

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 ¹
		Less than \$20,000	\$20,000 to \$39,999	\$40,000 to \$59,999	\$60,000 to \$79,999	\$80,000 or More		
Total	111.1	26.7	28.8	20.6	13.1	22.0	16.6	38.6
Do Not Have Cooling Equipment	17.8	5.3	4.7	2.8	1.9	3.1	3.6	7.5
Have Cooling Equipment	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
Type of Air-Conditioning Equipment^{1, 2}								
Central System	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
Window/Wall Units	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
Central Air-Conditioning Usage								
Air-Conditioned Floorspace (Square Feet)								
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
Number of Rooms Cooled by Central Air-Conditioning in Summer 2005								
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
Proportion of Rooms Air-Conditioned								
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
Frequency of Central Air-Conditioner Use								
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

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		Less than \$20,000	\$20,000 to \$39,999	\$40,000 to \$59,999	\$60,000 to \$79,999	\$80,000 or More		
At Home Behavior								
Home Used for Business								
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
Someone Home All Day								
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
Housing Unit Characteristics Affecting Usage in Centrally Air-Conditioned Housing Units								
Large Tree(s) that Shade the Home								
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
Adequacy of Insulation								
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
Home Is Too Drafty During the Winter								
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
Unusually High Ceilings								
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
Cathedral Ceilings (In Housing Units with High Ceilings)								
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
Type of Glass in Windows								
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
Proportion of Windows Replaced								
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

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Thermostats								
Thermostat Available During Summer								
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
Use a Programmable Thermostat								
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
Use of Programmable Thermostats								
Adjusts Temperature During Day								
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
Adjusts Temperature at Night								
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
Summer 2005 Temperature Settings								
Higher Temperature Settings								
Daytime When No One is Home								
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
At Night During Sleeping Hours								
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
Daytime Setting When Someone is Home								
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
Don't 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
Daytime Setting When No One is at Home								
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
Don't 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

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		Less than \$20,000	\$20,000 to \$39,999	\$40,000 to \$59,999	\$60,000 to \$79,999	\$80,000 or More		
Setting During Seeping Hours								
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
Don't 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
Dehumidifier Use Each Year								
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
Window/Wall Air Conditioners								
Frequency Most Used Unit Was Used								
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
Energy Star Wall/Window (Most-Used) Unit								
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
Use a Swamp Cooler (Asked Only in Arid Areas)								
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.