

**Table HC9.6 Air Conditioning Characteristics by Climate Zone, 2005**  
**Million U.S. Housing Units**

Air Conditioning Characteristics	Housing Units (millions)	Climate Zone <sup>1</sup>				
		Less than 2,000 CDD and --				2,000 CDD or More and Less than 4,000 HDD
		Greater than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Less than 4,000 HDD	
<b>Total</b> .....	111.1	10.9	26.1	27.3	24.0	22.8
<b>Do Not Have Cooling Equipment</b> .....	17.8	3.2	4.7	3.6	5.5	0.9
<b>Have Cooling Equipment</b> .....	93.3	7.7	21.4	23.7	18.5	21.9
Use Cooling Equipment.....	91.4	7.6	21.0	23.4	17.9	21.7
Have Equipment But Do Not Use it.....	1.9	Q	0.4	0.4	0.6	0.3
<b>Air-Conditioning Equipment<sup>2, 3</sup></b>						
Central System.....	65.9	4.8	12.3	15.1	14.9	18.7
Without a Heat Pump.....	53.5	4.7	11.5	11.6	12.3	13.6
With a Heat Pump.....	12.3	Q	0.9	3.5	2.7	5.2
Window/Wall Units.....	28.9	3.1	9.3	8.8	4.0	3.7
1 Unit.....	14.5	2.1	5.0	3.6	2.4	1.4
2 Units.....	9.1	0.7	2.9	3.3	1.0	1.2
3 or More Units.....	5.4	0.3	1.5	1.9	0.6	1.1
<b>Central Air-Conditioning</b> .....	65.9	4.8	12.3	15.1	14.9	18.7
<b>Housing Units Served by Central Air-Condition Equipment</b>						
One Housing Unit.....	64.2	4.7	11.9	14.5	14.7	18.3
Two or More Housing Units.....	1.7	Q	0.4	Q	Q	0.4
Do Not Have Central A/C Equipment.....	45.2	6.2	13.7	12.2	9.0	4.1
<b>Number of Rooms Cooled by Central Air-Conditioning in Summer 2005</b>						
None.....	1.4	Q	0.3	Q	0.6	0.2
1.....	0.7	N	Q	Q	Q	Q
2.....	2.1	Q	0.5	0.4	0.5	0.5
3.....	7.5	0.4	1.4	1.3	2.0	2.4
4.....	7.9	0.4	1.2	1.8	1.9	2.6
5 or More.....	46.3	3.7	8.9	11.2	9.9	12.7
<b>Proportion of Rooms Air-Conditioned</b>						
None.....	1.4	Q	0.3	Q	0.6	0.2
Some, But Not All of the Rooms.....	8.4	0.7	1.8	1.6	2.4	1.9
All of the Rooms.....	56.1	4.0	10.2	13.2	12.0	16.6
<b>Frequency of Central Air-Conditioner Use</b>						
Never.....	1.4	Q	0.3	Q	0.6	0.2
Only a Few Times When Needed.....	11.4	1.7	3.1	2.3	3.5	0.9
Quite a Bit.....	12.6	1.6	3.3	2.8	2.9	2.0
All Summer.....	40.5	1.4	5.6	9.8	8.0	15.6
<b>Age of Central Air-Conditioner Used by One Housing Unit</b>						
Less than 2 Years.....	9.0	0.7	1.7	2.0	1.9	2.8
2 to 4 Years.....	11.0	0.8	2.2	2.2	2.2	3.7
5 to 9 Years.....	16.3	1.4	3.3	3.4	3.8	4.4
10 to 19 Years.....	16.8	1.4	2.9	4.2	4.4	3.9
20 Years or More.....	6.5	0.3	0.9	1.7	1.6	2.0
Don't Know.....	4.5	Q	1.0	0.9	0.8	1.5

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<b>Used by Two or More Housing Units</b>						
Less than 2 Years.....	Q	Q	N	N	N	Q
2 to 4 Years.....	Q	N	N	Q	N	Q
5 to 9 Years.....	0.3	Q	Q	Q	Q	N
10 to 19 Years.....	0.3	Q	Q	Q	Q	Q
20 Years or More.....	0.3	N	Q	Q	Q	Q
Don't Know.....	0.7	N	Q	Q	Q	Q
<b>Household Pays for Electricity for Central Air-Conditioning</b>						
Yes.....	63.6	4.7	12.0	14.2	14.5	18.2
No.....	2.3	Q	Q	0.9	0.4	0.5
<b>Window/Wall Unit Air-Conditioning.....</b>	<b>28.9</b>	<b>3.1</b>	<b>9.3</b>	<b>8.8</b>	<b>4.0</b>	<b>3.7</b>
<b>Frequency Most-Used Unit Used</b>						
Never.....	0.6	Q	Q	Q	Q	Q
Only a Few Times When Needed.....	12.1	1.5	4.2	3.8	1.7	0.9
Quite a Bit.....	7.5	1.0	2.6	2.1	0.9	0.9
All Summer.....	8.6	0.4	2.4	2.7	1.3	1.7
<b>Age of Most-Used Unit</b>						
Less than 2 Years.....	6.4	0.5	2.1	2.1	1.0	0.8
2 to 4 Years.....	7.8	0.9	2.6	2.3	0.8	1.1
5 to 9 Years.....	7.0	0.7	2.1	2.3	1.0	1.0
10 to 19 Years.....	3.7	0.3	1.2	1.1	0.6	0.5
20 Years or More.....	2.1	0.2	0.7	0.5	0.4	Q
Don't Know.....	1.8	0.3	0.6	0.6	0.2	Q
<b>Household Pays for Electricity for Window/Wall Air-Conditioners</b>						
Yes.....	26.1	2.7	8.5	7.8	3.8	3.2
No.....	2.2	Q	0.7	0.8	Q	0.3

1. One of five climatically distinct areas, determined according to the 30-year average (1971-2000) of the annual heating and cooling degree-days. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

2. In the 2005 RECS 1.5 million housing units reported having both central and window/wall air conditioners.

3. The number of housing units using air-conditioning includes a small, undetermined number of housing units where the fuel for central air-conditioning was some fuel other than electricity; these housing units were treated as if the air-conditioning fuel was electricity.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 10 households were sampled.

N = No cases in reporting sample.

Notes: • Because of rounding, data may not sum to totals. • See Glossary for definition of terms used in these tables.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A, B, C of the 2005 Residential Energy Consumption Survey.