

Table B29. Percent of Floorspace Cooled, Number of Buildings and Floorspace, 1999

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	All Buildings	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled
All Buildings	4,657	1,097	1,012	751	1,796	67,338	8,864	16,846	16,966	24,662
Building Floorspace (Square Feet)										
1,001 to 5,000	2,348	668	352	294	1,034	6,774	1,895	1,084	838	2,957
5,001 to 10,000	1,110	282	292	188	348	8,238	2,026	2,233	1,435	2,544
10,001 to 25,000	708	98	242	146	222	11,153	1,623	3,829	2,224	3,477
25,001 to 50,000	257	34	69	58	96	9,311	1,195	2,517	2,128	3,470
50,001 to 100,000	145	10	37	37	60	10,112	711	2,574	2,668	4,159
100,001 to 200,000	59	4	13	16	27	8,271	662	1,701	2,281	3,627
200,001 to 500,000	23	2	7	8	7	6,851	506	1,950	2,339	2,055
Over 500,000	7	Q	1	3	2	6,628	Q	957	3,053	2,372
Principal Building Activity										
Education	327	54	55	59	160	8,651	678	2,718	2,242	3,013
Food Sales	174	Q	Q	57	88	994	Q	Q	372	440
Food Service	349	Q	59	98	167	1,851	Q	274	752	734
Health Care	127	Q	Q	27	76	2,918	Q	Q	1,258	1,409
Inpatient	11	Q	Q	3	4	1,865	Q	Q	943	757
Outpatient	116	N	Q	23	72	1,053	N	Q	315	652
Lodging	153	27	12	35	80	4,521	470	368	1,542	2,141
Mercantile	667	35	210	152	270	10,398	224	1,982	3,227	4,965
Retail (Other Than Mall)	534	34	184	117	199	4,766	194	1,662	1,266	1,645
Enclosed and Strip Malls	133	Q	Q	35	71	5,631	Q	Q	1,961	3,320
Office	739	22	63	154	499	12,044	262	893	4,525	6,363
Public Assembly	305	73	20	54	157	4,393	535	602	1,059	2,198
Public Order and Safety	72	Q	16	9	6	1,168	Q	200	285	274
Religious Worship	307	76	55	41	136	3,405	640	746	688	1,331
Service	478	190	185	34	69	3,388	907	1,598	338	545
Warehouse and Storage	603	295	264	Q	26	10,477	2,855	6,721	299	601
Other	102	Q	24	6	45	1,222	Q	276	323	488
Vacant	253	226	Q	Q	Q	1,908	1,540	Q	Q	Q
Year Constructed										
1919 or Before	419	159	105	65	90	4,034	1,123	1,237	1,022	653
1920 to 1945	499	186	133	94	86	6,445	2,062	1,936	1,234	1,213
1946 to 1959	763	174	205	102	282	9,127	1,526	3,068	1,796	2,737
1960 to 1969	665	169	126	123	247	10,866	1,542	2,406	3,235	3,683
1970 to 1979	774	125	163	118	368	11,840	790	2,812	2,998	5,240
1980 to 1989	846	144	148	128	426	13,931	1,083	2,833	3,584	6,431
1990 to 1999	690	141	131	122	296	11,094	739	2,553	3,096	4,706
Floors										
One	2,879	781	481	363	1,255	26,800	4,944	7,123	4,299	10,434
Two	1,168	195	361	218	394	16,985	1,794	5,309	3,984	5,898
Three	420	88	138	114	80	8,928	969	2,717	2,647	2,594
Four to Nine	178	33	31	51	62	10,180	971	1,480	3,729	3,999
Ten or More	11	Q	1	5	5	4,445	Q	216	2,306	1,737
Census Region										
Northeast	686	213	226	80	168	12,360	2,049	3,914	3,196	3,202
Midwest	1,188	327	330	207	324	16,761	2,390	5,068	4,741	4,562
South	1,762	256	289	320	896	23,485	1,936	4,618	5,801	11,130
West	1,021	301	167	144	409	14,731	2,489	3,246	3,229	5,768
Climate Zone: 45-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	525	159	169	101	96	5,890	1,086	2,218	1,442	1,144
5,500-7,000 HDD	986	275	266	167	278	17,083	2,794	4,601	4,744	4,944
4,000-5,499 HDD	1,085	319	263	153	350	16,243	2,245	4,435	4,416	5,148
Fewer than 4,000 HDD	1,134	221	141	173	599	16,333	1,798	3,068	3,826	7,641
2,000 CDD or More and --										
Fewer than 4,000 HDD	926	123	173	157	474	11,788	941	2,524	2,538	5,785

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Workers (main shift)										
Fewer than 5	2,376	862	416	314	784	14,321	5,617	3,288	1,843	3,573
5 to 9	807	126	270	89	322	6,325	1,034	2,477	734	2,080
10 to 19	683	47	170	152	314	8,028	618	2,799	1,977	2,634
20 to 49	487	54	99	106	228	10,814	884	3,152	2,714	4,065
50 to 99	174	5	36	50	83	8,898	379	2,173	2,510	3,837
100 to 249	90	Q	19	28	42	8,356	Q	1,910	2,639	3,580
250 or More	39	Q	3	13	23	10,595	Q	1,048	4,550	4,893
Weekly Operating Hours										
39 or Fewer	978	539	88	66	285	6,596	3,483	815	596	1,702
40 to 48	1,156	188	309	170	489	13,105	2,064	4,305	2,311	4,426
49 to 60	986	136	292	184	375	14,200	974	4,595	3,580	5,050
61 to 84	664	102	198	124	242	12,458	757	2,797	3,634	5,270
85 to 167	474	38	71	127	238	9,116	588	2,561	2,645	3,322
Open Continuously	398	94	54	82	168	11,863	998	1,774	4,201	4,891
Vacancy Status										
Completely Vacant	140	128	Q	Q	Q	953	797	Q	Q	Q
Mostly Vacant	113	98	Q	Q	Q	956	743	Q	Q	Q
Partially Vacant	697	198	134	158	206	15,520	1,723	2,849	5,123	5,825
Not At All Vacant	3,707	673	874	585	1,575	49,910	5,601	13,844	11,788	18,677
Energy Sources (more than one may apply)										
Electricity	4,395	836	1,012	751	1,796	65,716	7,242	16,846	16,966	24,662
Natural Gas	2,670	335	679	544	1,112	45,525	3,378	12,068	12,694	17,386
Fuel Oil	434	132	149	63	90	13,285	1,100	3,354	4,780	4,051
District Heat	117	20	9	31	57	5,891	726	583	1,957	2,626
District Chilled Water	50	N	Q	8	40	2,750	N	Q	772	1,805
Propane	451	133	97	52	169	6,290	875	2,203	1,620	1,592
Other	153	46	34	19	54	2,322	253	574	756	739
Cooling Energy Sources (more than one may apply)										
Electricity	3,450	N	1,005	720	1,725	55,545	N	16,536	16,117	22,893
Natural Gas	142	N	20	32	90	1,914	N	435	609	870
District Chilled Water	50	N	Q	8	40	2,750	N	Q	772	1,805
Energy End Uses (more than one may apply)										
Buildings with Space Heating	4,016	616	965	725	1,709	61,602	5,242	16,193	16,637	23,531
Buildings with Cooling	3,560	N	1,012	751	1,796	58,474	N	16,846	16,966	24,662
Buildings with Water Heating	3,239	324	754	660	1,500	56,115	3,526	14,119	15,905	22,565
Buildings with Cooking	857	66	154	228	410	24,681	950	3,979	9,208	10,543
Buildings with Manufacturing	151	22	76	Q	42	3,126	265	1,765	517	580
Buildings with Electricity Generation	172	23	40	48	61	11,882	344	1,634	5,316	4,588
Percent of Floorspace Heated										
Not Heated	641	482	47	26	87	5,736	3,622	653	329	1,131
1 to 50	576	115	400	24	36	7,593	974	5,549	628	441
51 to 99	627	102	113	364	48	10,745	806	2,146	6,831	963
100	2,813	398	452	337	1,625	43,264	3,462	8,498	9,178	22,126
Percent Lit When Open										
Zero	34	Q	Q	N	Q	173	Q	Q	N	Q
1 to 50	835	177	397	76	186	9,187	1,808	4,383	1,280	1,716
51 to 99	1,228	132	240	414	442	20,665	1,317	4,310	9,032	6,005
100	2,096	348	365	258	1,125	34,233	3,024	8,000	6,617	16,593
Building Never Open/ Electricity Not Used	464	414	Q	Q	Q	3,080	2,608	Q	Q	Q

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Cooling Equipment (more than one may apply)										
Residential-Type Central										
Air Conditioners	676	N	241	156	280	8,329	N	3,054	2,604	2,672
Heat Pumps	485	N	84	92	310	9,147	N	1,910	3,040	4,197
Individual Air Conditioners	799	N	414	161	224	14,276	N	6,855	3,647	3,774
District Chilled Water	50	N	Q	8	40	2,750	N	Q	772	1,805
Central Chillers	130	N	Q	45	66	12,909	N	903	6,368	5,639
Packaged Air Conditioning										
Units	1,953	N	390	445	1,118	36,527	N	9,465	10,695	16,368
Swamp Coolers	136	N	39	32	65	2,219	N	880	540	800
Other	49	N	Q	19	Q	1,312	N	233	591	488
Building Shell Conservation Features (more than one may apply)										
Multipaned Windows	2,130	295	524	392	919	38,193	2,717	9,607	11,157	14,713
Tinted, Reflective, or Shading Glass	1,283	103	273	266	641	29,915	1,195	6,143	9,377	13,201
HVAC Conservation Features (more than one may apply)										
Variable Air-Volume System	550	Q	91	116	328	19,387	378	2,436	7,098	9,475
Economizer Cycle	567	N	72	151	344	21,256	N	3,067	8,012	10,176
HVAC Maintenance	2,786	266	682	542	1,297	53,395	3,086	13,113	15,243	21,953
Energy Management and Control System (EMCS)	460	37	74	85	264	21,613	795	2,983	7,618	10,216
Off-Hour Equipment Reduction (more than one may apply)										
Heating	2,862	414	738	494	1,216	39,969	3,329	11,278	10,170	15,191
Cooling	2,622	N	806	533	1,283	39,161	N	12,168	10,686	16,307
Lighting	3,675	565	927	627	1,556	51,083	5,079	14,601	12,311	19,093
Office Equipment	184	9	41	41	93	9,063	315	2,614	2,454	3,679

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.