

Table AC5. Average Consumption for Air-Conditioning by Equipment Type, 2005
kWh per Household

	U.S. Households (millions)	Total U.S. Using Any Air-Conditioning Equipment (millions)	Type of Air-Conditioning Equipment (kWh of consumption per household)		
			Any Air-Conditioning	Central System ⁵	Window/Wall Units ⁶
Total	111.1	91.4	2822	3475	1259
Census Region and Division					
Northeast.....	20.6	16.3	1332	2077	914
New England.....	5.5	3.7	740	1480	556
Middle Atlantic.....	15.1	12.6	1506	2163	1055
Midwest.....	25.6	23.4	1813	2137	912
East North Central.....	17.7	15.9	1663	1991	861
West North Central.....	7.9	7.5	2130	2414	1059
South.....	40.7	38.9	4251	4691	2297
South Atlantic.....	21.7	20.7	3909	4324	1698
East South Central.....	6.9	6.6	3708	4185	2045
West South Central.....	12.1	11.7	5162	5661	3257
West.....	24.2	12.9	2218	2708	730
Mountain.....	7.6	4.3	4144	4467	Q
Pacific.....	16.6	8.5	1242	1541	600
Four Most Populated States					
New York.....	7.1	5.3	1192	2001	977
Florida.....	7.0	7.0	5947	6176	3256
Texas.....	8.0	7.7	5658	6151	3257
California.....	12.1	6.6	1371	1637	608
All Other States.....	76.9	65.0	2432	2957	1185
Urban/Rural Location (as Self-Reported)					
City.....	47.1	37.8	2770	3543	1228
Town.....	19.0	15.9	2505	3092	1288
Suburbs.....	22.7	19.8	3220	3683	1036
Rural.....	22.3	18.0	2775	3398	1436
Climate Zone¹					
Less than 2,000 CDD and--					
Greater than 7,000 HDD.....	10.9	7.6	923	1200	457
5,500 to 7,000 HDD.....	26.1	21.0	1421	1876	805
4,000 to 5,499 HDD.....	27.3	23.4	2171	2723	1210
Fewer than 4,000 HDD.....	24.0	17.9	2667	2962	1460
2000 CDD or More and--					
Less than 4,000 HDD.....	22.8	21.7	5676	6103	3169

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Type of Housing Unit					
Single-Family Detached.....	72.1	60.3	3219	3751	1380
Single-Family Attached.....	7.6	6.0	1955	2315	1308
Apartments in 2-4 Unit Buildings.....	7.8	6.1	1840	2786	1093
Apartments in 5 or More Unit Buildings.....	16.7	13.5	1930	2690	934
Mobile Homes.....	6.9	5.5	2710	3325	1622
Ownership of Housing Unit					
Owned	78.1	65.8	3040	3544	1313
Single-Family Detached.....	64.1	54.0	3226	3697	1326
Single-Family Attached.....	4.2	3.6	1848	2163	1174
Apartments in 2-4 Unit Buildings.....	1.8	1.7	1420	2055	962
Apartments in 5 or More Unit Buildings.....	2.3	1.9	2132	2456	761
Mobile Homes.....	5.7	4.7	2756	3368	1647
Rented	33.0	25.7	2264	3217	1192
Single-Family Detached.....	8.0	6.3	3153	4427	1580
Single-Family Attached.....	3.4	2.5	2110	2569	1457
Apartments in 2-4 Unit Buildings.....	5.9	4.4	2005	3053	1147
Apartments in 5 or More Unit Buildings.....	14.4	11.7	1897	2747	946
Mobile Homes.....	1.2	0.8	2448	3069	1496
Year of Construction					
Before 1940.....	14.7	10.6	1684	2594	1207
1940 to 1949.....	7.4	5.5	2303	3307	1441
1950 to 1959.....	12.5	10.3	2304	3060	1227
1960 to 1969.....	12.5	10.3	2517	3079	1454
1970 to 1979.....	18.9	15.3	2777	3445	1116
1980 to 1989.....	18.6	15.7	3127	3442	1596
1990 to 1999.....	17.3	15.3	3454	3757	913
2000 to 2005.....	9.2	8.6	3937	4188	500

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			Any Air-Conditioning	Central System ⁵	Window/Wall Units ⁶
Household Size					
1 Person.....	30.0	24.0	1788	2328	906
2 Persons.....	34.8	29.1	2946	3465	1235
3 Persons.....	18.4	15.5	3131	3900	1512
4 Persons.....	15.9	13.2	3339	3993	1441
5 Persons.....	7.9	6.7	3845	4542	1664
6 or More Persons.....	4.1	3.0	3756	4706	2035
2005 Household Income Category					
Less than \$10,000.....	9.9	7.5	2053	2898	1259
\$10,000 to \$14,999.....	8.5	6.6	1975	2773	1192
\$15,000 to \$19,999.....	8.4	6.9	2236	2889	1428
\$20,000 to \$29,999.....	15.1	12.3	2402	3002	1350
\$30,000 to \$39,999.....	13.6	11.2	2945	3526	1327
\$40,000 to \$49,999.....	11.0	9.3	2911	3457	1094
\$50,000 to \$74,999.....	19.8	16.7	3070	3643	1191
\$75,000 to \$99,999.....	10.6	9.0	3109	3640	1256
\$100,000 or More.....	14.2	12.0	3792	4100	1026
Income Relative to Poverty Line					
Below 100 Percent.....	16.6	12.6	2248	3172	1404
100 to 150 Percent.....	12.9	10.5	2512	3314	1370
Above 150 Percent.....	81.5	68.4	2975	3529	1169
Eligible for Federal Assistance²					
Yes.....	38.6	30.3	2323	3137	1328
No.....	72.5	61.2	3070	3594	1188
Payment Method for Utilities					
All Paid by Household.....	97.5	81.3	2945	3514	1317
Some Paid, Some in Rent.....	7.6	5.7	1478	2463	926
All Included in Rent.....	4.7	3.3	2169	3062	1249
Other Method.....	1.3	1.1	2807	4417	1294

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			Any Air-Conditioning	Central System ⁵	Window/Wall Units ⁶
Ethnic Origin of Householder					
Hispanic Descent.....	14.8	10.7	3005	3941	1640
Non-Hispanic Descent.....	96.3	80.7	2798	3424	1185
Race of Householder³					
White.....	79.1	66.4	2810	3398	1167
Hispanic.....	5.0	3.4	3205	4056	1640
Non-Hispanic.....	74.1	63.0	2788	3367	1132
Black.....	13.4	11.5	2891	3725	1444
Hispanic.....	0.3	0.2	2081	3689	Q
Non-Hispanic.....	13.1	11.2	2908	3725	1458
Asian.....	3.3	2.1	2676	3584	970
Multi-Racial.....	1.3	1.0	3069	4152	1099
Other.....	7.1	5.4	2862	3673	1211
Undetermined (Race Reported as Hispanic).....	6.9	5.2	2808	3727	1745
Age of Householder					
Under 25 Years.....	5.5	4.6	2411	3200	1439
25 to 34 Years.....	18.2	15.2	2770	3546	1203
35 to 44 Years.....	22.2	18.0	3430	4204	1398
45 to 54 Years.....	23.3	19.3	3075	3610	1441
55 to 64 Years.....	18.0	14.5	2942	3481	1359
65 to 74 Years.....	12.3	10.0	2269	2769	1091
75 Years or More.....	11.7	9.9	1882	2454	822
Adults Age 65 or Older in Household					
Yes.....	26.9	22.1	2261	2816	1098
No.....	84.2	69.4	3001	3674	1317
Children Under Age 5 in Household					
Yes.....	15.0	12.6	3344	4255	1466
No.....	96.1	78.9	2739	3357	1222
Children Age 5 to 16 in Household					
Yes.....	28.1	23.1	3471	4078	1706
No.....	83.0	68.3	2603	3256	1133

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Age of Central Air-Conditioner					
Used by One Housing Unit					
Less than 2 Years.....	9.0	8.9	3779	3779	N
2 to 4 Years.....	11.0	10.9	3771	3771	N
5 to 9 Years.....	16.3	16.1	3584	3584	N
10 to 19 Years.....	16.8	16.4	3329	3329	N
20 Years or More.....	6.5	6.2	3124	3124	N
Don't Know.....	4.5	4.4	3119	3119	N
Used by Two or More Housing Units					
Less than 2 Years.....	Q	Q	1742	1742	N
2 to 4 Years.....	Q	Q	1559	1559	N
5 to 9 Years.....	0.3	0.3	2146	2146	N
10 to 19 Years.....	0.3	Q	3454	3454	N
20 Years or More.....	0.3	Q	3498	3498	N
Don't Know.....	0.7	0.7	2209	2209	N
Age of Most-Used Window/Wall Unit					
Less than 2 Years.....	6.4	6.4	1529	5655	1285
2 to 4 Years.....	7.8	7.7	1433	4867	1283
5 to 9 Years.....	7.0	6.9	1460	4361	1271
10 to 19 Years.....	3.7	3.6	1405	2841	1349
20 Years or More.....	2.1	2.0	1222	3512	1100
Don't Know.....	1.8	1.7	1119	8081	1003
Cooled Floorspace (Square Feet)					
Fewer than 500.....	37.6	18.0	1183	2234	997
500 to 999.....	19.9	19.9	2205	2651	1475
1,000 to 1,499.....	14.3	14.3	2889	3139	1669
1,500 to 1,999.....	9.9	9.9	3616	3767	2202
2,000 to 2,499.....	7.5	7.5	3578	3674	1811
2,500 to 2,999.....	6.1	6.1	3537	3611	1838
3,000 or 3,499.....	4.3	4.3	3486	3498	Q
3,500 to 3,999.....	2.9	2.9	4140	4176	1431
4,000 or More.....	8.7	8.7	4709	4711	1380

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Proportion of Rooms Air-Conditioned⁴					
None.....	1.4	Q	7822	7822	N
Some, But Not all of the Rooms.....	8.4	8.4	2115	2115	N
All of the Rooms.....	56.1	56.1	3678	3678	N
Frequency of Central Air-Conditioner Use					
Never.....	1.4	Q	7822	7822	N
Only a Few Times When Needed.....	11.4	11.4	1059	1059	N
Quite a Bit.....	12.6	12.6	2380	2380	N
All Summer.....	40.5	40.5	4495	4495	N
Frequency of Most Used Window/Wall Unit					
Never.....	0.6	Q	5599	5599	N
Only a Few Times When Needed.....	12.1	12.1	729	3087	598
Quite a Bit.....	7.5	7.5	1258	4920	1053
All Summer.....	8.6	8.6	2515	7800	2341
Weekday Home Activities					
Home Used for Business					
Yes.....	8.9	7.5	3621	4113	1114
No.....	102.2	83.9	2751	3406	1266
Energy-Intensive Activity					
Yes.....	2.2	1.6	2952	3559	1299
No.....	108.9	89.8	2820	3474	1258
Someone Home All Day					
Yes.....	56.4	46.5	2854	3562	1281
No.....	54.7	45.0	2789	3390	1234
Adequacy of Insulation					
Well Insulated.....	42.8	37.2	2903	3437	1012
Adequately Insulated.....	46.3	37.9	2870	3506	1228
Poorly Insulated.....	19.0	14.2	2544	3535	1546
No Insulation.....	1.4	0.8	2336	3597	1875
Don't Know.....	1.7	1.4	2498	3304	1210

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Home is Too Drafty During the Winter					
Never.....	62.9	53.8	3048	3601	1120
Some of the Time.....	32.4	25.8	2507	3203	1365
Most of the Time.....	6.1	4.3	2362	3290	1150
All of the Time.....	5.6	4.0	2263	2792	1693
Don't Know.....	4.1	3.5	2888	3943	1260
Unusually High Ceilings					
Yes.....	27.2	23.3	3663	4067	1224
No.....	76.9	62.6	2520	3200	1231
Not Asked (Mobile Homes).....	6.9	5.5	2710	3325	1622
Cathedral Ceilings (In Housing Units with High Ceilings)					
Yes.....	17.1	14.5	3816	4084	954
No.....	10.1	8.7	3409	4034	1387
Type of Glass in Windows					
Single-pane Glass.....	50.7	41.2	2978	3795	1490
Double-pane Glass					
Without Low-e Coating.....	50.6	42.1	2668	3260	996
With Low-e Coating.....	8.0	6.7	2809	3185	574
Triple-pane Glass					
Without Low-e Coating.....	1.0	0.9	2934	3075	2218
With Low-e Coating.....	0.3	0.3	2734	3382	590
Proportion of Original Windows Replaced					
All.....	22.4	18.1	2205	2929	1009
Some.....	21.6	16.9	2560	3227	1386
None.....	62.3	52.7	3155	3711	1380
Don't Know.....	4.7	3.7	2306	3215	838

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Thermostats					
Do Not Have a Thermostat	15.3	10.4	2262	4094	1776
Have a Thermostat	95.8	81.1	2894	3454	1032
1.....	84.5	71.3	2853	3363	1056
2 or More.....	11.3	9.8	3195	4204	908
Have a Programmable Thermostat					
Yes.....	33.1	28.7	3087	3454	842
No.....	62.7	52.4	2789	3454	1084
Use of Programmable Thermostats					
Reduces Temperature During Day					
Yes.....	18.6	16.3	2999	3361	770
No.....	14.5	12.4	3204	3577	935
Reduces Temperature at Night					
Yes.....	21.5	18.6	3061	3443	748
No.....	11.6	10.1	3137	3474	1021

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.