

Release date: April 2015

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Table B34. Percent of floorspace heated, number of buildings and floorspace, 2012

	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	5,557	835	697	727	3,298	87,093	7,015	10,130	14,650	55,298
Building floorspace (square feet)										
1,001 to 5,000	2,777	520	301	299	1,657	8,041	1,342	951	914	4,833
5,001 to 10,000	1,229	183	186	184	676	8,900	1,310	1,387	1,338	4,866
10,001 to 25,000	884	86	143	135	520	14,105	1,360	2,365	2,048	8,332
25,001 to 50,000	332	28	36	47	221	11,917	1,007	1,292	1,657	7,962
50,001 to 100,000	199	12	19	36	133	13,918	804	1,359	2,469	9,287
100,001 to 200,000	90	4	8	16	63	12,415	474	1,146	2,163	8,632
200,001 to 500,000	38	Q	4	8	24	10,724	Q	1,131	2,202	7,015
Over 500,000	8	Q	1	2	5	7,074	Q	500	1,859	4,371
Principal building activity										
Education	389	Q	Q	56	314	12,239	Q	Q	1,699	10,178
Food sales	177	Q	Q	46	105	1,252	Q	Q	405	743
Food service	380	Q	37	63	260	1,819	Q	185	368	1,209
Health care	157	Q	Q	13	129	4,155	Q	Q	435	3,564
Inpatient	10	Q	Q	1	8	2,374	Q	Q	269	2,069
Outpatient	147	Q	Q	12	121	1,781	Q	Q	166	1,495
Lodging	158	Q	Q	15	128	5,826	Q	Q	938	4,572
Mercantile	602	30	73	138	361	11,330	536	914	3,302	6,577
Retail (other than mall)	438	27	60	82	270	5,439	351	439	1,236	3,412
Enclosed and strip malls	164	Q	13	57	91	5,890	Q	475	2,066	3,165
Office	1,012	23	73	165	750	15,952	198	758	3,558	11,437
Public assembly	352	22	35	51	244	5,559	236	544	996	3,783
Public order and safety	84	Q	Q	Q	66	1,440	Q	Q	Q	1,200
Religious worship	412	Q	35	43	330	4,557	Q	496	710	3,305
Service	619	90	109	86	334	4,630	474	767	747	2,643
Warehouse and storage	796	375	224	28	168	13,077	3,091	4,737	843	4,407
Other	125	Q	30	Q	61	2,002	Q	408	Q	1,038
Vacant	296	209	33	Q	48	3,256	1,841	639	Q	642
Year constructed										
Before 1920	362	39	65	70	187	3,983	400	705	777	2,101
1920 to 1945	488	75	42	74	296	6,025	498	507	1,314	3,706
1946 to 1959	599	83	81	85	350	7,381	486	927	1,358	4,610
1960 to 1969	639	80	74	82	403	10,362	633	1,094	1,407	7,228
1970 to 1979	684	85	101	76	421	10,846	800	1,378	1,474	7,193
1980 to 1989	915	161	134	121	500	15,230	1,507	2,091	2,991	8,641
1990 to 1999	845	170	101	94	480	13,803	1,414	1,417	2,487	8,485
2000 to 2003	375	53	38	47	237	7,215	508	741	1,164	4,803
2004 to 2007	347	56	31	40	220	6,524	552	722	1,013	4,237
2008 to 2012	303	33	30	37	203	5,723	218	547	664	4,294

Table B34. Percent of floorspace heated, number of buildings and floorspace, 2012

	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	5,557	835	697	727	3,298	87,093	7,015	10,130	14,650	55,298
Census region and division										
Northeast	805	79	86	137	503	15,534	481	1,132	2,873	11,049
New England	302	38	32	53	179	4,302	212	Q	805	2,910
Middle Atlantic	504	41	55	84	324	11,232	269	757	2,068	8,138
Midwest	1,237	141	103	137	856	18,919	864	1,310	2,239	14,506
East North Central	735	65	56	76	538	12,742	502	734	1,545	9,961
West North Central	502	76	47	61	318	6,178	362	576	694	4,545
South	2,247	405	297	267	1,278	34,279	3,781	3,979	6,218	20,302
South Atlantic	1,091	218	137	127	610	17,981	2,098	2,193	3,098	10,592
East South Central	370	34	40	44	252	4,904	212	469	1,236	2,987
West South Central	786	153	121	96	416	11,394	1,471	1,317	1,883	6,724
West	1,267	210	211	185	661	18,360	1,890	3,709	3,320	9,441
Mountain	338	45	32	32	230	4,981	277	592	658	3,453
Pacific	929	165	179	153	432	13,379	1,612	3,117	2,662	5,988
Climate region¹										
Very cold/Cold	2,031	239	193	239	1,360	31,898	1,430	2,315	4,050	24,104
Mixed-humid	1,743	199	188	231	1,125	27,873	1,157	2,485	5,425	18,806
Mixed-dry/Hot-dry	837	161	185	139	352	12,037	1,553	3,165	2,434	4,885
Hot-humid	799	205	114	92	387	12,831	2,741	1,752	2,146	6,193
Marine	147	Q	18	Q	73	2,454	Q	414	595	1,310
Number of floors										
One	3,836	723	489	418	2,206	39,809	5,296	5,882	5,845	22,786
Two	1,158	86	151	170	750	20,206	795	2,788	2,862	13,761
Three	374	Q	42	93	220	8,140	Q	583	1,500	5,812
Four to nine	177	6	15	42	114	13,535	543	690	2,606	9,697
Ten or more	13	Q	Q	4	8	5,404	Q	Q	1,836	3,242
Number of workers (main shift)										
Fewer than 5	2,892	708	366	331	1,487	17,751	4,820	2,527	1,904	8,500
5 to 9	1,085	65	165	153	702	8,973	481	2,012	1,369	5,111
10 to 19	731	39	92	107	493	9,623	652	1,543	1,323	6,104
20 to 49	513	19	57	74	362	14,514	389	1,988	2,561	9,576
50 to 99	206	Q	10	41	152	13,476	Q	968	2,870	9,345
100 to 249	93	Q	5	14	74	10,941	Q	648	1,721	8,436
250 or more	37	Q	1	7	29	11,815	Q	444	2,900	8,226
Weekly operating hours										
Fewer than 40	1,149	334	131	94	590	8,220	2,457	908	651	4,205
40 to 48	1,346	116	225	178	827	15,828	961	2,656	2,655	9,556
49 to 60	1,244	100	169	167	807	20,529	1,164	2,753	2,894	13,718
61 to 84	764	92	98	136	438	15,867	719	1,751	3,556	9,841
85 to 167	479	65	35	91	288	9,395	684	874	1,843	5,994
Open continuously	575	128	38	61	349	17,253	1,030	1,188	3,052	11,983

Table B34. Percent of floorspace heated, number of buildings and floorspace, 2012

	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	5,557	835	697	727	3,298	87,093	7,015	10,130	14,650	55,298
Energy sources (more than one may apply)										
Electricity	5,234	517	696	725	3,297	84,869	4,816	10,114	14,645	55,293
Natural gas	2,933	45	322	465	2,101	58,725	597	5,716	11,147	41,265
Fuel oil	467	12	65	58	332	20,200	530	2,005	3,815	13,849
District heat	48	Q	Q	7	40	5,964	Q	Q	1,126	4,720
District chilled water	54	Q	Q	9	41	4,608	Q	Q	596	3,855
Propane	510	19	91	70	330	7,706	374	1,463	1,135	4,734
Other	172	N	20	37	115	3,826	N	340	926	2,559
Space-heating energy sources (more than one may apply)										
Electricity	2,858	N	484	463	1,911	49,030	N	6,797	9,640	32,593
Natural gas	2,612	N	285	420	1,907	49,511	N	4,940	9,298	35,274
Fuel oil	270	N	47	36	187	4,351	N	751	606	2,994
District heat	48	N	Q	7	40	5,925	N	Q	1,126	4,683
Propane	342	N	59	55	228	3,067	N	490	659	1,918
Other	101	N	Q	Q	66	1,010	N	Q	Q	737
Primary space-heating energy source										
Electricity	1,819	N	369	275	1,175	26,205	N	5,013	4,903	16,289
Natural gas	2,322	N	244	370	1,709	42,988	N	4,123	7,919	30,946
Fuel oil	205	N	31	28	146	2,542	N	Q	319	1,767
District heat	47	N	Q	7	40	5,797	N	Q	1,067	4,614
Propane	261	N	45	33	183	1,948	N	370	318	1,259
Other	67	N	Q	Q	46	598	N	Q	Q	422
Energy end uses (more than one may apply)										
Buildings with space heating	4,722	N	697	727	3,298	80,078	N	10,130	14,650	55,298
Buildings with cooling	4,461	189	584	676	3,012	79,294	2,459	9,164	14,438	53,232
Buildings with water heating	4,423	186	549	653	3,034	79,015	2,432	8,908	13,930	53,746
Buildings with cooking	1,589	64	134	244	1,146	38,546	775	2,020	8,040	27,711
Buildings with manufacturing	259	Q	73	40	121	5,078	Q	1,247	1,037	2,506
Buildings with electricity generation	410	Q	35	56	308	25,642	487	1,696	4,679	18,779
Percent of floorspace cooled										
Not cooled	1,096	646	113	51	286	7,799	4,556	966	212	2,066
1 to 50	1,173	75	496	131	471	18,891	1,034	7,528	1,893	8,435
51 to 99	897	22	40	482	353	22,728	434	779	11,180	10,334
100	2,391	92	48	63	2,188	37,676	991	857	1,365	34,463
Percent lit when open										
Zero	70	63	Q	N	Q	322	266	Q	N	Q
1 to 50	1,099	136	325	138	500	12,628	1,261	4,056	1,618	5,693
51 to 99	1,666	78	144	405	1,039	34,814	1,242	2,861	9,145	21,566
100	2,222	163	197	169	1,692	35,726	1,522	2,939	3,807	27,458
Building never open/electricity not used	501	395	28	Q	63	3,603	2,724	253	Q	547

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All buildings	5,557	835	697	727	3,298	87,093	7,015	10,130	14,650	55,298
Heating equipment (more than one may apply)										
Heat pumps	628	N	81	99	448	11,846	N	1,390	2,531	7,925
Furnaces	755	N	76	104	575	8,654	N	931	1,628	6,095
Individual space heaters	1,247	N	233	210	805	20,766	N	2,964	4,499	13,303
District heat	48	N	Q	7	40	5,925	N	Q	1,126	4,683
Boilers	544	N	34	102	407	22,443	N	1,016	4,532	16,895
Packaged heating units	2,802	N	381	456	1,965	49,188	N	6,769	9,295	33,125
Other	62	N	Q	13	39	1,574	N	Q	550	980
HVAC conservation features (more than one may apply)										
Economizer cycle	601	12	39	110	440	30,749	295	1,555	6,253	22,646
Regular HVAC maintenance	3,178	99	354	496	2,228	69,244	1,727	6,828	12,492	48,197
Building automation system (BAS) ²	781	13	58	139	570	37,051	540	1,910	7,654	26,946
Equipment usage reduced when building not in full use (more than one may apply)										
Heating	3,699	N	533	597	2,568	63,167	N	7,577	12,590	43,000
Cooling	3,517	125	469	553	2,369	62,516	1,613	7,094	12,241	41,568
Lighting	4,757	350	640	684	3,082	78,594	3,639	9,381	13,524	52,050

¹These 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).

²In 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.

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Table B35. Percent of floorspace cooled, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
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All buildings	5,557	1,096	1,173	897	2,391	87,093	7,799	18,891	22,728	37,676
Building floorspace (square feet)										
1,001 to 5,000	2,777	716	465	310	1,286	8,041	1,917	1,430	935	3,759
5,001 to 10,000	1,229	225	308	236	459	8,900	1,596	2,249	1,738	3,316
10,001 to 25,000	884	110	248	173	352	14,105	1,747	3,943	2,766	5,648
25,001 to 50,000	332	30	89	76	137	11,917	1,105	3,123	2,679	5,011
50,001 to 100,000	199	13	36	58	92	13,918	849	2,489	4,077	6,503
100,001 to 200,000	90	Q	17	25	46	12,415	Q	2,432	3,496	6,225
200,001 to 500,000	38	Q	8	15	15	10,724	Q	2,150	4,007	4,360
Over 500,000	8	Q	1	3	3	7,074	Q	1,076	3,029	2,853
Principal building activity										
Education	389	28	42	73	246	12,239	428	1,810	3,532	6,469
Food sales	177	Q	Q	46	99	1,252	Q	Q	576	502
Food service	380	Q	41	85	233	1,819	Q	184	449	1,080
Health care	157	Q	Q	31	114	4,155	Q	Q	1,021	3,020
Inpatient	10	N	Q	2	7	2,374	N	Q	682	1,664
Outpatient	147	Q	Q	29	107	1,781	Q	Q	339	1,356
Lodging	158	Q	11	37	97	5,826	Q	377	1,764	3,559
Mercantile	602	42	129	154	278	11,330	209	1,480	4,324	5,317
Retail (other than mall)	438	42	110	87	198	5,439	209	888	1,518	2,824
Enclosed and strip malls	164	N	18	67	79	5,890	N	592	2,805	2,493
Office	1,012	Q	136	237	622	15,952	Q	1,305	5,750	8,828
Public assembly	352	57	56	69	170	5,559	324	981	1,589	2,665
Public order and safety	84	Q	32	16	26	1,440	Q	290	615	479
Religious worship	412	36	45	64	266	4,557	286	633	1,024	2,614
Service	619	183	293	38	104	4,630	857	2,446	514	813
Warehouse and storage	796	405	290	29	72	13,077	2,958	7,911	722	1,487
Other	125	Q	41	13	36	2,002	Q	654	605	562
Vacant	296	233	29	Q	28	3,256	2,130	600	Q	281
Year constructed										
Before 1920	362	87	100	77	98	3,983	896	1,161	1,110	816
1920 to 1945	488	121	99	84	184	6,025	810	1,402	1,752	2,061
1946 to 1959	599	122	141	93	243	7,381	702	1,748	2,287	2,644
1960 to 1969	639	100	136	106	297	10,362	728	2,711	2,731	4,193
1970 to 1979	684	121	148	109	306	10,846	815	2,400	2,665	4,966
1980 to 1989	915	185	203	130	397	15,230	1,220	3,285	3,805	6,921
1990 to 1999	845	182	157	128	378	13,803	1,401	2,445	4,184	5,774
2000 to 2003	375	55	78	63	179	7,215	276	1,494	1,742	3,703
2004 to 2007	347	54	60	61	172	6,524	453	1,220	1,403	3,448
2008 to 2012	303	68	51	46	137	5,723	498	1,026	1,050	3,150

Table B35. Percent of floorspace cooled, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	All buildings	Not cooled	1 to 50 percent cooled	51 to 99 percent cooled	100 percent cooled	All buildings	Not cooled	1 to 50 percent cooled	51 to 99 percent cooled	100 percent cooled
All buildings	5,557	1,096	1,173	897	2,391	87,093	7,799	18,891	22,728	37,676
Census region and division										
Northeast	805	213	196	156	240	15,534	1,585	3,558	5,081	5,311
New England	302	115	57	57	72	4,302	819	1,019	1,323	1,141
Middle Atlantic	504	99	139	99	168	11,232	765	2,539	3,758	4,170
Midwest	1,237	267	281	177	512	18,919	1,776	4,741	4,697	7,706
East North Central	735	134	174	112	314	12,742	1,067	3,289	3,408	4,977
West North Central	502	133	107	65	197	6,178	709	1,451	1,289	2,728
South	2,247	355	422	330	1,139	34,279	2,545	6,189	8,462	17,083
South Atlantic	1,091	156	198	171	567	17,981	887	3,237	4,695	9,162
East South Central	370	35	62	60	213	4,904	194	969	1,642	2,098
West South Central	786	164	163	99	359	11,394	1,464	1,982	2,126	5,823
West	1,267	260	273	234	500	18,360	1,894	4,403	4,487	7,576
Mountain	338	79	54	35	171	4,981	492	828	1,054	2,608
Pacific	929	181	220	199	329	13,379	1,402	3,576	3,434	4,968
Climate region¹										
Very cold/Cold	2,031	533	454	316	727	31,898	3,670	7,561	8,314	12,354
Mixed-humid	1,743	262	344	282	856	27,873	1,508	5,220	8,333	12,812
Mixed-dry/Hot-dry	837	155	Q	160	309	12,037	1,150	3,505	2,734	4,648
Hot-humid	799	100	144	105	450	12,831	1,208	2,191	2,562	6,871
Marine	147	Q	17	Q	49	2,454	263	415	785	990
Number of floors										
One	3,836	882	782	482	1,690	39,809	5,653	10,371	7,750	16,035
Two	1,158	164	275	227	492	20,206	1,194	5,511	4,834	8,666
Three	374	36	85	121	132	8,140	405	1,378	2,590	3,766
Four to nine	177	14	30	61	72	13,535	499	1,426	4,713	6,896
Ten or more	13	Q	Q	6	5	5,404	Q	Q	2,840	2,313
Number of workers (main shift)										
Fewer than 5	2,892	960	593	321	1,018	17,751	6,156	4,108	2,234	5,253
5 to 9	1,085	86	254	169	576	8,973	735	2,862	1,525	3,851
10 to 19	731	32	175	174	351	9,623	433	3,207	2,227	3,757
20 to 49	513	15	112	130	256	14,514	295	3,724	3,822	6,674
50 to 99	206	Q	26	64	114	13,476	Q	2,240	4,519	6,565
100 to 249	93	Q	12	27	54	10,941	Q	1,977	3,543	5,394
250 or more	37	N	2	12	23	11,815	N	775	4,858	6,182
Weekly operating hours										
Fewer than 40	1,149	459	158	103	429	8,220	3,137	1,284	972	2,827
40 to 48	1,346	178	364	223	582	15,828	1,316	4,369	4,097	6,046
49 to 60	1,244	160	351	189	544	20,529	1,233	5,952	4,373	8,972
61 to 84	764	95	162	176	332	15,867	697	3,508	4,967	6,695
85 to 167	479	60	70	103	245	9,395	530	1,874	2,759	4,231
Open continuously	575	144	68	104	259	17,253	886	1,903	5,560	8,904

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	Number of buildings (thousand)					Total floorspace (million square feet)				
	All buildings	Not cooled	1 to 50 percent cooled	51 to 99 percent cooled	100 percent cooled	All buildings	Not cooled	1 to 50 percent cooled	51 to 99 percent cooled	100 percent cooled
All buildings	5,557	1,096	1,173	897	2,391	87,093	7,799	18,891	22,728	37,676
Energy sources (more than one may apply)										
Electricity	5,234	773	1,173	897	2,391	84,869	5,575	18,891	22,728	37,676
Natural gas	2,933	233	697	592	1,411	58,725	1,826	13,031	17,106	26,762
Fuel oil	467	106	110	82	169	20,200	891	3,199	7,075	9,035
District heat	48	Q	4	17	22	5,964	Q	340	2,717	2,845
District chilled water	54	N	Q	18	36	4,608	N	Q	1,953	2,569
Propane	510	90	164	75	181	7,706	645	2,747	1,669	2,646
Other	172	46	53	26	47	3,826	253	1,204	1,245	1,123
Cooling energy sources (more than one may apply)										
Electricity	4,413	N	1,172	885	2,355	76,034	N	18,815	21,607	35,612
Natural gas	12	N	Q	1	9	732	N	Q	166	415
District chilled water	54	N	Q	18	36	4,608	N	Q	1,953	2,569
Energy end uses (more than one may apply)										
Buildings with space heating	4,722	451	1,098	875	2,299	80,078	3,243	17,856	22,293	36,685
Buildings with cooling	4,461	N	1,173	897	2,391	79,294	N	18,891	22,728	37,676
Buildings with water heating	4,423	326	1,028	835	2,235	79,015	2,601	17,607	21,965	36,842
Buildings with cooking	1,589	92	267	344	886	38,546	859	4,886	13,152	19,650
Buildings with manufacturing	259	41	113	37	68	5,078	396	2,390	1,122	1,170
Buildings with electricity generation	410	25	81	96	208	25,642	292	3,441	9,057	12,852
Percent of floorspace heated										
Not heated	835	646	75	22	92	7,015	4,556	1,034	434	991
1 to 50	697	113	496	40	48	10,130	966	7,528	779	857
51 to 99	727	51	131	482	63	14,650	212	1,893	11,180	1,365
100	3,298	286	471	353	2,188	55,298	2,066	8,435	10,334	34,463
Percent lit when open										
Zero	70	63	Q	N	Q	322	246	Q	N	Q
1 to 50	1,099	196	451	135	316	12,628	1,688	5,274	1,921	3,746
51 to 99	1,666	111	294	517	744	34,814	1,039	6,153	14,102	13,519
100	2,222	283	405	235	1,298	35,726	1,750	7,217	6,558	20,202
Building never open/electricity not used	501	443	Q	Q	31	3,603	3,076	Q	Q	187
Cooling equipment (more than one may apply)										
Residential-type central air conditioners	1,546	N	403	312	831	14,765	N	5,109	3,376	6,280
Heat pumps	692	N	146	147	399	12,538	N	2,214	3,930	6,393
Individual air conditioners	709	N	326	123	260	12,420	N	4,303	3,662	4,455
District chilled water	54	N	Q	18	36	4,608	N	Q	1,953	2,569
Central chillers	163	N	8	58	97	17,041	N	918	7,090	9,033
Packaged air conditioning units	1,909	N	394	435	1,081	45,153	N	10,569	13,777	20,807
Swamp coolers	109	N	36	20	53	1,918	N	646	554	718
Other	Q	N	Q	Q	Q	328	N	Q	Q	Q

Table B35. Percent of floorspace cooled, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	All buildings	Not cooled	1 to 50 percent cooled	51 to 99 percent cooled	100 percent cooled	All buildings	Not cooled	1 to 50 percent cooled	51 to 99 percent cooled	100 percent cooled
All buildings	5,557	1,096	1,173	897	2,391	87,093	7,799	18,891	22,728	37,676
HVAC conservation features (more than one may apply)										
Economizer cycle	601	N	92	170	339	30,749	N	3,816	11,589	15,344
Regular HVAC maintenance	3,178	155	649	677	1,696	69,244	1,406	13,943	20,197	33,699
Building automation system (BAS) ²	781	24	112	196	448	37,051	359	3,670	12,915	20,106
Equipment usage reduced when building not in full use (more than one may apply)										
Heating	3,699	295	880	709	1,814	63,167	2,081	14,182	18,109	28,795
Cooling	3,517	N	925	711	1,881	62,516	N	14,471	18,352	29,693
Lighting	4,757	561	1,108	853	2,234	78,594	4,083	17,923	21,167	35,421

¹These 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).

²In 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.

Release date: April 2015

Revised date: May 2016

Table B36. Percent of floorspace lit when open, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	All buildings	Not lit when open ¹	1 to 50 percent lit	51 to 99 percent lit	100 percent lit	All buildings	Not lit when open ¹	1 to 50 percent lit	51 to 99 percent lit	100 percent lit
All buildings	5,557	570	1,099	1,666	2,222	87,093	3,925	12,628	34,814	35,726
Building floorspace (square feet)										
1,001 to 5,000	2,777	380	564	638	1,196	8,041	963	1,680	1,924	3,474
5,001 to 10,000	1,229	117	259	418	436	8,900	810	1,879	3,060	3,151
10,001 to 25,000	884	53	182	331	317	14,105	885	2,824	5,326	5,070
25,001 to 50,000	332	Q	54	126	141	11,917	Q	1,885	4,519	5,071
50,001 to 100,000	199	Q	29	92	72	13,918	Q	1,956	6,445	5,043
100,001 to 200,000	90	Q	8	40	41	12,415	Q	1,141	5,539	5,560
200,001 to 500,000	38	Q	3	18	16	10,724	Q	837	5,220	4,552
Over 500,000	8	Q	Q	3	4	7,074	Q	Q	2,781	3,806
Principal building activity										
Education	389	N	30	126	233	12,239	N	530	5,777	5,932
Food sales	177	N	Q	54	104	1,252	N	Q	349	815
Food service	380	N	57	104	219	1,819	N	275	596	949
Health care	157	N	Q	68	73	4,155	N	Q	1,695	2,330
Inpatient	10	N	Q	3	7	2,374	N	Q	958	1,392
Outpatient	147	N	Q	65	67	1,781	N	Q	737	938
Lodging	158	Q	51	47	60	5,826	Q	1,059	2,596	2,163
Mercantile	602	Q	73	275	251	11,330	Q	695	6,509	4,116
Retail (other than mall)	438	Q	65	120	249	5,439	Q	431	1,322	3,678
Enclosed and strip malls	164	N	Q	155	Q	5,890	N	Q	5,188	438
Office	1,012	N	227	399	386	15,952	N	1,732	6,723	7,497
Public assembly	352	Q	84	120	135	5,559	Q	728	2,699	2,093
Public order and safety	84	Q	Q	24	32	1,440	Q	Q	578	650
Religious worship	412	Q	101	146	163	4,557	Q	1,665	1,654	1,236
Service	619	Q	121	148	311	4,630	Q	813	1,240	2,304
Warehouse and storage	796	233	239	126	197	13,077	1,016	3,750	3,431	4,881
Other	125	Q	32	28	53	2,002	Q	323	900	708
Vacant	296	260	30	Q	Q	3,256	2,479	656	Q	Q
Year constructed										
Before 1920	362	47	117	112	86	3,983	335	1,278	1,529	841
1920 to 1945	488	59	120	132	178	6,025	376	884	2,193	2,572
1946 to 1959	599	78	130	183	208	7,381	321	1,351	3,215	2,494
1960 to 1969	639	42	123	217	258	10,362	329	1,266	4,594	4,174
1970 to 1979	684	60	124	232	268	10,846	539	1,313	4,445	4,549
1980 to 1989	915	88	179	249	399	15,230	563	2,222	6,151	6,294
1990 to 1999	845	115	120	223	387	13,803	1,002	1,395	4,726	6,680
2000 to 2003	375	Q	70	115	164	7,215	Q	1,008	3,399	2,683
2004 to 2007	347	Q	65	111	143	6,524	Q	1,057	2,520	2,801
2008 to 2012	303	Q	52	92	130	5,723	Q	854	2,043	2,637

Table B36. Percent of floorspace lit when open, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	All buildings	Not lit when open ¹	1 to 50 percent lit	51 to 99 percent lit	100 percent lit	All buildings	Not lit when open ¹	1 to 50 percent lit	51 to 99 percent lit	100 percent lit
All buildings	5,557	570	1,099	1,666	2,222	87,093	3,925	12,628	34,814	35,726
Census region and division										
Northeast	805	68	170	259	308	15,534	480	2,097	6,288	6,670
New England	302	Q	55	115	98	4,302	Q	677	2,099	1,286
Middle Atlantic	504	34	115	145	210	11,232	240	1,420	4,189	5,384
Midwest	1,237	136	292	382	427	18,919	851	2,870	7,932	7,266
East North Central	735	67	171	245	252	12,742	491	1,840	5,616	4,794
West North Central	502	69	121	137	175	6,178	360	1,030	2,315	2,472
South	2,247	242	379	614	1,011	34,279	1,832	4,755	13,288	14,405
South Atlantic	1,091	101	184	319	486	17,981	588	2,375	7,284	7,734
East South Central	370	28	60	80	201	4,904	Q	817	1,665	2,233
West South Central	786	112	135	215	324	11,394	1,055	1,562	4,339	4,438
West	1,267	123	258	411	476	18,360	761	2,907	7,307	7,385
Mountain	338	52	57	109	121	4,981	314	541	1,847	2,279
Pacific	929	71	201	302	355	13,379	447	2,366	5,460	5,107
Climate region²										
Very cold/Cold	2,031	230	449	642	710	31,898	1,479	4,637	13,284	12,498
Mixed-humid	1,743	169	300	494	781	27,873	846	3,702	10,873	12,453
Mixed-dry/Hot-dry	837	67	186	248	336	12,037	531	2,225	4,849	4,432
Hot-humid	799	89	134	229	347	12,831	993	1,689	4,790	5,359
Marine	147	Q	29	53	48	2,454	Q	377	1,018	984
Number of floors										
One	3,836	472	647	1,042	1,675	39,809	2,814	5,680	14,604	16,711
Two	1,158	72	301	399	386	20,206	542	3,641	7,751	8,271
Three	374	Q	110	144	99	8,140	Q	1,600	3,465	2,918
Four to nine	177	5	41	74	56	13,535	368	1,571	6,414	5,181
Ten or more	13	Q	Q	7	5	5,404	Q	Q	2,579	2,644
Number of workers (main shift)										
Fewer than 5	2,892	565	754	616	957	17,751	3,866	5,292	4,069	4,524
5 to 9	1,085	Q	201	372	508	8,973	Q	2,241	3,117	3,567
10 to 19	731	Q	83	284	364	9,623	Q	1,545	3,883	4,186
20 to 49	513	Q	45	234	233	14,514	Q	1,750	6,751	6,011
50 to 99	206	N	12	103	90	13,476	N	908	6,773	5,795
100 to 249	93	N	3	44	46	10,941	N	518	5,492	4,932
250 or more	37	N	1	13	23	11,815	N	375	4,729	6,711
Weekly operating hours										
Fewer than 40	1,149	389	216	223	321	8,220	3,077	1,436	1,745	1,962
40 to 48	1,346	Q	352	435	528	15,828	Q	3,438	6,579	5,676
49 to 60	1,244	Q	217	419	587	20,529	Q	2,849	7,798	9,754
61 to 84	764	Q	102	292	337	15,867	Q	1,643	8,185	5,927
85 to 167	479	Q	60	158	239	9,395	Q	928	3,748	4,656
Open continuously	575	77	151	138	209	17,253	409	2,335	6,758	7,752

Table B36. Percent of floorspace lit when open, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	All buildings	Not lit when open ¹	1 to 50 percent lit	51 to 99 percent lit	100 percent lit	All buildings	Not lit when open ¹	1 to 50 percent lit	51 to 99 percent lit	100 percent lit
All buildings	5,557	570	1,099	1,666	2,222	87,093	3,925	12,628	34,814	35,726
Energy sources (more than one may apply)										
Electricity	5,234	247	1,099	1,666	2,222	84,869	1,700	12,628	34,814	35,726
Natural gas	2,933	55	562	1,051	1,265	58,725	581	7,333	25,435	25,376
Fuel oil	467	Q	93	155	208	20,200	Q	1,820	8,903	9,351
District heat	48	Q	8	18	21	5,964	Q	489	2,799	2,567
District chilled water	54	Q	Q	21	24	4,608	Q	Q	2,214	1,976
Propane	510	Q	112	155	224	7,706	Q	1,231	2,997	3,410
Other	172	Q	45	53	69	3,826	Q	487	1,608	1,689
Energy end uses (more than one may apply)										
Buildings with space heating	4,722	112	963	1,588	2,059	80,078	935	11,367	33,572	34,204
Buildings with cooling	4,461	64	902	1,556	1,939	79,294	602	10,941	33,775	33,976
Buildings with water heating	4,423	57	900	1,538	1,927	79,015	602	10,877	33,513	34,023
Buildings with cooking	1,589	Q	311	567	687	38,546	Q	3,696	17,766	16,991
Buildings with manufacturing	259	Q	63	84	106	5,078	Q	870	2,038	2,137
Buildings with electricity generation	410	Q	65	157	183	25,642	Q	1,811	11,756	12,007
Percent of floorspace heated										
Not heated	835	458	136	78	163	7,015	2,990	1,261	1,242	1,522
1 to 50	697	31	325	144	197	10,130	274	4,056	2,861	2,939
51 to 99	727	Q	138	405	169	14,650	Q	1,618	9,145	3,807
100	3,298	67	500	1,039	1,692	55,298	581	5,693	21,566	27,458
Percent of floorspace cooled										
Not cooled	1,096	506	196	111	283	7,799	3,323	1,688	1,039	1,750
1 to 50	1,173	Q	451	294	405	18,891	Q	5,274	6,153	7,217
51 to 99	897	Q	135	517	235	22,728	Q	1,921	14,102	6,558
100	2,391	32	316	744	1,298	37,676	208	3,746	13,519	20,202
Percent lit during off hours										
Zero	2,489	193	620	610	1,066	24,746	1,246	5,450	6,900	11,150
1 to 50	2,441	38	449	980	973	50,753	394	6,702	24,449	19,207
51 to 100	202	Q	Q	57	141	6,926	Q	Q	2,942	3,908
Building always open with no "off hours"	102	Q	26	19	41	2,443	Q	406	523	1,461
Electricity not used	323	323	N	N	N	2,225	2,225	N	N	N
Lighting equipment types (more than one may apply)										
Incandescent	1,826	Q	391	724	699	38,406	Q	4,867	19,106	14,283
Standard fluorescent	4,649	30	985	1,570	2,065	80,081	335	11,798	33,816	34,132
Compact fluorescent	2,302	Q	478	920	895	53,816	Q	6,202	25,376	22,087
High-intensity discharge (HID)	525	Q	78	227	220	23,396	Q	2,418	11,003	9,929
Halogen	905	Q	165	413	326	28,059	Q	2,884	15,045	10,084
LED	473	Q	76	222	174	22,071	Q	1,937	11,847	8,278
Other	10	N	Q	Q	Q	446	N	Q	Q	Q

Table B36. Percent of floorspace lit when open, number of buildings and floorspace, 2012

	Number of buildings (thousand)					Total floorspace (million square feet)				
	All buildings	Not lit when open ¹	1 to 50 percent lit	51 to 99 percent lit	100 percent lit	All buildings	Not lit when open ¹	1 to 50 percent lit	51 to 99 percent lit	100 percent lit
All buildings	5,557	570	1,099	1,666	2,222	87,093	3,925	12,628	34,814	35,726
Window and interior lighting features (more than one may apply)										
Multipaned windows	3,012	127	561	1,069	1,255	60,362	1,330	7,447	26,198	25,386
Tinted window glass	1,875	61	310	708	796	45,025	1,101	5,092	20,167	18,666
Reflective window glass	549	Q	102	214	223	15,908	Q	1,736	7,595	6,406
External overhangs or awnings	1,867	58	326	742	741	32,188	412	3,938	15,506	12,332
Skylights or atriums	591	19	113	258	202	22,261	451	2,214	11,195	8,401
Light scheduling	918	Q	136	417	361	30,263	Q	2,559	15,354	12,299
Occupancy sensors	813	Q	107	400	303	35,871	Q	3,557	17,580	14,648
Multi-level lighting or dimming	349	Q	67	173	109	14,534	Q	1,336	7,825	5,349
Daylight harvesting	125	Q	22	52	49	6,114	Q	614	2,961	2,524
Demand responsive lighting	176	N	49	80	47	4,738	N	656	2,791	1,291
Building automation system (BAS) for lighting ³	208	Q	11	106	90	12,068	Q	542	6,670	4,832
Equipment usage reduced when building not in full use (more than one may apply)										
Heating	3,699	68	743	1,300	1,588	63,167	679	8,662	27,700	26,127
Cooling	3,517	48	693	1,284	1,491	62,516	498	8,345	27,927	25,746
Lighting	4,757	N	995	1,631	2,131	78,594	N	11,135	33,897	33,563

¹Not lit when open includes buildings that were zero percent lit when open, buildings that were never open, and buildings that did not use any electricity. Some buildings that were never open, such as vacant buildings, still used some lighting.

²These 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).

³In 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.

Release date: April 2015

Revised date: May 2016

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)

	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
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		
	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
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)							
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

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.