

**Table HC2.7 Air Conditioning Usage Indicators by Type of Housing Unit, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	Housing Units (millions)	Type of 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	72.1	7.6	7.8	16.7	6.9
<b>Do Not Have Cooling Equipment</b> .....	17.8	10.9	1.5	1.5	2.8	1.2
<b>Have Cooling Equipment</b> .....	93.3	61.2	6.1	6.3	13.9	5.8
Use Cooling Equipment.....	91.4	60.3	6.0	6.1	13.5	5.5
Have Equipment But Do Not Use it.....	1.9	1.0	Q	0.2	0.4	Q
<b>Type of Air-Conditioning Equipment<sup>1, 2</sup></b>						
<b>Central System</b> .....	65.9	47.5	4.0	2.8	7.9	3.7
Without a Heat Pump.....	53.5	37.8	3.4	2.2	7.0	3.1
With a Heat Pump.....	12.3	9.7	0.6	0.5	1.0	0.6
<b>Window/Wall Units</b> .....	28.9	14.9	2.3	3.5	6.0	2.1
1 Unit.....	14.5	6.6	1.0	1.6	4.2	1.2
2 Units.....	9.1	4.6	0.9	1.4	1.5	0.6
3 or More Units.....	5.4	3.7	0.5	0.5	0.3	0.3
<b>Central Air-Conditioning Usage</b>						
<b>Air-Conditioned Floorspace (Square Feet)</b>						
None.....	45.2	24.6	3.6	5.0	8.8	3.2
1 to 499.....	3.9	2.0	0.3	0.4	0.8	0.5
500 to 999.....	15.0	6.8	1.1	1.4	4.3	1.5
1,000 to 1,499.....	15.6	10.2	1.0	0.8	2.3	1.3
1,500 to 1,999.....	11.1	9.9	0.5	Q	0.4	Q
2,000 to 2,499.....	7.0	6.1	0.6	Q	Q	Q
2,500 to 2,999.....	5.2	4.8	Q	Q	Q	Q
3,000 or 3,499.....	2.7	2.6	Q	N	N	N
3,500 to 3,999.....	1.8	1.7	Q	N	Q	N
4,000 or More.....	3.5	3.3	Q	N	Q	N
<b>Number of Rooms Centrally Air-Conditioned in Summer 2005</b>						
None.....	1.4	0.7	Q	Q	Q	Q
1.....	0.7	Q	N	Q	0.4	Q
2.....	2.1	1.0	Q	Q	0.7	0.2
3.....	7.5	3.8	0.7	0.6	2.0	0.4
4.....	7.9	2.8	0.8	0.6	2.6	1.0
5 or More.....	46.3	38.9	2.3	1.3	2.0	1.9
<b>Proportion of Rooms Air-Conditioned</b>						
None.....	1.4	0.7	Q	Q	Q	Q
Some, But Not all of the Rooms.....	8.4	6.7	0.7	Q	0.5	0.4
All of the Rooms.....	56.1	40.0	3.2	2.6	7.2	3.1
<b>Frequency of Central Air-Conditioner Use</b>						
Never.....	1.4	0.7	Q	Q	Q	Q
Only a Few Times When Needed.....	11.4	7.4	1.1	0.6	1.8	0.5
Quite a Bit.....	12.6	8.7	1.0	0.5	1.8	0.7
All Summer.....	40.5	30.7	1.8	1.6	4.1	2.3

**Table HC2.7 Air Conditioning Usage Indicators by Type of Housing Unit, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	Housing Units (millions)	Type of Housing Unit					Mobile Homes
		Single-Family Units		Apartments in Buildings With--			
		Detached	Attached	2 to 4 Units	5 or More Units		
<b>At Home Behavior</b>							
<b>Home Used for Business</b>							
Yes.....	6.4	5.4	Q	Q	0.4	Q	
No.....	59.5	42.0	3.7	2.6	7.6	3.5	
<b>Someone Home All Day</b>							
Yes.....	32.7	25.0	1.7	1.4	3.0	1.7	
No.....	33.1	22.5	2.3	1.4	5.0	2.0	
<b>Housing Unit Characteristics Affecting Usage</b>							
<b>Large Tree(s) that Shade the Home</b>							
Yes.....	31.6	25.7	1.7	0.7	2.0	1.4	
No.....	34.3	21.7	2.3	2.1	5.9	2.3	
<b>Adequacy of Insulation</b>							
Well Insulated.....	29.5	22.4	1.4	1.3	3.3	1.2	
Adequately Insulated.....	27.9	19.9	2.0	1.0	3.4	1.6	
Poorly Insulated.....	7.3	4.7	0.5	0.4	0.9	0.8	
No Insulation.....	0.3	Q	N	Q	Q	Q	
Don't Know.....	0.9	0.3	Q	Q	0.3	Q	
<b>Home Is Too Drafty During the Winter</b>							
Never.....	42.6	31.5	2.5	1.7	4.8	2.2	
Some of the Time.....	16.3	11.9	1.1	0.7	1.7	1.0	
Most of the Time.....	2.5	1.7	Q	Q	0.4	Q	
All of the Time.....	2.2	1.2	0.2	Q	0.4	Q	
Don't Know.....	2.2	1.2	Q	Q	0.7	Q	
<b>Unusually High Ceilings</b>							
Yes.....	20.3	17.7	1.3	0.5	0.8	N	
No.....	41.9	29.8	2.6	2.3	7.1	N	
Not Asked (Mobile Homes).....	3.7	N	N	N	N	3.7	
<b>Cathedral Ceilings</b> (In Housing Units with High Ceilings)							
Yes.....	13.5	11.9	1.0	Q	0.5	N	
No.....	6.7	5.8	0.3	0.3	0.3	N	
<b>Type of Glass in Windows</b>							
Single-pane Glass.....	27.4	16.9	1.5	1.7	4.7	2.5	
Double-pane Glass							
Without Low-e Coating.....	31.5	24.1	2.2	1.0	3.0	1.2	
With Low-e Coating.....	5.8	5.5	0.3	Q	Q	Q	
Triple-pane Glass							
Without Low-e Coating.....	0.8	0.7	N	N	Q	N	
With Low-e Coating.....	Q	Q	N	Q	N	N	
<b>Proportion of Windows Replaced</b>							
All.....	11.5	9.2	0.9	Q	0.7	Q	
Some.....	11.1	9.8	0.4	Q	0.4	0.4	
None.....	40.9	27.9	2.3	1.8	5.9	3.0	

**Table HC2.7 Air Conditioning Usage Indicators by Type of Housing Unit, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	Housing Units (millions)	Type of Housing Unit				
		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	46.4	3.7	2.5	7.6	3.6
No.....	1.9	1.1	Q	Q	0.3	Q
Do Not Use Central Air-Conditioning.....	45.2	24.6	3.6	5.0	8.8	3.2
<b>Use a Programmable Thermostat</b>						
Yes.....	25.0	20.5	1.3	0.8	1.7	0.6
No.....	38.9	25.9	2.4	1.7	5.9	3.0
<b>Use of Programmable Thermostats</b>						
<b>Reduces Temperature During Day</b>						
Yes.....	15.1	12.4	0.8	0.5	1.1	0.4
No.....	9.9	8.1	0.5	0.3	0.7	0.3
<b>Reduces Temperature at Night</b>						
Yes.....	15.4	12.7	0.8	0.5	1.0	0.4
No.....	9.6	7.8	0.5	0.3	0.7	0.2
Do Not Use Central Air-Conditioning.....	45.2	24.6	3.6	5.0	8.8	3.2
<b>Summer 2005 Temperature Settings</b>						
<b>Higher Temperature Settings</b>						
<b>Daytime When No One is Home</b>						
Yes.....	0.5	0.3	Q	N	Q	Q
No.....	50.8	38.1	2.5	1.9	5.4	2.9
Unknown.....	14.5	9.1	1.4	0.9	2.3	0.8
Do Not Use Central Air-Conditioning.....	45.2	24.6	3.6	5.0	8.8	3.2
<b>At Night During Sleeping Hours</b>						
Yes.....	7.3	6.0	0.3	Q	0.4	0.5
No.....	44.3	32.5	2.3	1.8	5.3	2.5
Unknown.....	14.2	9.0	1.4	0.8	2.3	0.8
Do Not Use Central Air-Conditioning.....	45.2	24.6	3.6	5.0	8.8	3.2
<b>Daytime Setting When Someone is Home</b>						
Air Conditioner Turned On.....	52.0	38.8	2.6	2.0	5.7	2.9
69 Degrees or Less.....	4.8	2.8	0.5	Q	1.0	0.3
70 Degrees.....	7.2	5.0	0.4	0.3	1.2	0.4
71 to 73 Degrees.....	8.8	6.7	0.6	0.3	0.7	0.5
74 to 76 Degrees.....	16.5	12.5	0.8	0.6	1.6	0.9
77 to 79 Degrees.....	11.1	8.8	0.3	0.4	0.9	0.6
80 Degrees or More.....	3.7	3.0	Q	Q	0.4	Q
Dont Know/No Answer.....	1.1	0.5	Q	Q	Q	Q
Do Not Use Central Air Conditioning.....	45.2	24.6	3.6	5.0	8.8	3.2
<b>Daytime Setting When No One is at Home</b>						
Air Conditioner Turned On.....	49.5	37.2	2.4	1.8	5.2	2.9
69 Degrees or Less.....	3.6	2.2	0.3	Q	0.6	0.2
70 Degrees.....	5.2	3.3	0.3	Q	1.0	0.3
71 to 73 Degrees.....	6.0	4.7	0.4	Q	0.4	0.3
74 to 76 Degrees.....	13.8	10.3	0.7	0.6	1.4	0.9
77 to 79 Degrees.....	10.7	8.6	Q	0.4	0.9	0.6
80 Degrees or More.....	10.2	8.1	0.5	Q	0.9	0.6
Dont Know/No Answer.....	1.6	0.9	Q	Q	Q	Q
Air-Conditioner Turned Off.....	2.0	1.3	Q	Q	0.5	Q
Do Not Use Central Air Conditioning.....	45.2	24.6	3.6	5.0	8.8	3.2

**Table HC2.7 Air Conditioning Usage Indicators by Type of Housing Unit, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	Housing Units (millions)	Type of Housing Unit				
		Single-Family Units		Apartments in Buildings With--		Mobile Homes
		Detached	Attached	2 to 4 Units	5 or More Units	
<b>Setting During Sleeping Hours</b>						
Air Conditioner Turned On	51.0	38.0	2.5	1.9	5.7	2.9
69 Degrees or Less.....	5.7	3.7	0.5	Q	0.9	0.4
70 Degrees.....	7.7	5.3	0.3	Q	1.2	0.5
71 to 73 Degrees.....	8.3	6.3	0.6	0.4	0.6	0.5
74 to 76 Degrees.....	15.5	11.6	0.7	0.6	1.8	0.8
77 to 79 Degrees.....	9.7	7.8	Q	0.3	0.9	0.4
80 Degrees or More.....	4.1	3.2	Q	N	0.4	0.3
Don't Know/No Answer.....	1.3	0.8	Q	Q	Q	Q
Air-Conditioner Turned Off.....	0.8	0.6	Q	Q	Q	Q
Do Not Use Central Air Conditioning.....	45.2	24.6	3.6	5.0	8.8	3.2
<b>Dehumidifier Use Each Year</b>						
Use a Humidifier.....	13.3	11.7	0.8	0.5	0.3	Q
1 to 3 Months Each Year.....	5.1	4.3	0.2	0.3	0.3	N
4 to 6 Months Each Year.....	4.4	4.0	0.3	Q	Q	Q
7 to 9 Months Each Year.....	0.9	0.9	Q	Q	N	N
10 to 11 Months.....	Q	Q	N	N	N	N
Turned on All Year Long.....	2.6	2.3	Q	Q	Q	N
Do Not Use a Dehumidifier.....	97.8	60.4	6.8	7.3	16.4	6.9
<b>Window/Wall Air Conditioners</b>						
<b>Frequency Most Used Unit Was Used</b>						
Never.....	0.6	0.3	N	Q	Q	Q
Only a Few Times When Needed.....	12.1	6.6	0.9	1.4	2.5	0.6
Quite a Bit.....	7.5	4.0	0.7	0.9	1.4	0.6
All Summer.....	8.6	4.0	0.8	1.0	1.9	0.9
<b>Energy Star Wall/Window (Most-Used) Unit</b>						
Yes.....	4.6	2.4	0.4	0.5	0.7	0.5
No.....	2.7	1.2	0.2	0.4	0.5	0.4
Don't Know.....	7.0	3.3	0.6	1.3	1.6	0.2
Unit is More than 4 Years Old.....	14.6	7.9	1.2	1.3	3.2	1.0
<b>Use a Swamp Cooler (Asked Only in Arid Areas)</b>						
Yes.....	3.4	2.0	0.2	Q	Q	0.9
No.....	41.9	28.2	2.1	2.3	6.1	3.2
Not Asked.....	65.8	41.9	5.2	5.3	10.6	2.9

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.

**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	
<b>Total</b> .....	111.1	78.1	64.1	4.2	1.8	2.3	5.7
<b>Do Not Have Cooling Equipment</b> .....	17.8	11.3	9.3	0.6	Q	0.4	0.9
<b>Have Cooling Equipment</b> .....	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
<b>Type of Air-Conditioning Equipment<sup>1, 2</sup></b>							
<b>Central System</b> .....	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
<b>Window/Wall Units</b> .....	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
<b>Central Air-Conditioning Usage</b>							
<b>Air-Conditioned Floorspace (Square Feet)</b>							
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
<b>Number of Rooms Cooled by Central Air-Conditioning in Summer 2005</b>							
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
<b>Proportion of Rooms Air-Conditioned</b>							
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
<b>Frequency of Central Air-Conditioner Use</b>							
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

**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	
<b>At Home Behavior</b>							
<b>Home Used for Business</b>							
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
<b>Someone Home All Day</b>							
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
<b>Housing Unit Characteristics Affecting Usage</b>							
<b>Large Tree(s) that Shade the Home</b>							
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
<b>Adequacy of Insulation</b>							
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
<b>Home Is Too Drafty During the Winter</b>							
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
<b>Unusually High Ceilings</b>							
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
<b>Cathedral Ceilings</b> (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
<b>Type of Glass in Windows</b>							
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
<b>Proportion of Windows Replaced</b>							
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

**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	
<b>Thermostats</b>							
<b>Thermostat Available During Summer</b>							
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
<b>Use a Programmable Thermostat</b>							
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
<b>Use of Programmable Thermostats</b>							
<b>Adjusts Temperature During Day</b>							
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
<b>Adjusts Temperature at Night</b>							
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
<b>Summer 2005 Temperature Settings</b>							
<b>Higher Temperature Settings</b>							
<b>Daytime When No One is Home</b>							
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
<b>At Night During Sleeping Hours</b>							
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
<b>Daytime Setting When Someone is Home</b>							
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
Dont 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
<b>Setting When No One is at Home</b>							
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
Dont 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

**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	
<b>Setting During Seeping Hours</b>							
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
<b>Dehumidifier Use Each Year</b>							
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
<b>Window/Wall Air Conditioners</b>							
<b>Frequency Most Used Unit Was Used</b>							
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
<b>Energy Star Wall/Window (Most-Used) Unit</b>							
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
<b>Use a Swamp Cooler (Asked Only in Arid Areas)</b>							
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.



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

Air Conditioning Usage Indicators	U.S. 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

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

Air Conditioning Usage Indicators	U.S. 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>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</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

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

Air Conditioning Usage Indicators	U.S. 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>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
Dont 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
Dont 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

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

Air Conditioning Usage Indicators	U.S. 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>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.

**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

**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>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</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

**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>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
Dont 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 On 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
Dont 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

**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>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
Dont 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.



**Table HC6.7 Air-Conditioning Usage Indicators by Number of Household Members, 2005**  
**Million U.S. Housing Units**

Air-Conditioning Usage Indicators	Housing Units (millions)	Number of Households With --				
		1 Member	2 Members	3 Members	4 Members	5 or More Members
<b>Total</b> .....	111.1	30.0	34.8	18.4	15.9	12.0
<b>Do Not Have Cooling Equipment</b> .....	17.8	5.4	5.3	2.7	2.5	2.0
<b>Have Cooling Equipment</b> .....	93.3	24.6	29.6	15.7	13.4	10.0
Use Cooling Equipment.....	91.4	24.0	29.1	15.5	13.2	9.7
Have Equipment But Do Not Use it.....	1.9	0.6	0.5	Q	0.2	0.4
<b>Type of Air-Conditioning Equipment<sup>1, 2</sup></b>						
<b>Central System</b> .....	65.9	15.3	22.6	10.7	9.9	7.3
Without a Heat Pump.....	53.5	12.5	17.9	8.7	8.2	6.3
With a Heat Pump.....	12.3	2.7	4.8	2.0	1.8	1.0
<b>Window/Wall Units</b> .....	28.9	9.5	7.4	5.3	3.7	2.9
1 Unit.....	14.5	6.5	3.7	2.0	1.3	1.0
2 Units.....	9.1	2.2	2.5	1.8	1.5	1.1
3 or More Units.....	5.4	0.9	1.2	1.5	1.0	0.8
<b>Central Air-Conditioning Usage</b>						
<b>Air-Conditioned Floorspace (Square Feet)</b>						
None.....	45.2	14.8	12.2	7.7	5.9	4.7
1 to 499.....	3.9	1.6	1.3	0.5	0.3	0.3
500 to 999.....	15.0	5.6	5.0	2.2	1.4	0.9
1,000 to 1,499.....	15.6	3.8	5.9	2.1	2.2	1.6
1,500 to 1,999.....	11.1	2.0	3.5	2.1	2.0	1.5
2,000 to 2,499.....	7.0	0.8	2.6	1.2	1.3	1.0
2,500 to 2,999.....	5.2	0.7	1.8	1.0	0.8	0.9
3,000 or 3,499.....	2.7	0.4	1.1	0.6	0.5	Q
3,500 to 3,999.....	1.8	Q	0.4	0.3	0.6	0.3
4,000 or More.....	3.5	Q	1.1	0.8	0.7	0.6
<b>Number of Rooms Cooled by Central Air-Conditioning in Summer 2005</b>						
None.....	1.4	0.4	0.3	Q	Q	0.3
1.....	0.7	0.4	Q	Q	Q	Q
2.....	2.1	0.8	0.9	0.3	Q	Q
3.....	7.5	3.5	2.5	0.6	0.7	0.2
4.....	7.9	2.3	2.5	1.3	1.1	0.6
5 or More.....	46.3	8.0	16.2	8.2	7.9	6.0
<b>Proportion of Rooms Air-Conditioned</b>						
None.....	1.4	0.4	0.3	Q	Q	0.3
Some, But Not all of the Rooms.....	8.4	2.3	3.3	1.5	0.9	0.6
All of the Rooms.....	56.1	12.6	19.1	9.0	8.9	6.4
<b>Frequency of Central Air-Conditioner Use</b>						
Never.....	1.4	0.4	0.3	Q	Q	0.3
Only a Few Times When Needed.....	11.4	3.5	3.4	1.6	1.6	1.2
Quite a Bit.....	12.6	2.9	4.5	2.0	2.0	1.2
All Summer.....	40.5	8.5	14.4	6.9	6.2	4.5

**Table HC6.7 Air-Conditioning Usage Indicators by Number of Household Members, 2005  
Million U.S. Housing Units**

Air-Conditioning Usage Indicators	Housing Units (millions)	Number of Households With --				
		1 Member	2 Members	3 Members	4 Members	5 or More Members
<b>At Home Behavior</b>						
<b>Home Used for Business</b>						
Yes.....	6.4	0.9	2.2	1.3	1.3	0.7
No.....	59.5	14.4	20.4	9.5	8.6	6.5
<b>Someone Home All Day</b>						
Yes.....	32.7	6.3	11.9	5.0	4.9	4.6
No.....	33.1	9.0	10.7	5.8	5.0	2.7
<b>Housing Unit Characteristics Affecting Usage</b>						
<b>Large Tree(s) that Shade the Home</b>						
Yes.....	31.6	6.4	12.0	4.9	4.7	3.5
No.....	34.3	8.8	10.6	5.8	5.2	3.8
<b>Adequacy of Insulation</b>						
Well Insulated.....	29.5	6.8	10.6	4.7	4.2	3.1
Adequately Insulated.....	27.9	6.5	9.7	4.4	4.2	3.0
Poorly Insulated.....	7.3	1.6	2.1	1.4	1.4	0.9
No Insulation.....	0.3	Q	Q	Q	Q	Q
Don't Know.....	0.9	0.4	Q	Q	Q	Q
<b>Home Is Too Drafty During the Winter</b>						
Never.....	42.6	10.7	15.8	6.0	5.8	4.3
Some of the Time.....	16.3	3.1	5.0	3.3	2.8	2.0
Most of the Time.....	2.5	0.5	0.5	0.7	0.6	0.3
All of the Time.....	2.2	0.5	0.7	0.3	0.5	Q
Don't Know.....	2.2	0.5	0.7	0.4	0.3	0.4
<b>Unusually High Ceilings</b>						
Yes.....	20.3	3.6	6.7	3.7	3.6	2.6
No.....	41.9	10.4	14.9	6.5	5.7	4.4
Not Asked (Mobile Homes).....	3.7	1.2	1.0	0.5	0.6	0.3
<b>Cathedral Ceilings (In Housing Units with High Ceilings)</b>						
Yes.....	13.5	2.3	4.3	2.6	2.5	1.9
No.....	6.7	1.4	2.4	1.1	1.1	0.7
<b>Type of Glass in Windows</b>						
Single-pane Glass.....	27.4	7.7	8.7	4.3	3.9	2.9
Double-pane Glass						
Without Low-e Coating.....	31.5	6.6	10.8	5.1	5.3	3.7
With Low-e Coating.....	5.8	0.7	2.8	1.0	0.6	0.7
Triple-pane Glass						
Without Low-e Coating.....	0.8	Q	0.3	Q	Q	Q
With Low-e Coating.....	Q	N	Q	Q	Q	Q
<b>Proportion of Windows Replaced</b>						
All.....	11.5	2.5	4.4	1.7	1.5	1.4
Some.....	11.1	2.3	4.0	1.8	1.6	1.3
None.....	40.9	9.6	13.5	6.9	6.4	4.4

**Table HC6.7 Air-Conditioning Usage Indicators by Number of Household Members, 2005  
Million U.S. Housing Units**

Air-Conditioning Usage Indicators	Housing Units (millions)	Number of Households With --				
		1 Member	2 Members	3 Members	4 Members	5 or More Members
<b>Thermostats</b>						
<b>Thermostat Available During Summer</b>						
Yes.....	63.9	14.9	21.9	10.4	9.7	7.1
No.....	1.9	0.4	0.8	0.3	0.3	Q
Do Not Use Central Air-Conditioning.....	45.2	14.8	12.2	7.7	5.9	4.7
<b>Use a Programmable Thermostat</b>						
Yes.....	25.0	4.6	8.3	4.7	4.5	3.1
No.....	38.9	10.3	13.6	5.8	5.2	4.0
<b>Use of Programmable Thermostats</b>						
<b>Adjusts Temperature During Day</b>						
Yes.....	15.1	2.5	5.4	2.7	2.8	1.8
No.....	9.9	2.0	2.9	2.0	1.7	1.3
<b>Adjusts Temperature at Night</b>						
Yes.....	15.4	2.3	5.5	2.7	3.0	1.9
No.....	9.6	2.2	2.8	1.9	1.5	1.2
Do Not Use Central Air-Conditioning.....	45.2	14.8	12.2	7.7	5.9	4.7
<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
No.....	50.8	10.9	18.0	8.5	7.9	5.5
Unknown.....	14.5	4.2	4.5	2.0	2.1	1.7
Do Not Use Central Air-Conditioning.....	45.2	14.8	12.2	7.7	5.9	4.7
<b>At Night During Sleeping Hours</b>						
Yes.....	7.3	1.4	3.0	1.3	1.2	0.4
No.....	44.3	9.6	15.3	7.4	6.8	5.3
Unknown.....	14.2	4.3	4.4	2.0	2.0	1.6
Do Not Use Central Air-Conditioning.....	45.2	14.8	12.2	7.7	5.9	4.7
<b>Daytime Setting When Someone is Home</b>						
Air Conditioner Turned On.....	52.0	11.1	18.4	8.8	8.0	5.7
69 Degrees or Less.....	4.8	0.7	1.6	0.9	1.0	0.6
70 Degrees.....	7.2	1.5	2.4	1.2	1.3	0.8
71 to 73 Degrees.....	8.8	1.6	2.9	1.3	1.7	1.2
74 to 76 Degrees.....	16.5	3.3	6.1	2.9	2.3	1.9
77 to 79 Degrees.....	11.1	2.8	3.9	2.0	1.4	1.0
80 Degrees or More.....	3.7	1.2	1.5	0.4	0.4	Q
Dont Know/No Answer.....	1.1	0.3	0.5	Q	Q	Q
Do Not Use Central Air Conditioning.....	45.2	14.8	12.2	7.7	5.9	4.7
<b>Daytime Setting When No One is at Home</b>						
Air Conditioner Turned On.....	49.5	10.7	17.3	8.6	7.6	5.3
69 Degrees or Less.....	3.6	0.5	1.0	0.9	0.6	0.4
70 Degrees.....	5.2	0.9	1.9	0.9	0.9	0.5
71 to 73 Degrees.....	6.0	1.0	2.0	0.8	1.2	1.0
74 to 76 Degrees.....	13.8	2.9	5.0	2.3	1.9	1.6
77 to 79 Degrees.....	10.7	2.8	3.5	1.8	1.6	1.0
80 Degrees or More.....	10.2	2.5	3.8	1.9	1.3	0.7
Dont Know/No Answer.....	1.6	0.3	0.7	Q	0.3	Q
Air-Conditioner Turned Off.....	2.0	0.5	0.8	Q	0.3	0.2
Do Not Use Central Air Conditioning.....	45.2	14.8	12.2	7.7	5.9	4.7

**Table HC6.7 Air-Conditioning Usage Indicators by Number of Household Members, 2005**  
**Million U.S. Housing Units**

Air-Conditioning Usage Indicators	Housing Units (millions)	Number of Households With --				
		1 Member	2 Members	3 Members	4 Members	5 or More Members
<b>Setting During Seeping Hours</b>						
Air Conditioner Turned On	51.0	10.9	17.9	8.7	7.8	5.6
69 Degrees or Less.....	5.7	1.0	2.0	1.3	0.9	0.6
70 Degrees.....	7.7	1.6	2.6	1.2	1.5	0.7
71 to 73 Degrees.....	8.3	1.6	2.7	1.2	1.6	1.1
74 to 76 Degrees.....	15.5	3.0	5.7	2.6	2.3	1.9
77 to 79 Degrees.....	9.7	2.5	3.4	1.8	1.2	0.9
80 Degrees or More.....	4.1	1.3	1.5	0.5	0.4	0.4
Dont Know/No Answer.....	1.3	0.3	0.6	Q	Q	Q
Air-Conditioner Turned Off.....	0.8	Q	0.4	Q	Q	Q
Do Not Use Central Air Conditioning.....	45.2	14.8	12.2	7.7	5.9	4.7
<b>Dehumidifier Use Each Year</b>						
Use a Humidifier.....	13.3	2.2	5.1	2.5	2.0	1.4
1 to 3 Months Each Year.....	5.1	0.8	2.0	0.9	0.8	0.6
4 to 6 Months Each Year.....	4.4	0.9	1.8	0.9	0.6	Q
7 to 9 Months Each Year.....	0.9	Q	0.3	Q	Q	Q
10 to 11 Months.....	Q	N	Q	Q	Q	Q
Turned on All Year Long.....	2.6	0.3	0.9	0.6	0.4	0.4
Do Not Use a Dehumidifier.....	97.8	27.8	29.7	15.9	13.8	10.5
<b>Window/Wall Air Conditioners</b>						
<b>Frequency Most Used Unit Was Used</b>						
Never.....	0.6	Q	0.2	Q	Q	Q
Only a Few Times When Needed.....	12.1	4.6	3.1	1.7	1.5	1.1
Quite a Bit.....	7.5	2.4	1.9	1.6	0.8	0.8
All Summer.....	8.6	2.3	2.1	1.9	1.3	0.9
<b>Energy Star Wall/Window (Most-Used) Unit</b>						
Yes.....	4.6	1.3	1.2	0.9	0.7	0.4
No.....	2.7	0.8	0.7	0.4	0.3	0.5
Don't Know.....	7.0	1.9	2.0	1.2	1.0	0.8
Unit is More Than 4 Years Old.....	14.6	5.5	3.4	2.8	1.7	1.2
<b>Use a Swamp Cooler (Asked Only in Arid Areas)</b>						
Yes.....	3.4	0.9	0.8	0.6	0.5	0.5
No.....	41.9	10.8	12.9	6.7	6.3	5.1
Not Asked.....	65.8	18.3	21.1	11.1	9.0	6.3

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.

**Table HC7.7 Air-Conditioning Usage Indicators by Household Income, 2005**  
**Million U.S. Housing Units**

Air-Conditioning Usage Indicators	Housing Units (millions)	2005 Household Income					Below Poverty Line	Eligible for Federal Assistance <sup>1</sup>
		Less than \$20,000	\$20,000 to \$39,999	\$40,000 to \$59,999	\$60,000 to \$79,999	\$80,000 or More		
<b>Total</b> .....	111.1	26.7	28.8	20.6	13.1	22.0	16.6	38.6
<b>Do Not Have Cooling Equipment</b> .....	17.8	5.3	4.7	2.8	1.9	3.1	3.6	7.5
<b>Have Cooling Equipment</b> .....	93.3	21.5	24.1	17.8	11.2	18.8	13.0	31.1
Use Cooling Equipment.....	91.4	21.0	23.5	17.4	11.0	18.6	12.6	30.3
Have Equipment But Do Not Use it.....	1.9	0.5	0.6	0.4	Q	Q	0.5	0.8
<b>Type of Air-Conditioning Equipment<sup>1, 2</sup></b>								
<b>Central System</b> .....	65.9	11.0	16.5	13.5	8.7	16.1	6.4	17.2
Without a Heat Pump.....	53.5	9.4	13.6	10.7	7.1	12.7	5.4	14.5
With a Heat Pump.....	12.3	1.7	2.8	2.8	1.6	3.4	1.0	2.7
<b>Window/Wall Units</b> .....	28.9	10.5	8.1	4.5	2.7	3.1	6.7	14.1
1 Unit.....	14.5	5.8	4.3	2.0	1.1	1.3	3.4	7.4
2 Units.....	9.1	3.2	2.4	1.5	0.9	1.1	2.3	4.4
3 or More Units.....	5.4	1.6	1.4	1.0	0.7	0.8	1.1	2.4
<b>Central Air-Conditioning Usage</b>								
<b>Air-Conditioned Floorspace (Square Feet)</b>								
None.....	45.2	15.7	12.3	7.0	4.4	5.8	10.2	21.4
1 to 499.....	3.9	1.2	1.3	0.7	0.5	Q	1.0	1.5
500 to 999.....	15.0	4.5	4.4	2.8	1.5	1.9	2.5	5.8
1,000 to 1,499.....	15.6	3.0	4.5	4.1	1.8	2.2	1.8	4.6
1,500 to 1,999.....	11.1	1.3	3.1	2.3	1.6	2.9	0.6	2.6
2,000 to 2,499.....	7.0	0.5	1.3	1.5	1.3	2.4	0.2	1.2
2,500 to 2,999.....	5.2	Q	0.9	0.9	0.9	2.2	Q	0.6
3,000 or 3,499.....	2.7	Q	0.3	0.6	0.4	1.2	Q	0.3
3,500 to 3,999.....	1.8	Q	0.3	Q	0.3	1.0	Q	0.2
4,000 or More.....	3.5	Q	0.3	0.5	0.4	2.2	Q	0.4
<b>Number of Rooms Cooled by Central Air-Conditioning in Summer 2005</b>								
None.....	1.4	0.4	0.4	0.3	Q	Q	0.5	0.6
1.....	0.7	Q	Q	Q	Q	Q	Q	Q
2.....	2.1	0.5	0.8	0.5	Q	Q	0.4	0.7
3.....	7.5	2.2	1.7	1.4	0.9	1.3	1.3	2.5
4.....	7.9	2.2	2.5	1.2	0.6	1.3	1.2	3.1
5 or More.....	46.3	5.5	11.0	9.9	6.8	13.2	2.9	10.1
<b>Proportion of Rooms Air-Conditioned</b>								
None.....	1.4	0.4	0.4	0.3	Q	Q	0.5	0.6
Some, But Not all of the Rooms.....	8.4	1.4	1.9	1.6	1.0	2.5	0.9	1.9
All of the Rooms.....	56.1	9.2	14.2	11.6	7.5	13.5	5.0	14.7
<b>Frequency of Central Air-Conditioner Use</b>								
Never.....	1.4	0.4	0.4	0.3	Q	Q	0.5	0.6
Only a Few Times When Needed.....	11.4	2.4	2.9	2.0	1.5	2.6	1.2	3.6
Quite a Bit.....	12.6	1.8	3.4	2.3	2.0	3.1	1.1	3.1
All Summer.....	40.5	6.5	9.8	8.9	5.0	10.3	3.6	9.9

**Table HC7.7 Air-Conditioning Usage Indicators by Household Income, 2005**  
**Million U.S. Housing Units**

Air-Conditioning Usage Indicators	Housing Units (millions)	2005 Household Income					Below Poverty Line	Eligible for Federal Assistance <sup>1</sup>
		Less than \$20,000	\$20,000 to \$39,999	\$40,000 to \$59,999	\$60,000 to \$79,999	\$80,000 or More		
<b>At Home Behavior</b>								
<b>Home Used for Business</b>								
Yes.....	6.4	0.5	1.0	1.3	0.9	2.7	0.3	1.0
No.....	59.5	10.5	15.4	12.3	7.8	13.4	6.1	16.2
<b>Someone Home All Day</b>								
Yes.....	32.7	6.5	9.1	6.1	4.4	6.5	4.0	10.4
No.....	33.1	4.5	7.4	7.4	4.3	9.6	2.4	6.8
<b>Housing Unit Characteristics Affecting Usage</b>								
<b>Large Tree(s) that Shade the Home</b>								
Yes.....	31.6	4.8	7.8	6.8	4.2	8.0	2.8	7.7
No.....	34.3	6.2	8.7	6.7	4.5	8.1	3.7	9.5
<b>Adequacy of Insulation</b>								
Well Insulated.....	29.5	5.0	7.2	6.2	3.7	7.5	2.7	7.3
Adequately Insulated.....	27.9	4.3	6.5	5.8	4.0	7.3	2.4	6.7
Poorly Insulated.....	7.3	1.4	2.3	1.4	0.9	1.3	1.0	2.5
No Insulation.....	0.3	Q	Q	Q	Q	Q	Q	Q
Don't Know.....	0.9	0.3	0.4	Q	Q	Q	Q	0.5
<b>Home Is Too Drafty During the Winter</b>								
Never.....	42.6	7.4	10.7	8.8	5.2	10.6	4.1	11.0
Some of the Time.....	16.3	2.4	3.7	3.5	2.5	4.2	1.4	3.9
Most of the Time.....	2.5	0.5	0.7	0.4	0.4	0.6	0.4	0.8
All of the Time.....	2.2	0.4	0.8	0.3	0.3	0.3	0.3	0.8
Don't Know.....	2.2	0.3	0.6	0.5	0.3	0.5	0.3	0.7
<b>Unusually High Ceilings</b>								
Yes.....	20.3	1.2	3.2	3.8	3.5	8.6	0.7	2.4
No.....	41.9	8.7	11.7	9.1	5.0	7.4	5.0	13.2
Not Asked (Mobile Homes).....	3.7	1.1	1.6	0.6	Q	Q	0.7	1.7
<b>Cathedral Ceilings (In Housing Units with High Ceilings)</b>								
Yes.....	13.5	0.7	2.0	2.3	2.3	6.3	0.4	1.4
No.....	6.7	0.6	1.2	1.5	1.2	2.3	0.3	1.0
<b>Type of Glass in Windows</b>								
Single-pane Glass.....	27.4	6.2	8.0	5.7	2.8	4.6	3.8	9.1
Double-pane Glass								
Without Low-e Coating.....	31.5	4.5	7.1	6.6	4.5	8.8	2.4	7.4
With Low-e Coating.....	5.8	Q	1.1	1.1	1.2	2.4	Q	0.5
Triple-pane Glass								
Without Low-e Coating.....	0.8	Q	Q	Q	Q	Q	Q	Q
With Low-e Coating.....	Q	N	Q	N	N	Q	N	Q
<b>Proportion of Windows Replaced</b>								
All.....	11.5	2.1	3.0	2.0	2.1	2.4	1.1	3.4
Some.....	11.1	1.5	2.4	2.4	1.3	3.5	0.8	2.4
None.....	40.9	6.8	10.4	8.7	5.1	9.9	4.2	10.5

**Table HC7.7 Air-Conditioning Usage Indicators by Household Income, 2005**  
**Million U.S. Housing Units**

Air-Conditioning Usage Indicators	Housing Units (millions)	2005 Household Income					Below Poverty Line	Eligible for Federal Assistance <sup>1</sup>
		Less than \$20,000	\$20,000 to \$39,999	\$40,000 to \$59,999	\$60,000 to \$79,999	\$80,000 or More		
<b>Thermostats</b>								
<b>Thermostat Available During Summer</b>								
Yes.....	63.9	10.4	15.8	13.2	8.6	15.9	6.0	16.2
No.....	1.9	0.6	0.6	0.4	Q	Q	0.4	1.0
Do Not Use Central Air-Conditioning.....	45.2	15.7	12.3	7.0	4.4	5.8	10.2	21.4
<b>Use a Programmable Thermostat</b>								
Yes.....	25.0	2.6	4.8	5.1	4.0	8.5	1.5	4.4
No.....	38.9	7.8	11.0	8.1	4.6	7.4	4.5	11.8
<b>Use of Programmable Thermostats</b>								
<b>Adjusts Temperature During Day</b>								
Yes.....	15.1	1.2	3.0	3.0	2.6	5.3	0.7	2.4
No.....	9.9	1.3	1.9	2.1	1.4	3.2	0.8	2.1
<b>Adjusts Temperature at Night</b>								
Yes.....	15.4	1.2	3.1	3.2	2.4	5.5	0.7	2.4
No.....	9.6	1.4	1.7	1.9	1.6	3.0	0.8	2.0
Do Not Use Central Air-Conditioning.....	45.2	15.7	12.3	7.0	4.4	5.8	10.2	21.4
<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
No.....	50.8	7.7	12.5	10.8	6.7	13.1	4.3	12.2
Unknown.....	14.5	3.2	3.8	2.5	1.9	3.0	2.1	4.9
Do Not Use Central Air-Conditioning...	45.2	15.7	12.3	7.0	4.4	5.8	10.2	21.4
<b>At Night During Sleeping Hours</b>								
Yes	7.3	0.7	1.8	1.5	0.8	2.5	0.3	1.2
No.....	44.3	7.3	10.9	9.6	5.9	10.6	4.2	11.4
Unknown.....	14.2	3.1	3.8	2.5	1.9	3.0	1.9	4.7
Do Not Use Central Air-Conditioning.....	45.2	15.7	12.3	7.0	4.4	5.8	10.2	21.4
<b>Daytime Setting When Someone is Home</b>								
Air Conditioner Turned On.....	52.0	8.0	12.9	11.1	6.8	13.2	4.5	12.6
69 Degrees or Less.....	4.8	0.9	1.2	1.0	0.5	1.1	0.7	1.5
70 Degrees.....	7.2	1.2	2.2	1.2	1.0	1.6	0.8	2.4
71 to 73 Degrees.....	8.8	0.9	1.8	1.8	1.1	3.1	0.5	1.5
74 to 76 Degrees.....	16.5	2.5	3.8	3.7	2.3	4.2	1.4	3.8
77 to 79 Degrees.....	11.1	2.0	2.6	2.6	1.4	2.4	1.0	2.7
80 Degrees or More.....	3.7	0.4	1.2	0.7	0.5	0.9	Q	0.7
Dont Know/No Answer.....	1.1	0.3	0.3	Q	Q	Q	0.3	0.4
Do Not Use Central Air Conditioning.....	45.2	15.7	12.3	7.0	4.4	5.8	10.2	21.4
<b>Daytime Setting When No On is at Home</b>								
Air Conditioner Turned On.....	49.5	7.5	12.2	10.6	6.4	12.7	4.1	11.9
69 Degrees or Less.....	3.6	0.8	1.0	0.7	0.4	0.7	0.6	1.3
70 Degrees.....	5.2	0.9	1.6	0.8	0.8	1.0	0.6	1.8
71 to 73 Degrees.....	6.0	0.8	1.3	1.3	0.8	1.9	0.4	1.3
74 to 76 Degrees.....	13.8	2.0	3.4	3.2	1.6	3.6	1.2	3.3
77 to 79 Degrees.....	10.7	1.8	2.4	2.0	1.5	3.0	0.7	2.4
80 Degrees or More.....	10.2	1.3	2.5	2.6	1.2	2.6	0.7	1.9
Dont Know/No Answer.....	1.6	0.4	0.5	Q	0.3	Q	0.4	0.6
Air-Conditioner Turned Off.....	2.0	0.3	0.5	0.4	0.3	0.4	0.3	0.6
Do Not Use Central Air Conditioning.....	45.2	15.7	12.3	7.0	4.4	5.8	10.2	21.4

**Table HC7.7 Air-Conditioning Usage Indicators by Household Income, 2005**  
**Million U.S. Housing Units**

Air-Conditioning Usage Indicators	Housing Units (millions)	2005 Household Income					Below Poverty Line	Eligible for Federal Assistance <sup>1</sup>
		Less than \$20,000	\$20,000 to \$39,999	\$40,000 to \$59,999	\$60,000 to \$79,999	\$80,000 or More		
<b>Setting During Seeping Hours</b>								
Air Conditioner Turned On	51.0	8.0	12.6	10.8	6.6	13.0	4.4	12.6
69 Degrees or Less.....	5.7	1.0	1.5	1.2	0.6	1.5	0.7	1.5
70 Degrees.....	7.7	1.3	2.2	1.3	1.1	1.7	0.8	2.4
71 to 73 Degrees.....	8.3	1.0	1.7	1.7	0.9	2.9	0.5	1.7
74 to 76 Degrees.....	15.5	2.5	3.4	3.4	2.3	3.8	1.4	3.7
77 to 79 Degrees.....	9.7	1.6	2.5	2.4	1.3	2.0	0.8	2.3
80 Degrees or More.....	4.1	0.7	1.2	0.8	0.4	1.1	0.3	1.0
Dont Know/No Answer.....	1.3	0.2	0.5	Q	Q	Q	0.2	0.4
Air-Conditioner Turned Off.....	0.8	Q	Q	Q	Q	Q	Q	Q
Do Not Use Central Air Conditioning.....	45.2	15.7	12.3	7.0	4.4	5.8	10.2	21.4
<b>Dehumidifier Use Each Year</b>								
Use a Humidifier.....	13.3	1.6	2.9	2.4	2.1	4.3	0.7	3.0
1 to 3 Months Each Year.....	5.1	0.9	1.3	0.9	0.8	1.4	0.3	1.5
4 to 6 Months Each Year.....	4.4	0.4	0.9	0.9	0.7	1.5	Q	0.7
7 to 9 Months Each Year.....	0.9	Q	Q	Q	Q	0.4	Q	Q
10 to 11 Months.....	Q	N	Q	N	Q	Q	N	Q
Turned on All Year Long.....	2.6	0.2	0.5	0.5	0.4	1.0	Q	0.6
Do Not Use a Dehumidifier.....	97.8	25.1	25.9	18.2	11.0	17.7	16.0	35.6
<b>Window/Wall Air Conditioners</b>								
<b>Frequency Most Used Unit Was Used</b>								
Never.....	0.6	Q	Q	Q	Q	Q	Q	0.2
Only a Few Times When Needed.....	12.1	4.2	3.2	1.9	1.4	1.4	2.5	5.8
Quite a Bit.....	7.5	2.4	2.4	1.2	0.8	0.8	1.4	3.3
All Summer.....	8.6	3.7	2.3	1.2	0.6	0.8	2.7	4.8
<b>Energy Star Wall/Window (Most-Used) Unit</b>								
Yes.....	4.6	1.3	1.2	0.9	0.7	0.5	0.8	1.9
No.....	2.7	1.1	0.9	0.4	Q	0.2	0.7	1.6
Don't Know.....	7.0	2.3	1.9	1.1	0.7	1.0	1.6	3.3
Unit is More Than 4 Years Old.....	14.6	5.8	4.1	2.1	1.2	1.4	3.6	7.4
<b>Use a Swamp Cooler (Asked Only in Arid Areas)</b>								
Yes.....	3.4	1.0	0.9	0.5	0.4	0.5	0.8	1.4
No.....	41.9	9.2	10.8	8.5	4.7	8.7	6.3	13.3
Not Asked.....	65.8	16.5	17.0	11.5	8.0	12.8	9.6	23.9

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.



**Table HC8.7 Air-Conditioning Usage Indicators by Urban/Rural Location, 2005**  
**Million U.S. Housing Units**

Air-Conditioning Usage Indicators	Housing Units (millions)	Urban/Rural Location (as Self-Reported)			
		City	Town	Suburbs	Rural
<b>Total</b> .....	111.1	47.1	19.0	22.7	22.3
<b>Do Not Have Cooling Equipment</b> .....	17.8	8.5	2.7	2.6	4.0
<b>Have Cooling Equipment</b> .....	93.3	38.6	16.2	20.1	18.4
Use Cooling Equipment.....	91.4	37.8	15.9	19.8	18.0
Have Equipment But Do Not Use it.....	1.9	0.9	0.3	0.3	0.4
<b>Type of Air-Conditioning Equipment<sup>1, 2</sup></b>					
<b>Central System</b> .....	65.9	25.8	10.9	16.6	12.5
Without a Heat Pump.....	53.5	21.2	9.7	13.7	8.9
With a Heat Pump.....	12.3	4.6	1.2	2.8	3.6
<b>Window/Wall Units</b> .....	28.9	13.4	5.6	3.9	6.1
1 Unit.....	14.5	6.8	2.3	2.0	3.3
2 Units.....	9.1	4.1	1.9	1.2	1.9
3 or More Units.....	5.4	2.4	1.4	0.7	0.9
<b>Central Air-Conditioning Usage</b>					
<b>Air-Conditioned Floorspace (Square Feet)</b>					
None.....	45.2	21.3	8.0	6.1	9.8
1 to 499.....	3.9	2.1	0.8	0.6	0.5
500 to 999.....	15.0	7.5	2.6	3.0	2.0
1,000 to 1,499.....	15.6	6.7	2.7	3.3	2.8
1,500 to 1,999.....	11.1	4.5	1.9	2.3	2.4
2,000 to 2,499.....	7.0	1.8	1.2	2.6	1.4
2,500 to 2,999.....	5.2	1.6	0.6	2.0	1.0
3,000 or 3,499.....	2.7	0.5	0.4	1.0	0.9
3,500 to 3,999.....	1.8	0.4	0.3	0.6	0.5
4,000 or More.....	3.5	0.8	0.4	1.3	1.0
<b>Number of Rooms Cooled by Central Air-Conditioning in Summer 2005</b>					
None.....	1.4	0.7	Q	Q	Q
1.....	0.7	0.3	Q	Q	Q
2.....	2.1	0.7	0.4	0.5	0.4
3.....	7.5	3.7	1.2	1.6	1.1
4.....	7.9	3.6	1.6	1.4	1.2
5 or More.....	46.3	16.8	7.4	12.6	9.6
<b>Proportion of Rooms Air-Conditioned</b>					
None.....	1.4	0.7	Q	Q	Q
Some, But Not all of the Rooms.....	8.4	3.0	1.3	2.4	1.7
All of the Rooms.....	56.1	22.2	9.5	13.9	10.5
<b>Frequency of Central Air-Conditioner Use</b>					
Never.....	1.4	0.7	Q	Q	Q
Only a Few Times When Needed.....	11.4	4.9	1.8	2.9	1.8
Quite a Bit.....	12.6	4.9	2.1	3.1	2.5
All Summer.....	40.5	15.3	6.8	10.3	8.0

**Table HC8.7 Air-Conditioning Usage Indicators by Urban/Rural Location, 2005**  
**Million U.S. Housing Units**

Air-Conditioning Usage Indicators	Housing Units (millions)	Urban/Rural Location (as Self-Reported)			
		City	Town	Suburbs	Rural
<b>At Home Behavior</b>					
<b>Home Used for Business</b>					
Yes.....	6.4	1.8	0.8	1.9	2.0
No.....	59.5	24.0	10.1	14.7	10.6
<b>Someone Home All Day</b>					
Yes.....	32.7	11.5	6.2	8.1	7.0
No.....	33.1	14.3	4.7	8.5	5.6
<b>Housing Unit Characteristics Affecting Usage</b>					
<b>Large Tree(s) that Shade the Home</b>					
Yes.....	31.6	11.7	5.1	8.0	6.8
No.....	34.3	14.1	5.9	8.5	5.7
<b>Adequacy of Insulation</b>					
Well Insulated.....	29.5	10.2	4.8	7.5	6.9
Adequately Insulated.....	27.9	11.5	4.7	7.1	4.6
Poorly Insulated.....	7.3	3.3	1.2	1.9	1.0
No Insulation.....	0.3	Q	Q	Q	N
Don't Know.....	0.9	0.5	Q	Q	Q
<b>Home Is Too Drafty During the Winter</b>					
Never.....	42.6	16.4	7.1	10.3	8.9
Some of the Time.....	16.3	6.4	2.5	4.4	3.0
Most of the Time.....	2.5	1.2	0.5	0.6	0.2
All of the Time.....	2.2	1.0	0.4	0.5	0.3
Don't Know.....	2.2	0.8	0.5	0.8	Q
<b>Unusually High Ceilings</b>					
Yes.....	20.3	6.9	2.5	7.3	3.7
No.....	41.9	18.0	8.0	8.9	7.0
Not Asked (Mobile Homes).....	3.7	0.9	0.5	0.4	1.9
<b>Cathedral Ceilings</b> (In Housing Units with High Ceilings)					
Yes.....	13.5	4.7	1.5	5.1	2.3
No.....	6.7	2.2	0.9	2.2	1.4
<b>Type of Glass in Windows</b>					
Single-pane Glass.....	27.4	14.0	4.4	5.4	3.7
Double-pane Glass					
Without Low-e Coating.....	31.5	10.2	5.7	8.9	6.7
With Low-e Coating.....	5.8	1.4	0.6	2.1	1.8
Triple-pane Glass					
Without Low-e Coating.....	0.8	Q	Q	Q	Q
With Low-e Coating.....	Q	N	Q	Q	Q
<b>Proportion of Windows Replaced</b>					
All.....	11.5	4.0	2.3	3.1	2.0
Some.....	11.1	4.3	1.8	2.9	2.1
None.....	40.9	16.4	6.3	9.9	8.3

**Table HC8.7 Air-Conditioning Usage Indicators by Urban/Rural Location, 2005**  
**Million U.S. Housing Units**

Air-Conditioning Usage Indicators	Housing Units (millions)	Urban/Rural Location (as Self-Reported)			
		City	Town	Suburbs	Rural
<b>Thermostats</b>					
<b>Thermostat Available During Summer</b>					
Yes.....	63.9	25.1	10.5	16.1	12.2
No.....	1.9	0.7	0.5	0.5	0.3
Do Not Use Central Air-Conditioning.....	45.2	21.3	8.0	6.1	9.8
<b>Use a Programmable Thermostat</b>					
Yes.....	25.0	10.0	3.8	7.2	3.9
No.....	38.9	15.0	6.6	8.9	8.3
<b>Use of Programmable Thermostats</b>					
<b>Adjusts Temperature During Day</b>					
Yes.....	15.1	5.9	2.5	4.4	2.3
No.....	9.9	4.1	1.4	2.8	1.6
<b>Adjusts Temperature at Night</b>					
Yes.....	15.4	5.8	2.5	4.6	2.5
No.....	9.6	4.2	1.3	2.6	1.4
Do Not Use Central Air-Conditioning.....	45.2	21.3	8.0	6.1	9.8
<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
No.....	50.8	19.3	8.4	12.9	10.2
Unknown.....	14.5	6.2	2.4	3.5	2.3
Do Not Use Central Air-Conditioning.....	45.2	21.3	8.0	6.1	9.8
<b>At Night During Sleeping Hours</b>					
Yes	7.3	2.3	1.3	2.2	1.5
No.....	44.3	17.3	7.3	10.9	8.8
Unknown.....	14.2	6.1	2.3	3.5	2.3
Do Not Use Central Air-Conditioning.....	45.2	21.3	8.0	6.1	9.8
<b>Daytime Setting When Someone is Home</b>					
Air Conditioner Turned On.....	52.0	19.8	8.7	13.2	10.4
69 Degrees or Less.....	4.8	1.8	1.0	1.2	0.7
70 Degrees.....	7.2	3.0	1.3	1.5	1.4
71 to 73 Degrees.....	8.8	3.1	1.3	2.6	1.8
74 to 76 Degrees.....	16.5	5.4	3.1	4.2	3.7
77 to 79 Degrees.....	11.1	4.9	1.5	2.6	2.0
80 Degrees or More.....	3.7	1.6	0.4	1.0	0.7
Dont Know/No Answer.....	1.1	0.4	Q	0.3	Q
Do Not Use Central Air Conditioning.....	45.2	21.3	8.0	6.1	9.8
<b>Daytime Setting When No On is at Home</b>					
Air Conditioner Turned On.....	49.5	18.5	8.3	12.5	10.1
69 Degrees or Less.....	3.6	1.4	0.8	0.7	0.6
70 Degrees.....	5.2	2.3	0.8	1.1	1.0
71 to 73 Degrees.....	6.0	2.1	1.0	1.4	1.5
74 to 76 Degrees.....	13.8	4.5	2.4	3.7	3.2
77 to 79 Degrees.....	10.7	4.3	1.8	2.8	1.8
80 Degrees or More.....	10.2	4.0	1.4	2.8	2.1
Dont Know/No Answer.....	1.6	0.6	0.3	0.4	Q
Air-Conditioner Turned Off.....	2.0	1.1	0.3	0.5	Q
Do Not Use Central Air Conditioning.....	45.2	21.3	8.0	6.1	9.8

**Table HC8.7 Air-Conditioning Usage Indicators by Urban/Rural Location, 2005**  
**Million U.S. Housing Units**

Air-Conditioning Usage Indicators	Housing Units (millions)	Urban/Rural Location (as Self-Reported)			
		City	Town	Suburbs	Rural
<b>Setting During Seeping Hours</b>					
Air Conditioner Turned On	51.0	19.3	8.6	13.0	10.1
69 Degrees or Less.....	5.7	2.1	1.2	1.3	1.0
70 Degrees.....	7.7	3.1	1.3	1.8	1.6
71 to 73 Degrees.....	8.3	2.8	1.4	2.3	1.8
74 to 76 Degrees.....	15.5	5.4	2.7	4.1	3.2
77 to 79 Degrees.....	9.7	4.2	1.4	2.3	1.8
80 Degrees or More.....	4.1	1.7	0.6	1.2	0.7
Dont Know/No Answer.....	1.3	0.6	Q	0.3	0.3
Air-Conditioner Turned Off.....	0.8	0.4	Q	Q	Q
Do Not Use Central Air Conditioning.....	45.2	21.3	8.0	6.1	9.8
<b>Dehumidifier Use Each Year</b>					
Use a Humidifier.....	13.3	3.8	2.7	3.7	3.1
1 to 3 Months Each Year.....	5.1	1.6	1.4	1.4	0.8
4 to 6 Months Each Year.....	4.4	1.4	0.7	1.0	1.4
7 to 9 Months Each Year.....	0.9	Q	Q	0.4	Q
10 to 11 Months.....	Q	Q	N	Q	Q
Turned on All Year Long.....	2.6	0.6	0.5	0.8	0.6
Do Not Use a Dehumidifier.....	97.8	43.3	16.3	19.0	19.2
<b>Window/Wall Air Conditioners</b>					
<b>Frequency Most Used Unit Was Used</b>					
Never.....	0.6	0.3	Q	Q	Q
Only a Few Times When Needed.....	12.1	5.8	2.2	1.7	2.4
Quite a Bit.....	7.5	3.2	1.7	1.1	1.6
All Summer.....	8.6	4.1	1.5	1.0	2.0
<b>Energy Star Wall/Window (Most-Used) Unit</b>					
Yes.....	4.6	1.9	1.1	0.6	1.0
No.....	2.7	1.3	0.5	Q	0.6
Don't Know.....	7.0	3.7	1.1	1.0	1.2
Unit is More Than 4 Years Old.....	14.6	6.5	2.8	2.0	3.3
<b>Use a Swamp Cooler (Asked Only in Arid Areas)</b>					
Yes.....	3.4	1.8	0.3	0.4	0.8
No.....	41.9	19.6	5.6	8.6	8.0
Not Asked.....	65.8	25.6	13.0	13.7	13.5

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.

**Table HC9.7 Air-Conditioning Usage Indicators by Climate Zone, 2005**  
**Million U.S. Housing Units**

Air-Conditioning Usage Indicators	Housing Units (millions)	Climate Zone <sup>1</sup>				
		Less than 2,000 CDD and --				2,000 CDD or More and Less than 4,000 HDD
		Greater than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Less than 4,000 HDD	
<b>Total</b> .....	111.1	10.9	26.1	27.3	24.0	22.8
<b>Do Not Have Cooling Equipment</b> .....	17.8	3.2	4.7	3.6	5.5	0.9
<b>Have Cooling Equipment</b> .....	93.3	7.7	21.4	23.7	18.5	21.9
Use Cooling Equipment.....	91.4	7.6	21.0	23.4	17.9	21.7
Have Equipment But Do Not Use it.....	1.9	Q	0.4	0.4	0.6	0.3
<b>Type of Air-Conditioning Equipment<sup>2, 3</sup></b>						
<b>Central System</b> .....	65.9	4.8	12.3	15.1	14.9	18.7
Without a Heat Pump.....	53.5	4.7	11.5	11.6	12.3	13.6
With a Heat Pump.....	12.3	Q	0.9	3.5	2.7	5.2
<b>Window/Wall Units</b> .....	28.9	3.1	9.3	8.8	4.0	3.7
1 Unit.....	14.5	2.1	5.0	3.6	2.4	1.4
2 Units.....	9.1	0.7	2.9	3.3	1.0	1.2
3 or More Units.....	5.4	0.3	1.5	1.9	0.6	1.1
<b>Central Air-Conditioning Usage</b>						
<b>Air-Conditioned Floorspace (Square Feet)</b>						
None.....	45.2	6.2	13.7	12.2	9.0	4.1
1 to 499.....	3.9	Q	0.7	0.6	1.2	1.2
500 to 999.....	15.0	0.7	2.6	2.8	4.3	4.7
1,000 to 1,499.....	15.6	0.8	2.7	3.3	4.0	4.8
1,500 to 1,999.....	11.1	0.7	2.2	2.4	2.1	3.8
2,000 to 2,499.....	7.0	0.8	1.2	1.9	1.3	1.8
2,500 to 2,999.....	5.2	0.5	1.1	1.4	1.0	1.2
3,000 or 3,499.....	2.7	0.3	0.7	0.9	0.4	0.4
3,500 to 3,999.....	1.8	0.3	0.4	0.6	0.3	Q
4,000 or More.....	3.5	0.4	0.9	1.1	0.5	0.6
<b>Number of Rooms Cooled by Central Air-Conditioning in Summer 2005</b>						
None.....	1.4	Q	0.3	Q	0.6	0.2
1.....	0.7	N	Q	Q	Q	Q
2.....	2.1	Q	0.5	0.4	0.5	0.5
3.....	7.5	0.4	1.4	1.3	2.0	2.4
4.....	7.9	0.4	1.2	1.8	1.9	2.6
5 or More.....	46.3	3.7	8.9	11.2	9.9	12.7
<b>Proportion of Rooms Air-Conditioned</b>						
None.....	1.4	Q	0.3	Q	0.6	0.2
Some, But Not all of the Rooms.....	8.4	0.7	1.8	1.6	2.4	1.9
All of the Rooms.....	56.1	4.0	10.2	13.2	12.0	16.6
<b>Frequency of Central Air-Conditioner Use</b>						
Never.....	1.4	Q	0.3	Q	0.6	0.2
Only a Few Times When Needed.....	11.4	1.7	3.1	2.3	3.5	0.9
Quite a Bit.....	12.6	1.6	3.3	2.8	2.9	2.0
All Summer.....	40.5	1.4	5.6	9.8	8.0	15.6

**Table HC9.7 Air-Conditioning Usage Indicators by Climate Zone, 2005**  
**Million U.S. Housing Units**

Air-Conditioning Usage Indicators	Housing Units (millions)	Climate Zone <sup>1</sup>				
		Less than 2,000 CDD and --				2,000 CDD or More and Less than 4,000 HDD
		Greater than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Less than 4,000 HDD	
<b>At Home Behavior</b>						
<b>Home Used for Business</b>						
Yes.....	6.4	0.7	1.0	1.5	1.4	1.8
No.....	59.5	4.0	11.3	13.6	13.5	16.9
<b>Someone Home All Day</b>						
Yes.....	32.7	1.8	6.4	7.2	7.7	9.6
No.....	33.1	2.9	5.9	7.9	7.2	9.2
<b>Housing Unit Characteristics Affecting Usage</b>						
<b>Large Tree(s) that Shade the Home</b>						
Yes.....	31.6	2.6	5.8	7.9	7.1	8.2
No.....	34.3	2.1	6.6	7.1	7.9	10.6
<b>Adequacy of Insulation</b>						
Well Insulated.....	29.5	2.6	5.7	7.2	6.7	7.4
Adequately Insulated.....	27.9	1.8	5.3	5.8	6.5	8.6
Poorly Insulated.....	7.3	0.4	1.2	2.0	1.5	2.3
No Insulation.....	0.3	N	Q	Q	Q	Q
Don't Know.....	0.9	Q	Q	Q	Q	0.3
<b>Home Is Too Drafty During the Winter</b>						
Never.....	42.6	3.1	7.3	9.0	9.6	13.6
Some of the Time.....	16.3	1.2	3.5	4.1	3.9	3.4
Most of the Time.....	2.5	Q	0.6	0.6	0.6	0.6
All of the Time.....	2.2	Q	0.5	0.8	0.5	0.4
Don't Know.....	2.2	Q	0.4	0.5	0.3	0.8
<b>Unusually High Ceilings</b>						
Yes.....	20.3	1.5	3.7	4.0	4.9	6.2
No.....	41.9	3.1	8.3	10.4	9.0	11.1
Not Asked (Mobile Homes).....	3.7	Q	0.4	0.7	1.0	1.4
<b>Cathedral Ceilings</b> (In Housing Units with High Ceilings)						
Yes.....	13.5	1.2	2.5	2.5	3.2	4.2
No.....	6.7	0.4	1.2	1.5	1.7	2.0
<b>Type of Glass in Windows</b>						
Single-pane Glass.....	27.4	1.3	3.1	4.4	7.1	11.5
Double-pane Glass						
Without Low-e Coating.....	31.5	2.4	7.4	8.9	6.8	6.0
With Low-e Coating.....	5.8	1.0	1.6	1.4	1.0	1.0
Triple-pane Glass						
Without Low-e Coating.....	0.8	Q	Q	Q	Q	Q
With Low-e Coating.....	Q	Q	Q	N	Q	Q
<b>Proportion of Windows Replaced</b>						
All.....	11.5	0.7	3.3	3.4	2.3	1.7
Some.....	11.1	1.2	2.4	2.7	2.2	2.6
None.....	40.9	2.8	6.3	8.3	10.1	13.5

**Table HC9.7 Air-Conditioning Usage Indicators by Climate Zone, 2005**  
**Million U.S. Housing Units**

Air-Conditioning Usage Indicators	Housing Units (millions)	Climate Zone <sup>1</sup>				
		Less than 2,000 CDD and --				2,000 CDD or More and Less than 4,000 HDD
		Greater than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Less than 4,000 HDD	
<b>Thermostats</b>						
<b>Thermostat Available During Summer</b>						
Yes.....	63.9	4.7	11.8	14.6	14.6	18.3
No.....	1.9	Q	0.6	0.5	0.4	0.5
Do Not Use Central Air-Conditioning.....	45.2	6.2	13.7	12.2	9.0	4.1
<b>Use a Programmable Thermostat</b>						
Yes.....	25.0	2.2	5.5	4.9	6.6	5.8
No.....	38.9	2.5	6.3	9.7	8.0	12.4
<b>Use of Programmable Thermostats</b>						
<b>Adjusts Temperature During Day</b>						
Yes.....	15.1	1.3	3.4	2.9	4.0	3.6
No.....	9.9	0.9	2.2	2.0	2.6	2.2
<b>Adjusts Temperature at Night</b>						
Yes.....	15.4	1.4	3.4	3.0	4.0	3.7
No.....	9.6	0.8	2.1	2.0	2.6	2.1
Do Not Use Central Air-Conditioning.....	45.2	6.2	13.7	12.2	9.0	4.1
<b>Summer 2005 Temperature Settings</b>						
<b>Higher Temperature Settings</b>						
<b>Daytime When No One is Home</b>						
Yes.....	0.5	N	Q	Q	Q	Q
No.....	50.8	2.9	8.5	12.1	10.2	17.1
Unknown.....	14.5	1.8	3.7	2.9	4.7	1.4
Do Not Use Central Air-Conditioning.....	45.2	6.2	13.7	12.2	9.0	4.1
<b>At Night During Sleeping Hours</b>						
Yes.....	7.3	0.3	1.2	1.5	1.4	2.9
No.....	44.3	2.6	7.5	10.8	9.0	14.4
Unknown.....	14.2	1.8	3.7	2.8	4.6	1.4
Do Not Use Central Air-Conditioning.....	45.2	6.2	13.7	12.2	9.0	4.1
<b>Daytime Setting When Someone is Home</b>						
Air Conditioner Turned On.....	52.0	3.0	8.7	12.3	10.6	17.4
69 Degrees or Less.....	4.8	0.3	1.0	1.7	1.1	0.6
70 Degrees.....	7.2	0.5	1.3	2.1	1.6	1.8
71 to 73 Degrees.....	8.8	0.5	2.0	2.2	2.0	2.1
74 to 76 Degrees.....	16.5	1.3	2.5	3.9	3.2	5.6
77 to 79 Degrees.....	11.1	0.4	1.6	1.8	2.1	5.2
80 Degrees or More.....	3.7	Q	0.4	0.7	0.5	2.1
Dont Know/No Answer.....	1.1	Q	Q	0.3	0.3	Q
Do Not Use Central Air Conditioning.....	45.2	6.2	13.7	12.2	9.0	4.1
<b>Daytime Setting When No One is at Home</b>						
Air Conditioner Turned On.....	49.5	2.7	8.2	12.1	9.5	17.0
69 Degrees or Less.....	3.6	Q	0.8	1.2	0.8	0.6
70 Degrees.....	5.2	0.3	1.0	1.7	1.1	1.1
71 to 73 Degrees.....	6.0	0.3	1.1	1.8	1.4	1.4
74 to 76 Degrees.....	13.8	1.2	2.4	3.6	2.6	4.0
77 to 79 Degrees.....	10.7	0.6	1.7	2.1	1.7	4.7
80 Degrees or More.....	10.2	0.3	1.2	1.6	2.0	5.2
Dont Know/No Answer.....	1.6	Q	0.3	0.3	0.6	Q
Air-Conditioner Turned Off.....	2.0	Q	0.4	Q	0.8	0.4
Do Not Use Central Air Conditioning.....	45.2	6.2	13.7	12.2	9.0	4.1

**Table HC9.7 Air-Conditioning Usage Indicators by Climate Zone, 2005**  
**Million U.S. Housing Units**

Air-Conditioning Usage Indicators	Housing Units (millions)	Climate Zone <sup>1</sup>				
		Less than 2,000 CDD and --				2,000 CDD or More and Less than 4,000 HDD
		Greater than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	Less than 4,000 HDD	
<b>Setting During Seeping Hours</b>						
Air Conditioner Turned On	51.0	2.8	8.6	12.2	9.9	17.4
69 Degrees or Less.....	5.7	0.4	1.2	1.8	1.5	0.9
70 Degrees.....	7.7	0.4	1.5	2.2	1.6	1.9
71 to 73 Degrees.....	8.3	0.4	1.7	2.3	1.6	2.4
74 to 76 Degrees.....	15.5	1.2	2.5	3.6	2.8	5.5
77 to 79 Degrees.....	9.7	0.4	1.3	1.7	1.6	4.6
80 Degrees or More.....	4.1	Q	0.5	0.7	0.9	2.0
Don't Know/No Answer.....	1.3	Q	0.2	0.2	0.5	Q
Air-Conditioner Turned Off.....	0.8	Q	Q	Q	0.4	Q
Do Not Use Central Air Conditioning.....	45.2	6.2	13.7	12.2	9.0	4.1
<b>Dehumidifier Use Each Year</b>						
Use a Humidifier.....	13.3	3.0	5.6	3.4	0.7	0.5
1 to 3 Months Each Year.....	5.1	1.2	2.3	1.1	Q	Q
4 to 6 Months Each Year.....	4.4	1.3	2.0	1.0	Q	Q
7 to 9 Months Each Year.....	0.9	Q	0.4	0.3	Q	Q
10 to 11 Months.....	Q	N	Q	Q	Q	N
Turned on All Year Long.....	2.6	0.4	0.9	0.9	0.3	Q
Do Not Use a Dehumidifier.....	97.8	7.9	20.4	23.9	23.2	22.3
<b>Window/Wall Air Conditioners</b>						
<b>Frequency Most Used Unit Was Used</b>						
Never.....	0.6	Q	Q	Q	Q	Q
Only a Few Times When Needed.....	12.1	1.5	4.2	3.8	1.7	0.9
Quite a Bit.....	7.5	1.0	2.6	2.1	0.9	0.9
All Summer.....	8.6	0.4	2.4	2.7	1.3	1.7
<b>Energy Star Wall/Window (Most-Used) Unit</b>						
Yes.....	4.6	0.5	1.5	1.4	0.5	0.7
No.....	2.7	0.3	0.8	0.7	0.3	0.5
Don't Know.....	7.0	0.7	2.4	2.2	1.0	0.7
Unit is More Than 4 Years Old.....	14.6	1.6	4.6	4.4	2.1	1.8
<b>Use a Swamp Cooler (Asked Only in Arid Areas)</b>						
Yes.....	3.4	0.3	0.8	Q	1.1	0.5
No.....	41.9	2.2	3.8	3.8	17.7	14.5
Not Asked.....	65.8	8.5	21.5	22.8	5.3	7.9

1. One of five climatically distinct areas, determined according to the 30-year average (1971-2000) of the annual heating and cooling degree-days. A household is assigned to a climate zone according to the 30-year average annual degree-days for an appropriate nearby weather station.

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

3. 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.



**Table HC10.7 Air-Conditioning Usage Indicators by U.S. Census Region, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	Housing Units (millions)	U.S. Census Region			
		Northeast	Midwest	South	West
<b>Total</b> .....	111.1	20.6	25.6	40.7	24.2
<b>Do Not Have Cooling Equipment</b> .....	17.8	4.0	2.1	1.4	10.3
<b>Have Cooling Equipment</b> .....	93.3	16.5	23.5	39.3	13.9
Use Cooling Equipment.....	91.4	16.3	23.4	38.9	12.9
Have Equipment But Do Not Use it.....	1.9	0.3	Q	0.5	1.0
<b>Type of Air-Conditioning Equipment<sup>1, 2</sup></b>					
<b>Central System</b> .....	65.9	6.0	17.3	32.1	10.5
Without a Heat Pump.....	53.5	5.5	16.2	23.2	8.7
With a Heat Pump.....	12.3	0.5	1.1	9.0	1.7
<b>Window/Wall Units</b> .....	28.9	10.7	6.6	8.0	3.6
1 Unit.....	14.5	4.3	4.1	3.1	2.9
2 Units.....	9.1	4.1	1.8	2.8	0.4
3 or More Units.....	5.4	2.3	0.7	2.1	0.3
<b>Central Air-Conditioning Usage</b>					
<b>Air-Conditioned Floorspace (Square Feet)</b>					
None.....	45.2	14.6	8.3	8.6	13.7
1 to 499.....	3.9	Q	0.8	2.0	1.0
500 to 999.....	15.0	1.1	3.0	7.7	3.2
1,000 to 1,499.....	15.6	1.2	3.9	8.2	2.3
1,500 to 1,999.....	11.1	1.3	2.4	5.7	1.7
2,000 to 2,499.....	7.0	0.5	2.3	3.3	0.8
2,500 to 2,999.....	5.2	0.6	1.7	2.1	0.8
3,000 or 3,499.....	2.7	0.4	1.1	1.0	Q
3,500 to 3,999.....	1.8	0.2	0.8	0.6	Q
4,000 or More.....	3.5	0.4	1.4	1.4	0.3
<b>Number of Rooms Cooled by Central Air-Conditioning in Summer 2005</b>					
None.....	1.4	Q	Q	0.4	0.8
1.....	0.7	Q	Q	0.4	Q
2.....	2.1	0.3	0.4	0.8	0.6
3.....	7.5	0.3	1.9	3.9	1.4
4.....	7.9	0.7	1.5	4.6	1.0
5 or More.....	46.3	4.5	13.2	22.0	6.7
<b>Proportion of Rooms Air-Conditioned</b>					
None.....	1.4	Q	Q	0.4	0.8
Some, But Not all of the Rooms.....	8.4	0.7	2.3	3.6	1.9
All of the Rooms.....	56.1	5.2	14.9	28.2	7.8
<b>Frequency of Central Air-Conditioner Use</b>					
Never.....	1.4	Q	Q	0.4	0.8
Only a Few Times When Needed.....	11.4	1.6	3.9	2.5	3.4
Quite a Bit.....	12.6	1.2	4.5	4.5	2.4
All Summer.....	40.5	3.0	8.8	24.8	3.9

**Table HC10.7 Air-Conditioning Usage Indicators by U.S. Census Region, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	Housing Units (millions)	U.S. Census Region			
		Northeast	Midwest	South	West
<b>At Home Behavior</b>					
<b>Home Used for Business</b>					
Yes.....	6.4	0.6	1.7	2.8	1.4
No.....	59.5	5.4	15.6	29.4	9.1
<b>Someone Home All Day</b>					
Yes.....	32.7	3.5	8.4	15.1	5.7
No.....	33.1	2.5	8.9	17.0	4.8
<b>Housing Unit Characteristics Affecting Usage</b>					
<b>Large Tree(s) that Shade the Home</b>					
Yes.....	31.6	3.0	9.3	14.7	4.6
No.....	34.3	3.0	8.0	17.4	5.8
<b>Adequacy of Insulation</b>					
Well Insulated.....	29.5	2.7	8.2	14.1	4.4
Adequately Insulated.....	27.9	2.3	7.1	13.9	4.6
Poorly Insulated.....	7.3	0.9	1.7	3.6	1.1
No Insulation.....	0.3	N	Q	Q	Q
Don't Know.....	0.9	Q	0.3	0.5	Q
<b>Home Is Too Drafty During the Winter</b>					
Never.....	42.6	3.4	10.7	22.1	6.4
Some of the Time.....	16.3	1.7	4.5	7.2	2.9
Most of the Time.....	2.5	0.3	0.7	1.1	0.4
All of the Time.....	2.2	0.3	0.7	0.7	0.4
Don't Know.....	2.2	Q	0.7	1.0	0.4
<b>Unusually High Ceilings</b>					
Yes.....	20.3	1.6	5.1	9.1	4.4
No.....	41.9	4.2	11.6	20.5	5.5
Not Asked (Mobile Homes).....	3.7	Q	0.5	2.5	0.6
<b>Cathedral Ceilings (In Housing Units with High Ceilings)</b>					
Yes.....	13.5	1.1	3.2	6.2	3.1
No.....	6.7	0.5	2.0	2.9	1.3
<b>Type of Glass in Windows</b>					
Single-pane Glass.....	27.4	1.3	4.6	17.1	4.4
Double-pane Glass					
Without Low-e Coating.....	31.5	3.9	9.8	13.0	4.8
With Low-e Coating.....	5.8	0.6	2.4	1.7	1.1
Triple-pane Glass					
Without Low-e Coating.....	0.8	Q	0.3	Q	Q
With Low-e Coating.....	Q	Q	Q	Q	Q
<b>Proportion of Windows Replaced</b>					
All.....	11.5	2.0	3.9	4.1	1.5
Some.....	11.1	1.1	3.7	4.3	2.0
None.....	40.9	2.7	9.3	22.3	6.6

**Table HC10.7 Air-Conditioning Usage Indicators by U.S. Census Region, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	Housing Units (millions)	U.S. Census Region			
		Northeast	Midwest	South	West
<b>Thermostats</b>					
<b>Thermostat Available During Summer</b>					
Yes.....	63.9	5.5	17.0	31.4	10.1
No.....	1.9	0.5	0.3	0.7	0.4
Do Not Use Central Air-Conditioning.....	45.2	14.6	8.3	8.6	13.7
<b>Use a Programmable Thermostat</b>					
Yes.....	25.0	2.8	6.8	9.4	6.0
No.....	38.9	2.7	10.1	22.0	4.1
<b>Use of Programmable Thermostats</b>					
<b>Adjusts Temperature During Day</b>					
Yes.....	15.1	2.2	3.8	5.7	3.5
No.....	9.9	0.6	3.0	3.7	2.5
<b>Adjusts Temperature at Night</b>					
Yes.....	15.4	2.1	4.0	5.8	3.5
No.....	9.6	0.7	2.8	3.6	2.5
Do Not Use Central Air-Conditioning.....	45.2	14.6	8.3	8.6	13.7
<b>Summer 2005 Temperature Settings</b>					
<b>Higher Temperature Settings</b>					
<b>Daytime When No One is Home</b>					
Yes.....	0.5	Q	Q	0.4	N
No.....	50.8	4.0	12.9	28.2	5.7
Unknown.....	14.5	1.8	4.4	3.6	4.8
Do Not Use Central Air-Conditioning.....	45.2	14.6	8.3	8.6	13.7
<b>At Night During Sleeping Hours</b>					
Yes.....	7.3	0.7	1.6	4.1	0.9
No.....	44.3	3.4	11.4	24.6	4.9
Unknown.....	14.2	1.8	4.3	3.4	4.7
Do Not Use Central Air-Conditioning.....	45.2	14.6	8.3	8.6	13.7
<b>Daytime Setting When Someone is Home</b>					
Air Conditioner Turned On.....	52.0	4.1	13.0	28.9	6.0
69 Degrees or Less.....	4.8	0.7	1.3	2.4	0.4
70 Degrees.....	7.2	0.9	1.9	3.8	0.7
71 to 73 Degrees.....	8.8	0.9	2.6	4.3	0.9
74 to 76 Degrees.....	16.5	1.1	4.2	9.6	1.6
77 to 79 Degrees.....	11.1	0.4	2.4	6.6	1.7
80 Degrees or More.....	3.7	Q	0.6	2.2	0.8
Dont Know/No Answer.....	1.1	Q	0.3	0.4	0.3
Do Not Use Central Air Conditioning.....	45.2	14.6	8.3	8.6	13.7
<b>Daytime Setting When No On is at Home</b>					
Air Conditioner Turned On.....	49.5	4.0	12.6	28.0	4.9
69 Degrees or Less.....	3.6	0.5	0.9	1.9	Q
70 Degrees.....	5.2	0.6	1.4	2.8	0.4
71 to 73 Degrees.....	6.0	0.7	1.7	3.1	0.5
74 to 76 Degrees.....	13.8	1.1	4.1	7.5	1.1
77 to 79 Degrees.....	10.7	0.7	2.7	6.4	1.0
80 Degrees or More.....	10.2	0.4	1.8	6.3	1.8
Dont Know/No Answer.....	1.6	Q	0.3	0.6	0.5
Air-Conditioner Turned Off.....	2.0	Q	0.4	0.6	0.8
Do Not Use Central Air Conditioning.....	45.2	14.6	8.3	8.6	13.7

**Table HC10.7 Air-Conditioning Usage Indicators by U.S. Census Region, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	Housing Units (millions)	U.S. Census Region			
		Northeast	Midwest	South	West
<b>Setting During Seeping Hours</b>					
Air Conditioner Turned On	51.0	4.0	12.9	28.7	5.3
69 Degrees or Less.....	5.7	0.7	1.5	3.0	0.5
70 Degrees.....	7.7	1.0	2.0	4.1	0.5
71 to 73 Degrees.....	8.3	0.9	2.4	4.3	0.8
74 to 76 Degrees.....	15.5	1.0	4.1	9.0	1.4
77 to 79 Degrees.....	9.7	0.4	2.1	5.9	1.3
80 Degrees or More.....	4.1	Q	0.8	2.3	0.8
Dont Know/No Answer.....	1.3	Q	Q	0.5	0.5
Air-Conditioner Turned Off.....	0.8	Q	Q	Q	0.5
Do Not Use Central Air Conditioning.....	45.2	14.6	8.3	8.6	13.7
<b>Dehumidifier Use Each Year</b>					
Use a Humidifier.....	13.3	4.1	6.1	2.7	0.3
1 to 3 Months Each Year.....	5.1	1.6	2.5	0.8	Q
4 to 6 Months Each Year.....	4.4	1.4	2.2	0.7	Q
7 to 9 Months Each Year.....	0.9	Q	0.5	0.3	Q
10 to 11 Months.....	Q	Q	Q	Q	Q
Turned on All Year Long.....	2.6	0.9	0.8	0.8	Q
Do Not Use a Dehumidifier.....	97.8	16.5	19.5	38.0	23.9
<b>Window/Wall Air Conditioners</b>					
<b>Frequency Most Used Unit Was Used</b>					
Never.....	0.6	Q	Q	Q	Q
Only a Few Times When Needed.....	12.1	4.9	3.1	2.1	2.0
Quite a Bit.....	7.5	3.0	1.6	2.2	0.7
All Summer.....	8.6	2.6	1.8	3.6	0.7
<b>Energy Star Wall/Window (Most-Used) Unit</b>					
Yes.....	4.6	2.1	0.8	1.2	0.5
No.....	2.7	0.9	0.5	1.0	0.3
Don't Know.....	7.0	2.6	1.7	1.7	1.1
Unit is More Than 4 Years Old.....	14.6	5.1	3.6	4.1	1.8
<b>Use a Swamp Cooler (Asked Only in Arid Areas)</b>					
Yes.....	3.4	N	Q	Q	3.3
No.....	41.9	Q	2.1	19.6	20.1
Not Asked.....	65.8	20.5	23.4	21.1	0.8

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.

**Table HC11.7 Air-Conditioning Usage Indicators by Northeast Census Region, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	Northeast Census Region		
		Total Northeast	Census Division	
			Middle Atlantic	New England
<b>Total</b> .....	111.1	20.6	15.1	5.5
<b>Do Not Have Cooling Equipment</b> .....	17.8	4.0	2.4	1.7
<b>Have Cooling Equipment</b> .....	93.3	16.5	12.8	3.8
Use Cooling Equipment.....	91.4	16.3	12.6	3.7
Have Equipment But Do Not Use it.....	1.9	0.3	Q	Q
<b>Type of Air-Conditioning Equipment<sup>1, 2</sup></b>				
<b>Central System</b> .....	65.9	6.0	5.2	0.8
Without a Heat Pump.....	53.5	5.5	4.8	0.7
With a Heat Pump.....	12.3	0.5	0.4	Q
<b>Window/Wall Units</b> .....	28.9	10.7	7.6	3.1
1 Unit.....	14.5	4.3	2.9	1.4
2 Units.....	9.1	4.1	3.1	1.1
3 or More Units.....	5.4	2.3	1.7	0.6
<b>Central Air-Conditioning Usage</b>				
<b>Air-Conditioned Floorspace (Square Feet)</b>				
None.....	45.2	14.6	9.9	4.7
1 to 499.....	3.9	Q	Q	N
500 to 999.....	15.0	1.1	1.0	0.2
1,000 to 1,499.....	15.6	1.2	1.0	0.2
1,500 to 1,999.....	11.1	1.3	1.1	Q
2,000 to 2,499.....	7.0	0.5	0.5	Q
2,500 to 2,999.....	5.2	0.6	0.6	Q
3,000 or 3,499.....	2.7	0.4	0.3	Q
3,500 to 3,999.....	1.8	0.2	Q	Q
4,000 or More.....	3.5	0.4	0.4	Q
<b>Number of Rooms Cooled by Central Air-Conditioning in Summer 2005</b>				
None.....	1.4	Q	Q	Q
1.....	0.7	Q	Q	N
2.....	2.1	0.3	0.3	Q
3.....	7.5	0.3	0.3	Q
4.....	7.9	0.7	Q	0.2
5 or More.....	46.3	4.5	3.9	0.5
<b>Proportion of Rooms Air-Conditioned</b>				
None.....	1.4	Q	Q	Q
Some, But Not all of the Rooms.....	8.4	0.7	0.6	Q
All of the Rooms.....	56.1	5.2	4.5	0.6
<b>Frequency of Central Air-Conditioner Use</b>				
Never.....	1.4	Q	Q	Q
Only a Few Times When Needed.....	11.4	1.6	1.4	0.3
Quite a Bit.....	12.6	1.2	1.1	0.1
All Summer.....	40.5	3.0	2.6	0.3

**Table HC11.7 Air-Conditioning Usage Indicators by Northeast Census Region, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	Northeast Census Region		
		Total Northeast	Census Division	
			Middle Atlantic	New England
<b>At Home Behavior</b>				
<b>Home Used for Business</b>				
Yes.....	6.4	0.6	0.5	Q
No.....	59.5	5.4	4.7	0.7
<b>Someone Home All Day</b>				
Yes.....	32.7	3.5	3.0	0.5
No.....	33.1	2.5	2.2	0.3
<b>Housing Unit Characteristics Affecting Usage</b>				
<b>Large Tree(s) that Shade the Home</b>				
Yes.....	31.6	3.0	2.5	0.4
No.....	34.3	3.0	2.7	0.3
<b>Adequacy of Insulation</b>				
Well Insulated.....	29.5	2.7	2.3	0.4
Adequately Insulated.....	27.9	2.3	2.1	0.2
Poorly Insulated.....	7.3	0.9	0.8	Q
No Insulation.....	0.3	N	N	N
Don't Know.....	0.9	Q	Q	Q
<b>Home Is Too Drafty During the Winter</b>				
Never.....	42.6	3.4	3.0	0.5
Some of the Time.....	16.3	1.7	1.5	0.2
Most of the Time.....	2.5	0.3	0.3	Q
All of the Time.....	2.2	0.3	Q	Q
Don't Know.....	2.2	Q	Q	Q
<b>Unusually High Ceilings</b>				
Yes.....	20.3	1.6	1.4	0.2
No.....	41.9	4.2	3.8	0.4
Not Asked (Mobile Homes).....	3.7	Q	Q	Q
<b>Cathedral Ceilings (In Housing Units with High Ceilings)</b>				
Yes.....	13.5	1.1	0.9	0.2
No.....	6.7	0.5	0.5	Q
<b>Type of Glass in Windows</b>				
Single-pane Glass.....	27.4	1.3	1.0	0.3
Double-pane Glass				
Without Low-e Coating.....	31.5	3.9	3.5	0.4
With Low-e Coating.....	5.8	0.6	0.5	Q
Triple-pane Glass				
Without Low-e Coating.....	0.8	Q	Q	N
With Low-e Coating.....	Q	Q	N	Q
<b>Proportion of Windows Replaced</b>				
All.....	11.5	2.0	1.8	0.2
Some.....	11.1	1.1	1.0	Q
None.....	40.9	2.7	2.2	0.4

**Table HC11.7 Air-Conditioning Usage Indicators by Northeast Census Region, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	Northeast Census Region		
		Total Northeast	Census Division	
			Middle Atlantic	New England
<b>Thermostats</b>				
<b>Thermostat Available During Summer</b>				
Yes.....	63.9	5.5	4.8	0.7
No.....	1.9	0.5	0.4	Q
Do Not Use Central Air-Conditioning.....	45.2	14.6	9.9	4.7
<b>Use a Programmable Thermostat</b>				
Yes.....	25.0	2.8	2.6	0.2
No.....	38.9	2.7	2.2	0.5
<b>Use of Programmable Thermostats</b>				
<b>Adjusts Temperature During Day</b>				
Yes.....	15.1	2.2	2.0	0.2
No.....	9.9	0.6	0.6	Q
<b>Adjusts Temperature at Night</b>				
Yes.....	15.4	2.1	2.0	0.2
No.....	9.6	0.7	0.6	Q
Do Not Use Central Air-Conditioning.....	45.2	14.6	9.9	4.7
<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
No.....	50.8	4.0	3.5	0.5
Unknown.....	14.5	1.8	1.6	0.3
Do Not Use Central Air-Conditioning.....	45.2	14.6	9.9	4.7
<b>At Night During Sleeping Hours</b>				
Yes.....	7.3	0.7	0.7	Q
No.....	44.3	3.4	3.0	0.4
Unknown.....	14.2	1.8	1.5	0.3
Do Not Use Central Air-Conditioning.....	45.2	14.6	9.9	4.7
<b>Daytime Setting When Someone is Home</b>				
Air Conditioner Turned On.....	52.0	4.1	3.7	0.5
69 Degrees or Less.....	4.8	0.7	0.5	0.1
70 Degrees.....	7.2	0.9	0.7	Q
71 to 73 Degrees.....	8.8	0.9	0.8	Q
74 to 76 Degrees.....	16.5	1.1	1.1	Q
77 to 79 Degrees.....	11.1	0.4	0.3	Q
80 Degrees or More.....	3.7	Q	Q	N
Dont Know/No Answer.....	1.1	Q	Q	Q
Do Not Use Central Air Conditioning.....	45.2	14.6	9.9	4.7
<b>Setting When No On is at Home</b>				
Air Conditioner Turned On.....	49.5	4.0	3.5	0.5
69 Degrees or Less.....	3.6	0.5	0.4	0.1
70 Degrees.....	5.2	0.6	0.5	Q
71 to 73 Degrees.....	6.0	0.7	0.7	Q
74 to 76 Degrees.....	13.8	1.1	1.0	Q
77 to 79 Degrees.....	10.7	0.7	0.5	Q
80 Degrees or More.....	10.2	0.4	0.3	Q
Dont Know/No Answer.....	1.6	Q	Q	Q
Air-Conditioner Turned Off.....	2.0	Q	Q	N
Do Not Use Central Air Conditioning.....	45.2	14.6	9.9	4.7

**Table HC11.7 Air-Conditioning Usage Indicators by Northeast Census Region, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	Northeast Census Region		
		Total Northeast	Census Division	
			Middle Atlantic	New England
<b>Setting During Seeping Hours</b>				
Air Conditioner Turned On	51.0	4.0	3.6	0.5
69 Degrees or Less.....	5.7	0.7	0.5	0.1
70 Degrees.....	7.7	1.0	0.9	Q
71 to 73 Degrees.....	8.3	0.9	0.8	Q
74 to 76 Degrees.....	15.5	1.0	0.9	Q
77 to 79 Degrees.....	9.7	0.4	0.3	Q
80 Degrees or More.....	4.1	Q	Q	Q
Dont Know/No Answer.....	1.3	Q	Q	Q
Air-Conditioner Turned Off.....	0.8	Q	Q	N
Do Not Use Central Air Conditioning.....	45.2	14.6	9.9	4.7
<b>Dehumidifier Use Each Year</b>				
Use a Humidifier.....	13.3	4.1	2.7	1.4
1 to 3 Months Each Year.....	5.1	1.6	0.8	0.8
4 to 6 Months Each Year.....	4.4	1.4	0.9	0.5
7 to 9 Months Each Year.....	0.9	Q	Q	Q
10 to 11 Months.....	Q	Q	Q	Q
Turned on All Year Long.....	2.6	0.9	0.7	0.1
Do Not Use a Dehumidifier.....	97.8	16.5	12.5	4.0
<b>Window/Wall Air Conditioners</b>				
<b>Frequency Most Used Unit Was Used</b>				
Never.....	0.6	Q	Q	Q
Only a Few Times When Needed.....	12.1	4.9	3.4	1.5
Quite a Bit.....	7.5	3.0	2.2	0.8
All Summer.....	8.6	2.6	1.9	0.7
<b>Energy Star Wall/Window (Most-Used) Unit</b>				
Yes.....	4.6	2.1	1.5	0.6
No.....	2.7	0.9	0.6	0.3
Don't Know.....	7.0	2.6	1.8	0.9
Unit is More Than 4 Years Old.....	14.6	5.1	3.8	1.3
<b>Use a Swamp Cooler (Asked Only in Arid Areas)</b>				
Yes.....	3.4	N	N	N
No.....	41.9	Q	Q	N
Not Asked.....	65.8	20.5	15.1	5.5

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.



**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
<b>Total</b> .....	111.1	25.6	17.7	7.9
<b>Do Not Have Cooling Equipment</b> .....	17.8	2.1	1.8	0.3
<b>Have Cooling Equipment</b> .....	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
<b>Type of Air-Conditioning Equipment<sup>1, 2</sup></b>				
<b>Central System</b> .....	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
<b>Window/Wall Units</b> .....	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
<b>Central Air-Conditioning Usage</b>				
<b>Air-Conditioned Floorspace (Square Feet)</b>				
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
<b>Number of Rooms Cooled by Central Air-Conditioning in Summer 2005</b>				
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
<b>Proportion of Rooms Air-Conditioned</b>				
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
<b>Frequency of Central Air-Conditioner Use</b>				
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
<b>At Home Behavior</b>				
<b>Home Used for Business</b>				
Yes.....	6.4	1.7	1.0	0.7
No.....	59.5	15.6	10.3	5.3
<b>Someone Home All Day</b>				
Yes.....	32.7	8.4	5.4	3.1
No.....	33.1	8.9	5.9	2.9
<b>Housing Unit Characteristics Affecting Usage</b>				
<b>Large Tree(s) that Shade the Home</b>				
Yes.....	31.6	9.3	6.0	3.2
No.....	34.3	8.0	5.3	2.7
<b>Adequacy of Insulation</b>				
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
<b>Home Is Too Drafty During the Winter</b>				
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
<b>Unusually High Ceilings</b>				
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
<b>Cathedral Ceilings (In Housing Units with High Ceilings)</b>				
Yes.....	13.5	3.2	2.2	1.0
No.....	6.7	2.0	1.2	0.7
<b>Type of Glass in Windows</b>				
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
<b>Proportion of Windows Replaced</b>				
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
<b>Thermostats</b>				
<b>Thermostat Available During Summer</b>				
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
<b>Use a Programmable Thermostat</b>				
Yes.....	25.0	6.8	4.8	2.0
No.....	38.9	10.1	6.3	3.9
<b>Use of Programmable Thermostats</b>				
<b>Adjusts Temperature During Day</b>				
Yes.....	15.1	3.8	2.5	1.2
No.....	9.9	3.0	2.2	0.8
<b>Adjusts Temperature at Night</b>				
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
<b>Summer 2005 Temperature Settings</b>				
<b>Higher Temperature Settings</b>				
<b>Daytime When No One is Home</b>				
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
<b>At Night During Sleeping Hours</b>				
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
<b>Daytime Setting When Someone is Home</b>				
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
Dont Know/No Answer.....	1.1	0.3	Q	Q
Do Not Use Central Air Conditioning.....	45.2	8.3	6.4	1.9
<b>Setting When No On is at Home</b>				
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
Dont 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
<b>Setting During Seeping Hours</b>				
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
Dont 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
<b>Dehumidifier Use Each Year</b>				
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
<b>Window/Wall Air Conditioners</b>				
<b>Frequency Most Used Unit Was Used</b>				
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
<b>Energy Star Wall/Window (Most-Used) Unit</b>				
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
<b>Use a Swamp Cooler (Asked Only in Arid Areas)</b>				
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.

**Table HC13.7 Air-Conditioning Usage Indicators by South Census Region, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	South Census Region			
		Total South	Census Division		
			South Atlantic	East South Central	West South Central
<b>Total</b> .....	111.1	40.7	21.7	6.9	12.1
<b>Do Not Have Cooling Equipment</b> .....	17.8	1.4	0.8	0.2	0.3
<b>Have Cooling Equipment</b> .....	93.3	39.3	20.9	6.7	11.8
Use Cooling Equipment.....	91.4	38.9	20.7	6.6	11.7
Have Equipment But Do Not Use it.....	1.9	0.5	Q	Q	Q
<b>Type of Air-Conditioning Equipment<sup>1, 2</sup></b>					
<b>Central System</b> .....	65.9	32.1	17.6	5.2	9.3
Without a Heat Pump.....	53.5	23.2	10.9	3.8	8.4
With a Heat Pump.....	12.3	9.0	6.7	1.4	0.9
<b>Window/Wall Units</b> .....	28.9	8.0	3.4	1.7	2.9
1 Unit.....	14.5	3.1	1.4	0.8	0.9
2 Units.....	9.1	2.8	1.1	0.7	1.0
3 or More Units.....	5.4	2.1	0.9	0.2	1.0
<b>Central Air-Conditioning Usage</b>					
<b>Air-Conditioned Floorspace (Square Feet)</b>					
None.....	45.2	8.6	4.1	1.7	2.8
1 to 499.....	3.9	2.0	1.1	0.3	0.7
500 to 999.....	15.0	7.7	3.7	1.2	2.8
1,000 to 1,499.....	15.6	8.2	4.8	1.4	2.1
1,500 to 1,999.....	11.1	5.7	3.0	1.1	1.6
2,000 to 2,499.....	7.0	3.3	1.9	0.5	0.9
2,500 to 2,999.....	5.2	2.1	1.3	0.3	0.5
3,000 or 3,499.....	2.7	1.0	0.5	0.2	Q
3,500 to 3,999.....	1.8	0.6	0.4	Q	Q
4,000 or More.....	3.5	1.4	0.8	Q	0.5
<b>Number of Rooms Cooled by Central Air-Conditioning in Summer 2005</b>					
None.....	1.4	0.4	Q	Q	Q
1.....	0.7	0.4	Q	N	Q
2.....	2.1	0.8	Q	Q	0.4
3.....	7.5	3.9	2.1	0.5	1.3
4.....	7.9	4.6	2.8	0.9	0.9
5 or More.....	46.3	22.0	12.0	3.5	6.5
<b>Proportion of Rooms Air-Conditioned</b>					
None.....	1.4	0.4	Q	Q	Q
Some, But Not all of the Rooms.....	8.4	3.6	1.8	0.7	1.0
All of the Rooms.....	56.1	28.2	15.6	4.4	8.2
<b>Frequency of Central Air-Conditioner Use</b>					
Never.....	1.4	0.4	Q	Q	Q
Only a Few Times When Needed.....	11.4	2.5	1.6	0.4	0.5
Quite a Bit.....	12.6	4.5	2.5	0.8	1.2
All Summer.....	40.5	24.8	13.4	3.8	7.6

**Table HC13.7 Air-Conditioning Usage Indicators by South Census Region, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	South Census Region			
		Total South	Census Division		
			South Atlantic	East South Central	West South Central
<b>At Home Behavior</b>					
<b>Home Used for Business</b>					
Yes.....	6.4	2.8	1.8	0.4	0.6
No.....	59.5	29.4	15.8	4.8	8.7
<b>Someone Home All Day</b>					
Yes.....	32.7	15.1	8.1	2.6	4.4
No.....	33.1	17.0	9.5	2.6	4.9
<b>Housing Unit Characteristics Affecting Usage</b>					
<b>Large Tree(s) that Shade the Home</b>					
Yes.....	31.6	14.7	7.2	2.9	4.6
No.....	34.3	17.4	10.4	2.3	4.7
<b>Adequacy of Insulation</b>					
Well Insulated.....	29.5	14.1	8.0	2.1	4.0
Adequately Insulated.....	27.9	13.9	7.6	2.4	3.9
Poorly Insulated.....	7.3	3.6	1.7	0.6	1.3
No Insulation.....	0.3	Q	Q	N	Q
Don't Know.....	0.9	0.5	Q	Q	Q
<b>Home Is Too Drafty During the Winter</b>					
Never.....	42.6	22.1	12.4	3.3	6.4
Some of the Time.....	16.3	7.2	3.9	1.3	2.0
Most of the Time.....	2.5	1.1	0.5	0.2	0.3
All of the Time.....	2.2	0.7	Q	0.2	0.3
Don't Know.....	2.2	1.0	0.5	Q	0.3
<b>Unusually High Ceilings</b>					
Yes.....	20.3	9.1	4.3	1.3	3.5
No.....	41.9	20.5	11.8	3.4	5.3
Not Asked (Mobile Homes).....	3.7	2.5	1.5	0.5	0.6
<b>Cathedral Ceilings (In Housing Units with High Ceilings)</b>					
Yes.....	13.5	6.2	3.0	1.0	2.2
No.....	6.7	2.9	1.4	0.3	1.2
<b>Type of Glass in Windows</b>					
Single-pane Glass.....	27.4	17.1	9.4	2.2	5.5
Double-pane Glass					
Without Low-e Coating.....	31.5	13.0	6.9	2.7	3.4
With Low-e Coating.....	5.8	1.7	1.1	0.2	0.3
Triple-pane Glass					
Without Low-e Coating.....	0.8	Q	Q	Q	Q
With Low-e Coating.....	Q	Q	N	Q	N
<b>Proportion of Windows Replaced</b>					
All.....	11.5	4.1	2.9	0.6	0.6
Some.....	11.1	4.3	2.1	0.9	1.3
None.....	40.9	22.3	11.9	3.6	6.8

**Table HC13.7 Air-Conditioning Usage Indicators by South Census Region, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	South Census Region			
		Total South	Census Division		
			South Atlantic	East South Central	West South Central
<b>Thermostats</b>					
<b>Thermostat Available During Summer</b>					
Yes.....	63.9	31.4	17.2	5.2	9.1
No.....	1.9	0.7	0.4	Q	Q
Do Not Use Central Air-Conditioning.....	45.2	8.6	4.1	1.7	2.8
<b>Use a Programmable Thermostat</b>					
Yes.....	25.0	9.4	5.6	1.0	2.8
No.....	38.9	22.0	11.6	4.1	6.3
<b>Use of Programmable Thermostats</b>					
<b>Adjusts Temperature During Day</b>					
Yes.....	15.1	5.7	3.5	0.5	1.8
No.....	9.9	3.7	2.1	0.6	1.0
<b>Adjusts Temperature at Night</b>					
Yes.....	15.4	5.8	3.4	0.5	1.9
No.....	9.6	3.6	2.2	0.5	0.9
Do Not Use Central Air-Conditioning.....	45.2	8.6	4.1	1.7	2.8
<b>Summer 2005 Temperature Settings</b>					
<b>Higher Temperature Settings</b>					
<b>Daytime When No One is Home</b>					
Yes.....	0.5	0.4	Q	Q	Q
No.....	50.8	28.2	15.3	4.5	8.5
Unknown.....	14.5	3.6	2.2	0.7	0.7
Do Not Use Central Air-Conditioning.....	45.2	8.6	4.1	1.7	2.8
<b>At Night During Sleeping Hours</b>					
Yes.....	7.3	4.1	2.0	0.5	1.6
No.....	44.3	24.6	13.6	4.1	7.0
Unknown.....	14.2	3.4	2.0	0.7	0.7
Do Not Use Central Air-Conditioning.....	45.2	8.6	4.1	1.7	2.8
<b>Daytime Setting When Someone is Home</b>					
Air Conditioner Turned On.....	52.0	28.9	15.7	4.6	8.6
69 Degrees or Less.....	4.8	2.4	1.4	0.4	0.5
70 Degrees.....	7.2	3.8	2.1	0.9	0.8
71 to 73 Degrees.....	8.8	4.3	2.0	0.9	1.4
74 to 76 Degrees.....	16.5	9.6	5.2	1.5	2.9
77 to 79 Degrees.....	11.1	6.6	3.8	0.6	2.2
80 Degrees or More.....	3.7	2.2	1.1	Q	0.8
Dont Know/No Answer.....	1.1	0.4	Q	Q	Q
Do Not Use Central Air Conditioning.....	45.2	8.6	4.1	1.7	2.8
<b>Setting When No On is at Home</b>					
Air Conditioner Turned On.....	49.5	28.0	15.3	4.4	8.3
69 Degrees or Less.....	3.6	1.9	1.2	0.3	0.5
70 Degrees.....	5.2	2.8	1.6	0.6	0.6
71 to 73 Degrees.....	6.0	3.1	1.4	0.8	1.0
74 to 76 Degrees.....	13.8	7.5	4.1	1.5	2.0
77 to 79 Degrees.....	10.7	6.4	3.5	0.6	2.2
80 Degrees or More.....	10.2	6.3	3.5	0.7	2.1
Dont Know/No Answer.....	1.6	0.6	0.4	Q	Q
Air-Conditioner Turned Off.....	2.0	0.6	Q	Q	0.3
Do Not Use Central Air Conditioning.....	45.2	8.6	4.1	1.7	2.8

**Table HC13.7 Air-Conditioning Usage Indicators by South Census Region, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	South Census Region			
		Total South	Census Division		
			South Atlantic	East South Central	West South Central
<b>Setting During Sleeping Hours</b>					
Air Conditioner Turned On	51.0	28.7	15.6	4.5	8.6
69 Degrees or Less.....	5.7	3.0	1.7	0.6	0.7
70 Degrees.....	7.7	4.1	2.2	0.8	1.2
71 to 73 Degrees.....	8.3	4.3	1.9	0.9	1.4
74 to 76 Degrees.....	15.5	9.0	5.1	1.4	2.5
77 to 79 Degrees.....	9.7	5.9	3.5	0.5	1.9
80 Degrees or More.....	4.1	2.3	1.2	0.3	0.9
Dont Know/No Answer.....	1.3	0.5	Q	Q	Q
Air-Conditioner Turned Off.....	0.8	Q	Q	Q	N
Do Not Use Central Air Conditioning.....	45.2	8.6	4.1	1.7	2.8
<b>Dehumidifier Use Each Year</b>					
Use a Humidifier.....	13.3	2.7	1.9	0.5	0.3
1 to 3 Months Each Year.....	5.1	0.8	0.5	0.2	Q
4 to 6 Months Each Year.....	4.4	0.7	0.5	Q	N
7 to 9 Months Each Year.....	0.9	0.3	Q	Q	Q
10 to 11 Months.....	Q	Q	Q	Q	N
Turned on All Year Long.....	2.6	0.8	0.7	Q	Q
Do Not Use a Dehumidifier.....	97.8	38.0	19.8	6.4	11.8
<b>Window/Wall Air Conditioners</b>					
<b>Frequency Most Used Unit Was Used</b>					
Never.....	0.6	Q	Q	Q	Q
Only a Few Times When Needed.....	12.1	2.1	1.0	0.5	0.6
Quite a Bit.....	7.5	2.2	1.1	0.5	0.6
All Summer.....	8.6	3.6	1.2	0.8	1.5
<b>Energy Star Wall/Window (Most-Used) Unit</b>					
Yes.....	4.6	1.2	0.5	Q	0.6
No.....	2.7	1.0	0.5	Q	0.3
Don't Know.....	7.0	1.7	0.8	0.3	0.6
Unit is More Than 4 Years Old.....	14.6	4.1	1.6	1.2	1.4
<b>Use a Swamp Cooler (Asked Only in Arid Areas)</b>					
Yes.....	3.4	Q	N	N	Q
No.....	41.9	19.6	5.8	1.9	12.0
Not Asked.....	65.8	21.1	15.9	5.0	Q

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.



**Table HC14.7 Air-Conditioning Usage Indicators by West Census Region, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	West Census Region		
		Total West	Census Division	
			Mountain	Pacific
<b>Total</b> .....	111.1	24.2	7.6	16.6
<b>Do Not Have Cooling Equipment</b> .....	17.8	10.3	3.1	7.3
<b>Have Cooling Equipment</b> .....	93.3	13.9	4.5	9.4
Use Cooling Equipment.....	91.4	12.9	4.3	8.5
Have Equipment But Do Not Use it.....	1.9	1.0	Q	0.8
<b>Type of Air-Conditioning Equipment</b> <sup>1, 2</sup>				
<b>Central System</b> .....	65.9	10.5	3.9	6.5
Without a Heat Pump.....	53.5	8.7	3.2	5.5
With a Heat Pump.....	12.3	1.7	0.7	1.0
<b>Window/Wall Units</b> .....	28.9	3.6	0.6	3.0
1 Unit.....	14.5	2.9	0.5	2.4
2 Units.....	9.1	0.4	Q	0.4
3 or More Units.....	5.4	0.3	Q	Q
<b>Central Air-Conditioning Usage</b>				
<b>Air-Conditioned Floorspace (Square Feet)</b>				
None.....	45.2	13.7	3.6	10.1
1 to 499.....	3.9	1.0	0.3	0.6
500 to 999.....	15.0	3.2	1.1	2.1
1,000 to 1,499.....	15.6	2.3	0.7	1.6
1,500 to 1,999.....	11.1	1.7	0.9	0.8
2,000 to 2,499.....	7.0	0.8	0.2	0.6
2,500 to 2,999.....	5.2	0.8	0.4	0.4
3,000 or 3,499.....	2.7	Q	Q	Q
3,500 to 3,999.....	1.8	Q	Q	Q
4,000 or More.....	3.5	0.3	Q	Q
<b>Number of Rooms Cooled by Central Air-Conditioning in Summer 2005</b>				
None.....	1.4	0.8	Q	0.7
1.....	0.7	Q	Q	Q
2.....	2.1	0.6	Q	0.4
3.....	7.5	1.4	0.6	0.8
4.....	7.9	1.0	0.5	0.5
5 or More.....	46.3	6.7	2.5	4.1
<b>Proportion of Rooms Air-Conditioned</b>				
None.....	1.4	0.8	Q	0.7
Some, But Not all of the Rooms.....	8.4	1.9	0.8	1.0
All of the Rooms.....	56.1	7.8	3.0	4.8
<b>Frequency of Central Air-Conditioner Use</b>				
Never.....	1.4	0.8	Q	0.7
Only a Few Times When Needed.....	11.4	3.4	0.7	2.7
Quite a Bit.....	12.6	2.4	0.8	1.6
All Summer.....	40.5	3.9	2.4	1.5

**Table HC14.7 Air-Conditioning Usage Indicators by West Census Region, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	West Census Region		
		Total West	Census Division	
			Mountain	Pacific
<b>At Home Behavior</b>				
<b>Home Used for Business</b>				
Yes.....	6.4	1.4	0.6	0.8
No.....	59.5	9.1	3.3	5.8
<b>Someone Home All Day</b>				
Yes.....	32.7	5.7	2.1	3.6
No.....	33.1	4.8	1.9	3.0
<b>Housing Unit Characteristics Affecting Usage</b>				
<b>Large Tree(s) that Shade the Home</b>				
Yes.....	31.6	4.6	1.6	3.0
No.....	34.3	5.8	2.3	3.5
<b>Adequacy of Insulation</b>				
Well Insulated.....	29.5	4.4	1.7	2.7
Adequately Insulated.....	27.9	4.6	1.7	2.9
Poorly Insulated.....	7.3	1.1	0.5	0.7
No Insulation.....	0.3	Q	Q	Q
Don't Know.....	0.9	Q	N	Q
<b>Home Is Too Drafty During the Winter</b>				
Never.....	42.6	6.4	2.3	4.1
Some of the Time.....	16.3	2.9	1.1	1.8
Most of the Time.....	2.5	0.4	Q	0.2
All of the Time.....	2.2	0.4	Q	0.3
Don't Know.....	2.2	0.4	0.2	Q
<b>Unusually High Ceilings</b>				
Yes.....	20.3	4.4	1.8	2.6
No.....	41.9	5.5	1.9	3.6
Not Asked (Mobile Homes).....	3.7	0.6	0.2	0.3
<b>Cathedral Ceilings</b> (In Housing Units with High Ceilings)				
Yes.....	13.5	3.1	1.3	1.8
No.....	6.7	1.3	0.5	0.8
<b>Type of Glass in Windows</b>				
Single-pane Glass.....	27.4	4.4	1.4	3.0
Double-pane Glass				
Without Low-e Coating.....	31.5	4.8	1.8	3.0
With Low-e Coating.....	5.8	1.1	0.6	0.5
Triple-pane Glass				
Without Low-e Coating.....	0.8	Q	Q	Q
With Low-e Coating.....	Q	Q	Q	Q
<b>Proportion of Windows Replaced</b>				
All.....	11.5	1.5	0.3	1.2
Some.....	11.1	2.0	0.7	1.3
None.....	40.9	6.6	2.8	3.8

**Table HC14.7 Air-Conditioning Usage Indicators by West Census Region, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	West Census Region		
		Total West	Census Division	
			Mountain	Pacific
<b>Thermostats</b>				
<b>Thermostat Available During Summer</b>				
Yes.....	63.9	10.1	3.7	6.4
No.....	1.9	0.4	Q	Q
Do Not Use Central Air-Conditioning.....	45.2	13.7	3.6	10.1
<b>Use a Programmable Thermostat</b>				
Yes.....	25.0	6.0	1.9	4.2
No.....	38.9	4.1	1.9	2.2
<b>Use of Programmable Thermostats</b>				
<b>Adjusts Temperature During Day</b>				
Yes.....	15.1	3.5	1.2	2.4
No.....	9.9	2.5	0.7	1.8
<b>Adjusts Temperature at Night</b>				
Yes.....	15.4	3.5	1.2	2.4
No.....	9.6	2.5	0.7	1.8
Do Not Use Central Air-Conditioning.....	45.2	13.7	3.6	10.1
<b>Summer 2005 Temperature Settings</b>				
<b>Higher Temperature Settings</b>				
<b>Daytime When No One is Home</b>				
Yes.....	0.5	N	N	N
No.....	50.8	5.7	3.0	2.7
Unknown.....	14.5	4.8	0.9	3.8
Do Not Use Central Air-Conditioning.....	45.2	13.7	3.6	10.1
<b>At Night During Sleeping Hours</b>				
Yes.....	7.3	0.9	0.6	0.3
No.....	44.3	4.9	2.5	2.5
Unknown.....	14.2	4.7	0.9	3.8
Do Not Use Central Air-Conditioning.....	45.2	13.7	3.6	10.1
<b>Daytime Setting When Someone is Home</b>				
Air Conditioner Turned On.....	52.0	6.0	3.1	3.0
69 Degrees or Less.....	4.8	0.4	Q	Q
70 Degrees.....	7.2	0.7	0.3	0.4
71 to 73 Degrees.....	8.8	0.9	0.4	0.6
74 to 76 Degrees.....	16.5	1.6	0.8	0.8
77 to 79 Degrees.....	11.1	1.7	0.8	0.8
80 Degrees or More.....	3.7	0.8	0.5	0.2
Dont Know/No Answer.....	1.1	0.3	Q	Q
Do Not Use Central Air Conditioning.....	45.2	13.7	3.6	10.1
<b>Setting When No On is at Home</b>				
Air Conditioner Turned On.....	49.5	4.9	2.7	2.2
69 Degrees or Less.....	3.6	Q	Q	Q
70 Degrees.....	5.2	0.4	Q	Q
71 to 73 Degrees.....	6.0	0.5	Q	0.3
74 to 76 Degrees.....	13.8	1.1	0.6	0.4
77 to 79 Degrees.....	10.7	1.0	0.6	0.4
80 Degrees or More.....	10.2	1.8	1.0	0.8
Dont Know/No Answer.....	1.6	0.5	Q	0.4
Air-Conditioner Turned Off.....	2.0	0.8	0.3	0.5
Do Not Use Central Air Conditioning.....	45.2	13.7	3.6	10.1

**Table HC14.7 Air-Conditioning Usage Indicators by West Census Region, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	U.S. Housing Units (millions)	West Census Region		
		Total West	Census Division	
			Mountain	Pacific
<b>Setting During Seeping Hours</b>				
Air Conditioner Turned On	51.0	5.3	2.8	2.5
69 Degrees or Less.....	5.7	0.5	Q	0.3
70 Degrees.....	7.7	0.5	0.2	0.3
71 to 73 Degrees.....	8.3	0.8	0.4	0.4
74 to 76 Degrees.....	15.5	1.4	0.8	0.6
77 to 79 Degrees.....	9.7	1.3	0.8	0.5
80 Degrees or More.....	4.1	0.8	0.4	0.4
Dont Know/No Answer.....	1.3	0.5	Q	0.3
Air-Conditioner Turned Off.....	0.8	0.5	Q	0.3
Do Not Use Central Air Conditioning.....	45.2	13.7	3.6	10.1
<b>Dehumidifier Use Each Year</b>				
Use a Humidifier.....	13.3	0.3	Q	0.3
1 to 3 Months Each Year.....	5.1	Q	Q	Q
4 to 6 Months Each Year.....	4.4	Q	Q	Q
7 to 9 Months Each Year.....	0.9	Q	N	Q
10 to 11 Months.....	Q	Q	N	Q
Turned on All Year Long.....	2.6	Q	Q	Q
Do Not Use a Dehumidifier.....	97.8	23.9	7.5	16.3
<b>Window/Wall Air Conditioners</b>				
<b>Frequency Most Used Unit Was Used</b>				
Never.....	0.6	Q	Q	Q
Only a Few Times When Needed.....	12.1	2.0	0.2	1.8
Quite a Bit.....	7.5	0.7	0.2	0.6
All Summer.....	8.6	0.7	Q	0.5
<b>Energy Star Wall/Window (Most-Used) Unit</b>				
Yes.....	4.6	0.5	Q	0.4
No.....	2.7	0.3	Q	0.2
Don't Know.....	7.0	1.1	Q	0.9
Unit is More Than 4 Years Old.....	14.6	1.8	0.3	1.5
<b>Use a Swamp Cooler (Asked Only in Arid Areas)</b>				
Yes.....	3.4	3.3	2.1	1.1
No.....	41.9	20.1	5.4	14.7
Not Asked.....	65.8	0.8	Q	0.8

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.

**Table HC15.7 Air-Conditioning Usage Indicators by Four Most Populated States, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	Housing Units (millions)	Four Most Populated States			
		New York	Florida	Texas	California
<b>Total</b> .....	111.1	7.1	7.0	8.0	12.1
<b>Do Not Have Cooling Equipment</b> .....	17.8	1.8	Q	Q	4.9
<b>Have Cooling Equipment</b> .....	93.3	5.3	7.0	7.8	7.2
Use Cooling Equipment.....	91.4	5.3	7.0	7.7	6.6
Have Equipment But Do Not Use it.....	1.9	Q	N	Q	0.6
<b>Type of Air-Conditioning Equipment<sup>1, 2</sup></b>					
<b>Central System</b> .....	65.9	1.1	6.4	6.4	5.4
Without a Heat Pump.....	53.5	1.1	3.5	5.7	4.9
With a Heat Pump.....	12.3	Q	2.9	0.7	0.5
<b>Window/Wall Units</b> .....	28.9	4.2	0.5	1.6	1.9
1 Unit.....	14.5	1.8	Q	0.6	1.5
2 Units.....	9.1	1.7	Q	0.6	Q
3 or More Units.....	5.4	0.7	Q	0.5	Q
<b>Central Air-Conditioning Usage</b>					
<b>Air-Conditioned Floorspace (Square Feet)</b>					
None.....	45.2	6.0	0.6	1.6	6.7
1 to 499.....	3.9	Q	0.5	0.5	0.5
500 to 999.....	15.0	Q	1.4	1.8	1.8
1,000 to 1,499.....	15.6	Q	2.0	1.1	1.3
1,500 to 1,999.....	11.1	Q	1.3	1.2	0.7
2,000 to 2,499.....	7.0	Q	0.5	0.7	0.5
2,500 to 2,999.....	5.2	Q	Q	0.4	0.3
3,000 or 3,499.....	2.7	Q	Q	Q	Q
3,500 to 3,999.....	1.8	Q	Q	Q	Q
4,000 or More.....	3.5	Q	Q	0.5	Q
<b>Number of Rooms Cooled by Central Air-Conditioning in Summer 2005</b>					
None.....	1.4	Q	N	Q	0.5
1.....	0.7	N	Q	Q	Q
2.....	2.1	Q	Q	Q	0.4
3.....	7.5	Q	0.7	1.0	0.8
4.....	7.9	Q	1.4	0.5	0.4
5 or More.....	46.3	0.8	4.2	4.5	3.4
<b>Proportion of Rooms Air-Conditioned</b>					
None.....	1.4	Q	N	Q	0.5
Some, But Not All of the Rooms.....	8.4	Q	0.5	0.8	0.9
All of the Rooms.....	56.1	0.9	5.9	5.5	4.0
<b>Frequency of Central Air-Conditioner Use</b>					
Never.....	1.4	Q	N	Q	0.5
Only a Few Times When Needed.....	11.4	0.4	Q	Q	2.4
Quite a Bit.....	12.6	0.3	0.5	0.9	1.3
All Summer.....	40.5	0.4	5.7	5.2	1.2

**Table HC15.7 Air-Conditioning Usage Indicators by Four Most Populated States, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	Housing Units (millions)	Four Most Populated States			
		New York	Florida	Texas	California
<b>At Home Behavior</b>					
<b>Home Used for Business</b>					
Yes.....	6.4	Q	0.7	0.4	0.6
No.....	59.5	1.0	5.8	6.0	4.9
<b>Someone Home All Day</b>					
Yes.....	32.7	0.7	3.3	3.1	3.1
No.....	33.1	0.4	3.1	3.3	2.3
<b>Housing Unit Characteristics Affecting Usage</b>					
<b>Large Tree(s) that Shade the Home</b>					
Yes.....	31.6	0.5	2.1	3.0	2.5
No.....	34.3	0.7	4.3	3.4	2.9
<b>Adequacy of Insulation</b>					
Well Insulated.....	29.5	0.7	2.5	2.7	2.1
Adequately Insulated.....	27.9	0.4	3.0	2.7	2.5
Poorly Insulated.....	7.3	Q	0.7	0.9	0.6
No Insulation.....	0.3	N	Q	Q	Q
Don't Know.....	0.9	N	Q	Q	Q
<b>Home Is Too Drafty During the Winter</b>					
Never.....	42.6	0.7	5.2	4.6	3.3
Some of the Time.....	16.3	0.4	0.8	1.3	1.6
Most of the Time.....	2.5	Q	Q	Q	Q
All of the Time.....	2.2	Q	Q	Q	0.3
Don't Know.....	2.2	N	Q	Q	Q
<b>Unusually High Ceilings</b>					
Yes.....	20.3	0.3	1.3	3.0	2.2
No.....	41.9	0.8	4.7	3.3	3.1
Not Asked (Mobile Homes).....	3.7	N	Q	Q	Q
<b>Cathedral Ceilings (In Housing Units with High Ceilings)</b>					
Yes.....	13.5	Q	1.0	1.9	1.4
No.....	6.7	Q	Q	1.0	0.8
<b>Type of Glass in Windows</b>					
Single-pane Glass.....	27.4	Q	4.9	3.6	2.8
Double-pane Glass					
Without Low-e Coating.....	31.5	0.6	1.3	2.5	2.2
With Low-e Coating.....	5.8	Q	Q	Q	0.3
Triple-pane Glass					
Without Low-e Coating.....	0.8	Q	N	Q	Q
With Low-e Coating.....	Q	N	N	N	Q
<b>Proportion of Windows Replaced</b>					
All.....	11.5	0.3	0.9	0.3	1.0
Some.....	11.1	0.3	0.6	0.9	1.1
None.....	40.9	0.5	4.6	4.6	3.1

**Table HC15.7 Air-Conditioning Usage Indicators by Four Most Populated States, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	Housing Units (millions)	Four Most Populated States			
		New York	Florida	Texas	California
<b>Thermostats</b>					
<b>Thermostat Available During Summer</b>					
Yes.....	63.9	1.1	6.2	6.2	5.3
No.....	1.9	Q	Q	Q	Q
Do Not Use Central Air-Conditioning.....	45.2	6.0	0.6	1.6	6.7
<b>Use a Programmable Thermostat</b>					
Yes.....	25.0	0.8	1.9	2.3	3.6
No.....	38.9	Q	4.3	3.9	1.7
<b>Use of Programmable Thermostats</b>					
<b>Adjusts Temperature During Day</b>					
Yes.....	15.1	0.6	1.1	1.6	2.0
No.....	9.9	Q	0.8	0.7	1.6
<b>Adjusts Temperature at Night</b>					
Yes.....	15.4	0.6	1.0	1.7	2.0
No.....	9.6	Q	0.9	0.6	1.6
Do Not Use Central Air-Conditioning.....	45.2	6.0	0.6	1.6	6.7
<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
No.....	50.8	0.7	6.0	5.9	2.2
Unknown.....	14.5	0.4	Q	0.4	3.2
Do Not Use Central Air-Conditioning.....	45.2	6.0	0.6	1.6	6.7
<b>At Night During Sleeping Hours</b>					
Yes.....	7.3	Q	0.8	1.1	0.3
No.....	44.3	0.7	5.3	4.9	1.9
Unknown.....	14.2	0.4	Q	0.4	3.2
Do Not Use Central Air-Conditioning.....	45.2	6.0	0.6	1.6	6.7
<b>Daytime Setting When Someone is Home</b>					
Air Conditioner Turned On.....	52.0	0.7	6.1	6.0	2.4
69 Degrees or Less.....	4.8	Q	Q	Q	Q
70 Degrees.....	7.2	Q	0.7	0.4	0.3
71 to 73 Degrees.....	8.8	Q	0.5	0.9	0.5
74 to 76 Degrees.....	16.5	Q	2.0	2.1	0.6
77 to 79 Degrees.....	11.1	N	2.1	1.7	0.7
80 Degrees or More.....	3.7	Q	0.7	0.7	Q
Dont Know/No Answer.....	1.1	Q	Q	Q	Q
Do Not Use Central Air Conditioning.....	45.2	6.0	0.6	1.6	6.7
<b>Setting When No One is at Home</b>					
Air Conditioner Turned On.....	49.5	0.6	6.0	5.8	1.7
69 Degrees or Less.....	3.6	Q	Q	Q	Q
70 Degrees.....	5.2	Q	0.4	Q	Q
71 to 73 Degrees.....	6.0	Q	0.4	0.6	Q
74 to 76 Degrees.....	13.8	Q	1.3	1.2	0.2
77 to 79 Degrees.....	10.7	Q	1.8	1.7	0.3
80 Degrees or More.....	10.2	Q	1.9	1.8	0.6
Dont Know/No Answer.....	1.6	Q	Q	Q	0.4
Air-Conditioner Turned Off.....	2.0	Q	Q	Q	0.5
Do Not Use Central Air Conditioning.....	45.2	6.0	0.6	1.6	6.7

**Table HC15.7 Air-Conditioning Usage Indicators by Four Most Populated States, 2005**  
**Million U.S. Housing Units**

Air Conditioning Usage Indicators	Housing Units (millions)	Four Most Populated States			
		New York	Florida	Texas	California
<b>Setting During Seeping Hours</b>					
Air Conditioner Turned On	51.0	0.7	6.1	6.0	1.9
69 Degrees or Less.....	5.7	Q	Q	0.3	Q
70 Degrees.....	7.7	Q	0.6	0.5	0.3
71 to 73 Degrees.....	8.3	Q	0.7	1.0	0.3
74 to 76 Degrees.....	15.5	Q	2.0	2.0	0.4
77 to 79 Degrees.....	9.7	N	1.9	1.4	0.4
80 Degrees or More.....	4.1	Q	0.8	0.7	0.3
Dont Know/No Answer.....	1.3	Q	Q	Q	0.3
Air-Conditioner Turned Off.....	0.8	Q	N	N	0.3
Do Not Use Central Air Conditioning.....	45.2	6.0	0.6	1.6	6.7
<b>Dehumidifier Use Each Year</b>					
Use a Humidifier.....	13.3	1.1	Q	Q	Q
1 to 3 Months Each Year.....	5.1	0.4	Q	Q	Q
4 to 6 Months Each Year.....	4.4	0.4	N	N	Q
7 to 9 Months Each Year.....	0.9	N	N	Q	Q
10 to 11 Months.....	Q	N	N	N	Q
Turned on All Year Long.....	2.6	Q	Q	Q	Q
Do Not Use a Dehumidifier.....	97.8	6.0	6.8	7.8	12.0
<b>Window/Wall Air Conditioners</b>					
<b>Frequency Most Used Unit Was Used</b>					
Never.....	0.6	Q	N	Q	Q
Only a Few Times When Needed.....	12.1	1.9	Q	0.5	1.1
Quite a Bit.....	7.5	1.2	Q	Q	0.4
All Summer.....	8.6	1.0	Q	0.8	0.3
<b>Energy Star Wall/Window (Most-Used) Unit</b>					
Yes.....	4.6	0.9	Q	0.3	Q
No.....	2.7	0.3	Q	Q	Q
Don't Know.....	7.0	1.1	Q	0.3	0.6
Unit is More Than 4 Years Old.....	14.6	1.9	Q	0.7	1.0
<b>Use a Swamp Cooler (Asked Only in Arid Areas)</b>					
Yes.....	3.4	N	N	Q	0.9
No.....	41.9	Q	N	7.9	11.1
Not Asked.....	65.8	7.1	7.0	Q	Q

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.