Table B35. Cooling Equipment, Floorspace, 1999

· ·	Total Floorspace (million square feet)										
			ay apply)	y)							
	All Buildings	All Cooled Buildings	Residential- Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other	
All Buildings	67,338	58,474	8,329	9,147	14,276	2,750	12,909	36,527	2,219	1,312	
Building Floorspace											
(Square Feet)											
1,001 to 5,000	6,774	4,879	890	700	962	Q	Q	2,613	253	Q	
5,001 to 10,000	8,238	6,212	1,606	707	1,396	Q	Q	3,197	181	Q	
10,001 to 25,000		9,530	1,420	1,270	2,482	Q	307	6,031	207		
25,001 to 50,000		8,116	860	1,304	2,140	294	919	5,120	325		
50,001 to 100,000	,	9,401	1,221	1,593	2,057	525	1,989	6,164	477		
		7,609	905			630			307		
100,001 to 200,000				1,229	1,834		2,331	5,217			
200,001 to 500,000	•	6,345	715	1,126	2,032	470	2,963	4,106	Q		
Over 500,000	6,628	6,382	712	1,219	1,373	630	4,223	4,080	Q	Q	
Principal Building Activity											
Education	8,651	7,973	625	1,220	2,974	676	2,108	4,331	508	C	
Food Sales	994	978	Q	Q	Q	N	Q	610	Q	Q	
Food Service	1,851	1,760	357	Q	394	Q	Q	1,323	Q	Q	
Health Care	2,918	2,815	572	684	696	433	1,609	1,783	Q	Q	
Inpatient	1,865	1,762	455	503	602	356	1,413	1,109	Q	Q	
Outpatient	1,053	1,053	Q	Q	Q	Q	196	673	Q	Q	
Lodging		4,051	736	1,014	2,075	219	980	1,956	Q		
Mercantile		10,174	1,043	1,296	1,441	Q	1,278	8,019	387		
Retail (Other Than Mall)		4,573	551	225	1,111	Q	1, <u>2</u> 70	3,003	Q		
,											
Enclosed and Strip Malls		5,601	492	1,070	330	Q	1,115	5,017	Q		
Office		11,782	1,089	2,158	1,500	678	4,559	6,838	169		
Public Assembly		3,859	579	533	742	436	920	2,152	Q		
Public Order and Safety		760	Q	Q	284	Q	302	383	Q		
Religious Worship	3,405	2,765	694	403	781	Q	Q	1,630	Q		
Service	3,388	2,481	491	399	716	Q	Q	1,575	Q		
Warehouse and Storage	10,477	7,621	1,658	858	2,155	Q	349	5,198	179	Q	
Other	1,222	1,087	Q	Q	Q	Q	Q	482	Q	Q	
Vacant	1,908	368	Q	Q	Q	N	Q	Q	Q	Q	
Year Constructed											
1919 or Before	4,034	2,911	677	284	1,206	Q	254	1,244	Q	C	
1920 to 1945	6,445	4,383	657	551	2,074	134	984	2,367	Q	C	
1946 to 1959	9,127	7,601	1,239	984	2,833	406	1,329	4,427	261	C	
1960 to 1969	10,866	9,325	957	1,119	2,296	633	2,765	5,686	527	C	
1970 to 1979	11,840	11,050	1,621	1,793	2,237	492	2,766	7,001	499	316	
1980 to 1989	13,931	12,849	1,904	2,711	2,155	424	2,584	8,978	345	348	
1990 to 1999			1,274	1,705	1,476	407	2,229	6,825	339		
Census Region											
Northeast	12,360	10,311	950	1,215	3,897	326	2,782	6,641	Q	C	
Midwest		14,371	2,951	1,063	3,724	746	3,149	8,198	Q		
South	-, -		3,272	4,604	4,526	939	4,328	13,915	339		
West	,	12,243	1,156	2,265	2,130	739	2,651	7,773	1,624		
Climate Zone: 45-Year Average	,. 31	,_ 10	.,	_,	_,.30	. 30	_,,001	.,	,,,,,		
Under 2,000 CDD and											
More than 7,000 HDD	5,890	4,804	643	246	1,682	Q	971	2,753	Q	G	
5,500-7,000 HDD		14,289	2,433	1,069	4,070	763	3,309	8,340	540	420	
4,000-5,499 HDD			2,085	3,144	3,945	653	3,555	8,301	Q		
		14,535	1,550	2,924	2,516	683	3,061	10,105	690		
Fewer than 4,000 HDD			,	,	,		,	-,			
2,000 CDD or More and	,										

Table B35. Cooling Equipment, Floorspace, 1999

	Total Floorspace (million square feet)										
	Cooling Equipment (more than one may apply)										
			Residential- Type		Individual	District		Packaged Air			
	All Buildings	All Cooled Buildings	Central Air Conditioners	Heat Pumps	Air Conditioners	Chilled Water	Central Chillers	Conditioning Units	Swamp Coolers	Other	
Workers (main shift)											
Fewer than 5	14,321	8,704	2,041	753	2,568	Q	297	4,264	315	Q	
5 to 9		,	921	677	1,226	Q		2,933			
10 to 19	,	7,409	1,187	1,267	2,037	Q		4,334	Q		
20 to 49	,	,	1,341	1,688	2,138	162		6,776			
50 to 99		8,519	791	1,493	2,046	478		5,963	365		
100 to 249	,		868	1,027	1,940	484	2,597	5,507	360		
250 or More	,		1,180	2,243	2,322	1,234		6,751	335		
Weekly Operating Hours											
39 or Fewer	6,596	3,113	671	240	961	Q	218	1,820	Q	Q	
40 to 48		11,041	1,882	1,985	2,573	239	1,402	6,164	399	165	
49 to 60	14,200	13,225	1,477	2,009	2,746	589	2,569	7,890	350	350	
61 to 84			1,648	1,619	2,334	504	3,182	7,950	432		
85 to 167	9,116	8,528	1,015	1,286	2,010	505	1,098	6,194	513	Q	
Open Continuously		10,866	1,637	2,007	3,652	893		6,509	370		
Multibuilding Facility Activity Not Part of a Multibuilding											
Facility	41,289	36,386	5,509	5,793	9,135	309	6,902	23,072	1,344	649	
College or University	2,605	2,058	Q	Q	376	933	595	666	Q	Q	
Primary or Secondary School	3,388	3,001	188	372	1,056	Q	831	1,945	Q	Q	
Office Complex	3,353	3,191	Q	388	281	Q	1,325	1,875	Q	Q	
Retail Complex	3,555	3,463	221	494	552	Q	Q	2,882	Q	Q	
Religious Campus or Complex	1,907	1,702	Q	Q	430	Q	Q	1,115	Q	Q	
Health Care Complex		2,201	446	592	522	454	1,229	1,351	Q		
Government Complex		1,218	Q	Q	367	464	,	400	Q		
Other		5,254	1,285	806	1,556	293	1,133	3,220	Q		
Energy Sources (more than											
one may apply)	05.740	50.474	0.000	0.447	44.070	0.750	40.000	00.507	0.040	4.040	
Electricity		,	8,329	9,147	14,276	2,750		36,527	2,219		
Natural Gas		,	6,805	5,771	10,715	1,316		27,987	1,950		
Fuel Oil			1,314	2,435	4,276	749	6,081	7,121	407		
District Heat		5,165	335	782	1,240	2,354	2,114	2,054	Q		
District Chilled Water	2,750	,	Q	336	359	2,750		721	Q		
Other		5,415 2,069	867 338	800 326	1,626 593	Q Q	828 550	3,460 1,368			
	2,322	2,009	330	320	595	Q	550	1,300	Q	Q	
Cooling Energy Sources (more than one may apply)											
Electricity	55,545	55,545	8,329	9,120	14,276	1,093	12,405	35,387	2,175	1,244	
Natural Gas		1,914	0,329 Q	187	376	1,093 Q	272	1,595	2,173 Q		
District Chilled Water	,		Q	336	359	2,750		721	Q		
Energy End Uses (more than											
one may apply)											
Buildings with Space Heating	61,602	56,361	8,010	9,052	13,754	2,739	12,560	35,247	2,190	1,257	
Buildings with Cooling			8,329	9,147	14,276	2,750	12,909	36,527	2,219		
Buildings with Water Heating			7,278	8,409	12,888	2,455		33,328			
Buildings with Cooking		23,730	2,965	4,406	6,798	1,047	8,488	15,767	1,148		
Buildings with Manufacturing			563	422	1,198	1,047 Q		1,889			
Buildings with Electricity	5,120	2,001	505	722	1,190	Q	773	1,009	212	Q	
Generation	11,882	11,538	1,358	2,544	2,860	919	6,234	7,328	511	583	
Percent of Floorspace Cooled											
			N.I.	N.I.	NI.	N	N	N	N	N	
Not Cooled	8,864	N	N	N	N	IN	14	IN	11		
Not Cooled			3,054	1,910	6,855	Q		9,465			
	16,846	16,846					903		880	233	

Table B35. Cooling Equipment, Floorspace, 1999

	Total Floorspace (million square feet)										
	All Buildings		Cooling Equipment (more than one may apply)								
		All Cooled Buildings	Residential- Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other	
Heating Equipment (more											
than one may apply)											
Heat Pumps	8,923	8,766	1,362	8,243	2,378	376	2,109	4,709	483	285	
Furnaces		12,819	4,975	1,601	3,655	Q	1,259	7,240	756	225	
Individual Space Heaters		15,708	2,810	2,750	6,603	567	3,863	10,774	835	285	
District Heat		4,844	303	701	1,140	2,279	2,069	1,884	Q	Q	
Boilers		,	2,282	2,749	6,406	326	8,549	10,047	823	637	
Packaged Heating Units	,	25,134	2,617	3,799	5,127	497	4,425	23,495	1,253	385	
Other		3,592	646	528	887	159	1,679	2,138	1, <u>2</u> 33	468	
Cooling Equipment (more than one may apply)											
Residential-Type Central											
Air Conditioners	8,329	8,329	8,329	1,441	2,297	Q	1,489	3,365	Q	Q	
Heat Pumps	9,147	9,147	1,441	9,147	2,443	336	2,272	4,895	549	293	
Individual Air Conditioners	14,276	14,276	2,297	2,443	14,276	359	2,530	7,353	562	Q	
District Chilled Water		2,750	Q	336	359	2,750	386	721	Q	Q	
Central Chillers	,	12,909	1,489	2,272	2,530	386	12,909	6,282	312		
Packaged Air Conditioning	.2,000	,555	.,	_,	2,000	000	,000	0,202	0.2	~	
Units	36,527	36,527	3,365	4,895	7,353	721	6,282	36,527	1,499	547	
Swamp Coolers		2,219	Q,505	549	562	Q	312	1,499	2,219	Q	
Other	,	,	Q	293	Q	Q	Q	547	2,213 Q		
Main Equipment Replaced Since											
1995 (more than one may apply)											
Heating	13,220	12,424	1,978	2,245	3,066	Q	1,672	8,991	730	230	
Cooling	17,390	17,390	2,497	2,905	5,823	Q	3,380	11,357	910	358	
Building Shell Conservation											
Features (more than one											
may apply)	00.400	0= 1=0				4 = 0 =		0.4 =00			
Multipaned Windows	38,193	35,476	5,424	6,148	9,049	1,705	9,288	21,728	959	903	
Tinted, Reflective, or Shading Glass	29,915	28,721	3,465	4,682	5,298	1,827	8,534	19,291	1,201	759	
HVAC Conservation Features											
(more than one may apply)											
Variable Air-Volume System	19,387	19,009	2,235	2,872	2,857	1,837	8,391	12,246	589	557	
				3,516			9,218		966	720	
Economizer Cycle		21,256	2,448		4,117	1,911		14,637			
HVAC Maintenance	53,395	50,309	6,780	8,272	11,204	2,670	12,705	32,576	2,040	1,220	
Energy Management and Control System (EMCS)	21,613	20,817	2,049	3,343	4,116	2,186	9,343	12,958	626	843	
Off-Hour Equipment Reduction											
(more than one may apply)											
Heating	39,969	36,639	5,217	5,804	7,866	1,631	6,968	23,102	1,560	702	
Cooling		39,161	5,697	5,916	8,668	1,573		24,691	1,528	752	
Lighting	,		6,512	7,018	10,240	1,855	8,214	28,904	1,800	890	
Office Equipment			860	1,350	2,329	378	2,467	5,605	258	030 Q	
Onico Equipment	3,003	0,7 40	000	1,000	2,529	510	٠,٠٠١	5,005	200	Q	

Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.

N=No responding cases in sample.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.