

**Table AC6. Average Consumption for Air-Conditioning by Equipment Type, 2005**  
**Million British Thermal Units (Btu) per Household**

	U.S. Households (millions)	Total U.S. Using Any Air-Conditioning Equipment (millions)	Type of Air-Conditioning Equipment (million Btu of consumption per household)		
			Any Air-Conditioning	Central System <sup>5</sup>	Window/Wall Units <sup>6</sup>
<b>Total.....</b>	111.1	91.4	9.6	11.9	4.3
<b>Census Region and Division</b>					
Northeast.....	20.6	16.3	4.5	7.1	3.1
New England.....	5.5	3.7	2.5	5.1	1.9
Middle Atlantic.....	15.1	12.6	5.1	7.4	3.6
Midwest.....	25.6	23.4	6.2	7.3	3.1
East North Central.....	17.7	15.9	5.7	6.8	2.9
West North Central.....	7.9	7.5	7.3	8.2	3.6
South.....	40.7	38.9	14.5	16.0	7.8
South Atlantic.....	21.7	20.7	13.3	14.8	5.8
East South Central.....	6.9	6.6	12.7	14.3	7.0
West South Central.....	12.1	11.7	17.6	19.3	11.1
West.....	24.2	12.9	7.6	9.2	2.5
Mountain.....	7.6	4.3	14.1	15.2	Q
Pacific.....	16.6	8.5	4.2	5.3	2.0
<b>Four Most Populated States</b>					
New York.....	7.1	5.3	4.1	6.8	3.3
Florida.....	7.0	7.0	20.3	21.1	11.1
Texas.....	8.0	7.7	19.3	21.0	11.1
California.....	12.1	6.6	4.7	5.6	2.1
All Other States.....	76.9	65.0	8.3	10.1	4.0
<b>Urban/Rural Location (as Self-Reported)</b>					
City.....	47.1	37.8	9.5	12.1	4.2
Town.....	19.0	15.9	8.5	10.5	4.4
Suburbs.....	22.7	19.8	11.0	12.6	3.5
Rural.....	22.3	18.0	9.5	11.6	4.9
<b>Climate Zone<sup>1</sup></b>					
Less than 2,000 CDD and--					
Greater than 7,000 HDD.....	10.9	7.6	3.1	4.1	1.6
5,500 to 7,000 HDD.....	26.1	21.0	4.8	6.4	2.7
4,000 to 5,499 HDD.....	27.3	23.4	7.4	9.3	4.1
Fewer than 4,000 HDD.....	24.0	17.9	9.1	10.1	5.0
2000 CDD or More and--					
Less than 4,000 HDD.....	22.8	21.7	19.4	20.8	10.8

**Table AC6. Average Consumption for Air-Conditioning by Equipment Type, 2005**  
**Million British Thermal Units (Btu) per Household**

	U.S. Households (millions)	Total U.S. Using Any Air-Conditioning Equipment (millions)	Type of Air-Conditioning Equipment (million Btu of consumption per household)		
			Any Air-Conditioning	Central System <sup>5</sup>	Window/Wall Units <sup>6</sup>
<b>Type of Housing Unit</b>					
Single-Family Detached.....	72.1	60.3	11.0	12.8	4.7
Single-Family Attached.....	7.6	6.0	6.7	7.9	4.5
Apartments in 2-4 Unit Buildings.....	7.8	6.1	6.3	9.5	3.7
Apartments in 5 or More Unit Buildings.....	16.7	13.5	6.6	9.2	3.2
Mobile Homes.....	6.9	5.5	9.2	11.3	5.5
<b>Ownership of Housing Unit</b>					
<b>Owned.....</b>	<b>78.1</b>	<b>65.8</b>			<b>4.5</b>
Single-Family Detached.....	64.1	54.0	11.0	12.6	4.5
Single-Family Attached.....	4.2	3.6	6.3	7.4	4.0
Apartments in 2-4 Unit Buildings.....	1.8	1.7	4.8	7.0	3.3
Apartments in 5 or More Unit Buildings.....	2.3	1.9	7.3	8.4	2.6
Mobile Homes.....	5.7	4.7	9.4	11.5	5.6
<b>Rented.....</b>	<b>33.0</b>	<b>25.7</b>			<b>4.1</b>
Single-Family Detached.....	8.0	6.3	10.8	15.1	5.4
Single-Family Attached.....	3.4	2.5	7.2	8.8	5.0
Apartments in 2-4 Unit Buildings.....	5.9	4.4	6.8	10.4	3.9
Apartments in 5 or More Unit Buildings.....	14.4	11.7	6.5	9.4	3.2
Mobile Homes.....	1.2	0.8	8.4	10.5	5.1
<b>Year of Construction</b>					
Before 1940.....	14.7	10.6	5.7	8.9	4.1
1940 to 1949.....	7.4	5.5	7.9	11.3	4.9
1950 to 1959.....	12.5	10.3	7.9	10.4	4.2
1960 to 1969.....	12.5	10.3	8.6	10.5	5.0
1970 to 1979.....	18.9	15.3	9.5	11.8	3.8
1980 to 1989.....	18.6	15.7	10.7	11.7	5.4
1990 to 1999.....	17.3	15.3	11.8	12.8	3.1
2000 to 2005.....	9.2	8.6	13.4	14.3	1.7

**Table AC6. Average Consumption for Air-Conditioning by Equipment Type, 2005**  
**Million British Thermal Units (Btu) per Household**

	U.S. Households (millions)	Total U.S. Using Any Air-Conditioning Equipment (millions)	Type of Air-Conditioning Equipment (million Btu of consumption per household)		
			Any Air-Conditioning	Central System <sup>5</sup>	Window/Wall Units <sup>6</sup>
<b>Household Size</b>					
1 Person.....	30.0	24.0	6.1	7.9	3.1
2 Persons.....	34.8	29.1	10.1	11.8	4.2
3 Persons.....	18.4	15.5	10.7	13.3	5.2
4 Persons.....	15.9	13.2	11.4	13.6	4.9
5 Persons.....	7.9	6.7	13.1	15.5	5.7
6 or More Persons.....	4.1	3.0	12.8	16.1	6.9
<b>2005 Household Income Category</b>					
Less than \$10,000.....	9.9	7.5	7.0	9.9	4.3
\$10,000 to \$14,999.....	8.5	6.6	6.7	9.5	4.1
\$15,000 to \$19,999.....	8.4	6.9	7.6	9.9	4.9
\$20,000 to \$29,999.....	15.1	12.3	8.2	10.2	4.6
\$30,000 to \$39,999.....	13.6	11.2	10.0	12.0	4.5
\$40,000 to \$49,999.....	11.0	9.3	9.9	11.8	3.7
\$50,000 to \$74,999.....	19.8	16.7	10.5	12.4	4.1
\$75,000 to \$99,999.....	10.6	9.0	10.6	12.4	4.3
\$100,000 or More.....	14.2	12.0	12.9	14.0	3.5
<b>Income Relative to Poverty Line</b>					
Below 100 Percent.....	16.6	12.6	7.7	10.8	4.8
100 to 150 Percent.....	12.9	10.5	8.6	11.3	4.7
Above 150 Percent.....	81.5	68.4	10.2	12.0	4.0
<b>Eligible for Federal Assistance<sup>2</sup></b>					
Yes.....	38.6	30.3	7.9	10.7	4.5
No.....	72.5	61.2	10.5	12.3	4.1
<b>Payment Method for Utilities</b>					
All Paid by Household.....	97.5	81.3	10.0	12.0	4.5
Some Paid, Some in Rent.....	7.6	5.7	5.0	8.4	3.2
All Included in Rent.....	4.7	3.3	7.4	10.4	4.3
Other Method.....	1.3	1.1	9.6	15.1	4.4

**Table AC6. Average Consumption for Air-Conditioning by Equipment Type, 2005**  
**Million British Thermal Units (Btu) per Household**

	U.S. Households (millions)	Total U.S. Using Any Air-Conditioning Equipment (millions)	Type of Air-Conditioning Equipment (million Btu of consumption per household)		
			Any Air-Conditioning	Central System <sup>5</sup>	Window/Wall Units <sup>6</sup>
<b>Ethnic Origin of Householder</b>					
Hispanic Descent.....	14.8	10.7	10.3	13.4	5.6
Non-Hispanic Descent.....	96.3	80.7	9.5	11.7	4.0
<b>Race of Householder<sup>3</sup></b>					
White.....	79.1	66.4	9.6	11.6	4.0
Hispanic.....	5.0	3.4	10.9	13.8	5.6
Non-Hispanic.....	74.1	63.0	9.5	11.5	3.9
Black.....	13.4	11.5	9.9	12.7	4.9
Hispanic.....	0.3	0.2	7.1	12.6	Q
Non-Hispanic.....	13.1	11.2	9.9	12.7	5.0
Asian.....	3.3	2.1	9.1	12.2	3.3
Multi-Racial.....	1.3	1.0	10.5	14.2	3.7
Other.....	7.1	5.4	9.8	12.5	4.1
Undetermined (Race Reported as Hispanic).....	6.9	5.2	9.6	12.7	6.0
<b>Age of Householder</b>					
Under 25 Years.....	5.5	4.6	8.2	10.9	4.9
25 to 34 Years.....	18.2	15.2	9.4	12.1	4.1
35 to 44 Years.....	22.2	18.0	11.7	14.3	4.8
45 to 54 Years.....	23.3	19.3	10.5	12.3	4.9
55 to 64 Years.....	18.0	14.5	10.0	11.9	4.6
65 to 74 Years.....	12.3	10.0	7.7	9.4	3.7
75 Years or More.....	11.7	9.9	6.4	8.4	2.8
<b>Adults Age 65 or Older in Household</b>					
Yes.....	26.9	22.1	7.7	9.6	3.7
No.....	84.2	69.4	10.2	12.5	4.5
<b>Children Under Age 5 in Household</b>					
Yes.....	15.0	12.6	11.4	14.5	5.0
No.....	96.1	78.9	9.3	11.5	4.2
<b>Children Age 5 to 16 in Household</b>					
Yes.....	28.1	23.1	11.8	13.9	5.8
No.....	83.0	68.3	8.9	11.1	3.9

**Table AC6. Average Consumption for Air-Conditioning by Equipment Type, 2005**  
**Million British Thermal Units (Btu) per Household**

	U.S. Households (millions)	Total U.S. Using Any Air-Conditioning Equipment (millions)	Type of Air-Conditioning Equipment (million Btu of consumption per household)		
			Any Air-Conditioning	Central System <sup>5</sup>	Window/Wall Units <sup>6</sup>
<b>Age of Central Air-Conditioner</b>					
<b>Used by One Housing Unit</b>					
Less than 2 Years.....	9.0	8.9	12.9	12.9	N
2 to 4 Years.....	11.0	10.9	12.9	12.9	N
5 to 9 Years.....	16.3	16.1	12.2	12.2	N
10 to 19 Years.....	16.8	16.4	11.4	11.4	N
20 Years or More.....	6.5	6.2	10.7	10.7	N
Don't Know.....	4.5	4.4	10.6	10.6	N
<b>Used by Two or More Housing Units</b>					
Less than 2 Years.....	Q	Q	5.9	5.9	N
2 to 4 Years.....	Q	Q	5.3	5.3	N
5 to 9 Years.....	0.3	0.3	7.3	7.3	N
10 to 19 Years.....	0.3	Q	11.8	11.8	N
20 Years or More.....	0.3	Q	11.9	11.9	N
Don't Know.....	0.7	0.7	7.5	7.5	N
<b>Age of Most-Used Window/Wall Unit</b>					
Less than 2 Years.....	6.4	6.4	5.2	19.3	4.4
2 to 4 Years.....	7.8	7.7	4.9	16.6	4.4
5 to 9 Years.....	7.0	6.9	5.0	14.9	4.3
10 to 19 Years.....	3.7	3.6	4.8	9.7	4.6
20 Years or More.....	2.1	2.0	4.2	12.0	3.8
Don't Know.....	1.8	1.7	3.8	27.6	3.4
<b>Cooled Floorspace (Square Feet)</b>					
Fewer than 500.....	37.6	18.0	4.0	7.6	3.4
500 to 999.....	19.9	19.9	7.5	9.0	5.0
1,000 to 1,499.....	14.3	14.3	9.9	10.7	5.7
1,500 to 1,999.....	9.9	9.9	12.3	12.9	7.5
2,000 to 2,499.....	7.5	7.5	12.2	12.5	6.2
2,500 to 2,999.....	6.1	6.1	12.1	12.3	6.3
3,000 or 3,499.....	4.3	4.3	11.9	11.9	Q
3,500 to 3,999.....	2.9	2.9	14.1	14.2	4.9
4,000 or More.....	8.7	8.7	16.1	16.1	4.7

**Table AC6. Average Consumption for Air-Conditioning by Equipment Type, 2005**  
**Million British Thermal Units (Btu) per Household**

	U.S. Households (millions)	Total U.S. Using Any Air-Conditioning Equipment (millions)	Type of Air-Conditioning Equipment (million Btu of consumption per household)		
			Any Air-Conditioning	Central System <sup>5</sup>	Window/Wall Units <sup>6</sup>
<b>Proportion of Rooms Air-Conditioned<sup>4</sup></b>					
None.....	1.4	Q	26.7	26.7	N
Some, But Not all of the Rooms.....	8.4	8.4	7.2	7.2	N
All of the Rooms.....	56.1	56.1	12.5	12.5	N
<b>Frequency of Central Air-Conditioner Use</b>					
Never.....	1.4	Q	26.7	26.7	N
Only a Few Times When Needed.....	11.4	11.4	3.6	3.6	N
Quite a Bit.....	12.6	12.6	8.1	8.1	N
All Summer.....	40.5	40.5	15.3	15.3	N
<b>Frequency of Most Used Window/Wall Unit</b>					
Never.....	0.6	Q	19.1	19.1	N
Only a Few Times When Needed.....	12.1	12.1	2.5	10.5	2.0
Quite a Bit.....	7.5	7.5	4.3	16.8	3.6
All Summer.....	8.6	8.6	8.6	26.6	8.0
<b>Weekday Home Activities</b>					
<b>Home Used for Business</b>					
Yes.....	8.9	7.5	12.4	14.0	3.8
No.....	102.2	83.9	9.4	11.6	4.3
<b>Energy-Intensive Activity</b>					
Yes.....	2.2	1.6	10.1	12.1	4.4
No.....	108.9	89.8	9.6	11.9	4.3
<b>Someone Home All Day</b>					
Yes.....	56.4	46.5	9.7	12.2	4.4
No.....	54.7	45.0	9.5	11.6	4.2
<b>Adequacy of Insulation</b>					
Well Insulated.....	42.8	37.2	9.9	11.7	3.5
Adequately Insulated.....	46.3	37.9	9.8	12.0	4.2
Poorly Insulated.....	19.0	14.2	8.7	12.1	5.3
No Insulation.....	1.4	0.8	8.0	12.3	6.4
Don't Know.....	1.7	1.4	8.5	11.3	4.1

**Table AC6. Average Consumption for Air-Conditioning by Equipment Type, 2005**  
**Million British Thermal Units (Btu) per Household**

	U.S. Households (millions)	Total U.S. Using Any Air-Conditioning Equipment (millions)	Type of Air-Conditioning Equipment (million Btu of consumption per household)		
			Any Air-Conditioning	Central System <sup>5</sup>	Window/Wall Units <sup>6</sup>
<b>Home is Too Drafty During the Winter</b>					
Never.....	62.9	53.8	10.4	12.3	3.8
Some of the Time.....	32.4	25.8	8.6	10.9	4.7
Most of the Time.....	6.1	4.3	8.1	11.2	3.9
All of the Time.....	5.6	4.0	7.7	9.5	5.8
Don't Know.....	4.1	3.5	9.9	13.5	4.3
<b>Unusually High Ceilings</b>					
Yes.....	27.2	23.3	12.5	13.9	4.2
No.....	76.9	62.6	8.6	10.9	4.2
Not Asked (Mobile Homes).....	6.9	5.5	9.2	11.3	5.5
<b>Cathedral Ceilings</b> (In Housing Units with High Ceilings)					
Yes.....	17.1	14.5	13.0	13.9	3.3
No.....	10.1	8.7	11.6	13.8	4.7
<b>Type of Glass in Windows</b>					
Single-pane Glass.....	50.7	41.2	10.2	12.9	5.1
Double-pane Glass					
Without Low-e Coating.....	50.6	42.1	9.1	11.1	3.4
With Low-e Coating.....	8.0	6.7	9.6	10.9	2.0
Triple-pane Glass					
Without Low-e Coating.....	1.0	0.9	10.0	10.5	7.6
With Low-e Coating.....	0.3	0.3	9.3	11.5	2.0
<b>Proportion of Original Windows Replaced</b>					
All.....	22.4	18.1	7.5	10.0	3.4
Some.....	21.6	16.9	8.7	11.0	4.7
None.....	62.3	52.7	10.8	12.7	4.7
Don't Know.....	4.7	3.7	7.9	11.0	2.9

**Table AC6. Average Consumption for Air-Conditioning by Equipment Type, 2005**  
**Million British Thermal Units (Btu) per Household**

	U.S. Households (millions)	Total U.S. Using Any Air-Conditioning Equipment (millions)	Type of Air-Conditioning Equipment (million Btu of consumption per household)		
			Any Air-Conditioning	Central System <sup>5</sup>	Window/Wall Units <sup>6</sup>
<b>Thermostats</b>					
<b>Do Not Have a Thermostat</b> .....	15.3	10.4	7.7	14.0	6.1
<b>Have a Thermostat</b> .....	95.8	81.1	9.9	11.8	3.5
1.....	84.5	71.3	9.7	11.5	3.6
2 or More.....	11.3	9.8	10.9	14.3	3.1
<b>Have a Programmable Thermostat</b>					
Yes.....	33.1	28.7	10.5	11.8	2.9
No.....	62.7	52.4	9.5	11.8	3.7
<b>Use of Programmable Thermostats</b>					
<b>Reduces Temperature During Day</b>					
Yes.....	18.6	16.3	10.2	11.5	2.6
No.....	14.5	12.4	10.9	12.2	3.2
<b>Reduces Temperature at Night</b>					
Yes.....	21.5	18.6	10.4	11.7	2.6
No.....	11.6	10.1	10.7	11.9	3.5

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 Below 150 percent of poverty line or 60 percent of median state income.

3 Respondents were permitted to select more than one racial category to describe themselves. The "Other" category includes Native Americans, Native Alaskans, and Pacific Islanders.

4 Only applies to households using central air-conditioning.

5 In the 2005 RECS, 1.5 million housing units reported having both central and window/wall air conditioners. They are included in this column.

6 In the 2005 RECS, 1.5 million housing units reported having both central and window/wall air conditioners. They are not included in this column.

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 the reporting sample.

(\*) Number less than 0.5, 0.05, or 0.005 depending on the number of significant digits in the column, rounded to zero.

Notes: ● Because of rounding, data may not sum to totals. ● See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-457 A-G of the 2005 Residential Energy Consumption Survey.