

Table AC2. Total Consumption for Air-Conditioning by Equipment Type, 2005
Billion kWh

	U.S. Households (millions)	Total U.S. Using Any Air-Conditioning Equipment (millions)	Type of Air-Conditioning Equipment (billion kWh)		
			Total	Central System ⁵	Window/Wall Units ⁶
Total	111.1	91.4	258.0	224.0	34.0
Census Region and Division					
Northeast.....	20.6	16.3	22.0	12.0	10.0
New England.....	5.5	3.7	3.0	1.0	2.0
Middle Atlantic.....	15.1	12.6	19.0	11.0	8.0
Midwest.....	25.6	23.4	42.0	37.0	6.0
East North Central.....	17.7	15.9	26.0	22.0	4.0
West North Central.....	7.9	7.5	16.0	14.0	2.0
South.....	40.7	38.9	166.0	149.0	16.0
South Atlantic.....	21.7	20.7	81.0	75.0	6.0
East South Central.....	6.9	6.6	24.0	21.0	3.0
West South Central.....	12.1	11.7	60.0	52.0	8.0
West.....	24.2	12.9	29.0	26.0	2.0
Mountain.....	7.6	4.3	18.0	17.0	Q
Pacific.....	16.6	8.5	11.0	9.0	2.0
Four Most Populated States					
New York.....	7.1	5.3	6.0	2.0	4.0
Florida.....	7.0	7.0	41.0	40.0	2.0
Texas.....	8.0	7.7	43.0	39.0	4.0
California.....	12.1	6.6	9.0	8.0	1.0
All Other States.....	76.9	65.0	158.0	135.0	23.0
Urban/Rural Location (as Self-Reported)					
City.....	47.1	37.8	105.0	89.0	15.0
Town.....	19.0	15.9	40.0	33.0	7.0
Suburbs.....	22.7	19.8	64.0	60.0	4.0
Rural.....	22.3	18.0	50.0	42.0	8.0
Climate Zone¹					
Less than 2,000 CDD and--					
Greater than 7,000 HDD.....	10.9	7.6	7.0	6.0	1.0
5,500 to 7,000 HDD.....	26.1	21.0	30.0	23.0	7.0
4,000 to 5,499 HDD.....	27.3	23.4	51.0	40.0	10.0
Fewer than 4,000 HDD.....	24.0	17.9	48.0	43.0	5.0
2000 CDD or More and--					
Less than 4,000 HDD.....	22.8	21.7	123.0	113.0	10.0

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Type of Housing Unit					
Single-Family Detached.....	72.1	60.3	194.0	175.0	19.0
Single-Family Attached.....	7.6	6.0	12.0	9.0	3.0
Apartments in 2-4 Unit Buildings.....	7.8	6.1	11.0	7.0	4.0
Apartments in 5 or More Unit Buildings.....	16.7	13.5	26.0	21.0	5.0
Mobile Homes.....	6.9	5.5	15.0	12.0	3.0
Ownership of Housing Unit					
Owned.....	78.1	65.8	200.0	181.0	20.0
Single-Family Detached.....	64.1	54.0	174.0	160.0	14.0
Single-Family Attached.....	4.2	3.6	7.0	5.0	1.0
Apartments in 2-4 Unit Buildings.....	1.8	1.7	2.0	1.0	1.0
Apartments in 5 or More Unit Buildings.....	2.3	1.9	4.0	4.0	(*)
Mobile Homes.....	5.7	4.7	13.0	10.0	3.0
Rented.....	33.0	25.7	58.0	44.0	14.0
Single-Family Detached.....	8.0	6.3	20.0	15.0	4.0
Single-Family Attached.....	3.4	2.5	5.0	4.0	1.0
Apartments in 2-4 Unit Buildings.....	5.9	4.4	9.0	6.0	3.0
Apartments in 5 or More Unit Buildings.....	14.4	11.7	22.0	17.0	5.0
Mobile Homes.....	1.2	0.8	2.0	2.0	(*)
Year of Construction					
Before 1940.....	14.7	10.6	18.0	9.0	8.0
1940 to 1949.....	7.4	5.5	13.0	8.0	4.0
1950 to 1959.....	12.5	10.3	24.0	18.0	5.0
1960 to 1969.....	12.5	10.3	26.0	21.0	5.0
1970 to 1979.....	18.9	15.3	42.0	37.0	5.0
1980 to 1989.....	18.6	15.7	49.0	45.0	4.0
1990 to 1999.....	17.3	15.3	53.0	51.0	1.0
2000 to 2005.....	9.2	8.6	34.0	34.0	(*)

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Household Size					
1 Person.....	30.0	24.0	43.0	35.0	8.0
2 Persons.....	34.8	29.1	86.0	77.0	8.0
3 Persons.....	18.4	15.5	49.0	41.0	8.0
4 Persons.....	15.9	13.2	44.0	39.0	5.0
5 Persons.....	7.9	6.7	26.0	23.0	3.0
6 or More Persons.....	4.1	3.0	11.0	9.0	2.0
2005 Household Income Category					
Less than \$10,000.....	9.9	7.5	15.0	11.0	5.0
\$10,000 to \$14,999.....	8.5	6.6	13.0	9.0	4.0
\$15,000 to \$19,999.....	8.4	6.9	15.0	11.0	4.0
\$20,000 to \$29,999.....	15.1	12.3	30.0	23.0	6.0
\$30,000 to \$39,999.....	13.6	11.2	33.0	29.0	4.0
\$40,000 to \$49,999.....	11.0	9.3	27.0	25.0	2.0
\$50,000 to \$74,999.....	19.8	16.7	51.0	46.0	5.0
\$75,000 to \$99,999.....	10.6	9.0	28.0	25.0	3.0
\$100,000 or More.....	14.2	12.0	46.0	44.0	1.0
Income Relative to Poverty Line					
Below 100 Percent.....	16.6	12.6	28.0	19.0	9.0
100 to 150 Percent.....	12.9	10.5	26.0	20.0	6.0
Above 150 Percent.....	81.5	68.4	204.0	185.0	19.0
Eligible for Federal Assistance²					
Yes.....	38.6	30.3	70.0	52.0	18.0
No.....	72.5	61.2	188.0	172.0	16.0
Payment Method for Utilities					
All Paid by Household.....	97.5	81.3	239.0	212.0	28.0
Some Paid, Some in Rent.....	7.6	5.7	8.0	5.0	3.0
All Included in Rent.....	4.7	3.3	7.0	5.0	2.0
Other Method.....	1.3	1.1	3.0	2.0	1.0

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Ethnic Origin of Householder					
Hispanic Descent.....	14.8	10.7	32.0	25.0	7.0
Non-Hispanic Descent.....	96.3	80.7	226.0	199.0	27.0
Race of Householder³					
White.....	79.1	66.4	186.0	166.0	20.0
Hispanic.....	5.0	3.4	11.0	9.0	2.0
Non-Hispanic.....	74.1	63.0	176.0	157.0	18.0
Black.....	13.4	11.5	33.0	27.0	6.0
Hispanic.....	0.3	0.2	Q	Q	Q
Non-Hispanic.....	13.1	11.2	33.0	27.0	6.0
Asian.....	3.3	2.1	5.0	5.0	1.0
Multi-Racial.....	1.3	1.0	3.0	3.0	(*)
Other.....	7.1	5.4	15.0	13.0	2.0
Undetermined (Race Reported as Hispanic).....	6.9	5.2	15.0	10.0	4.0
Age of Householder					
Under 25 Years.....	5.5	4.6	11.0	8.0	3.0
25 to 34 Years.....	18.2	15.2	42.0	36.0	6.0
35 to 44 Years.....	22.2	18.0	62.0	55.0	7.0
45 to 54 Years.....	23.3	19.3	59.0	52.0	7.0
55 to 64 Years.....	18.0	14.5	43.0	38.0	5.0
65 to 74 Years.....	12.3	10.0	23.0	19.0	3.0
75 Years or More.....	11.7	9.9	19.0	16.0	3.0
Adults Age 65 or Older in Household					
Yes.....	26.9	22.1	50.0	42.0	8.0
No.....	84.2	69.4	208.0	182.0	26.0
Children Under Age 5 in Household					
Yes.....	15.0	12.6	42.0	36.0	6.0
No.....	96.1	78.9	216.0	188.0	28.0
Children Age 5 to 16 in Household					
Yes.....	28.1	23.1	80.0	70.0	10.0
No.....	83.0	68.3	178.0	154.0	24.0

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Age of Central Air-Conditioner Used by One Housing Unit					
Less than 2 Years.....	9.0	8.9	34.0	34.0	N
2 to 4 Years.....	11.0	10.9	41.0	41.0	N
5 to 9 Years.....	16.3	16.1	58.0	58.0	N
10 to 19 Years.....	16.8	16.4	55.0	55.0	N
20 Years or More.....	6.5	6.2	19.0	19.0	N
Don't Know.....	4.5	4.4	14.0	14.0	N
Used by Two or More Housing Units					
Less than 2 Years.....	Q	Q	Q	Q	N
2 to 4 Years.....	Q	Q	Q	Q	N
5 to 9 Years.....	0.3	0.3	1.0	1.0	N
10 to 19 Years.....	0.3	Q	Q	Q	N
20 Years or More.....	0.3	Q	Q	Q	N
Don't Know.....	0.7	0.7	2.0	2.0	N
Age of Most-Used Window/Wall Unit					
Less than 2 Years.....	6.4	6.4	10.0	2.0	8.0
2 to 4 Years.....	7.8	7.7	11.0	2.0	9.0
5 to 9 Years.....	7.0	6.9	10.0	2.0	8.0
10 to 19 Years.....	3.7	3.6	5.0	Q	5.0
20 Years or More.....	2.1	2.0	2.0	Q	2.0
Don't Know.....	1.8	1.7	2.0	Q	2.0
Cooled Floorspace (Square Feet)					
Fewer than 500.....	37.6	18.0	21.0	6.0	15.0
500 to 999.....	19.9	19.9	44.0	33.0	11.0
1,000 to 1,499.....	14.3	14.3	41.0	37.0	4.0
1,500 to 1,999.....	9.9	9.9	36.0	34.0	2.0
2,000 to 2,499.....	7.5	7.5	27.0	26.0	1.0
2,500 to 2,999.....	6.1	6.1	22.0	21.0	(*)
3,000 or 3,499.....	4.3	4.3	15.0	15.0	Q
3,500 to 3,999.....	2.9	2.9	12.0	12.0	Q
4,000 or More.....	8.7	8.7	41.0	41.0	Q

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Proportion of Rooms Air-Conditioned⁴					
None.....	1.4	Q	Q	Q	N
Some, But Not all of the Rooms.....	8.4	8.4	18.0	18.0	N
All of the Rooms.....	56.1	56.1	206.0	206.0	N
Frequency of Central Air-Conditioner Use					
Never.....	1.4	Q	Q	Q	N
Only a Few Times When Needed.....	11.4	11.4	12.0	12.0	N
Quite a Bit.....	12.6	12.6	30.0	30.0	N
All Summer.....	40.5	40.5	182.0	182.0	N
Frequency of Most Used Window/Wall Unit					
Never.....	0.6	Q	Q	Q	N
Only a Few Times When Needed.....	12.1	12.1	9.0	2.0	7.0
Quite a Bit.....	7.5	7.5	9.0	2.0	8.0
All Summer.....	8.6	8.6	22.0	2.0	20.0
Weekday Home Activities					
Home Used for Business					
Yes.....	8.9	7.5	27.0	26.0	1.0
No.....	102.2	83.9	231.0	198.0	33.0
Energy-Intensive Activity					
Yes.....	2.2	1.6	5.0	4.0	1.0
No.....	108.9	89.8	253.0	220.0	33.0
Someone Home All Day					
Yes.....	56.4	46.5	133.0	114.0	18.0
No.....	54.7	45.0	125.0	110.0	15.0
Adequacy of Insulation					
Well Insulated.....	42.8	37.2	108.0	100.0	8.0
Adequately Insulated.....	46.3	37.9	109.0	96.0	13.0
Poorly Insulated.....	19.0	14.2	36.0	25.0	11.0
No Insulation.....	1.4	0.8	2.0	Q	1.0
Don't Know.....	1.7	1.4	4.0	3.0	1.0

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Home is Too Drafty During the Winter					
Never.....	62.9	53.8	164.0	151.0	13.0
Some of the Time.....	32.4	25.8	65.0	51.0	13.0
Most of the Time.....	6.1	4.3	10.0	8.0	2.0
All of the Time.....	5.6	4.0	9.0	6.0	3.0
Don't Know.....	4.1	3.5	10.0	8.0	2.0
Unusually High Ceilings					
Yes.....	27.2	23.3	85.0	81.0	4.0
No.....	76.9	62.6	158.0	131.0	27.0
Not Asked (Mobile Homes).....	6.9	5.5	15.0	12.0	3.0
Cathedral Ceilings (In Housing Units with High Ceilings)					
Yes.....	17.1	14.5	55.0	54.0	1.0
No.....	10.1	8.7	30.0	27.0	3.0
Type of Glass in Windows					
Single-pane Glass.....	50.7	41.2	123.0	101.0	22.0
Double-pane Glass					
Without Low-e Coating.....	50.6	42.1	112.0	101.0	11.0
With Low-e Coating.....	8.0	6.7	19.0	18.0	1.0
Triple-pane Glass					
Without Low-e Coating.....	1.0	0.9	3.0	2.0	Q
With Low-e Coating.....	0.3	0.3	1.0	Q	Q
Proportion of Original Windows Replaced					
All.....	22.4	18.1	40.0	33.0	7.0
Some.....	21.6	16.9	43.0	35.0	8.0
None.....	62.3	52.7	166.0	149.0	17.0
Don't Know.....	4.7	3.7	9.0	7.0	1.0

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Thermostats					
Do Not Have a Thermostat	15.3	10.4	24.0	9.0	15.0
Have a Thermostat	95.8	81.1	235.0	215.0	19.0
1.....	84.5	71.3	203.0	187.0	17.0
2 or More.....	11.3	9.8	31.0	28.0	3.0
Have a Programmable Thermostat					
Yes.....	33.1	28.7	89.0	85.0	3.0
No.....	62.7	52.4	146.0	130.0	16.0
Use of Programmable Thermostats					
Reduces Temperature During Day					
Yes.....	18.6	16.3	49.0	47.0	2.0
No.....	14.5	12.4	40.0	38.0	2.0
Reduces Temperature at Night					
Yes.....	21.5	18.6	57.0	55.0	2.0
No.....	11.6	10.1	32.0	30.0	1.0

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.