Million U.S. Housing Units

U.S. Housing Units (millions)	-		Midwest Census Region			
Air Conditioning Usage Indicators		Housing Units	minwest Census Region			
Air Conditioning Usage Indicators	Air Conditioning Usage Indicators			Census Division		
Do Not Have Cooling Equipment				East North Central	West North Central	
Have Cooling Equipment	Total	111.1	25.6	17.7	7.9	
Use Cooling Equipment. 91.4 23.4 15.9 7.5 Have Equipment But Do Not Use it. 1.9 Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Do Not Have Cooling Equipment	17.8	2.1	1.8	0.3	
Have Equipment But Do Not Use it.	•				7.5	
Type of Air-Conditioning Equipment 1, 2 Central System	Use Cooling Equipment	91.4	23.4	15.9	7.5	
Central System 65.9 17.3 11.3 66.6 Without a Heat Pump 53.5 16.2 10.6 55.5 With a Heat Pump 12.3 1.1 0.8 0.0 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 0.0 3 or More Units 5.4 0.7 0.5 0.5 Central Air-Conditioning Usage Air-Conditioned Floorspace (Square Feet) 8.3 6.4 1.1 None 45.2 8.3 6.4 1.1 1 d 499 3.9 0.8 0.5 0.0 1,500 to 999 15.6 3.9 2.7 1.1 1,500 to 1,499 15.6 3.9 2.7 1.1 1,500 to 1,999 1.1 2 1.7 1.1 0.0 2,500 to 2,999 5.2 1.7 1.1 0.5 0.0 3,500 to 3,999 <td>Have Equipment But Do Not Use it</td> <td>1.9</td> <td>Q</td> <td>Q</td> <td>Q</td>	Have Equipment But Do Not Use it	1.9	Q	Q	Q	
Without a Heat Pump. 53.5 16.2 10.6 5.5 With a Heat Pump. 12.3 1.1 0.8 0.3 Window/Wall Units. 28.9 6.6 4.9 1.1 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 0.5 Central Air-Conditioning Usage Air-Condition 1.99 15.0 3.0 2.0 1.1 1,000 to 1,499 15.6 3.9 2.7 1.1 1,500 to 1,999 11.1 2.4 1.7 0.0 2,500 to 2,999 5.2 1.7 1.1 0.0 3,500 to 3,999 1.8 0.8 0.5 0.0 Air-Condit						
With a Heat Pump. 12.3 1.1 0.8 0.0 Window/Wall Units. 28.9 6.6 4.9 1.1 1 Unit. 14.5 4.1 2.9 1.2 2 Units. 9.1 1.8 1.4 0.5 3 or More Units. 5.4 0.7 0.5 C 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 0.0 500 to 999. 15.0 3.0 2.0 1.1 1,000 to 1,499. 15.6 3.9 2.7 1.1 1,500 to 1,999. 11.1 2.4 1.7 0.0 2,000 to 2,499. 7.0 2.3 1.5 0.0 3,500 to 3,999. 5.2 1.7 1.1 0.6 3,500 to 3,999. 1.8 0.8 0.5 0.0 4,000 or More. 3.5 1.4 Q Q <th< td=""><td>Central System</td><td>65.9</td><td>17.3</td><td>11.3</td><td>6.0</td></th<>	Central System	65.9	17.3	11.3	6.0	
Window/Wall Units 28.9 6.6 4.9 1.1 1 Unit 14.5 4.1 2.9 1.2 2 Units 9.1 1.8 1.4 0.5 3 or More Units 5.4 0.7 0.5 0.5 Central Air-Conditioning Usage Air-Conditioned Floorspace (Square Feet) None 45.2 8.3 6.4 1.1 1 to 499 3.9 0.8 0.5 0.5 500 to 999 15.0 3.0 2.0 11 1,000 to 1,499 15.6 3.9 2.7 1. 1,500 to 1,999 11.1 2.4 1.7 0. 2,500 to 2,499 7.0 2.3 1.5 0.3 3,500 to 3,499 5.2 1.7 1.1 0.5 3,500 to 3,999 1.8 0.8 0.5 0.0 3,500 to 3,999 1.8 0.8 0.5 0.0 4,000 or More 3.5 1.4 0.9 0.0	Without a Heat Pump	53.5	16.2	10.6	5.6	
1 Unit	With a Heat Pump	12.3	1.1	0.8	0.4	
1 Unit	Window/Wall Units	28.9	6.6	4 9	1.7	
2 Units					1.2	
Solution Solution					0.3	
None					Q	
None	Central Air-Conditioning Usage					
1 to 499	Air-Conditioned Floorspace (Square Feet)					
15.0 3.0 2.0 1.0	None	45.2	8.3	6.4	1.9	
1,000 to 1,499	1 to 499	3.9	0.8	0.5	0.3	
1,500 to 1,999	500 to 999	15.0	3.0	2.0	1.0	
1,500 to 1,999 11.1 2.4 1.7 0.7 2,000 to 2,499 7.0 2.3 1.5 0.4 2,500 to 2,999 5.2 1.7 1.1 0.5 3,000 or 3,499 2.7 1.1 0.5 0.4 3,500 to 3,999 1.8 0.8 0.5 0.3 4,000 or More 3.5 1.4 0.9 0.9 Number of Rooms Cooled by Central Air-Conditioning in Summer 2005 3.5 1.4 0.9 0.0 None 1.4 Q Q Q 0.0 2 2.1 0.4 0.3 C 3 7.5 1.9 1.3 0.4 4 7.9 1.5 1.0 0.9 5 or More 46.3 13.2 8.6 4.4 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 <t< td=""><td>1,000 to 1,499</td><td>15.6</td><td>3.9</td><td>2.7</td><td>1.2</td></t<>	1,000 to 1,499	15.6	3.9	2.7	1.2	
2,500 to 2,999 5.2 1.7 1.1 0.1 3,000 or 3,499 2.7 1.1 0.5 0.4 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 O 1 0.7 Q Q I 2 2.1 0.4 0.3 C 2 2.1 0.4 0.3 C 3 7.5 1.9 1.3 0.0 4 7.9 1.5 1.0 0.3 5 or More 46.3 13.2 8.6 4.6 Proportion of Rooms Air-Conditioned None 1.4 Q Q C 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 5.3 Frequency of Central Air-Conditioner Use Never 1.4		11.1	2.4	1.7	0.7	
2,500 to 2,999	2.000 to 2.499	7.0	2.3	1.5	0.8	
3,000 or 3,499					0.6	
3,500 to 3,999					0.6	
4,000 or More					0.3	
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 0.0 4 7.9 1.5 1.0 0.3 5 or More 46.3 13.2 8.6 4.0 Proportion of Rooms Air-Conditioned None 1.4 Q Q Q Some, But Not all of the Rooms 8.4 2.3 1.6 0.3 All of the Rooms 56.1 14.9 9.7 5.3 Frequency of Central Air-Conditioner Use Never 1.4 Q Q Q Only a Few Times When Needed 11.4 3.9 2.8 1.5					0.4	
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 0.9 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 1.5	Number of Rooms Cooled by Central					
1 0.7 Q Q N 2 2.1 0.4 0.3 C 3 7.5 1.9 1.3 0.0 4 7.9 1.5 1.0 0.9 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 1.5	Air-Conditioning in Summer 2005					
2	None	1.4	Q	Q	Q	
3	1	0.7	Q	Q	N	
4	2	2.1	0.4	0.3	Q	
5 or More	3	7.5	1.9	1.3	0.6	
Proportion of Rooms Air-Conditioned None	4	7.9	1.5	1.0	0.5	
None	5 or More	46.3	13.2	8.6	4.6	
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		4.4	0			
All of the Rooms					Q	
Never 1.4 Q Q Q Only a Few Times When Needed 11.4 3.9 2.8 1.4					0.7 5.2	
Never 1.4 Q Q Q Only a Few Times When Needed 11.4 3.9 2.8 1.4						
Only a Few Times When Needed	• •	1 4	0	0	Q	
					1.1	
Quite a Dit					1.4	
					3.4	

Million U.S. Housing Units

Million U.S. Housing Units					
Air Conditioning Usage Indicators	U.S. Housing Units (millions)	Midwest Census Region			
		Total	Census Division		
		Midwest	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 n 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 With Low-e Coating	0.8 Q	0.3 Q	Q Q	Q Q	
•			_	_	
Proportion of Windows Replaced	11 E	2.0	2.0	0.7	
All Some	11.5 11.1	3.9 3.7	3.2 2.6	0. <i>7</i> 1.1	
None	40.9	9.3	5.3	4.0	
NULLE	40.9	9.3	5.3	4.0	

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 On 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	0.7	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	10.7	1.8	0.8	1.0
Don't Know/No Answer	1.6	0.3	0.8 Q	1.0 Q
Air-Conditioner Turned Off	2.0	0.3	0.4	Q
Do Not Use Central Air Conditioning	45.2	8.3	6.4	1.9
Po 1401 Ose Octival VII Collaborillid	40.4	0.3	U. 4	1.5

Million U.S. Housing Units

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	Midwest Census Region		
			Census Division	
		Total Midwest	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.9	Q Q	Q.3
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	8.0	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.	3.4 41.9	2.1	2.0	Q
Not Asked	65.8	23.4	2.0 15.6	7.8

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

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.

^{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.