

Table B28. Percent of Floorspace Heated, Number of Buildings and Floorspace, 1999

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	All Buildings	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated
All Buildings	4,657	641	576	627	2,813	67,338	5,736	7,593	10,745	43,264
Building Floorspace (Square Feet)										
1,001 to 5,000	2,348	366	230	272	1,479	6,774	1,091	707	750	4,227
5,001 to 10,000	1,110	164	194	149	603	8,238	1,148	1,504	1,177	4,409
10,001 to 25,000	708	79	102	128	399	11,153	1,289	1,611	1,936	6,317
25,001 to 50,000	257	20	29	45	162	9,311	746	1,078	1,690	5,796
50,001 to 100,000	145	8	12	20	105	10,112	515	877	1,407	7,313
100,001 to 200,000	59	3	5	7	45	8,271	378	739	946	6,207
200,001 to 500,000	23	1	2	4	16	6,851	406	589	1,341	4,515
Over 500,000	7	Q	1	2	5	6,628	Q	487	1,498	4,480
Principal Building Activity										
Education	327	Q	Q	43	269	8,651	Q	Q	1,184	7,253
Food Sales	174	Q	Q	58	84	994	Q	Q	151	623
Food Service	349	Q	Q	67	213	1,851	Q	Q	428	1,084
Health Care	127	N	Q	20	94	2,918	N	Q	496	2,272
Inpatient	11	N	Q	2	9	1,865	N	Q	295	1,477
Outpatient	116	N	Q	Q	85	1,053	N	Q	Q	795
Lodging	153	Q	12	22	117	4,521	Q	367	807	3,250
Mercantile	667	41	103	117	405	10,398	550	1,131	2,109	6,608
Retail (Other Than Mall)	534	Q	84	108	311	4,766	Q	711	1,211	2,693
Enclosed and Strip Malls	133	Q	Q	10	94	5,631	Q	420	898	3,915
Office	739	Q	22	98	608	12,044	234	486	2,570	8,754
Public Assembly	305	31	30	20	224	4,393	378	342	540	3,133
Public Order and Safety	72	Q	Q	Q	41	1,168	Q	Q	Q	819
Religious Worship	307	Q	Q	35	253	3,405	Q	Q	618	2,632
Service	478	57	72	94	255	3,388	362	406	628	1,993
Warehouse and Storage	603	247	205	29	123	10,477	2,373	3,749	850	3,505
Other	102	Q	Q	Q	70	1,222	Q	Q	Q	833
Vacant	253	168	Q	Q	58	1,908	1,154	Q	Q	505
Year Constructed										
1919 or Before	419	69	48	56	246	4,034	441	507	798	2,288
1920 to 1945	499	69	79	103	248	6,445	886	834	1,249	3,476
1946 to 1959	763	97	93	86	487	9,127	725	1,304	1,178	5,920
1960 to 1969	665	108	58	75	424	10,866	901	1,038	1,891	7,037
1970 to 1979	774	83	107	86	498	11,840	924	1,458	1,670	7,789
1980 to 1989	846	133	113	111	490	13,931	1,366	1,254	2,181	9,131
1990 to 1999	690	82	78	109	421	11,094	493	1,198	1,777	7,625
Floors										
One	2,879	500	329	322	1,728	26,800	3,722	3,850	2,913	16,315
Two	1,168	94	209	163	702	16,985	1,052	2,534	2,616	10,783
Three	420	34	18	113	255	8,928	440	362	2,253	5,873
Four to Nine	178	Q	20	25	120	10,180	427	577	1,842	7,334
Ten or More	11	Q	1	3	8	4,445	Q	270	1,121	2,960
Census Region										
Northeast	686	86	83	82	436	12,360	693	1,053	1,688	8,927
Midwest	1,188	138	151	175	724	16,761	846	1,571	2,323	12,022
South	1,762	259	182	254	1,067	23,485	2,887	2,538	4,335	13,725
West	1,021	158	160	117	586	14,731	1,310	2,432	2,399	8,590
Climate Zone: 45-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	525	Q	64	64	347	5,890	Q	674	626	4,368
5,500-7,000 HDD	986	115	105	145	621	17,083	877	1,091	2,478	12,637
4,000-5,499 HDD	1,085	136	154	144	651	16,243	952	1,760	2,701	10,831
Fewer than 4,000 HDD	1,134	137	125	154	718	16,333	1,410	2,270	3,061	9,593
2,000 CDD or More and --										
Fewer than 4,000 HDD	926	203	129	119	476	11,788	2,276	1,797	1,879	5,836

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Workers (main shift)										
Fewer than 5	2,376	541	326	332	1,176	14,321	3,769	2,323	2,174	6,055
5 to 9	807	34	155	77	541	6,325	305	1,426	732	3,862
10 to 19	683	16	57	95	515	8,028	265	1,249	1,304	5,209
20 to 49	487	32	21	86	349	10,814	468	958	1,848	7,541
50 to 99	174	8	14	21	132	8,898	362	776	1,137	6,622
100 to 249	90	Q	2	10	69	8,356	Q	357	1,206	6,490
250 or More	39	Q	1	7	31	10,595	Q	504	2,344	7,485
Weekly Operating Hours										
39 or Fewer	978	340	100	41	497	6,596	2,379	657	368	3,191
40 to 48	1,156	87	186	202	680	13,105	1,015	2,258	2,290	7,541
49 to 60	986	43	118	137	689	14,200	523	1,753	2,538	9,386
61 to 84	664	66	94	97	408	12,458	670	1,224	2,100	8,463
85 to 167	474	68	42	74	290	9,116	717	925	1,366	6,108
Open Continuously	398	37	36	76	250	11,863	431	775	2,082	8,575
Vacancy Status										
Completely Vacant	140	110	Q	Q	Q	953	721	Q	Q	Q
Mostly Vacant	113	58	Q	Q	38	956	433	Q	Q	319
Partially Vacant	697	146	99	107	345	15,520	1,664	1,950	2,904	9,003
Not At All Vacant	3,707	327	454	515	2,410	49,910	2,918	5,438	7,797	33,757
Energy Sources (more than one may apply)										
Electricity	4,395	387	569	626	2,813	65,716	4,151	7,564	10,737	43,264
Natural Gas	2,670	82	322	441	1,825	45,525	1,141	4,873	8,052	31,460
Fuel Oil	434	Q	62	59	311	13,285	Q	1,113	2,584	9,377
District Heat	117	Q	Q	22	90	5,891	Q	Q	986	4,708
District Chilled Water	50	Q	Q	4	43	2,750	Q	Q	379	2,298
Propane	451	Q	87	50	298	6,290	Q	1,046	1,083	3,947
Other	153	Q	49	17	84	2,322	Q	261	473	1,541
Space-Heating Energy Sources (more than one may apply)										
Electricity	1,880	N	290	255	1,335	32,291	N	4,722	6,110	21,459
Natural Gas	2,380	Q	301	394	1,685	37,902	Q	4,319	6,642	26,932
Fuel Oil	377	N	58	52	266	5,611	N	564	786	4,260
District Heat	96	N	Q	16	80	5,534	N	Q	886	4,575
Propane	307	N	61	30	216	2,728	N	461	421	1,845
Other	94	N	Q	Q	42	945	N	Q	Q	593
Primary Space-Heating Energy Source										
Electricity	1,128	N	189	165	774	17,627	N	3,013	3,275	11,339
Natural Gas	2,189	N	277	365	1,547	32,729	N	3,648	5,829	23,252
Fuel Oil	302	N	44	45	213	3,719	N	481	409	2,829
District Heat	77	N	Q	15	61	5,077	N	Q	837	4,176
Propane	282	N	Q	28	205	2,107	N	Q	339	1,445
Other	38	N	Q	Q	Q	343	N	Q	Q	Q
Energy End Uses (more than one may apply)										
Buildings with Space Heating	4,016	N	576	627	2,813	61,602	N	7,593	10,745	43,264
Buildings with Cooling	3,560	159	461	524	2,415	58,474	2,113	6,619	9,939	39,802
Buildings with Water Heating	3,239	152	373	476	2,237	56,115	1,911	5,823	9,453	38,928
Buildings with Cooking	857	59	72	148	578	24,681	867	1,326	4,410	18,077
Buildings with Manufacturing	151	Q	37	14	92	3,126	Q	890	376	1,766
Buildings with Electricity Generation	172	Q	Q	25	129	11,882	Q	700	2,523	8,420

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Percent of Floorspace Cooled										
Not Cooled	1,097	482	115	102	398	8,864	3,622	974	806	3,462
1 to 50	1,012	47	400	113	452	16,846	653	5,549	2,146	8,498
51 to 99	751	26	24	364	337	16,966	329	628	6,831	9,178
100	1,796	87	36	48	1,625	24,662	1,131	441	963	22,126
Percent Lit When Open										
Zero	34	Q	Q	N	Q	173	Q	Q	N	Q
1 to 50	835	94	277	114	349	9,187	1,012	2,994	1,427	3,754
51 to 99	1,228	66	71	313	778	20,665	715	1,313	5,374	13,264
100	2,096	101	206	196	1,593	34,233	1,508	3,054	3,925	25,747
Building Never Open/ Electricity Not Used	464	354	Q	Q	86	3,080	2,400	Q	Q	445
Heating Equipment (more than one may apply)										
Heat Pumps	492	N	53	70	369	8,923	N	1,098	1,797	6,028
Furnaces	1,460	N	236	271	953	14,449	N	2,718	3,042	8,689
Individual Space Heaters	894	N	137	150	607	17,349	N	2,432	3,332	11,585
District Heat	96	N	Q	16	80	5,534	N	Q	886	4,575
Boilers	581	N	54	66	460	19,522	N	1,203	2,977	15,343
Packaged Heating Units	1,347	N	129	232	986	25,743	N	2,702	4,661	18,380
Other	185	N	53	13	118	4,073	N	607	774	2,692
Building Shell Conservation Features (more than one may apply)										
Multipaned Windows	2,130	82	233	293	1,521	38,193	1,232	3,380	6,378	27,204
Tinted, Reflective, or Shading Glass	1,283	58	161	197	868	29,915	1,138	2,841	5,318	20,619
HVAC Conservation Features (more than one may apply)										
Variable Air-Volume System	550	33	64	53	399	19,387	445	1,434	3,339	14,169
Economizer Cycle	567	Q	15	102	442	21,256	Q	902	3,565	16,640
HVAC Maintenance	2,786	81	302	419	1,983	53,395	1,412	5,057	8,836	38,090
Energy Management and Control System (EMCS)	460	8	24	41	387	21,613	360	989	3,492	16,771
Off-Hour Equipment Reduction (more than one may apply)										
Heating	2,862	N	409	435	2,018	39,969	N	5,198	6,853	27,918
Cooling	2,622	103	368	375	1,776	39,161	1,418	4,837	6,496	26,410
Lighting	3,675	227	515	517	2,415	51,083	2,783	6,498	8,362	33,440
Office Equipment	184	Q	7	25	148	9,063	Q	395	1,408	6,998

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.