

Table AC7. Average Expenditures for Air-Conditioning by Equipment Type, 2005
Dollars per Household

	U.S. Households (millions)	Total U.S. Using Any Air-Conditioning Equipment (millions)	Type of Air-Conditioning Equipment (Dollars per household)		
			Any Air-Conditioning	Central System ⁵	Window/Wall Units ⁶
Total.....	111.1	91.4	276	335	136
Census Region and Division					
Northeast.....	20.6	16.3	176	257	131
New England.....	5.5	3.7	98	193	74
Middle Atlantic.....	15.1	12.6	199	266	154
Midwest.....	25.6	23.4	154	181	80
East North Central.....	17.7	15.9	145	173	78
West North Central.....	7.9	7.5	174	197	87
South.....	40.7	38.9	405	448	216
South Atlantic.....	21.7	20.7	370	409	160
East South Central.....	6.9	6.6	280	313	164
West South Central.....	12.1	11.7	539	596	321
West.....	24.2	12.8	235	283	84
Mountain.....	7.6	4.3	394	418	161
Pacific.....	16.6	8.5	155	194	73
Four Most Populated States					
New York.....	7.1	5.3	197	301	169
Florida.....	7.0	7.0	597	617	360
Texas.....	8.0	7.7	634	689	364
California.....	12.1	6.6	177	214	71
All Other States.....	76.9	64.9	216	260	113
Urban/Rural Location (as Self-Reported)					
City.....	47.1	37.7	279	348	140
Town.....	19.0	15.9	244	297	134
Suburbs.....	22.7	19.8	319	361	122
Rural.....	22.3	18.0	253	306	139
Climate Zone¹					
Less than 2,000 CDD and--					
Greater than 7,000 HDD.....	10.9	7.6	90	115	48
5,500 to 7,000 HDD.....	26.1	20.9	138	176	87
4,000 to 5,499 HDD.....	27.3	23.4	206	239	147
Fewer than 4,000 HDD.....	24.0	17.9	252	281	136
2000 CDD or More and--					
Less than 4,000 HDD.....	22.8	21.7	572	613	326

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Type of Housing Unit					
Single-Family Detached.....	72.1	60.3	312	361	142
Single-Family Attached.....	7.6	6.0	203	237	143
Apartments in 2-4 Unit Buildings.....	7.8	6.1	204	283	141
Apartments in 5 or More Unit Buildings.....	16.7	13.5	195	258	113
Mobile Homes.....	6.9	5.4	249	301	155
Ownership of Housing Unit					
Owned.....	78.1	65.7	295	341	139
Single-Family Detached.....	64.1	54.0	312	355	138
Single-Family Attached.....	4.2	3.6	201	229	141
Apartments in 2-4 Unit Buildings.....	1.8	1.7	172	213	142
Apartments in 5 or More Unit Buildings.....	2.3	1.9	216	246	91
Mobile Homes.....	5.7	4.6	252	304	155
Rented.....	33.0	25.7	228	313	133
Single-Family Detached.....	8.0	6.3	310	436	156
Single-Family Attached.....	3.4	2.5	207	250	145
Apartments in 2-4 Unit Buildings.....	5.9	4.4	216	309	140
Apartments in 5 or More Unit Buildings.....	14.4	11.7	192	262	114
Mobile Homes.....	1.2	0.8	232	280	159
Year of Construction					
Before 1940.....	14.7	10.6	171	238	136
1940 to 1949.....	7.4	5.5	236	317	167
1950 to 1959.....	12.5	10.3	233	301	137
1960 to 1969.....	12.5	10.3	241	287	153
1970 to 1979.....	18.9	15.3	270	333	114
1980 to 1989.....	18.6	15.7	306	337	154
1990 to 1999.....	17.3	15.2	330	356	101
2000 to 2005.....	9.2	8.6	389	413	59

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Household Size					
1 Person.....	30.0	23.9	177	226	97
2 Persons.....	34.8	29.1	286	334	128
3 Persons.....	18.4	15.5	302	368	162
4 Persons.....	15.9	13.1	325	383	158
5 Persons.....	7.9	6.7	387	445	204
6 or More Persons.....	4.1	3.0	385	471	231
2005 Household Income Category					
Less than \$10,000.....	9.9	7.5	206	287	129
\$10,000 to \$14,999.....	8.5	6.6	195	260	131
\$15,000 to \$19,999.....	8.4	6.9	213	257	159
\$20,000 to \$29,999.....	15.1	12.3	234	288	139
\$30,000 to \$39,999.....	13.6	11.2	279	330	133
\$40,000 to \$49,999.....	11.0	9.3	277	325	119
\$50,000 to \$74,999.....	19.8	16.6	303	353	135
\$75,000 to \$99,999.....	10.6	9.0	312	360	144
\$100,000 or More.....	14.2	12.0	380	407	141
Income Relative to Poverty Line					
Below 100 Percent.....	16.6	12.6	226	306	152
100 to 150 Percent.....	12.9	10.5	243	311	146
Above 150 Percent.....	81.5	68.4	291	341	127
Eligible for Federal Assistance²					
Yes.....	38.6	30.3	230	300	144
No.....	72.5	61.1	300	347	129
Payment Method for Utilities					
All Paid by Household.....	97.5	81.2	287	339	137
Some Paid, Some in Rent.....	7.6	5.7	169	237	131
All Included in Rent.....	4.7	3.3	207	277	136
Other Method.....	1.3	1.1	260	383	145

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Ethnic Origin of Householder					
Hispanic Descent.....	14.8	10.7	326	409	204
Non-Hispanic Descent.....	96.3	80.6	270	327	123
Race of Householder³					
White.....	79.1	66.3	270	324	118
Hispanic.....	5.0	3.4	330	412	179
Non-Hispanic.....	74.1	62.9	266	320	113
Black.....	13.4	11.5	284	356	158
Hispanic.....	0.3	0.2	192	Q	Q
Non-Hispanic.....	13.1	11.2	286	357	159
Asian.....	3.3	2.1	282	364	129
Multi-Racial.....	1.3	1.0	281	386	90
Other.....	7.1	5.4	303	376	153
Undetermined (Race Reported as Hispanic).....	6.9	5.2	319	395	230
Age of Householder					
Under 25 Years.....	5.5	4.6	238	311	148
25 to 34 Years.....	18.2	15.2	276	348	131
35 to 44 Years.....	22.2	18.0	339	408	154
45 to 54 Years.....	23.3	19.3	298	344	155
55 to 64 Years.....	18.0	14.5	285	331	149
65 to 74 Years.....	12.3	10.0	220	265	116
75 Years or More.....	11.7	9.9	187	238	91
Adults Age 65 or Older in Household					
Yes.....	26.9	22.1	221	270	119
No.....	84.2	69.3	294	354	143
Children Under Age 5 in Household					
Yes.....	15.0	12.6	336	423	156
No.....	96.1	78.8	267	321	133
Children Age 5 to 16 in Household					
Yes.....	28.1	23.1	340	392	190
No.....	83.0	68.2	255	314	121

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Age of Central Air-Conditioner					
Used by One Housing Unit					
Less than 2 Years.....	9.0	8.9	374	374	N
2 to 4 Years.....	11.0	10.9	365	365	N
5 to 9 Years.....	16.3	16.1	337	337	N
10 to 19 Years.....	16.8	16.4	316	316	N
20 Years or More.....	6.5	6.2	311	311	N
Don't Know.....	4.5	4.4	305	305	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	226	226	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	208	208	N
Age of Most-Used Window/Wall Unit					
Less than 2 Years.....	6.4	6.4	162	490	142
2 to 4 Years.....	7.8	7.6	162	516	146
5 to 9 Years.....	7.0	6.9	153	374	139
10 to 19 Years.....	3.7	3.6	140	Q	134
20 Years or More.....	2.1	2.0	123	Q	111
Don't Know.....	1.8	1.7	108	Q	99
Cooled Floorspace (Square Feet)					
Fewer than 500.....	37.6	17.9	126	227	108
500 to 999.....	19.9	19.9	221	257	163
1,000 to 1,499.....	14.3	14.3	281	302	175
1,500 to 1,999.....	9.9	9.9	348	360	234
2,000 to 2,499.....	7.5	7.5	342	349	206
2,500 to 2,999.....	6.1	6.1	340	348	164
3,000 or 3,499.....	4.3	4.3	332	334	Q
3,500 to 3,999.....	2.9	2.9	394	396	Q
4,000 or More.....	8.7	8.7	458	459	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	205	205	N
All of the Rooms.....	56.1	56.1	354	354	N
Frequency of Central Air-Conditioner Use					
Never.....	1.4	Q	Q	Q	N
Only a Few Times When Needed.....	11.4	11.4	111	111	N
Quite a Bit.....	12.6	12.6	235	235	N
All Summer.....	40.5	40.5	429	429	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	82	284	71
Quite a Bit.....	7.5	7.5	135	449	117
All Summer.....	8.6	8.6	258	757	242
Weekday Home Activities					
Home Used for Business					
Yes.....	8.9	7.5	353	398	118
No.....	102.2	83.8	270	328	137
Energy-Intensive Activity					
Yes.....	2.2	1.6	303	365	134
No.....	108.9	89.7	276	334	136
Someone Home All Day					
Yes.....	56.4	46.5	280	344	139
No.....	54.7	44.9	273	326	134
Adequacy of Insulation					
Well Insulated.....	42.8	37.1	282	330	113
Adequately Insulated.....	46.3	37.9	281	338	135
Poorly Insulated.....	19.0	14.1	253	345	159
No Insulation.....	1.4	0.8	256	Q	218
Don't Know.....	1.7	1.4	254	325	139

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Home is Too Drafty During the Winter					
Never.....	62.9	53.8	297	348	122
Some of the Time.....	32.4	25.8	247	306	149
Most of the Time.....	6.1	4.3	234	313	129
All of the Time.....	5.6	4.0	218	270	163
Don't Know.....	4.1	3.5	293	391	142
Unusually High Ceilings					
Yes.....	27.2	23.3	362	399	141
No.....	76.9	62.6	247	307	134
Not Asked (Mobile Homes).....	6.9	5.4	249	301	155
Cathedral Ceilings (In Housing Units with High Ceilings)					
Yes.....	17.1	14.5	381	406	115
No.....	10.1	8.7	331	384	156
Type of Glass in Windows					
Single-pane Glass.....	50.7	41.2	295	372	156
Double-pane Glass					
Without Low-e Coating.....	50.6	42.0	260	311	114
With Low-e Coating.....	8.0	6.7	266	296	85
Triple-pane Glass					
Without Low-e Coating.....	1.0	0.9	276	296	Q
With Low-e Coating.....	0.3	0.3	252	Q	Q
Proportion of Original Windows Replaced					
All.....	22.4	18.1	222	284	119
Some.....	21.6	16.9	249	306	147
None.....	62.3	52.7	308	358	146
Don't Know.....	4.7	3.7	228	313	92

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Thermostats					
Do Not Have a Thermostat	15.3	10.4	237	399	194
Have a Thermostat	95.8	81.0	282	333	111
1.....	84.5	71.2	277	323	113
2 or More.....	11.3	9.8	315	410	102
Have a Programmable Thermostat					
Yes.....	33.1	28.6	314	347	110
No.....	62.7	52.3	264	323	111
Use of Programmable Thermostats					
Reduces Temperature During Day					
Yes.....	18.6	16.3	312	346	103
No.....	14.5	12.4	316	348	118
Reduces Temperature at Night					
Yes.....	21.5	18.6	315	350	99
No.....	11.6	10.0	313	341	130

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.