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Table B37. Heated, cooled, and lit buildings, floorspace, 2012

	Total floorspace (million square feet)						
	Total floor-space in all buildings	Heated buildings		Cooled buildings		Lit buildings	
		Total floor-space ¹	Heated floor-space ²	Total floor-space ¹	Cooled floor-space ²	Total floor-space ¹	Lit floor-space ²
All buildings	87,093	80,078	70,053	79,294	60,998	83,569	68,729
Building floorspace (square feet)							
1,001 to 5,000	8,041	6,699	5,833	6,124	4,916	7,130	5,590
5,001 to 10,000	8,900	7,590	6,316	7,304	5,327	8,152	6,288
10,001 to 25,000	14,105	12,744	10,540	12,357	8,840	13,250	10,251
25,001 to 50,000	11,917	10,911	9,638	10,813	7,968	11,542	9,329
50,001 to 100,000	13,918	13,114	11,649	13,069	10,351	13,564	11,088
100,001 to 200,000	12,415	11,941	10,819	12,152	9,763	12,282	10,539
200,001 to 500,000	10,724	10,348	9,124	10,518	8,161	10,634	9,236
Over 500,000	7,074	6,730	6,133	6,958	5,671	7,014	6,407
Principal building activity							
Education	12,239	12,099	11,701	11,811	9,910	12,239	11,005
Food sales	1,252	1,196	1,092	1,190	987	1,252	1,162
Food service	1,819	1,762	1,589	1,712	1,508	1,819	1,533
Health care	4,155	4,109	3,973	4,148	3,935	4,155	3,800
Inpatient	2,374	2,354	2,314	2,374	2,275	2,374	2,234
Outpatient	1,781	1,754	1,659	1,774	1,660	1,781	1,565
Lodging	5,826	5,696	5,427	5,700	5,176	5,817	4,669
Mercantile	11,330	10,794	9,620	11,121	9,380	11,320	9,875
Retail (other than mall)	5,439	5,088	4,606	5,230	4,351	5,430	4,876
Enclosed and strip malls	5,890	5,706	5,014	5,890	5,029	5,890	4,999
Office	15,952	15,753	14,675	15,882	14,095	15,952	13,696
Public assembly	5,559	5,323	4,795	5,235	4,276	5,527	4,622
Public order and safety	1,440	1,391	1,293	1,384	1,036	1,414	1,193
Religious worship	4,557	4,511	4,074	4,271	3,586	4,557	3,099
Service	4,630	4,157	3,449	3,773	1,859	4,379	3,563
Warehouse and storage	13,077	9,987	5,997	10,120	3,426	12,079	8,621
Other	2,002	1,886	1,519	1,820	1,242	1,930	1,585
Vacant	3,256	1,415	850	1,125	582	1,128	305
Year constructed							
Before 1920	3,983	3,583	2,931	3,087	1,995	3,715	2,520
1920 to 1945	6,025	5,527	4,944	5,215	3,828	5,774	4,680
1946 to 1959	7,381	6,895	6,029	6,679	4,967	7,087	5,654
1960 to 1969	10,362	9,730	8,688	9,634	7,046	10,061	8,422
1970 to 1979	10,846	10,045	8,771	10,031	7,721	10,354	8,655
1980 to 1989	15,230	13,723	11,608	14,011	10,862	14,688	12,051
1990 to 1999	13,803	12,389	10,880	12,402	9,830	12,856	11,075
2000 to 2003	7,215	6,707	5,984	6,939	5,522	7,100	5,800
2004 to 2007	6,524	5,972	5,255	6,071	4,897	6,378	5,256
2008 to 2012	5,723	5,505	4,963	5,225	4,331	5,556	4,615

Table B37. Heated, cooled, and lit buildings, floorspace, 2012

Total floorspace (million square feet)

	Total floor-space in all buildings	Heated buildings		Cooled buildings		Lit buildings	
		Total floor-space ¹	Heated floor-space ²	Total floor-space ¹	Cooled floor-space ²	Total floor-space ¹	Lit floor-space ²
All buildings	87,093	80,078	70,053	79,294	60,998	83,569	68,729
Census region and division							
Northeast	15,534	15,053	13,754	13,949	10,340	15,071	12,570
New England	4,302	4,090	3,700	3,482	2,461	4,062	3,236
Middle Atlantic	11,232	10,963	10,054	10,467	7,879	11,009	9,334
Midwest	18,919	18,055	16,707	17,144	12,736	18,190	14,834
East North Central	12,742	12,240	11,467	11,675	8,574	12,323	10,072
West North Central	6,178	5,815	5,241	5,469	4,163	5,867	4,762
South	34,279	30,499	26,530	31,734	25,647	32,621	27,067
South Atlantic	17,981	15,883	13,817	17,094	13,891	17,449	14,594
East South Central	4,904	4,692	4,169	4,710	3,691	4,726	3,917
West South Central	11,394	9,923	8,544	9,931	8,065	10,446	8,556
West	18,360	16,471	13,061	16,467	12,274	17,687	14,257
Mountain	4,981	4,704	4,157	4,489	3,667	4,677	3,974
Pacific	13,379	11,767	8,904	11,978	8,607	13,010	10,283
Climate region³							
Very cold/Cold	31,898	30,469	28,057	28,228	21,019	30,542	25,067
Mixed-humid	27,873	26,716	24,044	26,365	21,026	27,096	22,812
Mixed-dry/Hot-dry	12,037	10,484	7,628	10,887	7,692	11,670	9,059
Hot-humid	12,831	10,090	8,390	11,624	9,529	11,881	9,851
Marine	2,454	2,319	1,934	2,190	1,732	2,381	1,939
Number of floors							
One	39,809	34,513	28,983	34,156	24,766	37,113	30,598
Two	20,206	19,411	16,889	19,012	13,955	19,726	15,943
Three	8,140	7,896	7,187	7,734	6,213	8,055	6,239
Four to nine	13,535	12,992	12,096	13,036	11,248	13,307	11,040
Ten or more	5,404	5,265	4,897	5,356	4,816	5,368	4,910
Number of workers (main shift)							
Fewer than 5	17,751	12,931	10,634	11,595	8,033	14,286	9,312
5 to 9	8,973	8,492	6,675	8,238	5,710	8,925	6,849
10 to 19	9,623	8,970	7,512	9,190	6,270	9,614	7,822
20 to 49	14,514	14,126	12,147	14,219	10,636	14,512	12,133
50 to 99	13,476	13,184	12,156	13,323	10,931	13,476	11,911
100 to 249	10,941	10,805	10,065	10,913	8,849	10,941	9,761
250 or more	11,815	11,570	10,864	11,815	10,570	11,815	10,941
Weekly operating hours							
Fewer than 40	8,220	5,763	4,938	5,083	3,914	5,514	3,906
40 to 48	15,828	14,867	12,442	14,512	10,368	15,693	12,229
49 to 60	20,529	19,365	16,689	19,297	14,009	20,401	16,966
61 to 84	15,867	15,148	13,308	15,170	11,661	15,773	13,351
85 to 167	9,395	8,711	7,790	8,864	6,923	9,336	8,092
Open continuously	17,253	16,224	14,886	16,368	14,123	16,852	14,185

Table B37. Heated, cooled, and lit buildings, floorspace, 2012

Total floorspace (million square feet)

	Total floor-space in all buildings	Heated buildings		Cooled buildings		Lit buildings	
		Total floor-space ¹	Heated floor-space ²	Total floor-space ¹	Cooled floor-space ²	Total floor-space ¹	Lit floor-space ²
All buildings	87,093	80,078	70,053	79,294	60,998	83,569	68,729
Energy sources (more than one may apply)							
Electricity	84,869	80,053	70,042	79,294	60,998	83,569	68,729
Natural gas	58,725	58,129	52,163	56,899	44,163	58,278	48,925
Fuel oil	20,200	19,670	17,668	19,309	15,819	20,120	17,541
District heat	5,964	5,962	5,766	5,903	5,256	5,873	5,073
District chilled water	4,608	4,561	4,420	4,608	4,282	4,545	3,952
Propane	7,706	7,332	5,993	7,061	4,567	7,652	6,352
Other	3,826	3,826	3,413	3,573	2,470	3,784	3,189
Space-heating energy sources (more than one may apply)							
Electricity	49,030	49,030	42,273	47,914	37,789	48,789	40,600
Natural gas	49,511	49,511	44,372	47,836	36,284	49,150	41,159
Fuel oil	4,351	4,351	3,691	3,660	2,464	4,288	3,592
District heat	5,925	5,925	5,730	5,864	5,218	5,835	5,037
Propane	3,067	3,067	2,578	2,685	1,866	3,030	2,437
Other	1,010	1,010	889	821	442	985	819
Primary space-heating energy source							
Electricity	26,205	26,205	21,478	25,613	20,608	26,013	21,290
Natural gas	42,988	42,988	38,698	41,435	31,193	42,684	35,767
Fuel oil	2,542	2,542	2,146	1,984	1,243	2,479	1,951
District heat	5,797	5,797	5,603	5,736	5,097	5,706	4,926
Propane	1,948	1,948	1,604	1,643	1,145	1,928	1,527
Other	598	598	524	425	Q	573	453
Cooling energy sources (more than one may apply)							
Electricity	76,034	73,613	64,523	76,034	57,966	75,680	62,991
Natural gas	732	732	699	732	614	732	611
District chilled water	4,608	4,561	4,420	4,608	4,282	4,545	3,952
Energy end uses (more than one may apply)							
Buildings with space heating	80,078	80,078	70,053	76,834	59,496	79,384	65,913
Buildings with cooling	79,294	76,834	67,641	79,294	60,998	78,876	65,679
Buildings with water heating	79,015	76,584	67,598	76,414	59,286	78,622	65,494
Buildings with cooking	38,546	37,771	35,200	37,687	32,069	38,494	33,285
Buildings with manufacturing	5,078	4,790	3,658	4,682	2,589	5,044	4,109
Buildings with electricity generation	25,642	25,155	23,269	25,350	21,355	25,605	22,505
Percent of floorspace heated							
Not heated	7,015	N	N	2,459	1,501	4,185	2,815
1 to 50	10,130	10,130	2,611	9,164	3,219	9,956	6,538
51 to 99	14,650	14,650	12,144	14,438	11,166	14,586	12,006
100	55,298	55,298	55,298	53,232	45,111	54,842	47,369

Table B37. Heated, cooled, and lit buildings, floorspace, 2012

Total floorspace (million square feet)

	Heated buildings		Cooled buildings		Lit buildings		Lit floor-space ²
	Total floor-space in all buildings	Total floor-space ¹	Heated floor-space ²	Total floor-space ¹	Cooled floor-space ²	Total floor-space ¹	
All buildings	87,093	80,078	70,053	79,294	60,998	83,569	68,729
Percent of floorspace cooled							
Not cooled	7,799	3,243	2,412	N	N	4,693	3,050
1 to 50	18,891	17,856	11,850	18,891	4,594	18,742	13,872
51 to 99	22,728	22,293	19,969	22,728	18,728	22,615	18,976
100	37,676	36,685	35,822	37,676	37,676	37,519	32,830
Percent lit when open							
Zero	322	Q	Q	Q	Q	Q	Q
1 to 50	12,628	11,367	8,089	10,941	6,544	12,628	4,117
51 to 99	34,814	33,572	29,956	33,775	26,728	34,814	28,828
100	35,726	34,204	31,307	33,976	27,345	35,726	35,726
Building never open/electricity not used	3,603	879	663	527	348	371	54
Percent lit during off hours							
Zero	24,746	22,494	18,815	21,297	14,887	23,500	18,364
1 to 50	50,753	48,596	43,030	48,966	38,315	50,753	41,824
51 to 100	6,926	6,646	6,171	6,731	5,820	6,926	6,559
Building always open with no "off hours"	2,443	2,317	2,027	2,300	1,976	2,390	1,983
Electricity not used	2,225	Q	Q	N	N	N	N
Heating equipment (more than one may apply)							
Heat pumps	11,846	11,846	10,407	11,772	9,787	11,809	9,988
Furnaces	8,654	8,654	7,574	8,514	6,322	8,604	6,985
Individual space heaters	20,766	20,766	17,801	19,159	13,559	20,603	17,077
District heat	5,925	5,925	5,730	5,864	5,218	5,835	5,037
Boilers	22,443	22,443	21,120	21,579	17,526	22,345	19,100
Packaged heating units	49,188	49,188	42,497	48,053	36,910	48,826	40,785
Other	1,574	1,574	1,455	1,534	1,215	1,570	1,347
Cooling equipment (more than one may apply)							
Residential-type central air conditioners	14,765	14,158	11,835	14,765	10,208	14,692	11,724
Heat pumps	12,538	12,464	11,060	12,538	10,373	12,523	10,613
Individual air conditioners	12,420	11,953	10,513	12,420	8,388	12,374	10,017
District chilled water	4,608	4,561	4,420	4,608	4,282	4,545	3,952
Central chillers	17,041	16,685	15,564	17,041	15,355	16,996	15,049
Packaged air conditioning units	45,153	43,820	38,689	45,153	34,709	44,954	37,867
Swamp coolers	1,918	1,879	1,480	1,918	1,343	1,918	1,672
Other	328	328	295	328	283	328	270
Main equipment replaced since 1990 (more than one may apply)							
Heating	27,558	27,558	23,851	26,409	19,975	27,408	22,463
Cooling	30,702	29,713	26,069	30,702	23,066	30,629	25,048

Table B37. Heated, cooled, and lit buildings, floorspace, 2012

Total floorspace (million square feet)

	Heated buildings		Cooled buildings		Lit buildings		
	Total floor-space in all buildings	Total floor-space ¹	Heated floor-space ²	Total floor-space ¹	Cooled floor-space ²	Total floor-space ¹	Lit floor-space ²
All buildings	87,093	80,078	70,053	79,294	60,998	83,569	68,729
Lighting equipment types (more than one may apply)							
Incandescent	38,406	37,292	33,783	37,119	30,223	38,406	32,035
Standard fluorescent	80,081	76,646	67,156	76,125	58,320	80,081	66,088
Compact fluorescent	53,816	52,287	47,539	52,285	43,263	53,816	45,420
High-intensity discharge (HID)	23,396	22,631	20,379	22,734	18,074	23,396	20,039
Halogen	28,059	27,225	24,188	27,618	22,581	28,059	23,727
LED	22,071	21,503	19,789	21,869	19,043	22,071	18,934
Other	446	446	425	446	399	446	411
HVAC conservation features (more than one may apply)							
Economizer cycle	30,749	30,454	28,477	30,749	26,258	30,701	26,912
Regular HVAC maintenance	69,244	67,518	60,452	67,839	53,994	68,962	58,459
Building automation system (BAS) ⁴	37,051	36,511	34,076	36,692	32,185	36,901	32,428
Window and interior lighting features (more than one may apply)							
Multipaned windows	60,362	58,245	52,455	57,518	45,595	59,205	49,654
Tinted window glass	45,025	42,793	37,690	43,491	34,652	44,068	37,216
Reflective window glass	15,908	15,400	13,691	15,527	12,738	15,759	13,298
External overhangs or awnings	32,188	30,924	27,484	31,133	25,021	31,869	26,800
Skylights or atriums	22,261	21,202	18,304	21,448	16,210	21,902	18,386
Light scheduling	30,263	29,204	26,385	29,761	24,861	30,263	26,079
Occupancy sensors	35,871	34,823	31,608	35,098	28,425	35,871	30,532
Multi-level lighting or dimming	14,534	14,097	12,860	14,318	12,501	14,534	12,338
Daylight harvesting	6,114	5,960	5,467	5,936	5,019	6,114	5,231
Demand responsive lighting	4,738	4,579	3,887	4,598	3,629	4,738	3,884
Building automation system (BAS) for lighting ⁴	12,068	11,783	10,834	11,995	10,613	12,068	10,746
Equipment usage reduced when building not in full use (more than one may apply)							
Heating	63,167	63,167	55,499	61,087	47,343	62,669	52,102
Cooling	62,516	60,904	53,675	62,516	48,459	62,156	51,809
Lighting	78,594	74,955	65,699	74,511	57,207	78,594	65,361

Table B37. Heated, cooled, and lit buildings, floorspace, 2012

Total floorspace (million square feet)

	Heated buildings		Cooled buildings		Lit buildings		
	Total floor-space in all buildings	Total floor-space ¹	Heated floor-space ²	Total floor-space ¹	Cooled floor-space ²	Total floor-space ¹	Lit floor-space ²
All buildings	87,093	80,078	70,053	79,294	60,998	83,569	68,729

¹Total floorspace refers to all floorspace in heated, cooled, or lit buildings, respectively, including the floorspace that was not heated cooled, or lit.

²Heated 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.

³These climate regions were created by the Building America program, sponsored by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE).

⁴In earlier CBECS publications, BAS was referred to as *Energy Management and Control System (EMCS)*.

Q = Data withheld either because the Relative Standard Error (RSE) was greater than 50 percent or fewer than 20 buildings were sampled.

N = No cases in reporting sample.

Notes: • Because of rounding, data may not sum to totals. • See *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definition of terms used in these tables and/or comparison of differences with prior CBECS tables. Both references can be accessed from <http://www.eia.gov/consumption/commercial/data/2012/>

Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-871A of the 2012 Commercial Buildings Energy Consumption Survey.