

Table HC12.7 Air-Conditioning Usage Indicators by Midwest Census Region, 2005
Million U.S. Housing Units

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	Midwest Census Region		
		Total Midwest	Census Division	
			East North Central	West North Central
Total	111.1	25.6	17.7	7.9
Do Not Have Cooling Equipment	17.8	2.1	1.8	0.3
Have Cooling Equipment	93.3	23.5	16.0	7.5
Use Cooling Equipment.....	91.4	23.4	15.9	7.5
Have Equipment But Do Not Use it.....	1.9	Q	Q	Q
Type of Air-Conditioning Equipment^{1, 2}				
Central System	65.9	17.3	11.3	6.0
Without a Heat Pump.....	53.5	16.2	10.6	5.6
With a Heat Pump.....	12.3	1.1	0.8	0.4
Window/Wall Units	28.9	6.6	4.9	1.7
1 Unit.....	14.5	4.1	2.9	1.2
2 Units.....	9.1	1.8	1.4	0.3
3 or More Units.....	5.4	0.7	0.5	Q
Central Air-Conditioning Usage				
Air-Conditioned Floorspace (Square Feet)				
None.....	45.2	8.3	6.4	1.9
1 to 499.....	3.9	0.8	0.5	0.3
500 to 999.....	15.0	3.0	2.0	1.0
1,000 to 1,499.....	15.6	3.9	2.7	1.2
1,500 to 1,999.....	11.1	2.4	1.7	0.7
2,000 to 2,499.....	7.0	2.3	1.5	0.8
2,500 to 2,999.....	5.2	1.7	1.1	0.6
3,000 or 3,499.....	2.7	1.1	0.5	0.6
3,500 to 3,999.....	1.8	0.8	0.5	0.3
4,000 or More.....	3.5	1.4	0.9	0.4
Number of Rooms Cooled by Central Air-Conditioning in Summer 2005				
None.....	1.4	Q	Q	Q
1.....	0.7	Q	Q	N
2.....	2.1	0.4	0.3	Q
3.....	7.5	1.9	1.3	0.6
4.....	7.9	1.5	1.0	0.5
5 or More.....	46.3	13.2	8.6	4.6
Proportion of Rooms Air-Conditioned				
None.....	1.4	Q	Q	Q
Some, But Not all of the Rooms.....	8.4	2.3	1.6	0.7
All of the Rooms.....	56.1	14.9	9.7	5.2
Frequency of Central Air-Conditioner Use				
Never.....	1.4	Q	Q	Q
Only a Few Times When Needed.....	11.4	3.9	2.8	1.1
Quite a Bit.....	12.6	4.5	3.1	1.4
All Summer.....	40.5	8.8	5.4	3.4

Table HC12.7 Air-Conditioning Usage Indicators by Midwest Census Region, 2005
Million U.S. Housing Units

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	Midwest Census Region		
		Total Midwest	Census Division	
			East North Central	West North Central
At Home Behavior				
Home Used for Business				
Yes.....	6.4	1.7	1.0	0.7
No.....	59.5	15.6	10.3	5.3
Someone Home All Day				
Yes.....	32.7	8.4	5.4	3.1
No.....	33.1	8.9	5.9	2.9
Housing Unit Characteristics Affecting Usage in Centrally Air-Conditioned Housing Units				
Large Tree(s) that Shade the Home				
Yes.....	31.6	9.3	6.0	3.2
No.....	34.3	8.0	5.3	2.7
Adequacy of Insulation				
Well Insulated.....	29.5	8.2	5.3	2.9
Adequately Insulated.....	27.9	7.1	4.7	2.4
Poorly Insulated.....	7.3	1.7	1.1	0.6
No Insulation.....	0.3	Q	Q	N
Don't Know.....	0.9	0.3	Q	Q
Home Is Too Drafty During the Winter				
Never.....	42.6	10.7	6.9	3.8
Some of the Time.....	16.3	4.5	3.0	1.5
Most of the Time.....	2.5	0.7	0.6	Q
All of the Time.....	2.2	0.7	0.5	0.3
Don't Know.....	2.2	0.7	0.4	0.3
Unusually High Ceilings				
Yes.....	20.3	5.1	3.4	1.7
No.....	41.9	11.6	7.7	4.0
Not Asked (Mobile Homes).....	3.7	0.5	Q	0.3
Cathedral Ceilings (In Housing Units with High Ceilings)				
Yes.....	13.5	3.2	2.2	1.0
No.....	6.7	2.0	1.2	0.7
Type of Glass in Windows				
Single-pane Glass.....	27.4	4.6	2.7	2.0
Double-pane Glass				
Without Low-e Coating.....	31.5	9.8	6.7	3.1
With Low-e Coating.....	5.8	2.4	1.6	0.8
Triple-pane Glass				
Without Low-e Coating.....	0.8	0.3	Q	Q
With Low-e Coating.....	Q	Q	Q	Q
Proportion of Windows Replaced				
All.....	11.5	3.9	3.2	0.7
Some.....	11.1	3.7	2.6	1.1
None.....	40.9	9.3	5.3	4.0

Table HC12.7 Air-Conditioning Usage Indicators by Midwest Census Region, 2005
Million U.S. Housing Units

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	Midwest Census Region		
		Total Midwest	Census Division	
			East North Central	West North Central
Thermostats				
Thermostat Available During Summer				
Yes.....	63.9	17.0	11.0	5.9
No.....	1.9	0.3	0.3	Q
Do Not Use Central Air-Conditioning.....	45.2	8.3	6.4	1.9
Use a Programmable Thermostat				
Yes.....	25.0	6.8	4.8	2.0
No.....	38.9	10.1	6.3	3.9
Use of Programmable Thermostats				
Adjusts Temperature During Day				
Yes.....	15.1	3.8	2.5	1.2
No.....	9.9	3.0	2.2	0.8
Adjusts Temperature at Night				
Yes.....	15.4	4.0	2.7	1.3
No.....	9.6	2.8	2.1	0.7
Do Not Use Central Air-Conditioning.....	45.2	8.3	6.4	1.9
Summer 2005 Temperature Settings				
Higher Temperature Settings				
Daytime When No One is Home				
Yes.....	0.5	Q	Q	N
No.....	50.8	12.9	8.2	4.7
Unknown.....	14.5	4.4	3.1	1.2
Do Not Use Central Air-Conditioning.....	45.2	8.3	6.4	1.9
At Night During Sleeping Hours				
Yes.....	7.3	1.6	0.9	0.7
No.....	44.3	11.4	7.3	4.0
Unknown.....	14.2	4.3	3.1	1.2
Do Not Use Central Air-Conditioning.....	45.2	8.3	6.4	1.9
Daytime Setting When Someone is Home				
Air Conditioner Turned On.....	52.0	13.0	8.2	4.8
69 Degrees or Less.....	4.8	1.3	0.9	0.4
70 Degrees.....	7.2	1.9	1.0	0.8
71 to 73 Degrees.....	8.8	2.6	1.9	0.7
74 to 76 Degrees.....	16.5	4.2	2.8	1.4
77 to 79 Degrees.....	11.1	2.4	1.3	1.0
80 Degrees or More.....	3.7	0.6	Q	0.3
Don't Know/No Answer.....	1.1	0.3	Q	Q
Do Not Use Central Air Conditioning.....	45.2	8.3	6.4	1.9
Setting When No One is at Home				
Air Conditioner Turned On.....	49.5	12.6	7.9	4.7
69 Degrees or Less.....	3.6	0.9	0.7	Q
70 Degrees.....	5.2	1.4	0.8	0.6
71 to 73 Degrees.....	6.0	1.7	1.1	0.6
74 to 76 Degrees.....	13.8	4.1	2.7	1.4
77 to 79 Degrees.....	10.7	2.7	1.7	1.0
80 Degrees or More.....	10.2	1.8	0.8	1.0
Don't Know/No Answer.....	1.6	0.3	Q	Q
Air-Conditioner Turned Off.....	2.0	0.4	0.4	Q
Do Not Use Central Air Conditioning.....	45.2	8.3	6.4	1.9

Table HC12.7 Air-Conditioning Usage Indicators by Midwest Census Region, 2005
Million U.S. Housing Units

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	Midwest Census Region		
		Total Midwest	Census Division	
			East North Central	West North Central
Setting During Seeping Hours				
Air Conditioner Turned On	51.0	12.9	8.2	4.7
69 Degrees or Less.....	5.7	1.5	1.0	0.5
70 Degrees.....	7.7	2.0	1.3	0.8
71 to 73 Degrees.....	8.3	2.4	1.6	0.8
74 to 76 Degrees.....	15.5	4.1	2.8	1.3
77 to 79 Degrees.....	9.7	2.1	1.1	1.0
80 Degrees or More.....	4.1	0.8	0.5	0.3
Don't Know/No Answer.....	1.3	Q	Q	Q
Air-Conditioner Turned Off.....	0.8	Q	Q	Q
Do Not Use Central Air Conditioning.....	45.2	8.3	6.4	1.9
Dehumidifier Use Each Year				
Use a Humidifier.....	13.3	6.1	5.0	1.2
1 to 3 Months Each Year.....	5.1	2.5	1.9	0.5
4 to 6 Months Each Year.....	4.4	2.2	1.8	0.4
7 to 9 Months Each Year.....	0.9	0.5	0.4	Q
10 to 11 Months.....	Q	Q	Q	N
Turned on All Year Long.....	2.6	0.8	0.7	Q
Do Not Use a Dehumidifier.....	97.8	19.5	12.8	6.7
Window/Wall Air Conditioners				
Frequency Most Used Unit Was Used				
Never.....	0.6	Q	Q	N
Only a Few Times When Needed.....	12.1	3.1	2.4	0.7
Quite a Bit.....	7.5	1.6	1.2	0.4
All Summer.....	8.6	1.8	1.2	0.6
Energy Star Wall/Window (Most-Used) Unit				
Yes.....	4.6	0.8	0.7	Q
No.....	2.7	0.5	0.4	Q
Don't Know.....	7.0	1.7	1.1	0.5
Unit is More Than 4 Years Old.....	14.6	3.6	2.7	0.9
Use a Swamp Cooler (Asked Only in Arid Areas)				
Yes.....	3.4	Q	Q	N
No.....	41.9	2.1	2.0	Q
Not Asked.....	65.8	23.4	15.6	7.8

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.