

Table B37. Heated, Cooled, and Lit Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
	Total Floorspace in All Buildings*	Heated Buildings		Cooled Buildings		Lit Buildings ^c	
		Total Floor-space ^a	Heated Floor-space ^b	Total Floor-space ^a	Cooled Floor-space ^b	Total Floor-space ^a	Lit Floor-space ^b
All Buildings*	64,783	60,028	53,473	56,940	41,788	62,060	51,342
Building Floorspace (Square Feet)							
1,001 to 5,000	6,789	5,668	4,988	5,007	4,017	6,038	4,826
5,001 to 10,000	6,585	5,786	5,010	5,408	3,978	6,090	4,974
10,001 to 25,000	11,535	10,387	8,865	9,922	6,927	11,229	8,618
25,001 to 50,000	8,668	8,060	7,260	7,776	5,663	8,297	6,544
50,001 to 100,000	9,057	8,718	7,815	8,331	5,665	8,912	7,548
100,001 to 200,000	9,064	8,710	8,012	8,339	6,462	8,732	7,470
200,001 to 500,000	7,176	6,907	6,458	6,565	4,702	6,946	6,158
Over 500,000	5,908	5,792	5,065	5,591	4,375	5,816	5,204
Principal Building Activity							
Education	9,874	9,755	9,521	9,200	7,211	9,870	8,983
Food Sales	1,255	1,131	998	1,198	911	1,237	1,129
Food Service	1,654	1,608	1,415	1,583	1,325	1,650	1,391
Health Care	3,163	3,100	2,982	3,157	2,934	3,163	2,937
Inpatient	1,905	1,905	1,846	1,899	1,763	1,905	1,788
Outpatient	1,258	1,195	1,137	1,258	1,171	1,258	1,149
Lodging	5,096	4,994	4,719	4,841	4,082	5,096	3,901
Retail (Other Than Mall)	4,317	4,075	3,451	4,079	3,147	4,315	3,795
Office	12,208	11,929	11,184	12,032	10,721	12,208	10,846
Public Assembly	3,939	3,777	3,463	3,477	2,791	3,917	2,807
Public Order and Safety	1,090	1,083	1,043	1,043	884	1,074	940
Religious Worship	3,754	3,581	3,344	3,301	2,733	3,754	2,419
Service	4,050	3,687	3,202	3,261	1,504	3,911	3,348
Warehouse and Storage	10,078	8,126	5,341	7,295	2,074	9,125	7,136
Other	1,738	1,691	1,585	1,636	1,075	1,721	1,582
Vacant	2,567	1,491	1,226	836	396	1020	129
Year Constructed							
Before 1920	3,769	3,667	3,069	2,891	1,774	3,554	2,448
1920 to 1945	6,871	6,236	5,546	4,919	3,097	6,367	5,127
1946 to 1959	7,045	6,534	5,972	6,045	4,109	6,727	5,331
1960 to 1969	8,101	7,510	6,991	7,125	5,137	7,972	6,371
1970 to 1979	10,772	10,223	9,261	9,973	7,467	10,381	8,960
1980 to 1989	10,332	9,808	8,750	9,836	7,859	10,087	8,688
1990 to 1999	12,360	11,254	9,876	11,304	8,568	11,828	10,119
2000 to 2003	5,533	4,796	4,008	4,848	3,777	5,144	4,298
Census Region							
Northeast	12,905	12,596	11,393	10,954	7,080	12,559	9,957
Midwest	17,080	16,331	15,191	14,484	10,103	16,246	13,044
South	23,489	20,998	18,226	21,553	17,175	22,325	19,043
West	11,310	10,102	8,663	9,950	7,429	10,930	9,299
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	10,622	10,109	9,095	8,550	5,654	10,108	7,999
5,500-7,000 HDD	17,335	16,720	15,635	14,524	10,287	16,676	13,715
4,000-5,499 HDD	11,504	11,239	9,961	10,946	7,760	11,228	9,235
Fewer than 4,000 HDD	15,739	13,965	12,120	13,977	10,810	14,947	12,821
2,000 CDD or More and --							
Fewer than 4,000 HDD	9,584	7,995	6,661	8,943	7,278	9,102	7,572

CONTINUED

Table B37. Heated, Cooled, and Lit Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
	Total Floorspace in All Buildings*	Heated Buildings		Cooled Buildings		Lit Buildings ^c	
		Total Floor-space ^a	Heated Floor-space ^b	Total Floor-space ^a	Cooled Floor-space ^b	Total Floor-space ^a	Lit Floor-space ^b
All Buildings*	64,783	60,028	53,473	56,940	41,788	62,060	51,342
Number of Floors							
One	25,981	22,744	19,672	21,419	14,604	24,288	20,535
Two	16,270	15,408	13,614	14,544	10,315	15,752	12,377
Three	7,501	7,198	6,477	6,437	4,841	7,242	5,705
Four to Nine	10,085	9,744	9,115	9,673	7,685	9,831	8,300
Ten or More	4,947	4,933	4,595	4,867	4,343	4,947	4,425
Number of Workers (main shift)							
Fewer than 5	15,492	12,182	10,134	9,591	6,482	12,835	8,434
5 to 9	6,166	5,822	4,977	5,726	3,991	6,143	4,622
10 to 19	7,803	7,410	6,455	7,304	4,709	7,791	6,400
20 to 49	10,989	10,822	9,727	10,566	7,410	10,959	9,559
50 to 99	7,934	7,650	7,055	7,428	5,565	7,934	7,015
100 to 249	6,871	6,766	6,361	6,806	5,627	6,871	6,497
250 or More	9,528	9,376	8,765	9,519	8,004	9,528	8,815
Weekly Operating Hours							
Fewer than 40	6,863	5,246	4,505	3,998	3,000	4,922	3,149
40 to 48	11,622	10,928	9,706	10,508	7,649	11,515	9,402
49 to 60	15,723	14,763	12,900	13,757	9,687	15,625	12,909
61 to 84	10,334	10,012	8,917	9,691	6,780	10,312	9,037
85 to 167	7,092	6,680	5,944	6,708	4,592	6,906	6,143
Open Continuously	13,149	12,399	11,502	12,277	10,081	12,781	10,703
Vacancy Status							
Completely Vacant	2,161	1,222	1,016	585	286	676	36
Mostly Vacant	406	Q	Q	Q	Q	Q	Q
Partially Vacant	12,382	11,491	10,179	11,084	8,430	12,062	9,884
Not At All Vacant	49,834	47,046	42,069	45,019	32,962	48,978	41,330
Energy Sources (more than one may apply)							
Electricity	63,307	59,991	53,450	56,925	41,787	62,060	51,342
Natural Gas	43,468	42,974	38,973	41,023	29,979	42,950	35,822
Fuel Oil	15,157	14,942	13,695	13,890	10,538	15,037	12,744
District Heat	5,443	5,378	5,259	4,653	4,100	5,319	4,818
District Chilled Water	2,853	2,734	2,630	2,853	2,682	2,819	2,518
Propane	7,076	6,790	5,768	5,713	3,373	6,990	5,718
Other	1,401	1,399	1,296	1,225	783	1,370	1,158
Space-Heating Energy Sources (more than one may apply)							
Electricity	28,600	28,600	24,717	27,509	20,877	28,358	23,659
Natural Gas	36,959	36,959	33,306	34,725	24,924	36,482	30,599
Fuel Oil	5,988	5,988	5,346	4,804	2,839	5,954	4,561
District Heat	5,198	5,198	5,079	4,408	3,894	5,074	4,589
Propane	3,204	3,204	2,779	2,499	1,672	3,143	2,443
Other	842	842	756	667	347	811	698
Primary Space-Heating Energy Source							
Electricity	15,996	15,996	13,314	15,562	12,446	15,887	13,338
Natural Gas	32,970	32,970	29,900	30,808	21,977	32,500	27,190
Fuel Oil	3,818	3,818	3,384	2,836	1,425	3,800	2,717
District Heat	4,907	4,907	4,805	4,147	3,683	4,783	4,305
Propane	1,955	1,955	1,721	1,553	1,027	1,894	1,516
Other	382	382	349	282	135	351	313

Energy Information Administration

2003 Commercial Buildings Energy Consumption Survey: Building Characteristics Tables

Revised June 2006

CONTINUED

Table B37. Heated, Cooled, and Lit Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
	Total Floorspace in All Buildings*	Heated Buildings		Cooled Buildings		Lit Buildings ^c	
		Total Floor-space ^a	Heated Floor-space ^b	Total Floor-space ^a	Cooled Floor-space ^b	Total Floor-space ^a	Lit Floor-space ^b
All Buildings*	64,783	60,028	53,473	56,940	41,788	62,060	51,342
Cooling Energy Sources (more than one may apply)							
Electricity	54,321	52,584	46,884	54,321	39,413	54,056	45,376
Natural Gas	1,018	1,018	958	1,018	904	1,018	882
District Chilled Water	2,853	2,734	2,630	2,853	2,682	2,819	2,518
Energy End Uses (more than one may apply)							
Buildings with Space Heating	60,028	60,028	53,473	55,188	40,694	59,215	49,379
Buildings with Cooling	56,940	55,188	49,335	56,940	41,788	56,661	47,647
Buildings with Water Heating	56,478	55,154	49,850	53,232	39,678	56,011	46,938
Buildings with Cooking	22,237	21,725	20,737	21,451	17,514	22,166	18,993
Buildings with Manufacturing	3,138	3,072	2,451	2,655	1,206	3,097	2,537
Buildings with Electricity Generation	12,821	12,635	11,902	12,746	10,689	12,745	11,468
Percent of Floorspace Heated							
Not Heated	4,756	N	N	1,752	1,095	2,845	1,963
1 to 50	6,850	6,850	1,844	6,013	1,958	6,665	4,279
51 to 99	8,107	8,107	6,558	7,768	5,216	8,064	6,590
100	45,071	45,071	45,071	41,407	33,519	44,486	38,510
Percent of Floorspace Cooled							
Not Cooled	7,843	4,839	4,138	N	N	5,400	3,695
1 to 50	16,598	15,852	11,652	16,598	3,957	16,479	12,756
51 to 99	13,211	12,888	11,704	13,211	10,699	13,197	10,948
100	27,132	26,448	25,978	27,132	27,132	26,984	23,943
Percent Lit When Open							
Zero	293	Q	Q	Q	Q	Q	Q
1 to 50	10,203	9,295	6,974	8,535	5,094	10,203	3,454
51 to 99	18,288	17,648	16,043	17,132	13,144	18,288	15,056
100	32,789	31,575	29,245	30,559	23,192	32,789	32,789
Building Never Open/ Electricity Not Used	3,210	1,443	1,172	658	323	754	43
Percent Lit When Closed							
Zero	17,385	15,724	13,502	13,741	9,332	16,238	12,794
1 to 50	30,948	29,929	26,641	28,899	20,816	30,948	25,794
51 to 100	2,093	1,939	1,805	2,008	1,559	2,093	2,051
Building Never Closed/ Electricity Not Used	14,357	12,436	11,525	12,292	10,082	12,781	10,703
Heating Equipment (more than one may apply)							
Heat Pumps	8,814	8,814	8,030	8,780	7,334	8,791	7,742
Packaged Heat Pumps	5,442	5,442	4,994	5,430	4,638	5,419	4,859
Split-System Heat Pumps	2,581	2,581	2,288	2,559	1,959	2,581	2,242
Individual Room Heat Pumps	2,691	2,691	2,572	2,691	2,410	2,691	2,346
Furnaces	19,615	19,615	17,143	17,494	11,616	19,373	15,496
Individual Space Heaters	12,545	12,545	10,714	11,526	7,689	12,380	9,869
District Heat	5,166	5,166	5,047	4,376	3,862	5,042	4,559
Boilers	20,423	20,423	19,351	19,051	14,256	20,201	17,076
Packaged Heating Units	18,021	18,021	15,675	17,745	13,374	17,831	15,311
Other	3,262	3,262	2,939	2,961	2,050	3,213	2,792

CONTINUED

Table B37. Heated, Cooled, and Lit Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
	Total Floorspace in All Buildings*	Heated Buildings		Cooled Buildings		Lit Buildings ^c	
		Total Floor-space ^a	Heated Floor-space ^b	Total Floor-space ^a	Cooled Floor-space ^b	Total Floor-space ^a	Lit Floor-space ^b
All Buildings*	64,783	60,028	53,473	56,940	41,788	62,060	51,342
Cooling Equipment (more than one may apply)							
Residential-Type Central							
Air Conditioners	11,035	10,617	9,180	11,035	7,204	10,960	8,820
Heat Pumps	9,041	8,921	8,119	9,041	7,402	9,024	7,951
Packaged Heat Pumps	5,426	5,407	4,955	5,426	4,589	5,410	4,810
Split-System Heat Pumps	2,606	2,559	2,305	2,606	2,008	2,606	2,278
Individual Room Heat Pumps	2,940	2,887	2,702	2,940	2,496	2,940	2,599
Individual Air Conditioners	12,558	12,167	10,791	12,558	7,516	12,483	9,656
District Chilled Water	2,853	2,734	2,630	2,853	2,682	2,819	2,518
Central Chillers	11,636	11,440	11,008	11,636	10,637	11,630	10,490
Packaged Air Conditioning							
Units	29,969	29,007	26,093	29,969	21,903	29,862	25,304
Swamp Coolers	1,561	1,451	1,324	1,561	1,104	1,553	1,348
Other	1,232	1,203	1,103	1,232	1,025	1,217	1,094
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	16,403	16,403	14,365	15,190	10,741	16,150	13,014
Cooling	20,995	20,633	18,501	20,995	14,869	20,907	16,996
Lighting Equipment Types (more than one may apply)							
Incandescent	38,528	37,220	34,075	36,075	27,809	38,528	31,489
Standard Fluorescent	59,688	57,351	51,219	55,117	40,412	59,688	49,691
Compact Fluorescent	27,571	26,835	24,856	26,790	21,266	27,571	23,610
High Intensity Discharge	20,643	20,093	17,940	19,054	13,107	20,643	17,913
Halogen	17,703	17,042	15,387	17,115	13,358	17,703	14,999
Other	269	Q	Q	269	256	269	244
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	19,597	19,108	17,874	19,255	16,191	19,419	17,205
Economizer Cycle	21,108	20,828	19,603	21,108	17,656	21,030	18,732
HVAC Maintenance	51,163	49,812	45,250	47,935	36,163	50,732	43,125
Energy Management and Control System (EMCS)	15,630	15,457	14,644	15,358	13,119	15,544	14,225
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	38,910	38,065	34,478	36,420	27,363	38,424	32,135
Tinted Window Glass	29,887	28,570	25,611	27,941	21,645	29,365	25,280
Reflective Window Glass	8,544	8,403	7,621	8,349	6,716	8,425	7,372
External Overhangs							
or Awnings	17,242	16,556	14,809	16,380	12,179	17,087	14,640
Skylights or Atriums	12,546	12,217	10,979	12,126	8,539	12,486	10,799
Daylighting Sensors	2,868	2,728	2,541	2,819	2,280	2,868	2,444
Specular Reflectors	26,118	25,389	23,288	24,724	18,587	26,118	22,443
Electronic Ballasts	46,882	45,351	40,872	43,881	32,693	46,882	39,880
Energy Management and Control System (EMCS)							
For Lighting	4,781	4,729	4,424	4,755	4,132	4,781	4,390

CONTINUED

Table B37. Heated, Cooled, and Lit Buildings, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
	Total Floorspace in All Buildings*	Heated Buildings		Cooled Buildings		Lit Buildings ^c	
		Total Floor-space ^a	Heated Floor-space ^b	Total Floor-space ^a	Cooled Floor-space ^b	Total Floor-space ^a	Lit Floor-space ^b
All Buildings*	64,783	60,028	53,473	56,940	41,788	62,060	51,342
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^d							
Heating	42,722	42,722	38,310	39,864	29,378	42,305	35,145
Cooling	43,205	41,977	37,643	43,205	31,409	42,977	35,950
Lighting	46,987	44,799	39,632	42,589	30,335	46,987	39,386
Office Equipment	19,397	18,638	16,582	17,749	12,294	19,349	15,788

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - <http://www.eia.doe.gov/emeu/cbecs>.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

^a "Total Floorspace" refers to all floorspace in heated, cooled, or lit buildings, including the floorspace that was not heated, cooled, or lit.

^b "Heated Floorspace," "Cooled Floorspace," and "Lit Floorspace" refer only to the portion of the floorspace in these buildings that was reported to be heated, cooled, or lit.

^c Data in "Lit Buildings" are for buildings lit when open or closed. The definition for these columns has changed since the original table release, when they excluded buildings that were lit when closed but not lit when open.

^d The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See Description of Detailed Tables for explanation of the differences (web address given below).

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.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● 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 2003 Commercial Buildings Energy Consumption Survey.