

Table HC3.7 Air-Conditioning Usage Indicators by Owner-Occupied Housing Unit, 2005
Million U.S. Housing Units

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	Owner-Occupied Housing Units (millions)	Type of Owner-Occupied Housing Unit				
			Single-Family Units		Apartments in Buildings With--		Mobile Homes
			Detached	Attached	2 to 4 Units	5 or More Units	
Total	111.1	78.1	64.1	4.2	1.8	2.3	5.7
Do Not Have Cooling Equipment	17.8	11.3	9.3	0.6	Q	0.4	0.9
Have Cooling Equipment	93.3	66.8	54.7	3.6	1.7	1.9	4.8
Use Cooling Equipment.....	91.4	65.8	54.0	3.6	1.7	1.9	4.7
Have Equipment But Do Not Use it.....	1.9	1.1	0.8	Q	N	Q	Q
Type of Air-Conditioning Equipment^{1, 2}							
Central System	65.9	51.7	43.9	2.5	0.7	1.6	3.1
Without a Heat Pump.....	53.5	41.1	34.8	2.1	0.5	1.2	2.6
With a Heat Pump.....	12.3	10.6	9.1	0.4	Q	0.3	0.6
Window/Wall Units	28.9	16.5	12.0	1.3	1.0	0.4	1.7
1 Unit.....	14.5	7.2	5.4	0.5	0.2	Q	0.9
2 Units.....	9.1	5.5	3.7	0.5	0.6	Q	0.6
3 or More Units.....	5.4	3.8	2.9	0.4	Q	N	0.2
Central Air-Conditioning Usage							
Air-Conditioned Floorspace (Square Feet)							
None.....	45.2	26.4	20.2	1.7	1.1	0.7	2.6
1 to 499.....	3.9	2.4	1.7	Q	Q	Q	0.4
500 to 999.....	15.0	8.3	6.1	0.5	Q	0.5	1.1
1,000 to 1,499.....	15.6	11.6	8.9	0.4	Q	0.6	1.3
1,500 to 1,999.....	11.1	10.2	9.4	0.4	Q	Q	Q
2,000 to 2,499.....	7.0	6.6	5.9	0.4	Q	Q	Q
2,500 to 2,999.....	5.2	4.8	4.5	Q	Q	Q	Q
3,000 or 3,499.....	2.7	2.6	2.6	Q	N	N	N
3,500 to 3,999.....	1.8	1.8	1.7	Q	N	Q	N
4,000 or More.....	3.5	3.4	3.2	Q	N	Q	N
Number of Rooms Cooled by Central Air-Conditioning in Summer 2005							
None.....	1.4	0.8	0.6	Q	N	Q	Q
1.....	0.7	Q	Q	N	N	Q	Q
2.....	2.1	1.2	0.9	Q	N	Q	Q
3.....	7.5	4.7	3.6	0.4	Q	Q	0.4
4.....	7.9	4.4	2.5	0.3	Q	0.6	0.8
5 or More.....	46.3	40.4	36.1	1.6	0.4	0.5	1.7
Proportion of Rooms Air-Conditioned							
None.....	1.4	0.8	0.6	Q	N	Q	Q
Some, But Not all of the Rooms.....	8.4	7.2	6.3	0.5	Q	Q	0.4
All of the Rooms.....	56.1	43.7	37.0	1.9	0.7	1.4	2.7
Frequency of Central Air-Conditioner Use							
Never.....	1.4	0.8	0.6	Q	N	Q	Q
Only a Few Times When Needed.....	11.4	8.8	7.0	0.9	Q	0.4	0.4
Quite a Bit.....	12.6	9.7	8.2	0.5	Q	Q	0.6
All Summer.....	40.5	32.3	28.1	1.0	0.4	0.9	2.0

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			Single-Family Units		Apartments in Buildings With--		Mobile Homes
			Detached	Attached	2 to 4 Units	5 or More Units	
At Home Behavior							
Home Used for Business							
Yes.....	6.4	5.7	5.1	Q	Q	Q	Q
No.....	59.5	46.0	38.7	2.2	0.7	1.5	2.9
Someone Home All Day							
Yes.....	32.7	27.0	23.2	1.1	0.3	0.8	1.5
No.....	33.1	24.8	20.6	1.4	0.4	0.7	1.6
Housing Unit Characteristics Affecting Usage in Centrally Air-Conditioned Housing Units							
Large Tree(s) that Shade the Home							
Yes.....	31.6	26.9	24.0	1.1	Q	0.4	1.2
No.....	34.3	24.9	19.9	1.4	0.5	1.2	1.9
Adequacy of Insulation							
Well Insulated.....	29.5	24.2	21.2	1.0	0.4	0.6	1.1
Adequately Insulated.....	27.9	22.2	18.5	1.3	Q	0.7	1.5
Poorly Insulated.....	7.3	4.9	3.9	Q	Q	Q	0.5
No Insulation.....	0.3	Q	Q	N	N	Q	Q
Don't Know.....	0.9	Q	Q	N	N	Q	Q
Home Is Too Drafty During the Winter							
Never.....	42.6	35.0	29.6	1.7	0.6	1.1	2.0
Some of the Time.....	16.3	12.6	10.9	0.6	Q	Q	0.7
Most of the Time.....	2.5	1.7	1.4	Q	N	Q	Q
All of the Time.....	2.2	1.3	1.0	Q	N	Q	Q
Don't Know.....	2.2	1.1	1.0	Q	N	Q	Q
Unusually High Ceilings							
Yes.....	20.3	18.5	16.9	1.1	Q	Q	N
No.....	41.9	30.1	27.0	1.4	0.5	1.3	N
Not Asked (Mobile Homes).....	3.7	3.1	N	N	N	N	3.1
Cathedral Ceilings (In Housing Units with High Ceilings)							
Yes.....	13.5	12.6	11.5	0.9	Q	Q	N
No.....	6.7	5.9	5.4	Q	Q	Q	N
Type of Glass in Windows							
Single-pane Glass.....	27.4	18.2	14.5	0.6	Q	0.8	2.1
Double-pane Glass							
Without Low-e Coating.....	31.5	26.9	23.1	1.6	0.4	0.7	1.1
With Low-e Coating.....	5.8	5.7	5.3	0.3	Q	Q	Q
Triple-pane Glass							
Without Low-e Coating.....	0.8	0.7	0.7	N	N	N	N
With Low-e Coating.....	Q	Q	Q	N	Q	N	N
Proportion of Windows Replaced							
All.....	11.5	9.7	8.6	0.6	Q	Q	Q
Some.....	11.1	10.2	9.5	0.3	Q	Q	0.3
None.....	40.9	31.3	25.3	1.5	0.6	1.2	2.6

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			Single-Family Units		Apartments in Buildings With--		Mobile Homes
			Detached	Attached	2 to 4 Units	5 or More Units	
Thermostats							
Thermostat Available During Summer							
Yes.....	63.9	50.4	42.9	2.3	0.6	1.6	3.1
No.....	1.9	1.3	0.9	Q	Q	N	Q
Do Not Use Central Air-Conditioning.....	45.2	26.4	20.2	1.7	1.1	0.7	2.6
Use a Programmable Thermostat							
Yes.....	25.0	21.7	19.4	1.1	Q	0.6	0.5
No.....	38.9	28.7	23.6	1.2	0.4	1.0	2.6
Use of Programmable Thermostats							
Adjusts Temperature During Day							
Yes.....	15.1	13.3	11.8	0.7	Q	0.4	0.3
No.....	9.9	8.4	7.6	0.4	Q	Q	Q
Adjusts Temperature at Night							
Yes.....	15.4	13.6	12.2	0.7	Q	0.4	0.3
No.....	9.6	8.1	7.2	0.4	Q	Q	Q
Do Not Use Central Air-Conditioning.....	45.2	26.4	20.2	1.7	1.1	0.7	2.6
Summer 2005 Temperature Settings							
Higher Temperature Settings							
Daytime When No One is Home							
Yes.....	0.5	Q	Q	N	N	Q	Q
No.....	50.8	40.7	35.1	1.5	0.5	1.0	2.5
Unknown.....	14.5	10.8	8.5	1.0	Q	0.5	0.6
Do Not Use Central Air-Conditioning.....	45.2	26.4	20.2	1.7	1.1	0.7	2.6
At Night During Sleeping Hours							
Yes.....	7.3	6.7	5.8	Q	Q	Q	0.5
No.....	44.3	34.4	29.6	1.3	0.5	1.0	2.1
Unknown.....	14.2	10.7	8.4	1.0	Q	0.5	0.6
Do Not Use Central Air-Conditioning.....	45.2	26.4	20.2	1.7	1.1	0.7	2.6
Daytime Setting When Someone is Home							
Air Conditioner Turned On.....	52.0	41.4	35.8	1.5	0.5	1.0	2.6
69 Degrees or Less.....	4.8	3.1	2.5	0.3	Q	Q	Q
70 Degrees.....	7.2	5.3	4.6	Q	N	Q	0.4
71 to 73 Degrees.....	8.8	7.1	6.1	0.3	Q	Q	0.5
74 to 76 Degrees.....	16.5	13.0	11.3	0.5	Q	Q	0.7
77 to 79 Degrees.....	11.1	9.7	8.4	Q	Q	Q	0.6
80 Degrees or More.....	3.7	3.2	2.8	Q	N	Q	Q
Don't Know/No Answer.....	1.1	0.6	0.5	Q	N	Q	Q
Do Not Use Central Air Conditioning.....	45.2	26.4	20.2	1.7	1.1	0.7	2.6
Setting When No One is at Home							
Air Conditioner Turned On.....	49.5	39.7	34.3	1.4	0.5	1.0	2.5
69 Degrees or Less.....	3.6	2.4	1.9	Q	Q	Q	Q
70 Degrees.....	5.2	3.6	3.0	Q	N	Q	0.3
71 to 73 Degrees.....	6.0	4.7	4.2	Q	N	Q	0.3
74 to 76 Degrees.....	13.8	10.8	9.3	0.4	Q	Q	0.6
77 to 79 Degrees.....	10.7	9.2	8.1	Q	Q	Q	0.6
80 Degrees or More.....	10.2	8.9	7.7	0.3	Q	Q	0.6
Don't Know/No Answer.....	1.6	1.0	0.8	Q	N	N	Q
Air-Conditioner Turned Off.....	2.0	1.4	1.2	Q	Q	Q	N
Do Not Use Central Air Conditioning.....	45.2	26.4	20.2	1.7	1.1	0.7	2.6

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			Single-Family Units		Apartments in Buildings With--		Mobile Homes
			Detached	Attached	2 to 4 Units	5 or More Units	
Setting During Seeping Hours							
Air Conditioner Turned On	51.0	40.6	35.0	1.5	0.5	1.1	2.5
69 Degrees or Less.....	5.7	4.2	3.4	0.3	Q	Q	0.2
70 Degrees.....	7.7	5.7	4.9	Q	N	Q	0.5
71 to 73 Degrees.....	8.3	6.7	5.7	0.3	Q	Q	0.5
74 to 76 Degrees.....	15.5	12.2	10.5	0.5	Q	0.4	0.6
77 to 79 Degrees.....	9.7	8.4	7.4	Q	Q	Q	0.4
80 Degrees or More.....	4.1	3.5	3.0	Q	N	Q	Q
Don't Know/No Answer.....	1.3	0.8	0.7	Q	N	N	Q
Air-Conditioner Turned Off.....	0.8	0.6	0.6	Q	N	N	Q
Do Not Use Central Air Conditioning.....	45.2	26.4	20.2	1.7	1.1	0.7	2.6
Dehumidifier Use Each Year							
Use a Humidifier.....	13.3	12.1	11.1	0.6	0.3	Q	Q
1 to 3 Months Each Year.....	5.1	4.5	4.1	Q	Q	Q	N
4 to 6 Months Each Year.....	4.4	4.2	3.8	0.3	Q	N	Q
7 to 9 Months Each Year.....	0.9	0.9	0.8	Q	Q	N	N
10 to 11 Months.....	Q	Q	Q	N	N	N	N
Turned on All Year Long.....	2.6	2.3	2.2	Q	Q	N	N
Do Not Use a Dehumidifier.....	97.8	66.0	53.0	3.6	1.5	2.2	5.7
Window/Wall Air Conditioners							
Frequency Most Used Unit Was Used							
Never.....	0.6	0.3	0.3	N	N	N	Q
Only a Few Times When Needed.....	12.1	7.2	5.4	0.6	0.5	Q	0.5
Quite a Bit.....	7.5	4.6	3.3	0.4	0.3	Q	0.5
All Summer.....	8.6	4.4	3.1	0.3	Q	Q	0.8
Energy Star Wall/Window (Most-Used) Unit							
Yes.....	4.6	2.9	2.0	0.2	Q	Q	0.4
No.....	2.7	1.4	0.9	Q	N	Q	0.3
Don't Know.....	7.0	3.7	2.7	0.3	0.4	Q	0.2
Unit is More Than 4 Years Old.....	14.6	8.4	6.4	0.6	0.4	Q	0.8
Use a Swamp Cooler (Asked Only in Arid Areas)							
Yes.....	3.4	2.6	1.7	Q	Q	N	0.7
No.....	41.9	29.1	24.5	1.1	Q	0.8	2.6
Not Asked.....	65.8	46.3	37.8	3.0	1.7	1.5	2.4

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.