

Table B24. Cooling Energy Sources, Number of Buildings and Floorspace, 1999

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings	All Buildings with Cooling	Cooling Energy Sources (more than one may apply)			All Buildings	All Buildings with Cooling	Cooling Energy Sources (more than one may apply)		
			Electricity	Natural Gas	District Chilled Water			Electricity	Natural Gas	District Chilled Water
All Buildings	4,657	3,560	3,450	142	50	67,338	58,474	55,545	1,914	2,750
Building Floorspace (Square Feet)										
1,001 to 5,000	2,348	1,680	1,640	Q	Q	6,774	4,879	4,784	Q	Q
5,001 to 10,000	1,110	828	796	Q	Q	8,238	6,212	5,938	Q	Q
10,001 to 25,000	708	611	596	23	Q	11,153	9,530	9,307	325	Q
25,001 to 50,000	257	223	214	8	7	9,311	8,116	7,753	268	294
50,001 to 100,000	145	134	127	4	7	10,112	9,401	8,870	315	525
100,001 to 200,000	59	55	51	2	5	8,271	7,609	7,011	282	630
200,001 to 500,000	23	21	20	Q	2	6,851	6,345	5,991	Q	470
Over 500,000	7	7	6	Q	1	6,628	6,382	5,890	Q	630
Principal Building Activity										
Education	327	274	265	Q	Q	8,651	7,973	7,305	Q	676
Food Sales	174	166	148	Q	N	994	978	947	Q	N
Food Service	349	324	312	Q	Q	1,851	1,760	1,687	Q	Q
Health Care	127	127	125	Q	2	2,918	2,815	2,537	Q	433
Inpatient	11	11	9	Q	2	1,865	1,762	1,554	Q	356
Outpatient	116	116	116	Q	Q	1,053	1,053	983	Q	Q
Lodging	153	126	123	Q	Q	4,521	4,051	3,880	Q	219
Mercantile	667	632	622	26	Q	10,398	10,174	9,914	462	Q
Retail (Other Than Mall)	534	499	491	Q	Q	4,766	4,573	4,423	Q	Q
Enclosed and Strip Malls	133	132	131	Q	Q	5,631	5,601	5,492	Q	Q
Office	739	716	695	31	6	12,044	11,782	11,024	319	678
Public Assembly	305	232	214	Q	Q	4,393	3,859	3,544	Q	436
Public Order and Safety	72	32	31	Q	Q	1,168	760	706	Q	Q
Religious Worship	307	232	231	Q	Q	3,405	2,765	2,763	Q	Q
Service	478	289	288	Q	Q	3,388	2,481	2,470	Q	Q
Warehouse and Storage	603	308	305	Q	Q	10,477	7,621	7,520	Q	Q
Other	102	76	64	Q	Q	1,222	1,087	880	Q	Q
Vacant	253	27	27	N	N	1,908	368	368	N	N
Year Constructed										
1919 or Before	419	260	245	Q	Q	4,034	2,911	2,632	Q	Q
1920 to 1945	499	313	312	Q	2	6,445	4,383	4,235	Q	134
1946 to 1959	763	589	578	Q	5	9,127	7,601	7,160	Q	406
1960 to 1969	665	496	472	26	7	10,866	9,325	8,676	353	633
1970 to 1979	774	649	636	35	Q	11,840	11,050	10,583	376	492
1980 to 1989	846	702	693	11	Q	13,931	12,849	12,490	300	424
1990 to 1999	690	549	514	Q	4	11,094	10,355	9,770	416	407
Census Region										
Northeast	686	473	459	13	2	12,360	10,311	9,766	446	326
Midwest	1,188	861	825	48	14	16,761	14,371	13,474	550	746
South	1,762	1,506	1,492	Q	Q	23,485	21,549	20,908	266	939
West	1,021	720	673	60	13	14,731	12,243	11,396	652	739
Climate Zone: 45-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	525	366	347	Q	Q	5,890	4,804	4,631	249	Q
5,500-7,000 HDD	986	711	689	35	6	17,083	14,289	13,284	743	763
4,000-5,499 HDD	1,085	766	734	30	Q	16,243	13,999	13,213	423	653
Fewer than 4,000 HDD	1,134	913	885	42	7	16,333	14,535	13,972	405	683
2,000 CDD or More and --										
Fewer than 4,000 HDD	926	803	795	Q	23	11,788	10,847	10,444	Q	589

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			Electricity	Natural Gas	District Chilled Water			Electricity	Natural Gas	District Chilled Water
Workers (main shift)										
Fewer than 5	2,376	1,513	1,466	63	Q	14,321	8,704	8,396	398	Q
5 to 9	807	681	667	Q	Q	6,325	5,291	5,146	Q	Q
10 to 19	683	636	617	Q	Q	8,028	7,409	7,086	Q	Q
20 to 49	487	433	420	Q	3	10,814	9,930	9,634	258	162
50 to 99	174	169	163	Q	10	8,898	8,519	8,208	287	478
100 to 249	90	88	82	5	4	8,356	8,129	7,505	361	484
250 or More	39	39	35	0	5	10,595	10,491	9,570	173	1,234
Weekly Operating Hours										
39 or Fewer	978	439	438	Q	Q	6,596	3,113	3,085	Q	Q
40 to 48	1,156	968	955	24	Q	13,105	11,041	10,724	321	239
49 to 60	986	850	808	40	13	14,200	13,225	12,456	418	589
61 to 84	664	563	547	20	6	12,458	11,701	11,074	344	504
85 to 167	474	436	419	29	4	9,116	8,528	7,964	380	505
Open Continuously	398	304	285	Q	11	11,863	10,866	10,242	281	893
Energy Sources (more than one may apply)										
Electricity	4,395	3,560	3,450	142	50	65,716	58,474	55,545	1,914	2,750
Natural Gas	2,670	2,335	2,237	142	21	45,525	42,147	40,387	1,914	1,316
Fuel Oil	434	302	299	2	3	13,285	12,185	11,591	218	749
District Heat	117	97	73	Q	43	5,891	5,165	3,459	Q	2,354
District Chilled Water	50	50	24	Q	50	2,750	2,750	1,093	Q	2,750
Propane	451	318	315	Q	Q	6,290	5,415	5,327	Q	Q
Other	153	107	106	Q	Q	2,322	2,069	1,975	Q	Q
Primary Space-Heating Energy Source										
Electricity	1,128	1,058	1,055	Q	Q	17,627	17,160	16,992	Q	310
Natural Gas	2,189	1,883	1,806	120	3	32,729	30,003	28,934	1,663	334
Fuel Oil	302	192	192	Q	Q	3,719	2,912	2,907	Q	Q
District Heat	77	58	35	Q	28	5,077	4,392	2,746	Q	2,084
Propane	282	197	197	N	N	2,107	1,631	1,627	N	N
Other	38	Q	Q	N	N	343	263	Q	N	N
Water-Heating Energy Sources (more than one may apply)										
Electricity	1,546	1,435	1,402	47	Q	24,171	23,177	22,748	573	447
Natural Gas	1,520	1,374	1,308	81	15	29,196	27,461	26,533	1,358	498
Fuel Oil	110	70	70	Q	Q	2,218	1,890	1,877	Q	Q
District Heat	62	50	38	Q	19	4,182	3,723	2,404	Q	1,729
Propane	130	109	109	N	Q	1,371	1,141	1,129	N	Q
Cooking Energy Sources (more than one may apply)										
Electricity	437	409	387	27	4	13,733	13,247	12,710	352	530
Natural Gas	505	479	464	22	4	16,785	16,268	15,695	615	701
Propane	118	95	95	N	Q	1,754	1,634	1,632	N	Q
Energy End Uses (more than one may apply)										
Buildings with Space Heating	4,016	3,400	3,297	137	49	61,602	56,361	53,459	1,898	2,739
Buildings with Cooling	3,560	3,560	3,450	142	50	58,474	58,474	55,545	1,914	2,750
Buildings with Water Heating	3,239	2,915	2,809	119	37	56,115	52,589	49,968	1,744	2,455
Buildings with Cooking	857	792	766	31	6	24,681	23,730	22,723	705	1,047
Buildings with Manufacturing	151	129	127	Q	Q	3,126	2,861	2,805	Q	Q
Buildings with Electricity Generation	172	149	138	Q	5	11,882	11,538	10,842	243	919

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Percent of Floorspace Cooled										
Not Cooled	1,097	N	N	N	N	8,864	N	N	N	N
1 to 50	1,012	1,012	1,005	20	Q	16,846	16,846	16,536	435	Q
51 to 99	751	751	720	32	8	16,966	16,966	16,117	609	772
100	1,796	1,796	1,725	90	40	24,662	24,662	22,893	870	1,805
Cooling Equipment (more than one may apply)										
Residential-Type Central										
Air Conditioners	676	676	676	Q	Q	8,329	8,329	8,329	Q	Q
Heat Pumps	485	485	485	17	4	9,147	9,147	9,120	187	336
Individual Air Conditioners	799	799	799	18	Q	14,276	14,276	14,276	376	359
District Chilled Water	50	50	24	Q	50	2,750	2,750	1,093	Q	2,750
Central Chillers	130	130	127	2	1	12,909	12,909	12,405	272	386
Packaged Air Conditioning										
Units	1,953	1,953	1,870	111	Q	36,527	36,527	35,387	1,595	721
Swamp Coolers	136	136	135	Q	Q	2,219	2,219	2,175	Q	Q
Other	49	49	48	Q	Q	1,312	1,312	1,244	Q	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.