conditioned in Summer 2001 | | | | | | | | |
| One or Two | 12.3 | 0.4 | 1.4 | 2.1 | 1.5 | 1.7 | 5.2 | 11.6 |
| Three | 9.2 | 0.8 | 1.7 | 1.9 | 1.7 | 0.9 | 2.2 | 14.3 |
| Four | 12.0 | 1.7 | 2.9 | 2.4 | 1.1 | 1.3 | 2.6 | 11.2 |
| Five or More | 47.3 | 10.4 | 9.8 | 7.9 | 5.9 | 6.2 | 7.1 | 6.5 |
| Percentage of Rooms Air-Conditioned | | | | | | | | |
| 100% | 58.8 | 11.5 | 13.3 | 11.0 | 7.4 | 6.7 | 8.9 | 5.6 |
| 50% to 99% | 12.1 | 1.6 | 1.6 | 2.1 | 1.6 | 1.9 | 3.2 | 11.3 |
| 25% to 49% | 6.4 | Q | 0.7 | 0.7 | 0.8 | 0.9 | 3.1 | 14.6 |
| 1% to 24% | 3.5 | Q | 0.2 | 0.3 | 0.3 | 0.6 | 1.9 | 20.0 |
| Large Tree(s) that Shade the Home | | | | | | | | |
| Yes | 41.5 | 4.6 | 7.5 | 8.2 | 6.2 | 6.0 | 9.1 | 6.5 |
| No | 39.3 | 8.8 | 8.3 | 6.0 | 4.0 | 4.1 | 8.1 | 6.9 |
| Central Air-Conditioner Age (excludes systems for more than one housing unit) | | | | | | | | |
| Less than 2 Years | 6.1 | 1.7 | 1.2 | 1.1 | 0.8 | 0.7 | 0.6 | 15.8 |
| 2 to 4 Years | 10.1 | 3.5 | 1.3 | 1.7 | 1.2 | 1.2 | 1.3 | 13.5 |
| 5 to 9 Years | 15.4 | 6.0 | 1.8 | 2.3 | 1.8 | 1.7 | 1.8 | 11.1 |
| 10 to 19 Years | 15.0 | 1.3 | 7.3 | 1.9 | 1.7 | 1.5 | 1.4 | 11.4 |
| 20 Years or More | 5.7 | Q | 0.8 | 2.5 | 0.9 | 0.8 | 0.6 | 17.5 |
| Don't Know | 3.7 | Q | 1.0 | 1.2 | 0.4 | 0.6 | 0.5 | 19.2 |
| Central Air-Conditioning Use | | | | | | | | |
| Only a Few Times | 16.8 | 3.5 | 3.5 | 3.0 | 2.1 | 2.5 | 2.2 | 10.0 |
| Quite a Bit | 12.1 | 2.8 | 2.7 | 2.2 | 1.6 | 1.4 | 1.5 | 11.4 |
| All Summer | 28.4 | 6.3 | 7.5 | 5.8 | 3.3 | 2.8 | 2.7 | 8.3 |

See footnotes at end of table.

**Table HC4-2a. Air Conditioning by Year of Construction,
Million U.S. Households, 2001 (Continued)**

| Air Conditioning Characteristics | Total | Year of Construction | | | | | | RSE Row Factors |
|--|-------|---------------------------|--------------|--------------|--------------|--------------|----------------|-----------------|
| | | 1990 to 2001 ¹ | 1980 to 1989 | 1970 to 1979 | 1960 to 1969 | 1950 to 1959 | 1949 or Before | |
| RSE Column Factor: | 0.4 | 1.6 | 1.2 | 1.1 | 1.2 | 1.1 | 0.9 | |
| Pays for Electricity for Central Air-Conditioning | | | | | | | | |
| Yes | 55.5 | 12.5 | 13.2 | 10.5 | 6.8 | 6.4 | 6.2 | 6.1 |
| No | 2.0 | Q | 0.5 | 0.6 | 0.3 | Q | Q | 26.3 |
| Age of Most-Used Room Air Conditioner | | | | | | | | |
| Less than 2 Years | 3.1 | 0.2 | 0.2 | 0.4 | 0.3 | 0.5 | 1.5 | 22.3 |
| 2 to 4 Years | 5.3 | Q | 0.4 | 0.6 | 0.6 | 0.9 | 2.6 | 15.2 |
| 5 to 9 Years | 6.4 | 0.3 | 0.5 | 0.7 | 0.9 | 1.0 | 3.0 | 16.5 |
| 10 or 19 Years | 4.3 | Q | 0.5 | 0.5 | 0.5 | 0.7 | 2.0 | 17.8 |
| 20 or More Years | 2.0 | Q | Q | 0.4 | 0.4 | 0.3 | 0.7 | 24.7 |
| Don't Know | 2.2 | Q | 0.3 | 0.5 | 0.4 | Q | 0.8 | 24.2 |
| Room Air-Conditioning Use | | | | | | | | |
| Only a Few Times | 13.6 | 0.4 | 1.2 | 1.7 | 1.7 | 2.3 | 6.3 | 10.7 |
| Quite a Bit | 5.0 | Q | 0.4 | 0.7 | 0.7 | 0.6 | 2.4 | 18.0 |
| All Summer | 4.7 | 0.2 | 0.4 | 0.7 | 0.7 | 0.7 | 2.1 | 19.3 |
| Pays for Electricity for Room Air-Conditioning | | | | | | | | |
| Yes | 21.9 | 0.8 | 1.9 | 2.8 | 2.8 | 3.2 | 10.4 | 8.8 |
| No | 1.5 | Q | Q | 0.3 | 0.3 | 0.3 | 0.4 | 30.1 |

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 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.