

**Table HC5.7 Air-Conditioning Usage Indicators by Year of Construction, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	Housing Units (millions)	Year of Construction							
		Before 1940	1940 to 1949	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2005
<b>Total</b> .....	111.1	14.7	7.4	12.5	12.5	18.9	18.6	17.3	9.2
<b>Do Not Have Cooling Equipment</b> .....	17.8	3.9	1.8	2.2	2.1	3.1	2.6	1.7	0.4
<b>Have Cooling Equipment</b> .....	93.3	10.8	5.6	10.3	10.4	15.8	16.0	15.6	8.8
Use Cooling Equipment.....	91.4	10.6	5.5	10.3	10.3	15.3	15.7	15.3	8.6
Have Equipment But Do Not Use it.....	1.9	Q	Q	Q	Q	0.6	0.4	0.3	Q
<b>Type of Air-Conditioning Equipment<sup>1, 2</sup></b>									
<b>Central System</b> .....	65.9	3.7	2.6	6.1	6.8	11.2	13.2	13.9	8.2
Without a Heat Pump.....	53.5	3.6	2.3	5.5	5.8	9.5	10.1	10.3	6.4
With a Heat Pump.....	12.3	Q	0.3	0.6	1.0	1.7	3.1	3.6	1.7
<b>Window/Wall Units</b> .....	28.9	7.3	3.2	4.5	3.7	4.8	3.0	1.9	0.7
1 Unit.....	14.5	3.1	1.6	1.9	1.8	2.7	1.8	1.0	0.5
2 Units.....	9.1	2.3	1.0	1.8	1.2	1.5	0.7	0.5	Q
3 or More Units.....	5.4	1.9	0.5	0.8	0.7	0.6	0.4	0.4	Q
<b>Central Air-Conditioning Usage</b>									
<b>Air-Conditioned Floorspace (Square Feet)</b>									
None.....	45.2	10.9	4.8	6.4	5.7	7.7	5.3	3.4	1.1
1 to 499.....	3.9	Q	Q	0.4	0.3	1.0	1.0	0.6	0.4
500 to 999.....	15.0	1.0	0.6	1.2	1.5	2.6	4.1	2.9	1.1
1,000 to 1,499.....	15.6	0.9	0.8	1.8	1.7	2.7	2.5	3.5	1.7
1,500 to 1,999.....	11.1	0.5	0.6	1.2	1.2	2.3	1.9	2.0	1.4
2,000 to 2,499.....	7.0	0.3	Q	0.8	0.8	1.1	1.4	1.4	1.1
2,500 to 2,999.....	5.2	0.3	Q	0.4	0.7	0.5	1.0	1.3	0.8
3,000 or 3,499.....	2.7	0.3	Q	Q	Q	0.5	0.4	0.6	0.4
3,500 to 3,999.....	1.8	Q	Q	Q	Q	Q	0.3	0.6	0.4
4,000 or More.....	3.5	0.3	Q	Q	Q	0.3	0.6	1.1	0.8
<b>Number of Rooms Cooled by Central Air-Conditioning in Summer 2005</b>									
None.....	1.4	Q	Q	Q	Q	0.4	0.3	Q	Q
1.....	0.7	N	N	Q	Q	Q	Q	Q	Q
2.....	2.1	Q	Q	Q	Q	0.4	0.6	0.4	Q
3.....	7.5	0.5	0.3	0.6	0.6	1.5	2.1	1.3	0.6
4.....	7.9	0.5	0.3	0.5	0.7	1.5	1.6	2.1	0.6
5 or More.....	46.3	2.5	1.9	4.7	5.1	7.4	8.7	9.8	6.3
<b>Proportion of Rooms Air-Conditioned</b>									
None.....	1.4	Q	Q	Q	Q	0.4	0.3	Q	Q
Some, But Not all of the Rooms.....	8.4	0.9	0.5	0.7	0.7	1.4	1.6	1.7	0.8
All of the Rooms.....	56.1	2.8	2.1	5.3	6.0	9.5	11.3	12.0	7.2
<b>Frequency of Central Air-Conditioner Use</b>									
Never.....	1.4	Q	Q	Q	Q	0.4	0.3	Q	Q
Only a Few Times When Needed.....	11.4	0.9	0.7	1.3	1.1	2.1	2.3	2.1	0.9
Quite a Bit.....	12.6	1.0	0.5	1.2	1.6	1.9	2.6	2.5	1.4
All Summer.....	40.5	1.7	1.4	3.5	4.1	6.8	8.1	9.2	5.7

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**Million U.S. Housing Units**

Air Conditioning Usage Indicators	Housing Units (millions)	Year of Construction							
		Before 1940	1940 to 1949	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2005
<b>At Home Behavior</b>									
<b>Home Used for Business</b>									
Yes.....	6.4	0.4	Q	Q	0.6	1.2	1.1	1.8	1.0
No.....	59.5	3.3	2.5	5.9	6.2	10.1	12.2	12.1	7.2
<b>Someone Home All Day</b>									
Yes.....	32.7	1.9	1.5	3.5	3.3	5.8	5.8	6.8	4.1
No.....	33.1	1.8	1.2	2.6	3.5	5.4	7.5	7.2	4.0
<b>Housing Unit Characteristics Affecting Usage in Centrally Air-Conditioned Housing Units</b>									
<b>Large Tree(s) that Shade the Home</b>									
Yes.....	31.6	2.6	1.8	3.9	3.9	5.9	6.3	5.7	1.5
No.....	34.3	1.2	0.9	2.2	2.9	5.4	7.0	8.2	6.6
<b>Adequacy of Insulation</b>									
Well Insulated.....	29.5	1.5	0.9	2.3	2.7	4.1	5.8	7.2	5.1
Adequately Insulated.....	27.9	1.6	1.4	2.8	2.9	5.3	5.8	5.5	2.6
Poorly Insulated.....	7.3	0.6	0.4	0.9	1.1	1.6	1.3	1.0	0.4
No Insulation.....	0.3	Q	N	Q	N	Q	Q	Q	Q
Don't Know.....	0.9	Q	N	Q	Q	Q	Q	Q	Q
<b>Home Is Too Drafty During the Winter</b>									
Never.....	42.6	1.9	1.5	3.9	4.1	6.9	8.4	9.8	6.0
Some of the Time.....	16.3	1.3	0.8	1.5	1.8	3.2	3.5	2.9	1.3
Most of the Time.....	2.5	Q	Q	0.3	0.3	0.5	0.5	0.3	0.3
All of the Time.....	2.2	Q	Q	Q	0.4	0.4	0.3	0.4	Q
Don't Know.....	2.2	Q	Q	Q	Q	0.3	0.5	0.5	0.4
<b>Unusually High Ceilings</b>									
Yes.....	20.3	1.2	0.4	0.6	0.7	1.9	4.6	6.6	4.2
No.....	41.9	2.5	2.2	5.5	6.0	8.5	7.7	5.9	3.5
Not Asked (Mobile Homes).....	3.7	N	N	N	Q	0.9	1.0	1.4	0.4
<b>Cathedral Ceilings (In Housing Units with High Ceilings)</b>									
Yes.....	13.5	0.3	Q	Q	0.5	1.3	3.3	4.7	3.0
No.....	6.7	0.9	Q	0.4	0.2	0.6	1.3	1.9	1.2
<b>Type of Glass in Windows</b>									
Single-pane Glass.....	27.4	1.8	1.0	3.3	3.9	5.7	5.8	3.9	1.9
Double-pane Glass									
Without Low-e Coating.....	31.5	1.4	1.4	2.2	2.3	4.3	6.4	8.8	4.7
With Low-e Coating.....	5.8	0.5	0.3	0.4	0.5	1.1	0.7	1.1	1.4
Triple-pane Glass									
Without Low-e Coating.....	0.8	Q	Q	Q	Q	Q	Q	Q	Q
With Low-e Coating.....	Q	N	N	Q	Q	N	N	Q	Q
<b>Proportion of Windows Replaced</b>									
All.....	11.5	1.2	1.2	2.0	2.1	2.6	1.6	0.5	0.4
Some.....	11.1	1.4	0.6	1.7	1.4	2.0	2.3	1.3	Q
None.....	40.9	1.0	0.8	2.3	3.1	5.8	8.7	11.7	7.4

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		Before 1940	1940 to 1949	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2005
<b>Thermostats</b>									
<b>Thermostat Available During Summer</b>									
Yes.....	63.9	3.6	2.5	5.9	6.5	11.0	12.7	13.5	8.1
No.....	1.9	Q	Q	Q	0.3	0.2	0.5	0.4	Q
Do Not Use Central Air-Conditioning.....	45.2	10.9	4.8	6.4	5.7	7.7	5.3	3.4	1.1
<b>Use a Programmable Thermostat</b>									
Yes.....	25.0	1.5	1.2	2.2	2.3	4.0	4.9	4.9	4.0
No.....	38.9	2.1	1.4	3.6	4.2	7.0	7.8	8.7	4.1
<b>Use of Programmable Thermostats</b>									
<b>Adjusts Temperature During Day</b>									
Yes.....	15.1	1.0	0.7	1.5	1.2	2.4	3.2	2.9	2.3
No.....	9.9	0.5	0.4	0.7	1.1	1.6	1.8	2.0	1.7
<b>Adjusts Temperature at Night</b>									
Yes.....	15.4	0.9	0.7	1.4	1.2	2.5	3.2	2.9	2.4
No.....	9.6	0.6	0.4	0.8	1.1	1.4	1.7	1.9	1.6
Do Not Use Central Air-Conditioning.....	45.2	10.9	4.8	6.4	5.7	7.7	5.3	3.4	1.1
<b>Summer 2005 Temperature Settings</b>									
<b>Higher Temperature Settings</b>									
<b>Daytime When No One is Home</b>									
Yes.....	0.5	Q	Q	Q	Q	Q	Q	Q	Q
No.....	50.8	2.6	1.8	4.5	5.4	8.3	10.2	11.4	6.7
Unknown.....	14.5	1.1	0.8	1.6	1.4	2.8	2.9	2.5	1.3
Do Not Use Central Air-Conditioning.....	45.2	10.9	4.8	6.4	5.7	7.7	5.3	3.4	1.1
<b>At Night During Sleeping Hours</b>									
Yes.....	7.3	0.3	Q	0.6	0.5	1.2	1.4	1.7	1.4
No.....	44.3	2.3	1.7	3.9	5.0	7.2	8.9	9.8	5.5
Unknown.....	14.2	1.1	0.8	1.5	1.3	2.8	2.9	2.5	1.3
Do Not Use Central Air-Conditioning.....	45.2	10.9	4.8	6.4	5.7	7.7	5.3	3.4	1.1
<b>Daytime Setting When Someone is Home</b>									
Air Conditioner Turned On.....	52.0	2.6	1.8	4.6	5.5	8.5	10.4	11.5	6.9
69 Degrees or Less.....	4.8	0.3	0.3	0.4	0.6	0.8	1.1	0.9	0.4
70 Degrees.....	7.2	0.3	Q	0.7	0.7	1.2	1.5	1.4	1.2
71 to 73 Degrees.....	8.8	0.5	0.5	0.5	0.9	1.3	2.0	2.0	1.1
74 to 76 Degrees.....	16.5	1.0	0.5	1.5	1.7	3.1	3.0	3.6	2.1
77 to 79 Degrees.....	11.1	0.3	Q	1.1	1.2	1.8	2.0	2.5	1.8
80 Degrees or More.....	3.7	Q	Q	0.4	0.3	0.4	0.9	1.1	0.3
Don't Know/No Answer.....	1.1	Q	Q	Q	Q	Q	0.3	Q	Q
Do Not Use Central Air Conditioning.....	45.2	10.9	4.8	6.4	5.7	7.7	5.3	3.4	1.1
<b>Daytime Setting When No One is at Home</b>									
Air Conditioner Turned On.....	49.5	2.5	1.7	4.4	5.0	8.0	10.0	11.2	6.6
69 Degrees or Less.....	3.6	0.3	Q	0.3	0.4	0.6	0.8	0.7	0.3
70 Degrees.....	5.2	Q	Q	0.5	0.6	0.8	1.0	1.1	0.8
71 to 73 Degrees.....	6.0	0.3	Q	0.6	0.6	0.7	1.2	1.4	1.0
74 to 76 Degrees.....	13.8	0.7	0.6	1.1	1.5	2.5	2.6	3.0	1.6
77 to 79 Degrees.....	10.7	0.5	Q	1.1	1.0	1.9	2.0	2.5	1.7
80 Degrees or More.....	10.2	0.6	0.4	0.8	0.9	1.4	2.4	2.4	1.2
Don't Know/No Answer.....	1.6	Q	Q	Q	Q	0.3	0.4	0.2	Q
Air-Conditioner Turned Off.....	2.0	Q	Q	Q	0.4	0.5	0.4	Q	0.3
Do Not Use Central Air Conditioning.....	45.2	10.9	4.8	6.4	5.7	7.7	5.3	3.4	1.1

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		Before 1940	1940 to 1949	1950 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999	2000 to 2005
<b>Setting During Seeping Hours</b>									
Air Conditioner Turned On	51.0	2.6	1.8	4.5	5.5	8.3	10.2	11.4	6.8
69 Degrees or Less.....	5.7	0.3	Q	0.5	0.7	0.9	1.2	1.3	0.7
70 Degrees.....	7.7	0.5	Q	0.7	0.8	1.2	1.5	1.6	1.2
71 to 73 Degrees.....	8.3	0.4	0.3	0.6	0.9	1.3	1.6	1.9	1.3
74 to 76 Degrees.....	15.5	0.8	0.7	1.3	1.7	2.9	3.3	3.2	1.6
77 to 79 Degrees.....	9.7	0.3	Q	1.0	1.0	1.5	1.6	2.4	1.7
80 Degrees or More.....	4.1	Q	Q	0.4	0.4	0.4	1.0	1.1	Q
Don't Know/No Answer.....	1.3	Q	Q	Q	Q	0.3	0.4	Q	Q
Air-Conditioner Turned Off.....	0.8	Q	Q	Q	Q	Q	Q	Q	Q
Do Not Use Central Air Conditioning.....	45.2	10.9	4.8	6.4	5.7	7.7	5.3	3.4	1.1
<b>Dehumidifier Use Each Year</b>									
Use a Humidifier.....	13.3	2.1	1.2	2.1	1.8	1.7	1.9	1.7	0.9
1 to 3 Months Each Year.....	5.1	1.0	0.5	0.8	0.7	0.6	0.6	0.6	0.3
4 to 6 Months Each Year.....	4.4	0.6	0.4	0.9	0.5	0.6	0.7	0.4	Q
7 to 9 Months Each Year.....	0.9	Q	Q	Q	Q	Q	Q	Q	Q
10 to 11 Months.....	Q	Q	Q	N	Q	N	Q	Q	N
Turned on All Year Long.....	2.6	0.3	Q	0.3	0.5	0.3	0.3	0.5	Q
Do Not Use a Dehumidifier.....	97.8	12.6	6.2	10.4	10.7	17.2	16.7	15.7	8.3
<b>Window/Wall Air Conditioners</b>									
<b>Frequency Most Used Unit Was Used</b>									
Never.....	0.6	Q	Q	Q	Q	Q	Q	Q	Q
Only a Few Times When Needed.....	12.1	3.2	1.2	2.2	1.3	1.9	1.0	0.9	0.4
Quite a Bit.....	7.5	2.1	0.7	0.9	1.2	1.2	0.7	0.6	Q
All Summer.....	8.6	1.9	1.2	1.4	1.2	1.4	1.2	0.3	Q
<b>Energy Star Wall/Window (Most-Used) Unit</b>									
Yes.....	4.6	1.1	0.6	0.6	0.6	0.7	0.4	0.4	Q
No.....	2.7	0.8	0.2	0.3	0.3	0.3	0.5	Q	Q
Don't Know.....	7.0	1.8	0.9	1.1	0.7	1.3	0.7	0.3	0.3
Unit is More Than 4 Years Old.....	14.6	3.6	1.4	2.4	2.1	2.5	1.4	1.0	0.2
<b>Use a Swamp Cooler (Asked Only in Arid Areas)</b>									
Yes.....	3.4	0.3	Q	0.4	0.3	1.0	0.9	0.3	Q
No.....	41.9	3.2	2.8	3.8	4.4	7.7	8.6	7.4	3.9
Not Asked.....	65.8	11.2	4.4	8.2	7.7	10.2	9.1	9.7	5.3

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

2. 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.