

**Table AC8. Average Cooling Degree Days by Equipment Type, 2005**  
**Cooling Degree Days per Household**

	U.S. Households (millions)	Total U.S. Using Any Air-Conditioning Equipment (millions)	Cooling Degree Days per Household				
			Total U.S.	Type of Air-Conditioning Equipment			Total U.S. Not Using Any Air-Conditioning Equipment
				Any Air-Conditioning	Central System <sup>5</sup>	Window/Wall Units <sup>6</sup>	
<b>Total.....</b>	111.1	91.4	1590	1729	1873	1386	939
<b>Census Region and Division</b>							
Northeast.....	20.6	16.3	1069	1104	1107	1103	935
New England.....	5.5	3.7	726	764	865	739	646
Middle Atlantic.....	15.1	12.6	1193	1204	1142	1247	1138
Midwest.....	25.6	23.4	1152	1169	1180	1139	969
East North Central.....	17.7	15.9	1082	1096	1105	1074	961
West North Central.....	7.9	7.5	1310	1324	1322	1331	1013
South.....	40.7	38.9	2354	2370	2424	2132	2014
South Atlantic.....	21.7	20.7	2224	2254	2347	1761	1608
East South Central.....	6.9	6.6	1906	1907	1906	1910	1882
West South Central.....	12.1	11.7	2842	2836	2855	2765	3013
West.....	24.2	12.9	1209	1598	1757	1114	766
Mountain.....	7.6	4.3	1771	2440	2576	1321	871
Pacific.....	16.6	8.5	954	1171	1215	1078	723
<b>Four Most Populated States</b>							
New York.....	7.1	5.3	1151	1178	1015	1222	1075
Florida.....	7.0	7.0	3494	3492	3491	3502	Q
Texas.....	8.0	7.7	3061	3047	3050	3036	3392
California.....	12.1	6.6	1044	1295	1338	1171	744
All Other States.....	76.9	65.0	1389	1474	1560	1268	923
<b>Urban/Rural Location (as Self-Reported)</b>							
City.....	47.1	37.8	1706	1882	2102	1443	996
Town.....	19.0	15.9	1467	1596	1754	1267	799
Suburbs.....	22.7	19.8	1586	1676	1765	1258	959
Rural.....	22.3	18.0	1451	1585	1651	1444	900
<b>Climate Zone<sup>1</sup></b>							
Less than 2,000 CDD and--							
Greater than 7,000 HDD.....	10.9	7.6	607	695	727	641	408
5,500 to 7,000 HDD.....	26.1	21.0	992	1028	1066	975	846
4,000 to 5,499 HDD.....	27.3	23.4	1324	1385	1392	1373	956
Fewer than 4,000 HDD.....	24.0	17.9	1444	1665	1687	1574	799
2000 CDD or More and--							
Less than 4,000 HDD.....	22.8	21.7	3214	3195	3222	3037	3576

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			Total U.S.	Type of Air-Conditioning Equipment			Total U.S. Not Using Any Air-Conditioning Equipment	
				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	1594	1732	1832	1387	886	
Single-Family Attached.....	7.6	6.0	1347	1459	1494	1397	922	
Apartments in 2-4 Unit Buildings.....	7.8	6.1	1531	1704	2118	1377	909	
Apartments in 5 or More Unit Buildings.....	16.7	13.5	1655	1802	2150	1346	1034	
Mobile Homes.....	6.9	5.5	1714	1842	2041	1490	1218	
<b>Ownership of Housing Unit</b>								
<b>Owned</b> .....	78.1	65.8	1587	1714	1813	1373	907	
Single-Family Detached.....	64.1	54.0	1581	1716	1804	1360	857	
Single-Family Attached.....	4.2	3.6	1307	1387	1341	1487	840	
Apartments in 2-4 Unit Buildings.....	1.8	1.7	1465	1490	1897	1197	Q	
Apartments in 5 or More Unit Buildings.....	2.3	1.9	1969	2153	2360	1278	1162	
Mobile Homes.....	5.7	4.7	1743	1848	2039	1500	1283	
<b>Rented</b> .....	33.0	25.7	1596	1769	2096	1402	993	
Single-Family Detached.....	8.0	6.3	1702	1872	2181	1491	1057	
Single-Family Attached.....	3.4	2.5	1396	1563	1751	1296	974	
Apartments in 2-4 Unit Buildings.....	5.9	4.4	1552	1788	2199	1452	890	
Apartments in 5 or More Unit Buildings.....	14.4	11.7	1605	1746	2099	1351	1014	
Mobile Homes.....	1.2	0.8	1574	1811	2053	1440	1027	
<b>Year of Construction</b>								
Before 1940.....	14.7	10.6	1196	1314	1449	1243	891	
1940 to 1949.....	7.4	5.5	1429	1599	1686	1524	946	
1950 to 1959.....	12.5	10.3	1542	1648	1791	1444	1061	
1960 to 1969.....	12.5	10.3	1614	1708	1763	1602	1175	
1970 to 1979.....	18.9	15.3	1635	1792	1969	1355	975	
1980 to 1989.....	18.6	15.7	1721	1887	1980	1440	823	
1990 to 1999.....	17.3	15.3	1663	1783	1848	1241	754	
2000 to 2005.....	9.2	8.6	1881	1950	2017	1030	875	

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				Any Air-Conditioning	Central System <sup>5</sup>	Window/Wall Units <sup>6</sup>		
<b>Household Size</b>								
1 Person.....	30.0	24.0	1568	1711	1911	1383	1007	
2 Persons.....	34.8	29.1	1588	1733	1851	1344	848	
3 Persons.....	18.4	15.5	1588	1714	1857	1414	898	
4 Persons.....	15.9	13.2	1585	1719	1847	1346	934	
5 Persons.....	7.9	6.7	1694	1825	1919	1530	981	
6 or More Persons.....	4.1	3.0	1585	1758	1931	1444	1107	
<b>2005 Household Income Category</b>								
Less than \$10,000.....	9.9	7.5	1689	1850	2114	1602	1182	
\$10,000 to \$14,999.....	8.5	6.6	1569	1681	1962	1405	1172	
\$15,000 to \$19,999.....	8.4	6.9	1642	1741	1903	1539	1195	
\$20,000 to \$29,999.....	15.1	12.3	1578	1725	1908	1403	943	
\$30,000 to \$39,999.....	13.6	11.2	1671	1840	1982	1445	886	
\$40,000 to \$49,999.....	11.0	9.3	1622	1753	1908	1239	916	
\$50,000 to \$74,999.....	19.8	16.7	1601	1735	1894	1216	898	
\$75,000 to \$99,999.....	10.6	9.0	1444	1597	1690	1271	572	
\$100,000 or More.....	14.2	12.0	1502	1647	1715	1035	687	
<b>Income Relative to Poverty Line</b>								
Below 100 Percent.....	16.6	12.6	1666	1827	2137	1544	1174	
100 to 150 Percent.....	12.9	10.5	1612	1745	1896	1532	1043	
Above 150 Percent.....	81.5	68.4	1570	1709	1840	1282	846	
<b>Eligible for Federal Assistance<sup>2</sup></b>								
Yes.....	38.6	30.3	1599	1733	1938	1483	1108	
No.....	72.5	61.2	1584	1727	1850	1286	816	
<b>Payment Method for Utilities</b>								
All Paid by Household.....	97.5	81.3	1616	1756	1881	1399	915	
Some Paid, Some in Rent.....	7.6	5.7	1305	1398	1649	1257	1012	
All Included in Rent.....	4.7	3.3	1536	1713	1891	1531	1095	
Other Method.....	1.3	1.1	1473	1540	1796	1299	1156	

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			Total U.S.	Type of Air-Conditioning Equipment			Total U.S. Not Using Any Air-Conditioning Equipment	
				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	1829	2074	2318	1719	1185	
Non-Hispanic Descent.....	96.3	80.7	1553	1683	1824	1321	874	
<b>Race of Householder<sup>3</sup></b>								
White.....	79.1	66.4	1515	1651	1791	1262	810	
Hispanic.....	5.0	3.4	1820	2197	2376	1867	1034	
Non-Hispanic.....	74.1	63.0	1495	1622	1763	1217	777	
Black.....	13.4	11.5	1872	1971	2135	1687	1291	
Hispanic.....	0.3	0.2	1405	1646	Q	Q	Q	
Non-Hispanic.....	13.1	11.2	1884	1978	2140	1690	1316	
Asian.....	3.3	2.1	1485	1823	1971	1546	939	
Multi-Racial.....	1.3	1.0	1624	1750	2033	1234	1263	
Other.....	7.1	5.4	1639	1843	2047	1428	977	
Undetermined (Race Reported as Hispanic).....	6.9	5.2	1883	2030	2313	1702	1415	
<b>Age of Householder</b>								
Under 25 Years.....	5.5	4.6	1707	1825	2180	1388	1075	
25 to 34 Years.....	18.2	15.2	1602	1718	1931	1288	1012	
35 to 44 Years.....	22.2	18.0	1615	1777	1942	1345	921	
45 to 54 Years.....	23.3	19.3	1537	1690	1771	1443	805	
55 to 64 Years.....	18.0	14.5	1592	1744	1843	1453	963	
65 to 74 Years.....	12.3	10.0	1601	1729	1804	1552	1047	
75 Years or More.....	11.7	9.9	1555	1671	1875	1291	906	
<b>Adults Age 65 or Older in Household</b>								
Yes.....	26.9	22.1	1600	1730	1855	1468	1005	
No.....	84.2	69.4	1586	1729	1878	1356	917	
<b>Children Under Age 5 in Household</b>								
Yes.....	15.0	12.6	1651	1779	1961	1401	992	
No.....	96.1	78.9	1580	1721	1859	1383	931	
<b>Children Age 5 to 16 in Household</b>								
Yes.....	28.1	23.1	1590	1736	1839	1438	904	
No.....	83.0	68.3	1590	1727	1885	1371	951	

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<b>Age of Central Air-Conditioner</b>							
<b>Used by One Housing Unit</b>							
Less than 2 Years.....	9.0	8.9	1850	1853	1853	N	Q
2 to 4 Years.....	11.0	10.9	1942	1954	1954	N	Q
5 to 9 Years.....	16.3	16.1	1845	1858	1858	N	Q
10 to 19 Years.....	16.8	16.4	1790	1797	1797	N	1465
20 Years or More.....	6.5	6.2	1925	1935	1935	N	1767
Don't Know.....	4.5	4.4	1969	1977	1977	N	Q
<b>Used by Two or More Housing Units</b>							
Less than 2 Years.....	Q	Q	Q	Q	Q	N	N
2 to 4 Years.....	Q	Q	Q	Q	Q	N	N
5 to 9 Years.....	0.3	0.3	1256	1256	1256	N	N
10 to 19 Years.....	0.3	Q	1812	Q	Q	N	Q
20 Years or More.....	0.3	Q	2274	Q	Q	N	Q
Don't Know.....	0.7	0.7	1837	1837	1837	N	N
<b>Age of Most-Used Window/Wall Unit</b>							
Less than 2 Years.....	6.4	6.4	1436	1440	2217	1394	Q
2 to 4 Years.....	7.8	7.7	1402	1391	1698	1377	Q
5 to 9 Years.....	7.0	6.9	1421	1426	1795	1402	Q
10 to 19 Years.....	3.7	3.6	1439	1457	Q	1456	Q
20 Years or More.....	2.1	2.0	1408	1428	Q	1401	Q
Don't Know.....	1.8	1.7	1182	1190	Q	1161	Q
<b>Cooled Floorspace (Square Feet)</b>							
Fewer than 500.....	37.6	18.0	1193	1471	2117	1356	939
500 to 999.....	19.9	19.9	1797	1797	2009	1449	N
1,000 to 1,499.....	14.3	14.3	1855	1855	1963	1330	N
1,500 to 1,999.....	9.9	9.9	1965	1965	2012	1521	N
2,000 to 2,499.....	7.5	7.5	1760	1760	1780	1381	N
2,500 to 2,999.....	6.1	6.1	1672	1672	1688	1303	N
3,000 or 3,499.....	4.3	4.3	1665	1665	1665	Q	N
3,500 to 3,999.....	2.9	2.9	1670	1670	1677	Q	N
4,000 or More.....	8.7	8.7	1702	1702	1702	Q	N

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			Total U.S.	Type of Air-Conditioning Equipment				
				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	1443	Q	Q	N	1410	
Some, But Not all of the Rooms.....	8.4	8.4	1738	1738	1738	N	N	
All of the Rooms.....	56.1	56.1	1893	1893	1893	N	N	
<b>Frequency of Central Air-Conditioner Use</b>								
Never.....	1.4	Q	1443	Q	Q	N	1410	
Only a Few Times When Needed.....	11.4	11.4	1301	1301	1301	N	N	
Quite a Bit.....	12.6	12.6	1538	1538	1538	N	N	
All Summer.....	40.5	40.5	2137	2137	2137	N	N	
<b>Frequency of Most Used Window/Wall Unit</b>								
Never.....	0.6	Q	1295	Q	Q	N	1216	
Only a Few Times When Needed.....	12.1	12.1	1250	1250	1742	1223	N	
Quite a Bit.....	7.5	7.5	1368	1368	1994	1333	N	
All Summer.....	8.6	8.6	1666	1666	2013	1654	N	
<b>Weekday Home Activities</b>								
<b>Home Used for Business</b>								
Yes.....	8.9	7.5	1598	1776	1919	1050	591	
No.....	102.2	83.9	1589	1725	1868	1402	964	
<b>Energy-Intensive Activity</b>								
Yes.....	2.2	1.6	1355	1571	1735	1125	746	
No.....	108.9	89.8	1594	1732	1875	1390	945	
<b>Someone Home All Day</b>								
Yes.....	56.4	46.5	1608	1745	1891	1421	965	
No.....	54.7	45.0	1571	1713	1855	1345	912	
<b>Adequacy of Insulation</b>								
Well Insulated.....	42.8	37.2	1553	1680	1802	1249	711	
Adequately Insulated.....	46.3	37.9	1614	1755	1914	1343	973	
Poorly Insulated.....	19.0	14.2	1581	1753	1954	1551	1072	
No Insulation.....	1.4	0.8	1947	2315	Q	2299	1475	
Don't Know.....	1.7	1.4	1671	1786	2150	1204	1066	

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<b>Home is Too Drafty During the Winter</b>								
Never.....	62.9	53.8	1685	1812	1936	1379	929	
Some of the Time.....	32.4	25.8	1462	1601	1718	1409	914	
Most of the Time.....	6.1	4.3	1394	1580	1820	1265	951	
All of the Time.....	5.6	4.0	1405	1536	1661	1401	1084	
Don't Know.....	4.1	3.5	1680	1806	2059	1416	921	
<b>Unusually High Ceilings</b>								
Yes.....	27.2	23.3	1655	1822	1917	1248	675	
No.....	76.9	62.6	1555	1685	1837	1397	984	
Not Asked (Mobile Homes).....	6.9	5.5	1714	1842	2041	1490	1218	
<b>Cathedral Ceilings</b> (In Housing Units with High Ceilings)								
Yes.....	17.1	14.5	1648	1830	1907	1007	620	
No.....	10.1	8.7	1667	1808	1936	1393	777	
<b>Type of Glass in Windows</b>								
Single-pane Glass.....	50.7	41.2	1842	1992	2225	1568	1191	
Double-pane Glass								
Without Low-e Coating.....	50.6	42.1	1386	1517	1637	1176	740	
With Low-e Coating.....	8.0	6.7	1307	1475	1566	934	456	
Triple-pane Glass								
Without Low-e Coating.....	1.0	0.9	1392	1415	1454	Q	Q	
With Low-e Coating.....	0.3	0.3	1164	1324	Q	Q	Q	
<b>Proportion of Original Windows Replaced</b>								
All.....	22.4	18.1	1312	1438	1571	1219	791	
Some.....	21.6	16.9	1458	1592	1701	1402	977	
None.....	62.3	52.7	1737	1871	1989	1495	996	
Don't Know.....	4.7	3.7	1572	1761	2142	1146	864	

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<b>Thermostats</b>								
<b>Do Not Have a Thermostat</b> .....	15.3	10.4	1756	1954	2169	1897	1334	
<b>Have a Thermostat</b> .....	95.8	81.1	1563	1701	1863	1161	808	
1.....	84.5	71.3	1590	1730	1882	1195	829	
2 or More.....	11.3	9.8	1365	1485	1706	983	633	
<b>Have a Programmable Thermostat</b>								
Yes.....	33.1	28.7	1518	1639	1732	1066	732	
No.....	62.7	52.4	1587	1734	1948	1187	840	
<b>Use of Programmable Thermostats</b>								
<b>Reduces Temperature During Day</b>								
Yes.....	18.6	16.3	1505	1598	1690	1028	832	
No.....	14.5	12.4	1534	1693	1788	1115	629	
<b>Reduces Temperature at Night</b>								
Yes.....	21.5	18.6	1504	1616	1711	1046	774	
No.....	11.6	10.1	1543	1681	1773	1104	654	

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.