

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
All Buildings	67,338	6,774	8,238	11,153	9,311	10,112	8,271	6,851	6,628
Principal Building Activity									
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
Year Constructed									
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
Floors									
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
Census Region									
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
Workers (main shift)									
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
Weekly Operating Hours									
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

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Ownership and Occupancy									
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
Vacancy Status									
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
Number of Establishments									
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
Energy Sources (more than one may apply)									
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
Energy End Uses (more than one may apply)									
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
Percent of Floorspace Heated									
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
Percent of Floorspace Cooled									
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
Percent Lit When Open									
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

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Heating Equipment (more than one may apply)									
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
Cooling Equipment (more than one may apply)									
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
Main Equipment Replaced Since 1995 (more than one may apply)									
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
Lighting Equipment Types (more than one may apply)									
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
Personal Computers									
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
Photocopiers									
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
Other Electronic Equipment (more than one may apply)									
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

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Energy-Related Space Functions (more than one may apply)									
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
Building Shell Conservation Features (more than one may apply)									
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
HVAC Conservation Features (more than one may apply)									
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
Lighting Conservation Features (more than one may apply)									
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
Off-Hour Equipment Reduction (more than one may apply)									
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.