

**Table B6. Building Size, Number of Buildings, 1999**

	Number of Buildings (thousand)								
	All Buildings	Building Size							
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
<b>All Buildings</b> .....	4,657	2,348	1,110	708	257	145	59	23	7
<b>Principal Building Activity</b>									
Education .....	327	119	61	52	49	30	10	5	Q
Food Sales .....	174	138	Q	Q	Q	Q	Q	N	N
Food Service .....	349	251	71	23	Q	Q	Q	N	N
Health Care .....	127	64	Q	10	8	4	2	2	1
Inpatient .....	11	N	N	Q	Q	Q	2	2	1
Outpatient .....	116	64	Q	Q	7	Q	Q	Q	Q
Lodging .....	153	Q	38	27	32	11	4	3	Q
Mercantile .....	667	316	146	141	28	20	13	2	1
Retail (Other Than Mall) .....	534	308	103	100	11	6	5	Q	Q
Enclosed and Strip Malls .....	133	Q	43	41	17	14	8	1	1
Office .....	739	422	141	95	33	29	13	5	2
Public Assembly .....	305	124	88	64	15	11	2	1	Q
Public Order and Safety .....	72	Q	Q	24	5	Q	Q	Q	Q
Religious Worship .....	307	92	102	92	15	Q	Q	N	Q
Service .....	478	291	131	41	11	Q	Q	Q	Q
Warehouse and Storage .....	603	266	157	97	46	22	11	4	1
Other .....	102	Q	Q	14	Q	Q	Q	Q	Q
Vacant .....	253	153	73	17	7	Q	Q	Q	Q
<b>Year Constructed</b>									
1919 or Before .....	419	227	107	63	13	7	Q	Q	Q
1920 to 1945 .....	499	270	102	90	20	9	5	2	1
1946 to 1959 .....	763	359	240	97	39	19	5	3	1
1960 to 1969 .....	665	321	166	84	53	24	12	4	1
1970 to 1979 .....	774	367	193	130	44	26	8	4	2
1980 to 1989 .....	846	413	156	179	43	33	15	4	2
1990 to 1999 .....	690	390	145	65	44	27	12	4	1
<b>Floors</b>									
One .....	2,879	1,751	633	311	109	48	22	5	1
Two .....	1,168	475	317	238	81	40	12	4	1
Three .....	420	101	121	119	41	26	8	3	Q
Four to Nine .....	178	Q	39	40	26	28	15	7	2
Ten or More .....	11	N	N	Q	Q	Q	3	4	3
<b>Census Region</b>									
Northeast .....	686	305	169	130	39	26	10	5	2
Midwest .....	1,188	620	273	188	48	35	16	7	2
South .....	1,762	916	413	260	93	49	20	8	2
West .....	1,021	506	255	130	76	35	13	4	1
<b>Workers (main shift)</b>									
Fewer than 5 .....	2,376	1,567	511	250	37	7	2	Q	Q
5 to 9 .....	807	482	180	105	32	6	3	Q	N
10 to 19 .....	683	226	249	146	47	12	Q	Q	Q
20 to 49 .....	487	66	144	157	75	36	7	2	Q
50 to 99 .....	174	Q	Q	46	46	45	15	2	Q
100 to 249 .....	90	Q	Q	Q	18	29	18	7	1
250 or More .....	39	N	N	Q	Q	10	12	10	5
<b>Weekly Operating Hours</b>									
39 or Fewer .....	978	605	244	105	17	4	Q	Q	Q
40 to 48 .....	1,156	557	342	153	58	36	8	2	Q
49 to 60 .....	986	471	225	177	63	34	11	4	1
61 to 84 .....	664	292	163	121	45	26	12	4	2
85 to 167 .....	474	240	76	91	27	21	13	4	1
Open Continuously .....	398	183	60	62	47	24	12	7	3

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	All Buildings	Building Size							
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
<b>Ownership and Occupancy</b>									
Nongovernment Owned .....	4,135	2,131	1,006	618	202	109	47	18	5
Owner Occupied .....	2,801	1,433	693	431	129	69	29	13	5
Nonowner Occupied .....	1,099	548	250	172	68	39	17	4	1
Unoccupied .....	236	151	Q	15	Q	Q	Q	Q	Q
Government Owned .....	521	216	104	91	55	36	13	5	2
<b>Vacancy Status</b>									
Completely Vacant .....	140	Q	Q	8	Q	Q	Q	Q	N
Mostly Vacant .....	113	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	697	282	200	107	51	33	15	6	3
Not At All Vacant .....	3,707	1,913	837	584	198	110	44	17	4
<b>Number of Establishments</b>									
One .....	3,528	1,897	802	506	184	88	34	14	3
2 to 5 .....	688	272	222	121	33	26	10	3	1
6 to 10 .....	114	Q	17	51	15	12	4	2	Q
11 to 20 .....	48	Q	Q	12	15	12	6	2	Q
More than 20 .....	27	Q	Q	Q	Q	6	5	2	3
Currently Unoccupied .....	251	164	Q	17	Q	Q	Q	Q	Q
<b>Energy Sources (more than one may apply)</b>									
Electricity .....	4,395	2,186	1,036	688	253	143	59	23	7
Natural Gas .....	2,670	1,193	684	448	176	103	42	18	5
Fuel Oil .....	434	220	74	65	28	22	13	9	4
District Heat .....	117	Q	Q	24	19	13	7	3	2
District Chilled Water .....	50	Q	Q	Q	7	7	5	2	1
Propane .....	451	215	124	74	17	13	6	2	1
Other .....	153	93	Q	19	7	5	Q	Q	Q
<b>Energy End Uses (more than one may apply)</b>									
Buildings with Space Heating .....	4,016	1,982	946	629	237	137	57	22	7
Buildings with Cooling .....	3,560	1,680	828	611	223	134	55	21	7
Buildings with Water Heating .....	3,239	1,456	778	574	222	127	54	21	7
Buildings with Cooking .....	857	357	176	150	72	54	29	14	5
Buildings with Manufacturing .....	151	Q	36	28	11	9	3	1	Q
Buildings with Electricity Generation .....	172	Q	Q	24	22	26	13	9	4
<b>Percent of Floorspace Heated</b>									
Not Heated .....	641	366	164	79	20	8	3	1	Q
1 to 50 .....	576	230	194	102	29	12	5	2	1
51 to 99 .....	627	272	149	128	45	20	7	4	2
100 .....	2,813	1,479	603	399	162	105	45	16	5
<b>Percent of Floorspace Cooled</b>									
Not Cooled .....	1,097	668	282	98	34	10	4	2	Q
1 to 50 .....	1,012	352	292	242	69	37	13	7	1
51 to 99 .....	751	294	188	146	58	37	16	8	3
100 .....	1,796	1,034	348	222	96	60	27	7	2
<b>Percent Lit When Open</b>									
Zero .....	34	Q	Q	Q	Q	N	Q	N	N
1 to 50 .....	835	351	279	147	40	13	4	2	0
51 to 99 .....	1,228	517	351	198	84	52	16	8	3
100 .....	2,096	1,156	367	316	124	77	39	13	4
Building Never Open/ Electricity Not Used .....	464	294	113	45	8	Q	Q	Q	Q

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		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
<b>Heating Equipment (more than one may apply)</b>									
Heat Pumps .....	492	240	100	81	37	20	8	3	1
Furnaces .....	1,460	783	387	206	47	25	9	3	1
Individual Space Heaters .....	894	397	183	191	62	35	18	6	3
District Heat .....	96	Q	Q	19	17	13	7	3	2
Boilers .....	581	146	144	128	72	52	24	11	3
Packaged Heating Units .....	1,347	589	302	253	101	62	27	10	3
Other .....	185	98	Q	22	14	8	3	2	1
<b>Cooling Equipment (more than one may apply)</b>									
Residential-Type Central									
Air Conditioners .....	676	319	211	96	24	17	7	2	1
Heat Pumps .....	485	240	95	80	35	22	9	4	1
Individual Air Conditioners .....	799	356	184	149	60	29	13	7	1
District Chilled Water .....	50	Q	Q	Q	7	7	5	2	1
Central Chillers .....	130	Q	Q	17	25	28	16	9	4
Packaged Air Conditioning									
Units .....	1,953	857	423	387	141	89	37	14	4
Swamp Coolers .....	136	79	25	13	9	7	2	Q	Q
Other .....	49	Q	Q	Q	4	Q	Q	Q	Q
<b>Main Equipment Replaced Since 1995 (more than one may apply)</b>									
Heating .....	984	469	250	160	61	32	9	4	1
Cooling .....	1,085	490	239	224	73	38	13	7	2
<b>Lighting Equipment Types (more than one may apply)</b>									
Incandescent .....	2,193	980	548	391	138	83	33	14	5
Standard Fluorescent .....	3,778	1,795	904	628	230	136	56	22	7
Compact Fluorescent .....	607	198	149	109	62	48	24	12	4
High Intensity Discharge .....	430	80	94	111	60	43	25	11	5
Halogen .....	572	194	136	123	43	41	23	9	4
Other .....	58	Q	Q	Q	Q	Q	Q	Q	Q
<b>Personal Computers</b>									
None .....	1,617	1,056	413	117	23	5	2	1	Q
1 to 4 .....	1,636	875	394	288	59	14	6	Q	Q
5 to 9 .....	542	280	105	95	41	18	3	Q	Q
10 to 19 .....	403	106	142	93	34	19	6	2	Q
20 to 49 .....	247	Q	53	78	46	26	12	2	1
50 to 99 .....	105	Q	Q	32	34	25	7	3	1
100 to 249 .....	71	Q	Q	Q	17	30	12	4	1
250 or More .....	36	N	N	N	Q	9	11	9	4
<b>Photocopiers</b>									
None .....	2,825	1,706	691	309	81	29	7	3	Q
One .....	1,114	500	295	217	69	23	8	1	Q
2 to 4 .....	540	136	99	148	75	55	19	7	1
5 to 9 .....	102	Q	Q	23	18	17	9	4	1
10 or More .....	75	N	N	Q	14	21	17	9	5
<b>Other Electronic Equipment (more than one may apply)</b>									
Laser Printers .....	1,949	732	424	412	181	121	52	20	7
FAX Machines .....	2,807	1,203	661	509	213	136	56	22	7
Medical Diagnostic Equipment .....	86	Q	Q	Q	6	4	2	2	1

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	All Buildings	Building Size							
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
<b>Energy-Related Space Functions (more than one may apply)</b>									
Commercial Food Preparation .....	767	320	157	123	68	52	28	14	5
Activities with Large Amounts of Hot Water .....	698	232	142	149	87	47	25	12	4
<b>Building Shell Conservation Features (more than one may apply)</b>									
Multipaned Windows .....	2,130	1,005	497	344	138	89	36	15	5
Tinted, Reflective, or Shading Glass .....	1,283	507	329	214	110	69	35	13	5
<b>HVAC Conservation Features (more than one may apply)</b>									
Variable Air-Volume System .....	550	188	136	81	57	49	23	10	5
Economizer Cycle .....	567	218	104	86	61	52	30	11	5
HVAC Maintenance .....	2,786	1,217	627	521	209	129	55	21	7
Energy Management and Control System (EMCS) .....	460	150	59	81	65	56	31	13	5
<b>Lighting Conservation Features (more than one may apply)</b>									
Specular Reflectors .....	843	389	186	123	64	46	20	10	4
Electronic Ballasts .....	2,167	952	545	354	149	98	45	17	6
Skylights or Atriums .....	580	200	128	116	62	39	20	9	4
<b>Off-Hour Equipment Reduction (more than one may apply)</b>									
Heating .....	2,862	1,387	743	432	160	89	36	11	4
Cooling .....	2,622	1,229	659	442	151	90	35	12	4
Lighting .....	3,675	1,794	913	592	197	115	45	15	4
Office Equipment .....	184	Q	Q	50	39	38	14	4	1

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.

**Table B7. Building Size, Floorspace, 1999**

	Total Floorspace (million square feet)								
	All Buildings	Building Size							
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
<b>All Buildings</b> .....	67,338	6,774	8,238	11,153	9,311	10,112	8,271	6,851	6,628
<b>Principal Building Activity</b>									
Education .....	8,651	338	444	883	1,803	2,144	1,484	1,311	Q
Food Sales .....	994	302	Q	Q	Q	Q	Q	N	N
Food Service .....	1,851	754	541	352	Q	Q	Q	N	N
Health Care .....	2,918	189	Q	135	274	263	315	756	767
Inpatient .....	1,865	N	N	Q	Q	Q	243	681	760
Outpatient .....	1,053	189	Q	Q	235	Q	Q	Q	Q
Lodging .....	4,521	Q	283	436	1,142	758	530	794	Q
Mercantile .....	10,398	925	1,047	2,131	1,001	1,498	1,765	427	1,605
Retail (Other Than Mall) .....	4,766	901	749	1,511	400	464	662	Q	Q
Enclosed and Strip Malls .....	5,631	Q	298	619	601	1,034	1,103	359	1,593
Office .....	12,044	1,212	1,063	1,486	1,191	1,951	1,717	1,560	1,864
Public Assembly .....	4,393	337	646	968	559	740	285	347	Q
Public Order and Safety .....	1,168	Q	Q	365	155	Q	Q	Q	Q
Religious Worship .....	3,405	272	730	1,435	530	Q	Q	N	Q
Service .....	3,388	825	962	630	380	Q	Q	Q	Q
Warehouse and Storage .....	10,477	790	1,242	1,647	1,693	1,525	1,565	1,290	725
Other .....	1,222	Q	Q	205	Q	Q	Q	Q	Q
Vacant .....	1,908	497	527	278	246	Q	Q	Q	Q
<b>Year Constructed</b>									
1919 or Before .....	4,034	655	791	972	489	483	Q	Q	Q
1920 to 1945 .....	6,445	798	776	1,504	673	637	727	705	624
1946 to 1959 .....	9,127	1,025	1,777	1,488	1,343	1,343	789	796	565
1960 to 1969 .....	10,866	928	1,165	1,267	1,987	1,698	1,593	1,243	987
1970 to 1979 .....	11,840	1,056	1,392	2,045	1,587	1,816	1,147	1,206	1,593
1980 to 1989 .....	13,931	1,153	1,150	2,767	1,594	2,273	2,088	1,307	1,599
1990 to 1999 .....	11,094	1,159	1,188	1,110	1,638	1,862	1,662	1,344	1,131
<b>Floors</b>									
One .....	26,800	4,898	4,726	4,887	3,929	3,377	2,930	1,328	724
Two .....	16,985	1,528	2,263	3,689	2,922	2,799	1,645	1,059	1,081
Three .....	8,928	278	942	1,907	1,475	1,776	1,128	942	Q
Four to Nine .....	10,180	Q	308	666	979	2,015	2,112	2,325	1,704
Ten or More .....	4,445	N	N	Q	Q	Q	457	1,197	2,638
<b>Census Region</b>									
Northeast .....	12,360	901	1,302	1,954	1,407	1,771	1,461	1,362	2,202
Midwest .....	16,761	1,835	2,045	2,881	1,773	2,436	2,279	1,993	1,519
South .....	23,485	2,536	3,058	4,194	3,384	3,450	2,864	2,273	1,726
West .....	14,731	1,503	1,834	2,124	2,746	2,455	1,666	1,222	1,180
<b>Workers (main shift)</b>									
Fewer than 5 .....	14,321	4,230	3,748	3,922	1,361	430	356	Q	Q
5 to 9 .....	6,325	1,502	1,331	1,557	1,098	444	350	Q	N
10 to 19 .....	8,028	791	1,792	2,263	1,647	799	Q	Q	Q
20 to 49 .....	10,814	235	1,174	2,510	2,759	2,437	955	635	Q
50 to 99 .....	8,898	Q	Q	819	1,690	3,172	2,000	598	Q
100 to 249 .....	8,356	Q	Q	Q	692	2,067	2,552	1,927	979
250 or More .....	10,595	N	N	Q	Q	762	1,767	3,015	4,977
<b>Weekly Operating Hours</b>									
39 or Fewer .....	6,596	1,712	1,790	1,632	571	269	Q	Q	Q
40 to 48 .....	13,105	1,621	2,595	2,437	2,049	2,483	1,151	656	Q
49 to 60 .....	14,200	1,384	1,633	2,712	2,291	2,421	1,534	1,200	1,025
61 to 84 .....	12,458	859	1,213	1,952	1,673	1,751	1,710	1,231	2,068
85 to 167 .....	9,116	745	575	1,419	1,037	1,486	1,751	1,244	859
Open Continuously .....	11,863	454	432	1,001	1,689	1,702	1,787	2,271	2,528

**Table B7. Building Size, Floorspace, 1999**

	Total Floorspace (million square feet)								
	All Buildings	Building Size							
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
<b>Ownership and Occupancy</b>									
Nongovernment Owned .....	54,994	6,189	7,466	9,655	7,264	7,571	6,509	5,229	5,112
Owner Occupied .....	37,785	4,040	5,179	6,736	4,577	4,723	4,097	3,924	4,509
Nonowner Occupied .....	15,596	1,686	1,827	2,656	2,496	2,775	2,374	1,190	592
Unoccupied .....	1,613	463	Q	264	Q	Q	Q	Q	Q
Government Owned .....	12,343	585	772	1,498	2,047	2,541	1,762	1,622	1,516
<b>Vacancy Status</b>									
Completely Vacant .....	953	Q	Q	124	Q	Q	Q	Q	N
Mostly Vacant .....	956	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	15,520	784	1,430	1,824	1,868	2,291	2,067	1,769	3,487
Not At All Vacant .....	49,910	5,493	6,281	9,051	7,196	7,726	6,127	4,940	3,094
<b>Number of Establishments</b>									
One .....	43,343	5,358	5,952	7,812	6,720	6,063	4,798	4,126	2,514
2 to 5 .....	10,582	857	1,630	1,982	1,220	1,833	1,453	931	676
6 to 10 .....	3,574	Q	137	784	550	845	480	498	Q
11 to 20 .....	3,260	Q	Q	Q	494	839	790	455	416
More than 20 .....	4,811	Q	Q	Q	Q	432	690	702	2,771
Currently Unoccupied .....	1,769	512	Q	296	Q	Q	Q	Q	Q
<b>Energy Sources (more than one may apply)</b>									
Electricity .....	65,716	6,280	7,721	10,843	9,175	10,034	8,246	6,790	6,628
Natural Gas .....	45,525	3,566	5,088	7,001	6,405	7,165	5,915	5,282	5,104
Fuel Oil .....	13,285	620	583	983	983	1,612	1,875	2,984	3,645
District Heat .....	5,891	Q	Q	414	660	933	903	1,003	1,707
District Chilled Water .....	2,750	Q	Q	Q	294	525	630	470	630
Propane .....	6,290	635	986	1,203	568	865	854	616	562
Other .....	2,322	292	Q	290	250	350	Q	Q	Q
<b>Energy End Uses (more than one may apply)</b>									
Buildings with Space Heating .....	61,602	5,684	7,090	9,865	8,565	9,597	7,893	6,445	6,465
Buildings with Cooling .....	58,474	4,879	6,212	9,530	8,116	9,401	7,609	6,345	6,382
Buildings with Water Heating .....	56,115	4,280	5,748	9,000	8,088	8,887	7,527	6,258	6,327
Buildings with Cooking .....	24,681	1,095	1,272	2,415	2,630	3,901	4,092	4,254	5,020
Buildings with Manufacturing .....	3,126	Q	318	519	390	600	478	283	Q
Buildings with Electricity Generation .....	11,882	Q	Q	433	813	1,920	1,836	2,778	3,725
<b>Percent of Floorspace Heated</b>									
Not Heated .....	5,736	1,091	1,148	1,289	746	515	378	406	Q
1 to 50 .....	7,593	707	1,504	1,611	1,078	877	739	589	487
51 to 99 .....	10,745	750	1,177	1,936	1,690	1,407	946	1,341	1,498
100 .....	43,264	4,227	4,409	6,317	5,796	7,313	6,207	4,515	4,480
<b>Percent of Floorspace Cooled</b>									
Not Cooled .....	8,864	1,895	2,026	1,623	1,195	711	662	506	Q
1 to 50 .....	16,846	1,084	2,233	3,829	2,517	2,574	1,701	1,950	957
51 to 99 .....	16,966	838	1,435	2,224	2,128	2,668	2,281	2,339	3,053
100 .....	24,662	2,957	2,544	3,477	3,470	4,159	3,627	2,055	2,372
<b>Percent Lit When Open</b>									
Zero .....	173	Q	Q	Q	Q	N	Q	N	N
1 to 50 .....	9,187	1,061	2,014	2,320	1,474	925	529	448	415
51 to 99 .....	20,665	1,499	2,614	3,085	3,013	3,657	2,247	2,345	2,206
100 .....	34,233	3,299	2,793	4,953	4,499	5,387	5,407	3,914	3,982
Building Never Open/ Electricity Not Used .....	3,080	849	811	762	278	Q	Q	Q	Q

**Table B7. Building Size, Floorspace, 1999**

	Total Floorspace (million square feet)								
	All Buildings	Building Size							
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
<b>Heating Equipment (more than one may apply)</b>									
Heat Pumps .....	8,923	679	745	1,288	1,376	1,493	1,095	996	1,250
Furnaces .....	14,449	2,271	2,848	3,047	1,674	1,718	1,283	807	802
Individual Space Heaters .....	17,349	1,183	1,350	3,021	2,218	2,492	2,467	1,974	2,643
District Heat .....	5,534	Q	Q	307	617	905	883	963	1,698
Boilers .....	19,522	463	1,040	2,047	2,591	3,698	3,334	3,268	3,081
Packaged Heating Units .....	25,743	1,779	2,301	3,994	3,695	4,262	3,811	2,943	2,959
Other .....	4,073	250	Q	401	510	511	450	782	903
<b>Cooling Equipment (more than one may apply)</b>									
Residential-Type Central									
Air Conditioners .....	8,329	890	1,606	1,420	860	1,221	905	715	712
Heat Pumps .....	9,147	700	707	1,270	1,304	1,593	1,229	1,126	1,219
Individual Air Conditioners .....	14,276	962	1,396	2,482	2,140	2,057	1,834	2,032	1,373
District Chilled Water .....	2,750	Q	Q	Q	294	525	630	470	630
Central Chillers .....	12,909	Q	Q	307	919	1,989	2,331	2,963	4,223
Packaged Air Conditioning									
Units .....	36,527	2,613	3,197	6,031	5,120	6,164	5,217	4,106	4,080
Swamp Coolers .....	2,219	253	181	207	325	477	307	Q	Q
Other .....	1,312	Q	Q	Q	153	Q	Q	Q	Q
<b>Main Equipment Replaced Since 1995 (more than one may apply)</b>									
Heating .....	13,220	1,325	1,757	2,472	2,145	2,214	1,359	1,141	807
Cooling .....	17,390	1,399	1,638	3,402	2,614	2,709	1,809	2,032	1,787
<b>Lighting Equipment Types (more than one may apply)</b>									
Incandescent .....	38,156	2,946	4,047	6,055	5,004	5,880	4,685	4,396	5,143
Standard Fluorescent .....	60,344	5,154	6,722	9,815	8,344	9,525	7,817	6,423	6,544
Compact Fluorescent .....	20,666	738	1,108	1,759	2,296	3,425	3,429	3,575	4,336
High Intensity Discharge .....	19,223	245	663	1,701	2,224	3,101	3,633	3,259	4,397
Halogen .....	17,926	600	991	1,996	1,611	2,929	3,241	2,677	3,882
Other .....	1,004	Q	Q	Q	Q	Q	Q	Q	Q
<b>Personal Computers</b>									
None .....	9,583	2,987	2,983	1,839	825	310	305	305	Q
1 to 4 .....	13,853	2,351	2,964	4,383	2,133	947	807	Q	Q
5 to 9 .....	6,528	936	752	1,520	1,439	1,240	396	Q	Q
10 to 19 .....	7,514	387	1,147	1,432	1,259	1,393	830	730	Q
20 to 49 .....	8,087	Q	366	1,303	1,662	1,757	1,657	692	540
50 to 99 .....	5,867	Q	Q	578	1,227	1,708	957	813	557
100 to 249 .....	6,818	Q	Q	Q	659	2,121	1,620	1,027	1,289
250 or More .....	9,088	N	N	N	Q	635	1,698	2,874	3,774
<b>Photocopiers</b>									
None .....	21,631	4,851	5,062	4,841	2,878	1,974	1,016	704	Q
One .....	12,928	1,487	2,237	3,430	2,495	1,613	1,090	378	Q
2 to 4 .....	15,620	427	737	2,348	2,770	3,819	2,543	1,998	978
5 to 9 .....	5,384	Q	Q	394	643	1,200	1,234	1,038	665
10 or More .....	11,774	N	N	Q	526	1,507	2,389	2,733	4,479
<b>Other Electronic Equipment (more than one may apply)</b>									
Laser Printers .....	46,567	2,190	3,206	6,508	6,550	8,540	7,183	6,109	6,281
FAX Machines .....	54,764	3,594	4,931	8,093	7,773	9,563	7,786	6,425	6,599
Medical Diagnostic Equipment .....	2,493	Q	Q	Q	193	245	296	732	673

**Table B7. Building Size, Floorspace, 1999**

	Total Floorspace (million square feet)								
	All Buildings	Building Size							
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet
<b>Energy-Related Space Functions (more than one may apply)</b>									
Commercial Food Preparation .....	23,328	1,005	1,129	2,002	2,472	3,729	3,923	4,104	4,965
Activities with Large Amounts of Hot Water .....	21,793	760	1,063	2,331	3,158	3,346	3,547	3,666	3,922
<b>Building Shell Conservation Features (more than one may apply)</b>									
Multipaned Windows .....	38,193	3,052	3,806	5,506	5,027	6,209	5,064	4,499	5,030
Tinted, Reflective, or Shading Glass .....	29,915	1,530	2,423	3,385	3,993	4,866	4,938	4,032	4,746
<b>HVAC Conservation Features (more than one may apply)</b>									
Variable Air-Volume System .....	19,387	634	1,058	1,309	2,115	3,430	3,350	3,077	4,414
Economizer Cycle .....	21,256	640	798	1,392	2,219	3,679	4,164	3,408	4,955
HVAC Maintenance .....	53,395	3,690	4,671	8,100	7,560	9,044	7,613	6,207	6,510
Energy Management and Control System (EMCS) .....	21,613	511	475	1,391	2,299	3,953	4,267	3,930	4,787
<b>Lighting Conservation Features (more than one may apply)</b>									
Specular Reflectors .....	19,994	1,171	1,389	1,970	2,384	3,285	2,837	3,087	3,870
Electronic Ballasts .....	42,035	2,736	4,044	5,620	5,468	6,903	6,366	5,248	5,650
Skylights or Atriums .....	18,286	556	977	1,949	2,251	2,745	2,765	2,898	4,144
<b>Off-Hour Equipment Reduction (more than one may apply)</b>									
Heating .....	39,969	4,018	5,522	6,731	5,788	6,269	5,007	3,315	3,318
Cooling .....	39,161	3,703	4,901	6,912	5,484	6,322	4,854	3,438	3,546
Lighting .....	51,083	5,227	6,819	9,236	7,153	8,069	6,268	4,265	4,046
Office Equipment .....	9,063	Q	Q	852	1,403	2,625	1,927	1,213	825

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.



**Table B8. Year Constructed, Number of Buildings, 1999**

	Number of Buildings (thousand)							
	All Buildings	Year Constructed						
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999
<b>All Buildings</b> .....	4,657	419	499	763	665	774	846	690
<b>Building Floorspace (Square Feet)</b>								
1,001 to 5,000 .....	2,348	227	270	359	321	367	413	390
5,001 to 10,000 .....	1,110	107	102	240	166	193	156	145
10,001 to 25,000 .....	708	63	90	97	84	130	179	65
25,001 to 50,000 .....	257	13	20	39	53	44	43	44
50,001 to 100,000 .....	145	7	9	19	24	26	33	27
100,001 to 200,000 .....	59	Q	5	5	12	8	15	12
200,001 to 500,000 .....	23	Q	2	3	4	4	4	4
Over 500,000 .....	7	Q	1	1	1	2	2	1
<b>Principal Building Activity</b>								
Education .....	327	18	32	71	69	53	37	47
Food Sales .....	174	Q	Q	Q	Q	Q	Q	50
Food Service .....	349	Q	48	Q	50	70	80	Q
Health Care .....	127	Q	Q	27	16	38	15	23
Inpatient .....	11	Q	Q	1	2	2	2	Q
Outpatient .....	116	Q	Q	Q	Q	36	14	23
Lodging .....	153	Q	Q	15	33	33	29	24
Mercantile .....	667	93	61	154	60	112	127	60
Retail (Other Than Mall) .....	534	92	46	140	44	78	88	46
Enclosed and Strip Malls .....	133	Q	Q	14	16	35	39	14
Office .....	739	72	55	96	96	115	169	135
Public Assembly .....	305	34	37	31	58	42	59	43
Public Order and Safety .....	72	Q	Q	Q	Q	Q	Q	5
Religious Worship .....	307	44	Q	76	47	58	27	33
Service .....	478	Q	78	89	66	89	88	Q
Warehouse and Storage .....	603	36	66	68	62	91	132	149
Other .....	102	Q	Q	Q	27	Q	Q	Q
Vacant .....	253	49	57	67	45	Q	Q	Q
<b>Floors</b>								
One .....	2,879	88	209	478	461	568	547	529
Two .....	1,168	141	166	202	155	155	221	127
Three .....	420	136	81	72	31	38	45	16
Four to Nine .....	178	52	41	10	17	11	30	17
Ten or More .....	11	Q	2	1	2	2	3	1
<b>Census Region</b>								
Northeast .....	686	126	65	138	97	77	122	62
Midwest .....	1,188	172	206	174	155	141	165	175
South .....	1,762	69	155	289	199	338	408	304
West .....	1,021	52	73	162	215	219	151	149
<b>Workers (main shift)</b>								
Fewer than 5 .....	2,376	280	331	405	316	344	371	330
5 to 9 .....	807	62	65	135	124	174	126	121
10 to 19 .....	683	52	58	107	95	110	159	102
20 to 49 .....	487	12	29	84	78	81	116	87
50 to 99 .....	174	3	8	22	27	43	44	27
100 to 249 .....	90	Q	5	7	21	15	19	16
250 or More .....	39	Q	3	3	5	8	11	7
<b>Weekly Operating Hours</b>								
39 or Fewer .....	978	132	140	189	130	152	124	111
40 to 48 .....	1,156	116	145	213	154	147	222	158
49 to 60 .....	986	95	75	152	145	185	150	185
61 to 84 .....	664	39	68	122	109	111	118	96
85 to 167 .....	474	20	42	41	50	111	128	82
Open Continuously .....	398	17	29	46	77	67	104	58

**Table B8. Year Constructed, Number of Buildings, 1999**

	Number of Buildings (thousand)							
	All Buildings	Year Constructed						
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999
<b>Ownership and Occupancy</b>								
Nongovernment Owned .....	4,135	384	436	670	581	684	761	619
Owner Occupied .....	2,801	256	291	450	377	465	532	431
Nonowner Occupied .....	1,099	94	130	159	172	201	195	148
Unoccupied .....	236	Q	Q	62	Q	Q	Q	Q
Government Owned .....	521	35	63	93	85	90	85	71
<b>Vacancy Status</b>								
Completely Vacant .....	140	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant .....	113	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	697	71	64	89	89	104	134	146
Not At All Vacant .....	3,707	298	379	606	531	652	704	537
<b>Energy Sources (more than one may apply)</b>								
Electricity .....	4,395	363	480	716	628	758	781	669
Natural Gas .....	2,670	291	329	426	406	481	389	349
Fuel Oil .....	434	53	55	109	65	37	70	45
District Heat .....	117	20	9	21	18	Q	16	15
District Chilled Water .....	50	Q	2	5	7	Q	Q	4
Propane .....	451	Q	45	65	72	66	89	94
Other .....	153	Q	Q	36	12	24	39	Q
<b>Energy End Uses (more than one may apply)</b>								
Buildings with Space Heating .....	4,016	350	430	666	557	691	713	608
Buildings with Cooling .....	3,560	260	313	589	496	649	702	549
Buildings with Water Heating .....	3,239	277	311	493	493	592	623	450
Buildings with Cooking .....	857	69	85	115	131	161	173	124
Buildings with Manufacturing .....	151	Q	Q	28	19	32	37	Q
Buildings with Electricity Generation .....	172	Q	4	41	25	23	26	44
<b>Percent of Floorspace Heated</b>								
Not Heated .....	641	69	69	97	108	83	133	82
1 to 50 .....	576	48	79	93	58	107	113	78
51 to 99 .....	627	56	103	86	75	86	111	109
100 .....	2,813	246	248	487	424	498	490	421
<b>Percent of Floorspace Cooled</b>								
Not Cooled .....	1,097	159	186	174	169	125	144	141
1 to 50 .....	1,012	105	133	205	126	163	148	131
51 to 99 .....	751	65	94	102	123	118	128	122
100 .....	1,796	90	86	282	247	368	426	296
<b>Percent Lit When Open</b>								
Zero .....	34	N	N	Q	Q	Q	Q	Q
1 to 50 .....	835	122	152	159	91	113	108	91
51 to 99 .....	1,228	121	107	202	218	237	199	144
100 .....	2,096	99	175	315	283	374	464	387
Building Never Open/ Electricity Not Used .....	464	77	65	82	72	43	73	Q
<b>Heating Equipment (more than one may apply)</b>								
Heat Pumps .....	492	6	23	95	39	102	124	103
Furnaces .....	1,460	163	206	251	191	205	237	208
Individual Space Heaters .....	894	79	107	180	110	172	127	119
District Heat .....	96	19	9	21	16	Q	11	4
Boilers .....	581	100	83	121	98	63	65	52
Packaged Heating Units .....	1,347	40	110	157	213	304	289	235
Other .....	185	Q	Q	33	19	35	59	Q

**Table B8. Year Constructed, Number of Buildings, 1999**

	Number of Buildings (thousand)							
	All Buildings	Year Constructed						
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999
<b>Cooling Equipment (more than one may apply)</b>								
Residential-Type Central								
Air Conditioners .....	676	78	75	129	39	105	143	107
Heat Pumps .....	485	Q	24	89	39	106	121	91
Individual Air Conditioners .....	799	101	124	178	102	112	96	86
District Chilled Water .....	50	Q	2	5	7	Q	Q	4
Central Chillers .....	130	Q	8	13	32	17	22	29
Packaged Air Conditioning								
Units .....	1,953	92	143	275	332	398	421	291
Swamp Coolers .....	136	Q	Q	29	25	33	19	6
Other .....	49	Q	Q	Q	Q	Q	Q	Q
<b>Main Equipment Replaced Since 1995 (more than one may apply)</b>								
Heating .....	984	83	116	201	128	211	138	107
Cooling .....	1,085	83	112	216	157	239	186	93
<b>Lighting Equipment Types (more than one may apply)</b>								
Incandescent .....	2,193	221	283	334	307	391	415	242
Standard Fluorescent .....	3,778	307	376	622	525	674	721	552
Compact Fluorescent .....	607	44	58	56	122	81	123	121
High Intensity Discharge .....	430	41	31	54	48	69	94	93
Halogen .....	572	55	33	79	86	112	131	77
Other .....	58	Q	Q	Q	Q	Q	Q	Q
<b>Personal Computers</b>								
None .....	1,617	187	222	297	209	243	253	206
1 to 4 .....	1,636	156	194	274	245	297	272	198
5 to 9 .....	542	33	28	80	68	117	100	117
10 to 19 .....	403	27	12	43	66	53	108	94
20 to 49 .....	247	10	23	49	35	32	57	40
50 to 99 .....	105	Q	14	10	17	15	29	18
100 to 249 .....	71	3	4	6	18	10	18	12
250 or More .....	36	Q	3	4	6	7	9	5
<b>Photocopiers</b>								
None .....	2,825	289	338	502	409	446	489	352
One .....	1,114	88	100	160	178	205	184	198
2 to 4 .....	540	37	53	85	53	89	126	97
5 to 9 .....	102	Q	Q	4	16	21	23	34
10 or More .....	75	3	5	Q	9	13	24	10
<b>Other Electronic Equipment (more than one may apply)</b>								
Laser Printers .....	1,949	163	153	290	305	300	412	327
FAX Machines .....	2,807	222	251	430	383	481	564	476
Medical Diagnostic Equipment .....	86	Q	Q	23	8	28	14	11
<b>Energy-Related Space Functions (more than one may apply)</b>								
Commercial Food Preparation .....	767	53	82	100	127	135	163	108
Activities with Large Amounts of Hot Water .....	698	46	92	84	120	154	131	70
<b>Building Shell Conservation Features (more than one may apply)</b>								
Multipaned Windows .....	2,130	206	182	283	282	301	446	428
Tinted, Reflective, or Shading Glass .....	1,283	82	71	163	174	283	302	210

**Table B8. Year Constructed, Number of Buildings, 1999**

	Number of Buildings (thousand)							
	All Buildings	Year Constructed						
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999
<b>HVAC Conservation Features</b>								
<b>(more than one may apply)</b>								
Variable Air-Volume System .....	550	16	31	84	74	100	118	127
Economizer Cycle .....	567	23	18	40	121	98	138	129
HVAC Maintenance .....	2,786	233	250	440	405	461	577	420
Energy Management and Control System (EMCS) .....	460	17	35	52	110	55	102	90
<b>Lighting Conservation Features</b>								
<b>(more than one may apply)</b>								
Specular Reflectors .....	843	48	48	125	132	155	184	151
Electronic Ballasts .....	2,167	146	201	360	288	428	429	315
Skylights or Atriums .....	580	40	46	64	68	88	184	89

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.

**Table B9. Year Constructed, Floorspace, 1999**

	Total Floorspace (million square feet)							
	All Buildings	Year Constructed						
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999
<b>All Buildings</b> .....	67,338	4,034	6,445	9,127	10,866	11,840	13,931	11,094
<b>Building Floorspace (Square Feet)</b>								
1,001 to 5,000 .....	6,774	655	798	1,025	928	1,056	1,153	1,159
5,001 to 10,000 .....	8,238	791	776	1,777	1,165	1,392	1,150	1,188
10,001 to 25,000 .....	11,153	972	1,504	1,488	1,267	2,045	2,767	1,110
25,001 to 50,000 .....	9,311	489	673	1,343	1,987	1,587	1,594	1,638
50,001 to 100,000 .....	10,112	483	637	1,343	1,698	1,816	2,273	1,862
100,001 to 200,000 .....	8,271	Q	727	789	1,593	1,147	2,088	1,662
200,001 to 500,000 .....	6,851	Q	705	796	1,243	1,206	1,307	1,344
Over 500,000 .....	6,628	Q	624	565	987	1,593	1,599	1,131
<b>Principal Building Activity</b>								
Education .....	8,651	278	1,138	1,831	2,035	1,411	719	1,239
Food Sales .....	994	Q	Q	Q	Q	Q	Q	355
Food Service .....	1,851	Q	265	Q	310	295	347	Q
Health Care .....	2,918	Q	Q	322	487	852	558	473
Inpatient .....	1,865	Q	Q	232	377	613	287	Q
Outpatient .....	1,053	Q	Q	Q	Q	238	271	319
Lodging .....	4,521	Q	Q	351	870	838	1,289	716
Mercantile .....	10,398	818	381	1,384	1,305	1,951	2,529	2,030
Retail (Other Than Mall) .....	4,766	773	242	886	517	509	700	1,139
Enclosed and Strip Malls .....	5,631	Q	Q	497	788	1,442	1,829	891
Office .....	12,044	702	1,051	1,155	1,685	2,036	3,586	1,830
Public Assembly .....	4,393	292	569	534	868	717	678	736
Public Order and Safety .....	1,168	Q	Q	Q	Q	Q	Q	227
Religious Worship .....	3,405	385	Q	641	612	718	418	357
Service .....	3,388	Q	629	541	608	645	515	336
Warehouse and Storage .....	10,477	380	1,092	1,265	1,247	1,793	2,620	2,079
Other .....	1,222	Q	Q	Q	355	Q	Q	367
Vacant .....	1,908	385	468	501	257	Q	Q	Q
<b>Floors</b>								
One .....	26,800	464	1,455	3,683	4,466	5,156	5,946	5,632
Two .....	16,985	796	1,569	2,853	2,761	2,860	3,489	2,657
Three .....	8,928	1,439	1,376	1,328	1,163	1,339	1,309	974
Four to Nine .....	10,180	1,188	1,457	875	1,707	1,629	2,005	1,319
Ten or More .....	4,445	Q	589	388	770	857	1,183	512
<b>Census Region</b>								
Northeast .....	12,360	1,392	1,619	2,030	2,050	1,823	2,070	1,376
Midwest .....	16,761	1,576	2,423	2,152	2,602	2,347	2,828	2,834
South .....	23,485	549	1,704	2,910	3,318	4,278	6,263	4,464
West .....	14,731	518	699	2,035	2,896	3,391	2,771	2,420
<b>Workers (main shift)</b>								
Fewer than 5 .....	14,321	1,863	2,443	2,264	2,015	2,012	2,013	1,712
5 to 9 .....	6,325	506	508	1,012	1,181	1,337	952	829
10 to 19 .....	8,028	637	729	1,415	1,128	1,233	1,731	1,153
20 to 49 .....	10,814	316	691	1,947	1,707	1,682	2,383	2,089
50 to 99 .....	8,898	219	586	833	1,696	1,803	2,161	1,601
100 to 249 .....	8,356	235	658	688	1,561	1,515	1,915	1,786
250 or More .....	10,595	Q	830	968	1,579	2,259	2,776	1,925
<b>Weekly Operating Hours</b>								
39 or Fewer .....	6,596	803	1,182	1,292	967	1,035	807	511
40 to 48 .....	13,105	951	1,896	2,095	2,027	1,853	2,511	1,771
49 to 60 .....	14,200	967	1,209	2,083	2,171	2,586	2,892	2,292
61 to 84 .....	12,458	565	672	1,613	2,092	2,482	2,847	2,186
85 to 167 .....	9,116	274	611	934	1,482	1,812	2,021	1,981
Open Continuously .....	11,863	474	876	1,110	2,127	2,071	2,853	2,352

**Table B9. Year Constructed, Floorspace, 1999**

	Total Floorspace (million square feet)							
	All Buildings	Year Constructed						
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999
<b>Ownership and Occupancy</b>								
Nongovernment Owned .....	54,994	3,456	4,812	7,053	8,122	9,907	12,507	9,138
Owner Occupied .....	37,785	2,479	3,575	4,879	5,495	6,795	8,364	6,198
Nonowner Occupied .....	15,596	728	1,081	1,737	2,419	2,960	3,855	2,817
Unoccupied .....	1,613	Q	Q	437	Q	Q	Q	Q
Government Owned .....	12,343	579	1,633	2,074	2,745	1,933	1,424	1,956
<b>Vacancy Status</b>								
Completely Vacant .....	953	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant .....	956	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	15,520	932	1,360	1,583	2,382	2,646	3,802	2,817
Not At All Vacant .....	49,910	2,718	4,617	7,043	8,227	9,028	10,057	8,219
<b>Energy Sources (more than one may apply)</b>								
Electricity .....	65,716	3,714	6,281	8,794	10,686	11,750	13,485	11,007
Natural Gas .....	45,525	2,766	4,257	6,040	7,512	8,080	8,794	8,076
Fuel Oil .....	13,285	745	1,060	1,782	2,349	2,446	2,795	2,108
District Heat .....	5,891	486	764	1,088	1,406	788	682	677
District Chilled Water .....	2,750	Q	134	406	633	492	424	407
Propane .....	6,290	Q	473	748	1,220	1,033	1,333	1,295
Other .....	2,322	Q	Q	433	353	352	499	353
<b>Energy End Uses (more than one may apply)</b>								
Buildings with Space Heating .....	61,602	3,593	5,559	8,402	9,966	10,916	12,566	10,600
Buildings with Cooling .....	58,474	2,911	4,383	7,601	9,325	11,050	12,849	10,355
Buildings with Water Heating .....	56,115	3,130	4,644	7,154	9,421	10,182	12,137	9,446
Buildings with Cooking .....	24,681	1,091	2,232	3,195	4,178	4,551	5,030	4,403
Buildings with Manufacturing .....	3,126	Q	Q	535	409	555	744	485
Buildings with Electricity Generation .....	11,882	267	520	1,205	2,067	2,438	2,644	2,741
<b>Percent of Floorspace Heated</b>								
Not Heated .....	5,736	441	886	725	901	924	1,366	493
1 to 50 .....	7,593	507	834	1,304	1,038	1,458	1,254	1,198
51 to 99 .....	10,745	798	1,249	1,178	1,891	1,670	2,181	1,777
100 .....	43,264	2,288	3,476	5,920	7,037	7,789	9,131	7,625
<b>Percent of Floorspace Cooled</b>								
Not Cooled .....	8,864	1,123	2,062	1,526	1,542	790	1,083	739
1 to 50 .....	16,846	1,237	1,936	3,068	2,406	2,812	2,833	2,553
51 to 99 .....	16,966	1,022	1,234	1,796	3,235	2,998	3,584	3,096
100 .....	24,662	653	1,213	2,737	3,683	5,240	6,431	4,706
<b>Percent Lit When Open</b>								
Zero .....	173	N	N	Q	Q	Q	Q	Q
1 to 50 .....	9,187	1,130	1,452	1,720	1,162	1,448	1,318	957
51 to 99 .....	20,665	1,290	1,879	2,856	3,765	3,832	3,801	3,242
100 .....	34,233	1,129	2,523	3,930	5,552	6,276	8,153	6,670
Building Never Open/ Electricity Not Used .....	3,080	486	590	605	371	240	609	Q
<b>Heating Equipment (more than one may apply)</b>								
Heat Pumps .....	8,923	251	449	1,064	1,129	1,651	2,583	1,796
Furnaces .....	14,449	1,214	1,552	2,082	2,053	2,235	2,927	2,387
Individual Space Heaters .....	17,349	1,042	1,772	2,551	2,496	3,345	3,428	2,715
District Heat .....	5,534	480	764	1,065	1,351	769	606	499
Boilers .....	19,522	1,397	2,264	2,762	4,231	3,275	3,114	2,479
Packaged Heating Units .....	25,743	428	1,476	2,917	3,961	4,899	6,379	5,684
Other .....	4,073	Q	Q	563	560	684	1,012	786

**Table B9. Year Constructed, Floorspace, 1999**

	Total Floorspace (million square feet)							
	All Buildings	Year Constructed						
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999
<b>Cooling Equipment (more than one may apply)</b>								
Residential-Type Central								
Air Conditioners .....	8,329	677	657	1,239	957	1,621	1,904	1,274
Heat Pumps .....	9,147	284	551	984	1,119	1,793	2,711	1,705
Individual Air Conditioners .....	14,276	1,206	2,074	2,833	2,296	2,237	2,155	1,476
District Chilled Water .....	2,750	Q	134	406	633	492	424	407
Central Chillers .....	12,909	254	984	1,329	2,765	2,766	2,584	2,229
Packaged Air Conditioning								
Units .....	36,527	1,244	2,367	4,427	5,686	7,001	8,978	6,825
Swamp Coolers .....	2,219	Q	Q	261	527	499	345	339
Other .....	1,312	Q	Q	Q	Q	316	348	Q
<b>Main Equipment Replaced Since 1995 (more than one may apply)</b>								
Heating .....	13,220	756	1,212	2,191	2,164	3,100	3,002	794
Cooling .....	17,390	1,003	1,602	2,735	3,161	4,254	3,692	943
<b>Lighting Equipment Types (more than one may apply)</b>								
Incandescent .....	38,156	2,533	3,909	4,951	6,268	7,089	8,028	5,377
Standard Fluorescent .....	60,344	3,246	5,417	8,031	9,939	11,099	12,619	9,993
Compact Fluorescent .....	20,666	1,040	1,423	2,019	3,445	3,824	4,755	4,160
High Intensity Discharge .....	19,223	682	1,530	1,981	2,986	3,413	4,166	4,464
Halogen .....	17,926	871	921	1,861	2,916	3,511	4,272	3,574
Other .....	1,004	Q	Q	Q	Q	Q	Q	392
<b>Personal Computers</b>								
None .....	9,583	1,097	1,546	1,772	1,191	1,404	1,476	1,098
1 to 4 .....	13,853	1,281	1,840	2,174	2,357	2,592	2,040	1,569
5 to 9 .....	6,528	264	334	936	837	1,523	1,443	1,191
10 to 19 .....	7,514	484	306	826	1,279	1,112	1,860	1,647
20 to 49 .....	8,087	258	622	1,223	1,021	1,149	2,014	1,801
50 to 99 .....	5,867	Q	549	640	1,012	890	1,341	1,276
100 to 249 .....	6,818	245	405	566	1,480	1,260	1,616	1,245
250 or More .....	9,088	Q	843	990	1,690	1,910	2,142	1,267
<b>Photocopiers</b>								
None .....	21,631	1,907	2,625	3,747	3,396	3,578	3,689	2,690
One .....	12,928	918	1,349	1,660	2,163	2,240	2,240	2,358
2 to 4 .....	15,620	741	1,116	2,176	2,389	2,707	3,571	2,921
5 to 9 .....	5,384	Q	Q	319	1,119	921	1,350	1,373
10 or More .....	11,774	362	1,159	1,225	1,800	2,394	3,081	1,752
<b>Other Electronic Equipment (more than one may apply)</b>								
Laser Printers .....	46,567	2,181	3,288	5,675	7,867	8,341	10,449	8,765
FAX Machines .....	54,764	2,786	4,442	6,835	8,827	10,029	11,961	9,883
Medical Diagnostic Equipment .....	2,493	Q	Q	296	439	786	507	388
<b>Energy-Related Space Functions (more than one may apply)</b>								
Commercial Food Preparation .....	23,328	956	2,138	3,051	4,028	4,209	4,827	4,120
Activities with Large Amounts of Hot Water .....	21,793	802	1,858	2,614	4,123	4,123	4,530	3,743
<b>Building Shell Conservation Features (more than one may apply)</b>								
Multipaned Windows .....	38,193	2,294	3,049	4,225	5,155	6,395	9,060	8,016
Tinted, Reflective, or Shading Glass .....	29,915	931	1,467	2,854	4,322	6,087	7,919	6,335

**Table B9. Year Constructed, Floorspace, 1999**

	Total Floorspace (million square feet)							
	All Buildings	Year Constructed						
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1999
<b>HVAC Conservation Features</b>								
<b>(more than one may apply)</b>								
Variable Air-Volume System .....	19,387	540	960	1,593	3,238	3,718	4,666	4,672
Economizer Cycle .....	21,256	628	1,103	1,811	3,718	4,380	5,053	4,563
HVAC Maintenance .....	53,395	2,669	4,242	6,658	8,749	9,669	11,743	9,665
Energy Management and Control System (EMCS) .....	21,613	509	1,566	2,243	4,020	3,791	4,409	5,074
<b>Lighting Conservation Features</b>								
<b>(more than one may apply)</b>								
Specular Reflectors .....	19,994	728	1,380	2,339	2,825	3,887	4,724	4,111
Electronic Ballasts .....	42,035	1,828	3,472	5,236	6,649	8,174	8,862	7,815
Skylights or Atriums .....	18,286	803	1,211	1,744	2,549	3,062	5,254	3,664

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.