

**Table HC4.7 Air-Conditioning Usage Indicators by Renter-Occupied Housing Unit, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	Housing Units (millions)	Renter-Occupied Housing Units (millions)	Type of Renter-Occupied Housing Unit				
			Single-Family Units		Apartments in Buildings With--		Mobile Homes
			Detached	Attached	2 to 4 Units	5 or More Units	
<b>Total</b> .....	111.1	33.0	8.0	3.4	5.9	14.4	1.2
<b>Do Not Have Cooling Equipment</b> .....	17.8	6.5	1.6	0.9	1.3	2.4	0.2
<b>Have Cooling Equipment</b> .....	93.3	26.5	6.5	2.5	4.6	12.0	1.0
Use Cooling Equipment.....	91.4	25.7	6.3	2.5	4.4	11.7	0.8
Have Equipment But Do Not Use it.....	1.9	0.8	Q	Q	0.2	0.3	Q
<b>Type of Air-Conditioning Equipment<sup>1, 2</sup></b>							
<b>Central System</b> .....	65.9	14.1	3.6	1.5	2.1	6.4	0.6
Without a Heat Pump.....	53.5	12.4	3.1	1.3	1.8	5.7	0.6
With a Heat Pump.....	12.3	1.7	0.6	Q	0.3	0.6	Q
<b>Window/Wall Units</b> .....	28.9	12.4	2.9	1.0	2.5	5.6	0.4
1 Unit.....	14.5	7.3	1.2	0.5	1.4	3.9	0.2
2 Units.....	9.1	3.6	0.9	0.4	0.9	1.3	Q
3 or More Units.....	5.4	1.6	0.8	Q	0.3	0.3	Q
<b>Central Air-Conditioning Usage</b>							
<b>Air-Conditioned Floorspace (Square Feet)</b>							
None.....	45.2	18.9	4.4	1.9	3.8	8.1	0.6
1 to 499.....	3.9	1.5	0.3	Q	0.3	0.6	Q
500 to 999.....	15.0	6.7	0.7	0.5	1.3	3.8	0.4
1,000 to 1,499.....	15.6	4.0	1.3	0.5	0.5	1.7	Q
1,500 to 1,999.....	11.1	1.0	0.5	Q	Q	Q	Q
2,000 to 2,499.....	7.0	0.4	0.3	Q	N	N	N
2,500 to 2,999.....	5.2	0.4	0.3	Q	N	Q	N
3,000 or 3,499.....	2.7	Q	Q	N	N	N	N
3,500 to 3,999.....	1.8	N	N	N	N	N	N
4,000 or More.....	3.5	Q	Q	N	N	N	N
<b>Number of Rooms Cooled by Central Air-Conditioning in Summer 2005</b>							
None.....	1.4	0.5	Q	Q	Q	Q	Q
1.....	0.7	0.5	Q	N	Q	0.4	N
2.....	2.1	0.9	Q	Q	Q	0.5	Q
3.....	7.5	2.8	Q	0.3	0.5	1.8	Q
4.....	7.9	3.4	0.3	0.5	0.5	2.0	Q
5 or More.....	46.3	5.9	2.8	0.6	0.9	1.5	Q
<b>Proportion of Rooms Air-Conditioned</b>							
None.....	1.4	0.5	Q	Q	Q	Q	Q
Some, But Not all of the Rooms.....	8.4	1.2	0.5	Q	Q	0.4	Q
All of the Rooms.....	56.1	12.4	3.0	1.3	1.9	5.8	0.4
<b>Frequency of Central Air-Conditioner Use</b>							
Never.....	1.4	0.5	Q	Q	Q	Q	Q
Only a Few Times When Needed.....	11.4	2.5	0.4	0.3	0.4	1.3	Q
Quite a Bit.....	12.6	2.9	0.5	0.4	0.3	1.6	Q
All Summer.....	40.5	8.1	2.6	0.7	1.2	3.3	0.3

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			Single-Family Units		Apartments in Buildings With--		Mobile Homes
			Detached	Attached	2 to 4 Units	5 or More Units	
<b>At Home Behavior</b>							
<b>Home Used for Business</b>							
Yes.....	6.4	0.7	Q	N	Q	0.3	N
No.....	59.5	13.4	3.3	1.5	2.0	6.1	0.6
<b>Someone Home All Day</b>							
Yes.....	32.7	5.8	1.7	0.6	1.0	2.2	0.2
No.....	33.1	8.4	1.9	0.9	1.0	4.2	0.3
<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	4.7	1.8	0.6	0.5	1.7	Q
No.....	34.3	9.4	1.8	0.9	1.6	4.7	0.3
<b>Adequacy of Insulation</b>							
Well Insulated.....	29.5	5.3	1.2	0.4	0.8	2.7	Q
Adequately Insulated.....	27.9	5.7	1.4	0.7	0.7	2.6	Q
Poorly Insulated.....	7.3	2.4	0.8	0.3	0.3	0.7	0.3
No Insulation.....	0.3	Q	Q	N	Q	Q	N
Don't Know.....	0.9	0.7	Q	Q	Q	Q	N
<b>Home Is Too Drafty During the Winter</b>							
Never.....	42.6	7.6	1.9	0.8	1.1	3.7	Q
Some of the Time.....	16.3	3.6	1.0	0.4	0.6	1.4	Q
Most of the Time.....	2.5	0.8	0.3	Q	Q	0.3	Q
All of the Time.....	2.2	0.9	0.2	Q	Q	0.4	Q
Don't Know.....	2.2	1.2	Q	Q	Q	0.6	Q
<b>Unusually High Ceilings</b>							
Yes.....	20.3	1.8	0.8	0.2	0.3	0.5	N
No.....	41.9	11.7	2.8	1.3	1.8	5.8	N
Not Asked (Mobile Homes).....	3.7	0.6	N	N	N	N	0.6
<b>Cathedral Ceilings (In Housing Units with High Ceilings)</b>							
Yes.....	13.5	1.0	0.4	Q	Q	0.4	N
No.....	6.7	0.8	0.4	Q	Q	Q	N
<b>Type of Glass in Windows</b>							
Single-pane Glass.....	27.4	9.2	2.5	1.0	1.5	3.9	0.4
Double-pane Glass							
Without Low-e Coating.....	31.5	4.6	1.0	0.5	0.6	2.3	Q
With Low-e Coating.....	5.8	Q	Q	N	N	Q	N
Triple-pane Glass							
Without Low-e Coating.....	0.8	Q	Q	N	N	Q	N
With Low-e Coating.....	Q	N	N	N	N	N	N
<b>Proportion of Windows Replaced</b>							
All.....	11.5	1.8	0.6	0.3	Q	0.5	N
Some.....	11.1	0.9	0.3	Q	Q	0.3	Q
None.....	40.9	9.6	2.5	0.8	1.2	4.7	0.4

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			Single-Family Units		Apartments in Buildings With--		Mobile Homes
			Detached	Attached	2 to 4 Units	5 or More Units	
<b>Thermostats</b>							
<b>Thermostat Available During Summer</b>							
Yes.....	63.9	13.5	3.5	1.4	2.0	6.1	0.5
No.....	1.9	0.6	Q	Q	Q	0.3	Q
Do Not Use Central Air-Conditioning.....	45.2	18.9	4.4	1.9	3.8	8.1	0.6
<b>Use a Programmable Thermostat</b>							
Yes.....	25.0	3.3	1.1	0.2	0.6	1.1	Q
No.....	38.9	10.2	2.3	1.2	1.4	4.9	0.4
<b>Use of Programmable Thermostats</b>							
<b>Adjusts Temperature During Day</b>							
Yes.....	15.1	1.8	0.6	Q	0.4	0.6	Q
No.....	9.9	1.5	0.5	Q	Q	0.5	Q
<b>Adjusts Temperature at Night</b>							
Yes.....	15.4	1.8	0.6	Q	0.4	0.6	Q
No.....	9.6	1.5	0.6	Q	Q	0.5	Q
Do Not Use Central Air-Conditioning.....	45.2	18.9	4.4	1.9	3.8	8.1	0.6
<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	N	Q	N
No.....	50.8	10.2	3.0	1.0	1.4	4.4	0.4
Unknown.....	14.5	3.7	0.6	0.4	0.7	1.8	Q
Do Not Use Central Air-Conditioning.....	45.2	18.9	4.4	1.9	3.8	8.1	0.6
<b>At Night During Sleeping Hours</b>							
Yes.....	7.3	0.6	Q	Q	Q	0.3	N
No.....	44.3	9.9	2.9	1.0	1.4	4.3	0.4
Unknown.....	14.2	3.6	0.5	0.4	0.7	1.7	Q
Do Not Use Central Air-Conditioning.....	45.2	18.9	4.4	1.9	3.8	8.1	0.6
<b>Daytime Setting When Someone is Home</b>							
Air Conditioner Turned On.....	52.0	10.6	3.1	1.1	1.4	4.6	0.4
69 Degrees or Less.....	4.8	1.6	0.3	Q	Q	0.8	Q
70 Degrees.....	7.2	2.0	0.4	0.2	0.3	1.1	N
71 to 73 Degrees.....	8.8	1.7	0.6	0.3	Q	0.5	Q
74 to 76 Degrees.....	16.5	3.5	1.2	0.3	0.5	1.3	Q
77 to 79 Degrees.....	11.1	1.3	0.4	Q	Q	0.6	N
80 Degrees or More.....	3.7	0.5	Q	Q	Q	0.3	N
Don't Know/No Answer.....	1.1	0.4	Q	Q	Q	Q	Q
Do Not Use Central Air Conditioning.....	45.2	18.9	4.4	1.9	3.8	8.1	0.6
<b>Setting When No One is at Home</b>							
Air Conditioner Turned On.....	49.5	9.8	2.9	1.0	1.3	4.2	0.4
69 Degrees or Less.....	3.6	1.1	0.3	Q	Q	0.5	Q
70 Degrees.....	5.2	1.6	0.3	0.2	Q	0.9	N
71 to 73 Degrees.....	6.0	1.3	0.5	Q	Q	0.4	Q
74 to 76 Degrees.....	13.8	3.0	0.9	0.3	0.4	1.2	Q
77 to 79 Degrees.....	10.7	1.5	0.6	Q	Q	0.7	N
80 Degrees or More.....	10.2	1.3	0.4	Q	Q	0.6	N
Don't Know/No Answer.....	1.6	0.6	Q	Q	Q	Q	Q
Air-Conditioner Turned Off.....	2.0	0.6	Q	Q	Q	0.4	Q
Do Not Use Central Air Conditioning.....	45.2	18.9	4.4	1.9	3.8	8.1	0.6

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			Detached	Attached	2 to 4 Units	5 or More Units	
<b>Setting During Seeping Hours</b>							
Air Conditioner Turned On	51.0	10.4	3.0	1.0	1.3	4.6	0.4
69 Degrees or Less.....	5.7	1.5	0.3	Q	Q	0.7	Q
70 Degrees.....	7.7	2.0	0.4	0.2	Q	1.1	N
71 to 73 Degrees.....	8.3	1.6	0.6	0.3	0.3	0.4	Q
74 to 76 Degrees.....	15.5	3.3	1.0	0.2	0.5	1.3	Q
77 to 79 Degrees.....	9.7	1.3	0.4	Q	Q	0.7	N
80 Degrees or More.....	4.1	0.6	Q	Q	N	0.3	Q
Don't Know/No Answer.....	1.3	0.4	Q	Q	Q	Q	Q
Air-Conditioner Turned Off.....	0.8	0.2	Q	Q	Q	Q	N
Do Not Use Central Air Conditioning.....	45.2	18.9	4.4	1.9	3.8	8.1	0.6
<b>Dehumidifier Use Each Year</b>							
Use a Humidifier.....	13.3	1.2	0.6	Q	Q	0.3	Q
1 to 3 Months Each Year.....	5.1	0.6	0.2	Q	Q	Q	N
4 to 6 Months Each Year.....	4.4	0.3	Q	N	Q	Q	Q
7 to 9 Months Each Year.....	0.9	Q	Q	N	N	N	N
10 to 11 Months.....	Q	N	N	N	N	N	N
Turned on All Year Long.....	2.6	0.3	Q	Q	N	Q	N
Do Not Use a Dehumidifier.....	97.8	31.8	7.4	3.3	5.8	14.2	1.2
<b>Window/Wall Air Conditioners</b>							
<b>Frequency Most Used Unit Was Used</b>							
Never.....	0.6	0.3	Q	N	Q	Q	Q
Only a Few Times When Needed.....	12.1	4.9	1.2	0.3	0.9	2.4	Q
Quite a Bit.....	7.5	3.0	0.7	0.2	0.6	1.3	Q
All Summer.....	8.6	4.3	1.0	0.5	0.9	1.8	Q
<b>Energy Star Wall/Window (Most-Used) Unit</b>							
Yes.....	4.6	1.7	0.4	Q	0.4	0.6	Q
No.....	2.7	1.3	0.3	Q	0.4	0.5	Q
Don't Know.....	7.0	3.3	0.6	0.2	0.9	1.5	Q
Unit is More Than 4 Years Old.....	14.6	6.2	1.5	0.5	0.9	3.1	0.2
<b>Use a Swamp Cooler (Asked Only in Arid Areas)</b>							
Yes.....	3.4	0.7	0.3	Q	Q	Q	Q
No.....	41.9	12.7	3.7	1.1	2.2	5.2	0.6
Not Asked.....	65.8	19.5	4.1	2.3	3.6	9.1	0.5

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.