

Table AC9. Average Cooled Floorspace by Equipment Type, 2005
Air-Conditioned Square Footage per Household

	U.S. Households (millions)	Total U.S. Using Any Air-Conditioning Equipment (millions)	Total U.S. (square footage per household)	Total U.S. Using Any Equipment (air-conditioned square footage per household)	Type of Air-Conditioning Equipment (square footage per household)			
					Central System ⁵		Window/Wall Units ⁶	
					Total	Cooled	Total	Cooled
Total	111.1	91.4	2,171	1,749	2,474	2,227	1,719	603
Census Region and Division								
Northeast.....	20.6	16.3	2,334	1,457	3,065	2,773	2,110	716
New England.....	5.5	3.7	2,472	1,178	3,232	2,825	2,482	766
Middle Atlantic.....	15.1	12.6	2,284	1,539	3,041	2,766	1,963	697
Midwest.....	25.6	23.4	2,421	1,948	2,743	2,465	1,688	510
East North Central.....	17.7	15.9	2,483	1,943	2,821	2,511	1,853	558
West North Central.....	7.9	7.5	2,281	1,958	2,595	2,380	1,205	369
South.....	40.7	38.9	2,161	1,878	2,372	2,159	1,372	623
South Atlantic.....	21.7	20.7	2,243	1,935	2,413	2,176	1,481	649
East South Central.....	6.9	6.6	2,137	1,841	2,439	2,220	1,222	520
West South Central.....	12.1	11.6	2,028	1,798	2,259	2,093	1,317	649
West.....	24.2	12.9	1,784	1,368	1,973	1,698	1,283	366
Mountain.....	7.6	4.3	1,951	1,581	2,004	1,716	1,516	476
Pacific.....	16.6	8.5	1,708	1,259	1,952	1,686	1,242	347
Four Most Populated States								
New York.....	7.1	5.3	1,961	1,085	3,341	2,863	1,791	612
Florida.....	7.0	7.0	1,869	1,736	1,932	1,835	1,109	576
Texas.....	8.0	7.6	2,168	1,964	2,469	2,257	999	493
California.....	12.1	6.6	1,607	1,296	1,910	1,627	1,151	346
All Other States.....	76.9	65.0	2,307	1,825	2,590	2,327	1,820	632
Urban/Rural Location (as Self-Reported)								
City.....	47.1	37.7	1,781	1,430	2,043	1,870	1,471	549
Town.....	19.0	15.9	2,167	1,666	2,349	2,116	1,905	732
Suburbs.....	22.7	19.8	2,688	2,260	2,950	2,602	2,083	646
Rural.....	22.3	18.0	2,472	1,930	2,833	2,557	1,879	579
Climate Zone¹								
Less than 2,000 CDD and--								
Greater than 7,000 HDD.....	10.9	7.6	2,534	1,870	2,997	2,666	2,045	533
5,500 to 7,000 HDD.....	26.1	21.0	2,346	1,682	2,754	2,447	2,066	647
4,000 to 5,499 HDD.....	27.3	23.4	2,205	1,768	2,659	2,432	1,577	614
Fewer than 4,000 HDD.....	24.0	17.9	1,966	1,690	2,309	1,981	1,331	502
2000 CDD or More and--								
Less than 4,000 HDD.....	22.8	21.6	1,971	1,799	2,136	1,997	1,262	621

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					Central System ⁵		Window/Wall Units ⁶		
					Total	Cooled	Total	Cooled	
Type of Housing Unit									
Single-Family Detached.....	72.1	60.3	2,720	2,209	2,925	2,623	2,348	775	
Single-Family Attached.....	7.6	6.0	1,941	1,455	2,180	1,907	1,843	641	
Apartments in 2-4 Unit Buildings.....	7.8	6.1	1,090	709	1,028	1,007	1,219	473	
Apartments in 5 or More Unit Buildings.....	16.7	13.5	872	684	981	936	791	354	
Mobile Homes.....	6.9	5.5	1,059	803	1,162	1,062	898	347	
Ownership of Housing Unit									
Owned	78.1	65.8	2,586	2,102	2,793	2,502	2,193	724	
Single-Family Detached.....	64.1	53.9	2,813	2,307	2,992	2,679	2,475	795	
Single-Family Attached.....	4.2	3.6	2,400	1,763	2,588	2,240	2,132	747	
Apartments in 2-4 Unit Buildings.....	1.8	1.7	1,604	949	1,323	1,314	1,868	685	
Apartments in 5 or More Unit Buildings.....	2.3	1.9	1,116	1,044	1,252	1,206	744	356	
Mobile Homes.....	5.7	4.7	1,099	841	1,218	1,111	923	351	
Rented	33.0	25.7	1,188	845	1,277	1,194	1,137	454	
Single-Family Detached.....	8.0	6.3	1,983	1,378	2,091	1,929	1,866	698	
Single-Family Attached.....	3.4	2.5	1,383	1,008	1,496	1,350	1,519	523	
Apartments in 2-4 Unit Buildings.....	5.9	4.4	930	615	920	895	950	386	
Apartments in 5 or More Unit Buildings.....	14.4	11.7	833	626	914	869	794	353	
Mobile Homes.....	1.2	0.8	866	593	830	769	774	323	
Year of Construction									
Before 1940.....	14.7	10.6	2,325	1,347	2,950	2,534	2,157	725	
1940 to 1949.....	7.4	5.5	2,047	1,327	2,486	2,098	1,814	664	
1950 to 1959.....	12.5	10.3	2,052	1,514	2,334	2,117	1,806	653	
1960 to 1969.....	12.5	10.3	1,969	1,544	2,257	2,073	1,598	542	
1970 to 1979.....	18.9	15.3	1,863	1,552	2,175	1,990	1,376	464	
1980 to 1989.....	18.6	15.6	1,992	1,731	2,184	1,977	1,337	519	
1990 to 1999.....	17.3	15.3	2,501	2,228	2,715	2,431	1,321	529	
2000 to 2005.....	9.2	8.6	2,827	2,564	3,002	2,716	1,589	470	

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					Central System ⁵		Window/Wall Units ⁶		
					Total	Cooled	Total	Cooled	
Household Size									
1 Person.....	30.0	24.0	1,671	1,218	1,892	1,671	1,418	477	
2 Persons.....	34.8	29.1	2,297	1,839	2,517	2,208	1,838	625	
3 Persons.....	18.4	15.5	2,324	1,884	2,716	2,466	1,760	648	
4 Persons.....	15.9	13.2	2,460	2,114	2,768	2,582	2,041	755	
5 Persons.....	7.9	6.7	2,539	2,195	2,867	2,684	1,908	666	
6 or More Persons.....	4.1	3.0	2,246	1,830	2,614	2,427	2,040	747	
2005 Household Income Category									
Less than \$10,000.....	9.9	7.5	1,393	882	1,586	1,292	1,334	489	
\$10,000 to \$14,999.....	8.5	6.6	1,430	954	1,566	1,425	1,387	491	
\$15,000 to \$19,999.....	8.4	6.9	1,518	1,160	1,821	1,719	1,161	467	
\$20,000 to \$29,999.....	15.1	12.3	1,709	1,308	1,952	1,771	1,433	495	
\$30,000 to \$39,999.....	13.6	11.2	1,937	1,556	2,083	1,911	1,649	567	
\$40,000 to \$49,999.....	11.0	9.3	2,314	1,870	2,412	2,206	2,215	752	
\$50,000 to \$74,999.....	19.8	16.7	2,361	1,885	2,452	2,229	2,267	759	
\$75,000 to \$99,999.....	10.6	9.0	2,939	2,400	3,122	2,841	2,550	860	
\$100,000 or More.....	14.2	12.0	3,311	2,923	3,598	3,147	2,496	909	
Income Relative to Poverty Line									
Below 100 Percent.....	16.6	12.5	1,400	919	1,594	1,375	1,340	498	
100 to 150 Percent.....	12.9	10.5	1,583	1,227	1,869	1,741	1,275	496	
Above 150 Percent.....	81.5	68.4	2,421	1,981	2,645	2,381	1,994	674	
Eligible for Federal Assistance²									
Yes.....	38.6	30.3	1,598	1,175	1,886	1,722	1,377	503	
No.....	72.5	61.2	2,475	2,033	2,679	2,403	2,069	704	
Payment Method for Utilities									
All Paid by Household.....	97.5	81.3	2,326	1,873	2,554	2,296	1,932	661	
Some Paid, Some in Rent.....	7.6	5.7	1,089	756	1,523	1,401	959	394	
All Included in Rent.....	4.7	3.3	910	728	1,105	1,075	837	370	
Other Method.....	1.3	1.1	1,393	883	1,428	1,308	1,314	484	

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					Central System ⁵		Window/Wall Units ⁶	
					Total	Cooled	Total	Cooled
Ethnic Origin of Householder								
Hispanic Descent.....	14.8	10.7	1,547	1,238	1,834	1,705	1,346	557
Non-Hispanic Descent.....	96.3	80.7	2,267	1,817	2,544	2,284	1,792	612
Race of Householder³								
White.....	79.1	66.3	2,323	1,879	2,588	2,325	1,873	629
Hispanic.....	5.0	3.4	1,505	1,319	1,876	1,774	1,260	481
Non-Hispanic.....	74.1	62.9	2,379	1,909	2,622	2,351	1,918	640
Black.....	13.4	11.5	1,904	1,467	2,221	2,001	1,476	541
Hispanic.....	0.3	0.2	1,449	1,155	Q	Q	Q	Q
Non-Hispanic.....	13.1	11.2	1,915	1,474	2,225	2,003	1,478	535
Asian.....	3.3	2.1	1,808	1,483	2,151	1,965	1,470	576
Multi-Racial.....	1.3	1.0	1,790	1,497	2,022	1,970	1,611	637
Other.....	7.1	5.4	1,850	1,559	2,237	2,051	1,395	557
Undetermined (Race Reported as Hispanic).....	6.9	5.2	1,516	1,074	1,704	1,520	1,355	557
Age of Householder								
Under 25 Years.....	5.5	4.6	1,134	877	1,280	1,203	1,055	475
25 to 34 Years.....	18.2	15.2	1,846	1,509	2,130	1,977	1,573	563
35 to 44 Years.....	22.2	18.0	2,267	1,953	2,689	2,457	1,670	618
45 to 54 Years.....	23.3	19.3	2,475	2,010	2,714	2,447	2,065	676
55 to 64 Years.....	18.0	14.5	2,342	1,906	2,644	2,324	1,881	679
65 to 74 Years.....	12.3	10.0	2,259	1,764	2,590	2,275	1,709	561
75 Years or More.....	11.7	9.9	2,015	1,400	2,098	1,847	1,761	570
Adults Age 65 or Older in Household								
Yes.....	26.9	22.1	2,141	1,594	2,374	2,080	1,731	575
No.....	84.2	69.3	2,180	1,799	2,504	2,271	1,715	613
Children Under Age 5 in Household								
Yes.....	15.0	12.6	2,139	1,809	2,576	2,406	1,647	576
No.....	96.1	78.8	2,176	1,739	2,458	2,200	1,732	608
Children Age 5 to 16 in Household								
Yes.....	28.1	23.1	2,410	2,091	2,800	2,593	1,756	632
No.....	83.0	68.3	2,090	1,633	2,355	2,094	1,709	595

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					Central System ⁵		Window/Wall Units ⁶	
					Total	Cooled	Total	Cooled
Age of Central Air-Conditioner Used by One Housing Unit								
Less than 2 Years.....	9.0	8.9	2,876	2,559	2,887	N	N	N
2 to 4 Years.....	11.0	10.9	2,508	2,301	2,516	N	N	N
5 to 9 Years.....	16.3	16.1	2,611	2,305	2,609	N	N	N
10 to 19 Years.....	16.8	16.4	2,508	2,257	2,519	N	N	N
20 Years or More.....	6.5	6.1	2,086	1,970	2,129	N	N	N
Don't Know.....	4.5	4.4	1,768	1,693	1,775	N	N	N
Used by Two or More Housing Units								
Less than 2 Years.....	Q	Q	Q	Q	Q	N	N	N
2 to 4 Years.....	Q	Q	Q	Q	Q	N	N	N
5 to 9 Years.....	0.3	0.3	1,564	1,564	1,564	N	N	N
10 to 19 Years.....	0.3	Q	1,891	Q	Q	N	N	N
20 Years or More.....	0.3	Q	1,397	Q	Q	N	N	N
Don't Know.....	0.7	0.7	914	895	914	N	N	N
Age of Most-Used Window/Wall Unit								
Less than 2 Years.....	6.4	6.3	1,693	659	2,361	1,575	1,666	602
2 to 4 Years.....	7.8	7.7	1,798	640	2,641	1,861	1,761	587
5 to 9 Years.....	7.0	6.9	1,885	764	2,899	2,052	1,818	680
10 to 19 Years.....	3.7	3.6	2,022	705	Q	Q	Q	664
20 Years or More.....	2.1	2.0	1,463	590	Q	Q	Q	480
Don't Know.....	1.8	1.7	1,219	432	Q	Q	Q	388
Air-Conditioned Floorspace (Square Feet)								
Fewer than 500.....	37.6	17.9	1,445	306	950	390	1,082	291
500 to 999.....	19.9	19.9	1,522	740	1,168	763	2,102	703
1,000 to 1,499.....	14.3	14.3	1,778	1,232	1,539	1,238	2,944	1,206
1,500 to 1,999.....	9.9	9.9	2,195	1,749	2,038	1,754	3,658	1,705
2,000 to 2,499.....	7.5	7.5	2,490	2,226	2,409	2,224	3,979	2,263
2,500 to 2,999.....	6.1	6.1	2,960	2,727	2,899	2,729	4,362	2,681
3,000 or 3,499.....	4.3	4.3	3,382	3,235	3,346	Q	Q	Q
3,500 to 3,999.....	2.9	2.9	3,892	3,746	3,857	Q	Q	Q
4,000 or More.....	8.7	8.7	5,437	5,414	5,438	Q	Q	Q

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					Central System ⁵		Window/Wall Units ⁶		
					Total	Cooled	Total	Cooled	
Proportion of Rooms Air-Conditioned⁴									
None.....	1.4	N	1,805	N	Q	N	N	N	N
Some, But Not all of the Rooms.....	8.4	8.4	2,816	1,002	2,816	N	N	N	N
All of the Rooms.....	56.1	56.1	2,423	2,412	2,423	N	N	N	N
Frequency of Central Air-Conditioner Use									
Never.....	1.4	N	1,805	N	Q	N	N	N	N
Only a Few Times When Needed.....	11.4	11.4	2,278	1,920	2,278	N	N	N	N
Quite a Bit.....	12.6	12.6	2,552	2,248	2,552	N	N	N	N
All Summer.....	40.5	40.5	2,505	2,308	2,505	N	N	N	N
Frequency of Most Used Window/Wall Unit									
Never.....	0.6	Q	1,964	Q	Q	N	N	N	N
Only a Few Times When Needed.....	12.1	12.1	1,865	633	2,762	1,909	1,816	562	562
Quite a Bit.....	7.5	7.5	1,827	699	2,395	1,929	1,796	630	630
All Summer.....	8.6	8.6	1,552	676	2,485	1,825	1,521	635	635
Weekday Home Activities									
Home Used for Business									
Yes.....	8.9	7.5	2,904	2,366	3,022	2,675	2,427	788	788
No.....	102.2	83.9	2,107	1,694	2,414	2,178	1,685	594	594
Energy-Intensive Activity									
Yes.....	2.2	1.6	2,437	1,973	2,837	2,461	1,828	642	642
No.....	108.9	89.8	2,165	1,745	2,467	2,223	1,717	602	602
Someone Home All Day									
Yes.....	56.4	46.4	2,207	1,724	2,478	2,218	1,759	622	622
No.....	54.7	45.0	2,134	1,775	2,470	2,236	1,673	581	581
Adequacy of Insulation									
Well Insulated.....	42.8	37.2	2,449	2,019	2,693	2,412	1,785	627	627
Adequately Insulated.....	46.3	37.9	2,150	1,734	2,413	2,176	1,762	594	594
Poorly Insulated.....	19.0	14.1	1,734	1,207	1,960	1,787	1,683	618	618
No Insulation.....	1.4	0.8	1,190	633	Q	Q	Q	399	399
Don't Know.....	1.7	1.4	1,384	1,071	1,579	1,471	1,143	431	431

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					Total	Cooled	Total	Cooled	
Home is Too Drafty During the Winter									
Never.....	62.9	53.8	2,296	1,905	2,540	2,283	1,783	591	
Some of the Time.....	32.4	25.8	2,111	1,632	2,453	2,238	1,756	632	
Most of the Time.....	6.1	4.3	1,915	1,407	2,349	2,030	1,609	592	
All of the Time.....	5.6	4.0	1,707	1,094	1,732	1,527	1,660	628	
Don't Know.....	4.1	3.5	1,726	1,373	2,190	1,955	1,122	476	
Unusually High Ceilings									
Yes.....	27.2	23.3	2,973	2,527	3,174	2,810	2,308	801	
No.....	76.9	62.6	1,987	1,544	2,245	2,043	1,705	596	
Not Asked (Mobile Homes).....	6.9	5.5	1,059	803	1,162	1,062	898	347	
Cathedral Ceilings (In Housing Units with High Ceilings)									
Yes.....	17.1	14.5	3,069	2,670	3,210	2,846	2,561	730	
No.....	10.1	8.7	2,812	2,290	3,103	2,738	2,155	843	
Type of Glass in Windows									
Single-pane Glass.....	50.7	41.2	1,798	1,378	1,991	1,806	1,601	594	
Double-pane Glass									
Without Low-e Coating.....	50.6	42.1	2,408	1,983	2,734	2,470	1,829	607	
With Low-e Coating.....	8.0	6.7	2,909	2,369	3,116	2,662	2,349	624	
Triple-pane Glass									
Without Low-e Coating.....	1.0	0.9	3,139	2,918	3,515	Q	Q	Q	
With Low-e Coating.....	0.3	0.3	3,550	3,448	Q	Q	Q	Q	
Proportion of Original Windows Replaced									
All.....	22.4	18.1	2,312	1,711	2,631	2,365	1,924	631	
Some.....	21.6	16.9	2,378	1,749	2,694	2,356	2,130	682	
None.....	62.3	52.7	2,117	1,813	2,425	2,198	1,502	579	
Don't Know.....	4.7	3.7	1,260	1,022	1,528	1,442	886	343	

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Thermostats									
Do Not Have a Thermostat	15.3	10.4	1,384	824	2,218	2,035	1,193	503	
Have a Thermostat	95.8	81.0	2,296	1,868	2,483	2,234	1,950	647	
1.....	84.5	71.3	2,173	1,786	2,330	2,116	1,859	619	
2 or More.....	11.3	9.8	3,214	2,464	3,737	3,201	2,429	792	
Have a Programmable Thermostat									
Yes.....	33.1	28.7	2,711	2,309	2,864	2,562	2,392	759	
No.....	62.7	52.3	2,077	1,626	2,233	2,018	1,829	616	
Use of Programmable Thermostats									
Reduces Temperature During Day									
Yes.....	18.6	16.3	2,843	2,389	2,989	2,648	2,505	789	
No.....	14.5	12.4	2,541	2,205	2,698	2,449	2,246	720	
Reduces Temperature at Night									
Yes.....	21.5	18.6	2,810	2,368	2,987	2,637	2,394	737	
No.....	11.6	10.1	2,527	2,201	2,637	2,425	2,390	802	

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.