

Release date: September 2021

Revised date: December 2022

**Table B5. Census region and division, floorspace, 2018**

	Total floorspace (million square feet)									
	Northeast			Midwest		South			West	
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All buildings</b>	96,423	3,749	12,202	17,561	8,372	17,923	5,404	11,580	7,680	11,952
<b>Building floorspace (square feet)</b>										
1,001 to 5,000	8,025	473	653	1,552	716	1,506	455	1,018	580	1,070
5,001 to 10,000	10,204	449	704	1,853	1,168	1,431	688	1,423	962	1,525
10,001 to 25,000	15,838	782	1,589	2,802	1,667	2,760	883	2,014	1,355	1,987
25,001 to 50,000	13,957	505	1,635	2,830	1,234	2,393	651	1,673	1,099	1,937
50,001 to 100,000	15,302	518	1,677	2,657	1,285	3,245	875	2,193	1,223	1,630
100,001 to 200,000	13,003	538	2,121	1,742	1,016	2,643	1,022	1,333	1,158	1,428
200,001 to 500,000	11,776	341	2,056	2,451	611	2,389	550	1,265	632	1,483
Over 500,000	8,317	Q	1,766	1,673	674	1,557	Q	662	Q	892
<b>Principal building activity</b>										
Education	13,623	621	1,924	2,435	1,402	2,345	822	1,800	895	1,379
Food sales	1,006	Q	Q	281	Q	Q	Q	Q	Q	Q
Food service	1,385	Q	Q	216	Q	261	Q	193	210	194
Health care	4,018	194	585	838	238	580	238	355	404	586
Inpatient	2,259	Q	276	583	Q	366	Q	237	Q	302
Outpatient	1,760	Q	308	255	Q	214	Q	Q	243	284
Lodging	6,976	322	884	1,072	589	1,300	323	756	827	902
Mercantile	10,781	Q	1,044	1,756	869	2,159	706	1,598	1,125	1,174
Retail (other than mall)	5,193	Q	376	900	582	998	493	671	563	380
Enclosed and strip malls	5,588	Q	669	856	Q	1,161	Q	927	562	795
Office	16,662	454	2,741	2,943	1,393	3,253	545	1,905	1,358	2,069
Public assembly	7,192	424	682	1,384	506	1,655	Q	893	570	915
Public order and safety	1,538	Q	Q	Q	Q	Q	Q	Q	Q	162
Religious worship	5,471	Q	510	963	482	1,322	628	619	Q	530
Service	6,240	323	944	1,312	911	755	310	619	462	605
Warehouse and storage	17,483	469	1,929	3,402	1,312	3,034	1,250	2,080	1,049	2,958
Other	2,435	Q	465	403	Q	534	Q	Q	Q	Q
Vacant	1,612	Q	Q	313	Q	371	Q	Q	Q	Q
<b>Year constructed</b>										
Before 1920	3,600	360	925	924	Q	487	Q	Q	Q	Q
1920 to 1945	5,646	259	1,330	1,464	451	648	Q	451	224	667
1946 to 1959	6,937	Q	1,324	979	735	1,344	444	632	452	812
1960 to 1969	10,360	406	1,639	2,119	687	1,902	755	1,101	450	1,302
1970 to 1979	13,061	426	1,837	2,601	1,288	2,097	751	1,394	1,073	1,593
1980 to 1989	13,465	646	1,369	1,642	1,291	2,751	592	1,901	1,290	1,982
1990 to 1999	15,535	533	1,415	2,614	1,495	3,429	776	1,953	1,287	2,033
2000 to 2009	17,500	713	1,394	3,329	1,517	3,444	1,279	2,326	1,597	1,901
2010 to 2018	10,319	Q	969	1,889	720	1,821	528	1,646	1,050	1,507

**Table B5. Census region and division, floorspace, 2018**

**Total floorspace (million square feet)**

	Northeast		Midwest		South		West			
	All buildings	New England	Middle Atlantic	East	West	South Atlantic	East	West	Mountain	Pacific
				North Central	North Central		South Central	South Central		
<b>All buildings</b>	96,423	3,749	12,202	17,561	8,372	17,923	5,404	11,580	7,680	11,952
<b>Climate zone<sup>a</sup></b>										
Cold or very cold	7,044	884	Q	2,239	2,576	N	N	N	Q	Q
Cool	26,768	2,554	4,430	11,962	3,214	N	N	N	3,269	1,339
Mixed mild	25,096	Q	7,556	3,360	2,582	5,125	Q	Q	Q	2,346
Warm	25,085	N	N	N	N	9,043	4,484	3,834	Q	6,958
Hot or very hot	12,429	N	N	N	N	3,755	Q	6,080	1,614	Q
<b>Number of floors</b>										
1	43,576	1,099	3,379	7,787	3,863	7,812	3,018	6,853	3,890	5,875
2	23,300	894	3,107	4,592	2,337	4,193	1,222	2,406	1,696	2,853
3	10,516	809	1,599	2,303	1,202	1,847	525	817	592	822
4 to 9	13,031	785	2,528	1,906	743	2,825	461	1,141	813	1,830
10 or more	6,000	162	1,589	973	226	1,247	178	362	Q	573
<b>Elevators and escalators (more than one may apply)</b>										
Any elevators	36,501	1,655	6,547	6,663	2,714	7,290	1,360	3,388	2,877	4,007
1 elevators	14,215	790	2,318	2,931	1,131	2,804	602	1,253	1,069	1,315
2 to 5 elevators	13,316	606	2,402	2,191	1,135	2,490	488	1,477	1,006	1,521
6 or more elevators	8,970	258	1,827	1,540	448	1,996	270	658	Q	1,172
Any escalators	3,753	Q	826	502	Q	875	Q	351	Q	286
<b>Number of workers (main shift)</b>										
Fewer than 5	21,065	928	2,131	4,234	2,035	3,561	1,537	2,578	1,452	2,608
5 to 9	10,323	498	824	1,884	865	2,000	758	1,364	722	1,407
10 to 19	11,348	343	1,128	2,171	1,373	1,908	470	1,534	983	1,438
20 to 49	16,132	650	1,647	2,747	1,760	2,761	1,098	1,999	1,319	2,151
50 to 99	12,961	518	1,829	2,280	856	2,677	614	1,545	1,174	1,468
100 to 249	12,442	509	2,143	2,307	844	2,534	514	1,377	869	1,345
250 or more	12,152	303	2,500	1,937	638	2,482	414	1,182	1,161	1,534
<b>Weekly operating hours</b>										
Fewer than 40	10,766	Q	1,184	2,121	1,161	1,903	940	1,200	506	1,546
40 to 48	18,826	720	1,599	3,307	1,599	3,341	1,353	2,717	1,487	2,704
49 to 60	22,845	899	3,163	3,837	1,900	4,639	1,144	2,569	2,221	2,472
61 to 84	14,736	550	2,196	2,685	1,377	2,526	528	1,962	955	1,957
85 to 167	10,038	448	1,374	2,120	814	1,808	Q	837	914	1,228
Open continuously	19,213	926	2,685	3,491	1,520	3,707	945	2,296	1,597	2,045
<b>Ownership and occupancy</b>										
Nongovernment owned	74,728	3,059	9,636	13,857	6,610	13,425	4,002	8,828	5,883	9,428
Owner occupied	45,355	2,175	5,529	8,483	4,415	8,568	2,675	5,545	3,277	4,689
Leased to tenant or tenants	28,382	876	3,948	5,219	2,063	4,667	1,264	3,209	2,528	4,607
Unoccupied	990	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government owned	21,695	690	2,566	3,704	1,762	4,498	1,402	2,753	1,797	2,524
Federal	1,946	Q	Q	272	Q	554	Q	Q	Q	257
State	6,888	Q	775	984	345	1,605	594	1,016	652	773
Local	12,861	462	1,586	2,448	1,282	2,339	629	1,555	1,065	1,494

**Table B5. Census region and division, floorspace, 2018**

**Total floorspace (million square feet)**

	Northeast		Midwest		South			West		
	All buildings	New England	Middle Atlantic	East	West	South Atlantic	East	West	Mountain	Pacific
				North Central	North Central		South Central	South Central		
<b>All buildings</b>	96,423	3,749	12,202	17,561	8,372	17,923	5,404	11,580	7,680	11,952
<b>Party responsible for operation of energy systems</b>										
Building owner	79,282	3,259	10,189	14,724	7,135	14,726	4,406	9,553	6,350	8,940
Business owner or tenant	12,842	358	1,676	2,065	777	2,254	816	1,604	966	2,326
Property management	1,994	Q	Q	Q	Q	470	Q	Q	Q	358
Other	2,306	Q	Q	473	Q	474	Q	Q	Q	329
<b>Provider of direct input on energy-related equipment purchases</b>										
Building owner	82,862	3,282	10,670	15,364	7,320	15,444	4,647	10,167	6,611	9,356
Business owner or tenant	7,585	Q	981	1,159	570	1,336	556	811	634	1,285
Property management	1,072	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	4,904	Q	420	880	385	939	Q	473	345	1,125
<b>Number of establishments</b>										
1	65,391	2,700	7,554	12,374	6,295	11,769	3,949	8,015	4,893	7,842
2 to 5	16,431	575	2,221	2,841	1,018	3,055	768	2,133	1,596	2,224
6 to 10	5,539	Q	890	934	377	1,120	334	454	463	686
11 to 20	3,894	Q	611	474	Q	971	Q	394	336	530
More than 20	3,999	Q	749	682	Q	808	Q	507	Q	537
Currently unoccupied	1,168	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Campus or complex activity</b>										
Not part of a campus or complex	56,609	2,235	7,911	11,415	5,106	10,224	2,886	6,437	4,558	5,837
Primary or secondary school	5,106	Q	435	740	Q	745	472	895	269	1,024
College or university	3,761	Q	578	445	Q	813	Q	Q	151	520
Office complex	3,823	Q	510	355	247	900	Q	441	338	748
Retail complex	4,573	Q	421	729	396	789	Q	724	544	678
Storage complex	5,684	Q	440	989	Q	907	Q	648	Q	817
Religious campus or complex	3,209	Q	Q	399	Q	1,021	Q	524	Q	Q
Health care complex	2,838	Q	402	728	183	332	Q	212	220	467
Lodging or resort complex	1,575	Q	Q	Q	Q	287	Q	Q	Q	Q
Transportation complex	774	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government complex	1,706	Q	Q	Q	Q	290	Q	Q	Q	199
Other	6,765	326	826	1,204	680	1,324	Q	642	567	931
<b>Predominant exterior wall material</b>										
Brick, stone, or stucco	46,134	1,368	6,711	8,051	3,564	9,299	3,103	5,933	3,674	4,430
Concrete (block or poured)	19,357	721	2,887	3,405	1,268	3,302	685	2,329	1,918	2,843
Concrete panels	8,331	Q	712	1,599	511	1,779	424	812	467	1,855
Siding or shingles	5,992	731	563	1,309	909	686	224	Q	312	1,044
Metal panels	12,198	448	699	2,486	1,892	2,108	822	1,969	700	1,075
Window glass	2,192	Q	324	298	Q	431	Q	194	311	351
Other	2,219	Q	Q	413	Q	317	Q	Q	298	356

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**Total floorspace (million square feet)**

	Northeast		Midwest		South			West		
	All buildings	New England	Middle Atlantic	East	West	South Atlantic	East	West	Mountain	Pacific
				North Central	North Central		South Central	South Central		
<b>All buildings</b>	96,423	3,749	12,202	17,561	8,372	17,923	5,404	11,580	7,680	11,952
<b>Predominant roof material</b>										
Metal surfacing	20,936	577	1,276	3,260	2,441	4,521	1,571	3,660	1,213	2,417
Synthetic or rubber	31,563	1,548	5,482	5,923	2,732	5,873	1,397	2,579	2,827	3,203
Built-up	19,308	403	2,677	3,651	1,468	3,684	922	2,350	1,571	2,582
Slate or tile shingles	3,997	Q	471	729	Q	716	Q	415	Q	858
Wooden materials (including shingles)	1,568	Q	Q	Q	Q	Q	Q	Q	423	390
Asphalt, fiberglass, or other shingles	14,058	724	1,627	3,289	1,239	2,071	985	1,532	1,016	1,575
Concrete	1,968	Q	229	Q	Q	575	Q	232	Q	399
Other	3,026	Q	381	342	Q	412	Q	708	Q	528
<b>Roof tilt</b>										
Flat	54,253	1,838	8,811	9,389	3,988	9,729	2,456	6,245	5,021	6,776
Shallow pitch	27,609	911	1,788	5,316	3,132	5,465	1,775	3,642	2,065	3,515
Steeper pitch	14,561	1,000	1,604	2,856	1,252	2,729	1,173	1,693	594	1,661
<b>Cool roof characteristics (more than one may apply)</b>										
White or reflective coating or paint	32,799	658	3,110	4,783	2,844	6,403	1,791	4,276	3,709	5,226
White or reflective tiles or shingles	2,713	Q	377	392	Q	606	Q	418	Q	332
Aluminum coating	6,149	Q	827	692	264	1,578	467	1,055	348	630
Ballasted roof system	6,277	184	1,089	1,767	528	1,115	Q	391	815	270
Other cool roof property	1,603	Q	Q	Q	Q	489	Q	Q	Q	Q
<b>Renovations since 2000 (more than one may apply)</b>										
Any type of renovation	45,165	1,791	6,629	8,934	3,685	8,354	2,273	5,323	3,343	4,833
Addition or annex	10,854	468	1,425	2,744	1,274	1,719	560	1,131	783	751
Reduction in floorspace	1,784	Q	420	478	Q	332	Q	Q	Q	Q
Roof replacement	20,862	880	3,514	4,306	1,627	3,914	1,039	2,312	1,367	1,903
Interior wall reconfiguration	21,283	744	3,465	4,659	1,679	3,809	871	2,395	1,701	1,961
Window replacement	10,977	646	2,021	2,374	890	1,810	399	916	970	953
HVAC equipment upgrade	27,575	1,277	4,616	5,243	2,009	5,131	1,353	3,150	2,113	2,681
Lighting upgrade	29,098	1,326	4,632	5,984	2,406	5,183	1,161	2,967	2,308	3,131
Electrical upgrade	15,761	898	2,973	3,325	1,160	2,647	737	1,541	1,132	1,347
Plumbing system upgrade	15,537	839	2,920	2,924	1,234	2,724	663	1,522	1,202	1,508
Insulation upgrade	7,980	391	1,865	1,569	486	1,270	375	760	795	468
Fire, safety, or security upgrade	19,985	976	3,422	4,018	1,653	3,509	803	2,258	1,399	1,947
Structural upgrade	4,203	223	822	915	235	556	Q	324	Q	466
Other	1,168	Q	Q	Q	Q	312	Q	160	Q	Q
No renovations	43,832	1,834	4,785	7,247	4,195	8,519	2,706	5,142	3,461	5,942
Buildings constructed 2013 or later	7,426	Q	789	1,379	492	1,050	Q	1,115	876	1,177

**Table B5. Census region and division, floorspace, 2018**

**Total floorspace (million square feet)**

	Northeast		Midwest		South			West		
	All buildings	New England	Middle Atlantic	East	West	South Atlantic	East	West	Mountain	Pacific
				North Central	North Central		South Central	South Central		
<b>All buildings</b>	96,423	3,749	12,202	17,561	8,372	17,923	5,404	11,580	7,680	11,952
<b>Energy sources (more than one may apply)</b>										
Electricity	94,844	3,737	12,074	17,374	8,114	17,732	5,272	11,349	7,411	11,781
Natural gas	67,722	1,861	9,470	14,491	5,919	10,285	4,122	7,488	5,948	8,138
Fuel oil	21,185	1,639	4,291	2,913	1,672	4,355	803	1,637	1,899	1,976
District heat	6,745	394	1,430	1,204	303	1,234	294	Q	401	883
District chilled water	4,288	Q	365	656	Q	1,027	Q	721	267	696
Propane	10,157	1,154	1,316	1,293	1,088	2,260	376	722	700	1,248
Solar	3,820	268	947	425	Q	378	Q	Q	396	1,028
Wood, coal, and other	2,113	Q	Q	412	Q	404	Q	Q	Q	Q
<b>Space-heating energy sources (more than one may apply)</b>										
Electricity	45,603	1,264	5,112	6,113	3,520	10,606	2,825	6,485	3,856	5,823
Natural gas	58,042	1,654	8,331	13,385	5,430	7,888	3,664	5,927	5,242	6,521
Fuel oil	4,134	763	1,752	395	315	544	Q	Q	Q	Q
District heat	6,547	394	1,385	1,128	300	1,231	294	Q	373	874
Propane	3,896	633	Q	478	632	887	Q	274	Q	247
Other sources <sup>b</sup>	927	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Primary space-heating energy source</b>										
Electricity	27,618	633	2,016	2,730	1,947	7,906	1,604	4,726	2,200	3,855
Natural gas	50,060	1,430	7,463	12,096	4,986	6,017	3,131	5,010	4,523	5,404
Fuel oil	2,223	642	990	Q	N	261	Q	Q	Q	Q
District heat	6,090	388	1,307	1,107	255	1,131	216	Q	362	797
Propane	2,290	453	Q	380	417	Q	Q	Q	Q	Q
Other sources <sup>b</sup>	380	Q	Q	Q	Q	Q	N	Q	Q	Q
<b>Cooling energy sources (more than one may apply)</b>										
Electricity	84,526	3,052	11,002	15,064	7,096	16,474	4,985	10,446	6,790	9,616
Natural gas	400	Q	Q	Q	Q	Q	Q	N	Q	Q
District chilled water	4,288	Q	365	656	Q	1,027	Q	721	267	696
<b>Water-heating energy sources (more than one may apply)</b>										
Electricity	47,125	1,809	5,855	6,941	3,940	10,835	2,833	6,166	3,155	5,590
Natural gas	46,652	1,124	5,854	10,193	3,926	6,826	2,546	5,461	4,486	6,237
Fuel oil	1,807	498	657	Q	Q	Q	Q	Q	Q	Q
District heat	4,206	203	1,177	817	Q	668	Q	Q	169	531
Propane	1,947	444	Q	Q	Q	608	Q	Q	Q	Q
<b>Cooking energy sources (more than one may apply)</b>										
Electricity	30,509	1,438	3,761	6,398	2,800	5,472	1,480	3,637	2,708	2,814
Natural gas	27,705	819	4,396	5,337	2,334	4,731	1,366	3,109	2,546	3,068
Propane	3,101	503	Q	Q	Q	963	Q	Q	Q	453



**Table B5. Census region and division, floorspace, 2018**

**Total floorspace (million square feet)**

	Total floorspace (million square feet)									
	Northeast		Midwest		South			West		
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All buildings</b>	96,423	3,749	12,202	17,561	8,372	17,923	5,404	11,580	7,680	11,952
<b>Cooling equipment (more than one may apply)</b>										
Packaged air-conditioning units	56,290	2,051	7,314	9,518	4,501	10,417	3,683	7,224	4,733	6,849
Residential-type central air conditioners	18,270	799	1,991	4,404	2,283	3,118	936	2,175	1,027	1,536
Individual air conditioners	13,619	936	2,721	2,382	1,005	2,362	815	1,251	654	1,492
Central chillers	17,926	534	3,187	3,484	1,091	4,097	722	1,703	1,114	1,993
Heat pumps	11,098	550	1,844	1,149	885	3,046	616	508	1,072	1,428
District chilled water	4,288	Q	365	656	Q	1,027	Q	721	267	696
Swamp coolers	2,070	Q	Q	Q	Q	Q	Q	Q	578	734
Other	Q	N	Q	N	N	Q	Q	Q	Q	Q
<b>HVAC features (more than one may apply)</b>										
Economizer cycle	34,087	1,376	5,572	7,119	2,885	5,325	1,092	3,008	3,232	4,479
Variable air volume (VAV) system	29,268	960	4,234	5,726	2,233	5,961	980	3,239	2,621	3,313
Dedicated outside air system (DOAS)	9,027	449	1,294	1,367	836	2,099	361	965	Q	945
Demand controlled ventilation (DCV)	10,474	607	2,156	1,808	637	1,855	529	1,016	730	1,136
Regular HVAC maintenance	78,015	3,109	10,287	13,610	6,212	15,339	4,049	9,460	6,622	9,328
Building automation system (BAS) controls heating or cooling	40,462	1,702	5,963	7,180	2,893	7,931	1,671	4,744	3,552	4,826
Internet-connected or smart thermostat	5,966	Q	479	835	395	1,235	511	1,153	509	677
Programmable thermostat	20,882	763	2,970	4,022	1,824	3,074	1,077	2,286	1,723	3,143
<b>Main equipment replaced since 2000 (more than one may apply)</b>										
Heating	32,451	1,450	4,563	6,292	3,197	5,708	1,713	3,828	2,086	3,615
Cooling	23,013	1,167	4,141	4,534	1,650	4,113	1,170	2,353	1,604	2,282
<b>Water-heating equipment</b>										
Centralized system	59,280	2,457	7,424	11,791	5,182	11,263	3,253	6,596	4,942	6,375
Distributed system	14,307	566	2,320	2,132	1,088	2,359	591	2,159	885	2,208
Combination of centralized and distributed systems	14,129	452	1,782	2,359	1,083	2,933	896	1,732	899	1,993
<b>Generation technologies (more than one may apply)</b>										
Reciprocating engine generator	25,163	1,427	4,344	4,571	1,763	5,408	1,034	2,458	2,116	2,042
Solar panels	3,750	264	947	414	Q	367	Q	Q	396	988
Other generation technology	2,055	Q	342	533	Q	Q	Q	Q	Q	370

**Table B5. Census region and division, floorspace, 2018**

**Total floorspace (million square feet)**

	Northeast		Midwest		South		West			
	All buildings	New England	Middle Atlantic	East	West	South Atlantic	East	West	Mountain Pacific	
				North Central	North Central		South Central	South Central		
<b>All buildings</b>	96,423	3,749	12,202	17,561	8,372	17,923	5,404	11,580	7,680	11,952
<b>Lighting equipment types (more than one may apply)</b>										
Incandescent	21,081	803	3,333	4,176	1,754	4,035	1,159	2,080	1,364	2,376
Standard fluorescent	72,912	2,764	9,592	13,242	5,957	14,165	3,988	8,448	5,645	9,112
Compact fluorescent	33,691	1,370	4,948	6,470	2,537	6,476	1,361	3,653	2,541	4,335
High-intensity discharge (HID)	11,356	355	1,740	2,164	890	2,597	817	830	988	974
Halogen	15,012	491	2,091	2,276	1,021	3,011	839	2,087	1,366	1,832
LED	61,849	2,679	8,962	11,498	5,115	11,288	2,870	6,506	5,168	7,763
Other	Q	N	N	Q	N	Q	N	Q	N	Q
<b>Refrigeration equipment (more than one may apply)</b>										
Any refrigeration	77,589	2,935	10,027	14,289	6,723	15,032	4,063	9,599	6,068	8,854
Walk-in units	29,384	1,268	4,225	5,494	2,549	5,989	1,317	3,063	2,505	2,974
Cases or cabinets	28,517	1,012	4,312	5,366	2,276	5,591	1,394	3,236	2,262	3,069
Large cold storage areas	3,592	Q	461	416	Q	829	Q	362	Q	459
Commercial ice makers	34,672	979	4,177	5,896	2,868	7,530	1,890	4,501	3,254	3,575
Residential-type or compact units	64,735	2,451	8,308	12,017	5,776	12,540	2,932	8,220	5,023	7,470
Vending machines	42,071	1,490	5,677	8,067	3,292	8,640	2,245	5,166	3,410	4,084
No refrigeration	18,834	814	2,175	3,272	1,649	2,892	1,340	1,982	1,612	3,098
<b>Office equipment (more than one may apply)</b>										
Desktop computers	82,012	3,103	10,795	14,842	6,590	15,619	4,480	10,093	6,477	10,014
With multiple monitors	50,844	1,864	7,065	8,908	3,995	10,237	2,477	5,585	4,276	6,439
Laptop computers	69,375	2,722	9,277	13,173	5,625	13,183	3,635	8,299	5,327	8,133
Dedicated servers	51,595	1,993	7,482	9,701	4,024	9,151	2,427	6,133	4,161	6,524
Tablets charged in building	48,778	1,969	6,478	8,917	3,901	9,400	2,350	5,940	4,293	5,530
Large floor-standing office devices <sup>c</sup>	54,088	1,978	7,875	10,012	4,079	10,729	2,489	6,291	4,427	6,208
Smaller desktop office devices <sup>c</sup>	74,467	2,976	10,169	13,342	5,821	14,089	3,816	9,505	5,843	8,907
Interactive whiteboards	16,939	727	2,815	3,364	1,303	3,362	964	1,567	1,467	1,371
Televisions or video displays	63,618	2,413	8,910	11,140	5,028	12,207	3,208	8,231	5,216	7,266
Point-of-sale devices or cash registers	33,606	1,529	4,598	6,407	2,686	6,059	1,618	3,888	3,415	3,407
<b>Food preparation or serving areas in non-food service buildings (more than one may apply)</b>										
Snack bar, concession stand, or coffee shop	10,361	329	1,285	1,998	936	2,019	340	1,011	1,106	1,337
Fast food or small restaurant	9,759	329	1,328	2,042	539	1,810	375	980	983	1,373
Cafeteria or large restaurant	14,531	725	2,436	3,041	1,208	2,752	635	1,450	1,202	1,081
Commercial kitchen or food preparation area	17,698	767	2,521	3,324	1,598	3,515	715	2,013	1,633	1,611
Small kitchen area	20,519	1,005	2,780	4,278	1,933	3,462	854	2,367	1,856	1,985



**Table B5. Census region and division, floorspace, 2018**

**Total floorspace (million square feet)**

	Northeast		Midwest		South		West			
	All buildings	New England	Middle Atlantic	East	West	South Atlantic	East	West	Mountain Pacific	
				North Central	North Central		South Central	South Central		
<b>All buildings</b>	96,423	3,749	12,202	17,561	8,372	17,923	5,404	11,580	7,680	11,952
<b>Separate computer areas (more than one may apply)</b>										
Server closet	48,722	1,755	7,024	8,989	3,555	9,145	2,417	5,939	4,104	5,794
Data center or server farm	11,383	455	2,114	2,303	733	1,910	422	1,077	982	1,387
Computer-based training room	16,556	461	2,484	3,089	1,421	3,003	736	2,006	1,782	1,575
Student or public computer center	12,527	389	1,884	2,158	1,043	2,192	618	1,825	1,125	1,293
<b>Window and interior lighting features (more than one may apply)</b>										
Multipaned windows	72,694	2,909	9,903	13,899	6,862	13,378	4,018	7,749	6,229	7,748
Tinted window glass	44,363	1,140	5,134	7,350	3,509	8,707	2,482	5,872	3,844	6,325
Reflective window glass	17,929	591	2,027	3,855	913	2,697	663	2,091	2,071	3,021
External overhangs or awnings	28,718	772	2,673	4,775	2,216	5,497	1,878	3,866	2,772	4,270
Skylights or atriums	19,815	777	2,415	3,783	1,445	3,563	643	2,179	1,869	3,141
Light scheduling	33,552	1,339	4,965	5,961	2,136	6,381	1,142	3,999	3,220	4,410
Occupancy sensors	44,304	1,953	7,056	8,713	3,056	8,295	1,674	4,075	3,607	5,876
Multilevel lighting or dimming	14,424	560	1,629	3,367	1,054	2,826	356	1,314	1,714	1,604
Daylight harvesting	7,244	265	1,085	1,120	270	1,523	239	726	778	1,239
Plug-load control	1,961	Q	Q	456	Q	421	Q	Q	Q	312
Demand responsive lighting	2,045	Q	288	570	Q	381	Q	Q	Q	333
Building automation system (BAS) for lighting	16,645	669	2,043	2,566	1,107	3,428	623	2,002	1,678	2,527
<b>Electric vehicle (EV) charging</b>										
Charging stations associated with the building	10,165	355	1,303	1,740	343	2,399	381	568	1,131	1,944

Data source: U.S. Energy Information Administration, Form EIA-871A of the 2018 Commercial Buildings Energy Consumption Survey

Notes: Because of rounding, data may not sum to totals. The *Guide to the 2018 CBECS Tables* and *CBECS Terminology* contain definitions of terms used in these tables and comparisons between previous CBECS tables. You can access both references from <http://www.eia.gov/consumption/commercial/data/2018/>.

Data are sample survey estimates with relative standard errors published in a tab on the Excel worksheet for this table.

<sup>a</sup>Climate zones are based on ASHRAE Standard 169-2021; see <https://www.eia.gov/consumption/commercial/maps.php#defined>.

<sup>b</sup>Other sources includes wood, coal, solar, and all other energy sources.

<sup>c</sup>Office devices refers to any combination of printers, copiers, scanners, or FAX machines.

Q = Data withheld either because the relative standard error was greater than 50% or the reporting sample had fewer than 20 buildings.

N = No buildings in reporting sample.

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**Relative standard errors (RSEs) for Table B5. Census region and division, floorspace, 2018**

**RSEs for total floorspace**

	Northeast		Midwest		South		West			
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All buildings</b>	3.1	10.8	8.8	10.4	7.9	6.8	20.3	11.5	13.1	8.1
<b>Building floorspace (square feet)</b>										
1,001 to 5,000	5.3	24.1	17.9	18.7	23.5	16.8	12.6	14.2	19.0	8.9
5,001 to 10,000	5.8	18.0	19.9	14.4	35.9	14.5	23.2	19.2	21.0	10.2
10,001 to 25,000	6.1	25.9	17.4	19.8	14.9	12.8	40.8	22.4	15.1	17.8
25,001 to 50,000	5.6	30.0	14.0	15.1	30.1	11.9	23.5	17.9	20.9	14.5
50,001 to 100,000	5.3	31.2	11.9	16.9	26.2	12.0	20.6	14.7	14.2	14.6
100,001 to 200,000	5.5	20.9	13.3	15.2	13.1	11.6	30.6	10.3	17.6	18.9
200,001 to 500,000	5.0	22.7	12.8	14.5	17.8	9.9	16.1	13.3	23.2	12.4
Over 500,000	8.6	41.1	15.1	18.5	24.7	21.6	50.4	15.7	59.2	26.0
<b>Principal building activity</b>										
Education	5.3	13.7	10.7	12.0	24.2	14.0	24.1	20.3	15.2	15.8
Food sales	17.0	93.6	40.6	27.8	73.9	34.6	20.1	48.6	18.2	46.1
Food service	8.5	36.6	37.3	15.2	20.4	19.5	30.7	25.1	21.9	26.2
Health care	5.5	35.3	17.0	14.0	17.5	13.6	26.6	16.9	20.0	20.2
Inpatient	7.2	48.0	23.4	17.4	24.5	15.6	22.1	20.0	31.8	25.4
Outpatient	8.0	41.7	19.7	24.7	34.5	20.5	34.2	29.1	19.7	24.0
Lodging	8.3	23.2	23.6	16.7	21.4	19.3	41.7	21.7	43.0	14.7
Mercantile	6.0	26.1	15.6	23.2	17.2	16.1	21.9	15.1	15.6	10.7
Retail (other than mall)	8.6	26.9	19.9	31.8	30.4	16.7	37.1	21.6	21.9	24.2
Enclosed and strip malls	7.6	46.0	28.5	20.1	38.1	21.3	26.1	21.1	22.6	15.9
Office	5.5	22.1	13.6	16.3	14.3	15.2	19.3	18.0	21.0	10.0
Public assembly	5.8	14.1	20.1	14.4	20.7	13.0	52.7	19.1	26.5	13.7
Public order and safety	15.9	29.3	35.2	45.2	57.7	42.0	30.3	48.3	37.0	38.5
Religious worship	9.3	57.5	28.8	22.9	33.1	17.2	44.2	16.6	28.2	28.6
Service	8.1	29.5	15.0	24.4	18.4	23.6	45.7	33.8	20.2	27.0
Warehouse and storage	7.2	23.5	20.7	15.1	22.0	17.8	40.1	24.9	25.5	17.9
Other	15.1	49.7	29.6	36.6	71.5	35.9	51.3	44.9	42.3	34.5
Vacant	14.1	61.7	42.6	34.8	49.4	25.9	45.5	44.1	68.6	46.9
<b>Year constructed</b>										
Before 1920	10.8	29.9	24.4	17.8	50.4	19.8	48.1	73.3	63.9	36.9
1920 to 1945	8.8	20.1	16.2	23.4	35.7	25.2	25.8	27.0	33.6	23.4
1946 to 1959	7.6	42.5	19.0	20.3	35.5	20.9	32.5	26.6	23.7	15.2
1960 to 1969	5.2	25.6	13.3	14.7	23.1	10.2	18.9	16.9	22.9	17.9
1970 to 1979	6.0	37.0	17.7	14.4	15.6	14.9	6.7	21.9	20.2	25.4
1980 to 1989	5.9	17.9	12.5	18.8	16.4	13.5	21.5	16.2	33.3	10.0
1990 to 1999	6.6	20.0	16.5	15.2	36.3	9.7	37.8	18.9	14.9	17.1
2000 to 2009	6.3	31.2	17.7	13.7	19.7	11.6	41.2	19.6	14.3	16.7
2010 to 2018	7.6	13.7	19.9	18.2	34.0	15.2	47.9	21.6	28.9	20.0

Relative standard errors (RSEs) for Table B5. Census region and division, floorspace, 2018

RSEs for total floorspace

	Northeast		Midwest		South			West		
	All buildings	New England	Middle Atlantic	East	West	South Atlantic	East	West	Mountain	Pacific
				North Central	North Central		South Central	South Central		
<b>All buildings</b>	3.1	10.8	8.8	10.4	7.9	6.8	20.3	11.5	13.1	8.1
<b>Climate zone<sup>a</sup></b>										
Cold or very cold	17.0	14.0	62.2	46.0	8.6	0.0	0.0	0.0	59.5	57.7
Cool	8.3	18.1	19.1	14.8	19.3	0.0	0.0	0.0	15.6	41.1
Mixed mild	10.5	70.5	12.5	39.4	13.5	8.9	54.2	87.9	72.2	47.6
Warm	10.0	0.0	0.0	0.0	0.0	12.6	31.5	40.6	69.1	9.2
Hot or very hot	14.1	0.0	0.0	0.0	0.0	18.6	70.7	21.8	16.6	86.9
<b>Number of floors</b>										
1	4.5	14.9	12.0	13.1	12.0	12.1	21.6	15.3	13.4	10.0
2	4.4	23.4	10.2	13.6	15.6	8.7	32.4	15.0	11.5	12.4
3	7.6	20.7	23.2	19.3	19.9	22.6	26.4	26.2	36.2	20.8
4 to 9	6.3	17.9	13.1	13.1	29.7	18.2	23.4	23.2	18.2	17.4
10 or more	11.0	23.3	13.2	31.5	30.0	30.6	19.3	27.1	51.9	22.2
<b>Elevators and escalators (more than one may apply)</b>										
Any elevators	4.5	14.6	9.3	9.9	10.7	13.4	13.3	18.0	21.6	13.3
1 elevators	6.0	24.3	11.7	12.7	13.7	18.3	15.5	31.5	21.6	19.4
2 to 5 elevators	5.2	20.1	13.3	14.7	15.0	15.7	14.6	17.5	16.6	11.8
6 or more elevators	8.4	27.4	14.1	18.0	21.9	23.0	24.3	14.3	50.2	20.4
Any escalators	13.7	50.8	18.4	26.2	35.5	32.9	44.3	21.0	66.6	25.7
<b>Number of workers (main shift)</b>										
Fewer than 5	5.9	21.7	20.6	15.9	27.9	14.8	28.8	18.7	20.2	17.7
5 to 9	6.9	27.5	18.1	24.8	12.8	12.3	32.0	17.4	19.1	18.5
10 to 19	7.4	34.7	16.9	23.4	31.3	16.2	23.0	20.9	16.2	15.5
20 to 49	4.8	15.2	8.9	10.8	22.3	13.6	26.7	15.0	11.2	11.6
50 to 99	5.9	17.2	15.3	12.6	16.3	13.7	25.0	26.0	20.7	13.4
100 to 249	5.6	24.8	16.0	12.1	18.1	11.7	21.0	12.7	28.7	17.3
250 or more	6.4	19.6	11.5	15.0	18.1	16.5	22.3	13.1	33.2	15.2
<b>Weekly operating hours</b>										
Fewer than 40	6.6	33.5	21.8	16.2	11.8	18.0	32.8	17.2	17.0	19.7
40 to 48	5.1	22.7	16.4	15.0	20.2	11.8	24.3	16.9	20.9	10.5
49 to 60	4.3	17.0	10.6	16.9	8.9	7.4	19.0	16.8	13.0	11.6
61 to 84	5.3	16.0	15.3	12.6	12.8	11.0	22.5	23.1	22.5	11.4
85 to 167	6.2	31.2	12.1	14.5	22.6	10.1	51.2	15.6	18.7	24.0
Open continuously	5.0	15.8	10.9	12.8	13.6	15.4	18.2	11.0	26.8	11.2
<b>Ownership and occupancy</b>										
Nongovernment owned	3.3	12.1	10.1	11.3	6.6	6.2	25.9	10.0	13.8	9.8
Owner occupied	3.3	14.1	13.3	9.5	9.4	8.0	19.9	11.3	15.3	11.1
Leased to tenant or tenants	4.8	13.1	11.8	15.8	13.9	7.6	41.0	11.2	17.5	10.5
Unoccupied	19.2	64.0	47.7	69.1	53.3	37.5	60.1	62.4	78.9	56.0
Government owned	6.0	19.7	13.2	14.1	22.8	19.4	21.4	20.8	18.6	13.5
Federal	16.1	47.2	40.4	33.1	40.7	41.1	52.2	45.3	44.8	41.5
State	11.8	43.3	29.2	29.1	15.8	39.3	9.6	31.8	23.6	26.2
Local	6.0	15.6	13.2	11.0	28.6	14.1	38.4	21.9	24.7	15.4

Relative standard errors (RSEs) for Table B5. Census region and division, floorspace, 2018

RSEs for total floorspace

	Northeast		Midwest		South		West			
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All buildings</b>	3.1	10.8	8.8	10.4	7.9	6.8	20.3	11.5	13.1	8.1
<b>Party responsible for operation of energy systems</b>										
Building owner	3.2	12.3	9.1	11.3	9.7	7.3	19.6	13.2	13.4	7.9
Business owner or tenant	7.2	14.1	19.4	19.9	29.4	14.0	33.6	13.9	19.2	17.6
Property management	11.7	29.7	30.2	41.9	28.2	23.9	38.6	33.1	40.3	30.1
Other	11.1	35.7	39.8	18.4	39.2	16.6	58.1	45.6	15.9	31.8
<b>Provider of direct input on energy-related equipment purchases</b>										
Building owner	3.1	12.2	9.3	11.4	9.0	6.9	20.5	12.4	12.8	8.2
Business owner or tenant	8.8	24.0	17.9	17.4	34.7	20.8	24.5	18.4	21.0	26.7
Property management	16.2	53.8	33.9	48.5	59.5	39.8	50.8	38.5	53.6	42.9
Other	8.1	22.6	28.3	24.7	27.3	17.5	31.7	25.1	46.2	10.8
<b>Number of establishments</b>										
1	3.6	11.5	9.6	11.2	11.2	9.6	19.6	15.3	12.1	10.0
2 to 5	5.5	17.1	18.1	10.8	10.5	10.5	39.5	11.9	31.4	11.6
6 to 10	7.9	24.8	21.6	28.8	30.5	13.2	24.7	21.7	18.6	24.7
11 to 20	8.9	44.5	24.1	15.5	62.7	16.8	31.1	30.8	23.7	12.0
More than 20	10.1	48.8	18.5	38.8	33.6	22.7	45.3	20.4	33.9	16.5
Currently unoccupied	16.5	64.0	44.0	42.5	52.2	34.6	45.5	60.8	68.6	54.7
<b>Campus or complex activity</b>										
Not part of a campus or complex	3.7	9.5	10.6	12.1	7.9	7.5	22.7	14.5	16.3	11.6
Primary or secondary school	9.4	24.3	25.5	17.6	50.0	22.7	45.3	28.5	20.5	23.1
College or university	15.9	62.5	19.4	29.7	47.4	38.7	58.6	63.8	41.6	24.3
Office complex	10.0	44.7	25.2	28.8	22.7	28.1	36.4	27.7	37.3	16.9
Retail complex	9.2	49.3	26.5	28.2	32.6	23.8	60.1	19.4	23.0	10.4
Storage complex	11.0	37.1	47.0	29.5	27.7	30.0	49.0	23.1	32.4	22.8
Religious campus or complex	12.0	57.7	45.9	19.0	47.7	27.5	38.1	19.2	38.7	34.6
Health care complex	8.2	40.9	24.3	17.4	28.0	22.1	27.5	18.9	33.3	25.1
Lodging or resort complex	13.7	63.7	64.2	47.1	47.3	35.9	40.5	36.4	20.5	34.2
Transportation complex	33.2	59.5	40.4	24.7	51.5	85.8	49.9	37.7	55.6	68.5
Government complex	17.0	70.2	47.2	59.2	30.6	29.1	48.0	31.1	49.5	27.0
Other	7.4	35.8	24.0	20.3	18.9	15.9	37.2	21.2	26.7	21.3
<b>Predominant exterior wall material</b>										
Brick, stone, or stucco	3.9	15.9	9.6	10.1	11.7	10.2	18.7	14.5	15.1	9.3
Concrete (block or poured)	4.8	23.1	13.1	18.9	11.4	7.6	39.9	13.0	13.2	12.7
Concrete panels	8.4	22.3	27.2	25.6	26.4	14.7	45.3	19.8	27.2	18.2
Siding or shingles	9.3	30.3	28.5	16.7	35.5	19.6	25.9	38.7	22.5	30.7
Metal panels	6.0	25.8	25.5	19.7	15.5	11.8	20.4	13.5	31.0	16.1
Window glass	11.4	44.2	27.3	23.5	31.9	24.8	58.9	26.9	40.6	25.1
Other	13.7	56.1	39.6	44.8	39.5	27.7	37.1	43.7	28.7	22.8

Relative standard errors (RSEs) for Table B5. Census region and division, floorspace, 2018

RSEs for total floorspace

	Northeast		Midwest		South			West		
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All buildings</b>	3.1	10.8	8.8	10.4	7.9	6.8	20.3	11.5	13.1	8.1
<b>Predominant roof material</b>										
Metal surfacing	5.6	17.8	10.4	18.2	12.0	11.9	26.2	20.4	18.1	14.9
Synthetic or rubber	4.1	15.9	10.9	9.9	11.0	8.5	30.4	12.1	17.1	10.1
Built-up	4.8	29.7	11.8	16.5	18.1	7.9	9.4	15.8	28.8	10.7
Slate or tile shingles	10.1	37.9	21.3	33.9	34.7	30.8	23.9	12.0	35.8	22.6
Wooden materials (including shingles)	17.8	66.9	59.1	50.8	62.0	33.1	48.1	46.7	32.1	33.5
Asphalt, fiberglass, or other shingles	5.6	23.9	16.8	16.3	14.6	11.6	24.2	18.0	17.3	20.8
Concrete	11.9	71.1	27.9	36.2	50.9	16.9	76.7	35.7	36.8	17.1
Other	9.8	58.1	20.4	19.4	28.2	28.7	43.5	19.7	32.0	28.9
<b>Roof tilt</b>										
Flat	3.3	16.6	8.7	9.5	9.8	6.5	10.3	10.9	16.7	9.6
Shallow pitch	4.8	24.5	13.3	16.2	6.2	9.9	37.8	14.5	14.4	12.4
Steeper pitch	5.7	13.1	20.2	15.0	21.4	11.7	20.8	23.2	12.7	20.7
<b>Cool roof characteristics (more than one may apply)</b>										
White or reflective coating or paint	4.4	24.1	12.2	11.5	14.0	8.4	19.0	12.0	19.3	10.1
White or reflective tiles or shingles	10.4	45.1	24.8	26.4	60.5	25.6	31.4	37.8	36.2	13.2
Aluminum coating	9.2	26.5	22.3	31.2	32.2	15.8	27.9	22.9	48.2	40.4
Ballasted roof system	9.5	22.5	13.4	24.0	22.1	20.0	59.3	21.0	35.9	25.1
Other cool roof property	19.2	36.5	39.0	34.1	39.6	45.4	61.5	61.1	60.8	30.0
<b>Renovations since 2000 (more than one may apply)</b>										
Any type of renovation	3.4	13.9	8.2	11.4	6.7	7.5	21.2	9.7	18.0	8.4
Addition or annex	6.0	29.7	12.9	17.5	10.6	14.9	28.7	9.0	21.9	17.3
Reduction in floorspace	13.2	74.3	26.2	28.3	48.8	34.8	43.8	41.5	68.3	36.8
Roof replacement	4.3	13.0	11.9	11.2	12.0	11.9	14.1	13.4	26.7	13.1
Interior wall reconfiguration	4.2	19.6	11.7	9.9	8.5	6.5	12.2	12.6	26.4	10.8
Window replacement	5.8	15.5	11.8	16.0	16.2	14.6	10.4	18.9	30.7	22.3
HVAC equipment upgrade	4.2	16.0	11.5	9.6	20.6	10.2	18.8	12.2	23.6	11.1
Lighting upgrade	3.9	14.7	9.8	11.2	13.4	9.3	18.3	10.0	20.9	10.6
Electrical upgrade	5.6	13.2	11.6	12.2	28.6	15.3	26.4	18.1	32.1	8.0
Plumbing system upgrade	5.2	16.2	13.1	16.0	15.7	12.7	15.3	12.9	29.2	11.1
Insulation upgrade	7.8	8.3	17.6	19.7	24.5	16.2	21.5	18.0	41.2	24.2
Fire, safety, or security upgrade	4.4	13.4	11.8	10.7	16.2	9.2	17.5	13.4	27.1	13.7
Structural upgrade	10.2	40.2	16.4	23.3	25.4	18.7	52.7	19.5	66.4	18.9
Other	14.9	60.9	31.5	59.7	75.1	28.1	35.4	15.7	48.6	38.4
No renovations	3.9	15.4	12.5	12.6	8.8	9.6	15.9	19.0	11.4	9.6
Buildings constructed 2013 or later	8.3	30.5	22.6	20.4	40.1	20.6	51.8	20.8	29.1	16.6

Relative standard errors (RSEs) for Table B5. Census region and division, floorspace, 2018

RSEs for total floorspace

	Northeast		Midwest		South			West		
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All buildings</b>	3.1	10.8	8.8	10.4	7.9	6.8	20.3	11.5	13.1	8.1
<b>Energy sources (more than one may apply)</b>										
Electricity	3.0	10.8	8.8	10.3	7.7	6.7	20.1	11.7	13.4	7.7
Natural gas	3.4	11.8	9.6	9.3	13.6	7.1	22.3	8.6	16.2	8.9
Fuel oil	5.4	16.7	12.6	13.2	17.9	10.2	24.2	13.4	31.4	15.7
District heat	11.4	29.5	9.4	24.2	17.2	44.2	49.6	53.4	33.8	18.4
District chilled water	13.7	40.2	20.0	27.3	41.2	40.5	51.2	47.5	31.0	20.5
Propane	7.6	16.2	21.5	18.7	23.0	18.5	26.6	25.5	40.8	27.3
Solar	11.5	24.0	30.9	22.2	36.6	32.9	58.9	47.8	31.9	18.7
Wood, coal, and other	14.0	48.6	45.1	32.5	65.2	21.0	43.2	53.0	46.6	48.7
<b>Space-heating energy sources (more than one may apply)</b>										
Electricity	3.7	15.8	10.7	13.0	13.1	9.0	12.4	11.3	13.0	9.6
Natural gas	3.6	11.6	10.1	10.0	13.6	6.4	22.5	9.4	16.7	9.2
Fuel oil	11.6	26.5	20.9	26.1	26.8	26.8	41.0	79.6	53.3	65.0
District heat	11.6	29.5	10.4	23.6	17.2	44.3	49.6	56.6	31.6	18.6
Propane	13.1	22.3	31.6	30.8	28.7	35.2	29.1	45.6	71.4	38.3
Other sources <sup>b</sup>	19.6	49.2	49.5	33.9	59.0	64.6	50.9	52.1	66.0	51.0
<b>Primary space-heating energy source</b>										
Electricity	5.5	17.8	15.4	15.9	32.6	10.6	23.8	17.1	14.0	14.1
Natural gas	4.1	10.4	9.9	11.0	13.0	9.2	23.0	10.3	18.9	9.8
Fuel oil	15.3	26.8	25.7	30.9	0.0	33.8	53.6	81.1	96.9	110.6
District heat	12.6	29.9	12.8	24.6	16.8	46.4	43.9	60.9	31.9	21.5
Propane	16.9	24.5	12.5	32.4	40.9	51.5	52.5	59.4	80.5	45.6
Other sources <sup>b</sup>	30.3	58.3	53.4	42.4	67.6	87.2	0.0	52.1	74.9	59.5
<b>Cooling energy sources (more than one may apply)</b>										
Electricity	3.0	11.1	9.4	9.4	9.5	6.3	21.8	10.5	13.3	6.6
Natural gas	24.2	45.6	36.2	54.0	44.4	52.9	50.2	0.0	3.9	55.0
District chilled water	13.7	40.2	20.0	27.3	41.2	40.5	51.2	47.5	31.0	20.5
<b>Water-heating energy sources (more than one may apply)</b>										
Electricity	3.6	17.3	10.9	12.9	11.7	7.0	17.4	14.4	13.0	6.7
Natural gas	3.7	15.5	9.9	10.4	15.9	10.0	15.5	9.7	16.4	9.2
Fuel oil	15.4	18.8	32.8	29.9	58.1	42.6	50.1	93.7	49.8	61.1
District heat	12.8	34.8	11.7	36.0	25.3	45.3	39.9	55.4	32.8	23.4
Propane	14.7	29.3	57.1	57.4	41.3	32.3	52.8	47.7	65.7	42.2
<b>Cooking energy sources (more than one may apply)</b>										
Electricity	3.9	11.3	8.5	9.8	12.2	10.2	16.9	9.8	18.8	11.4
Natural gas	3.4	17.8	9.6	8.5	11.8	7.4	23.1	4.9	17.7	12.0
Propane	11.7	25.7	35.3	28.5	41.5	25.3	49.4	34.7	60.1	21.4

Relative standard errors (RSEs) for Table B5. Census region and division, floorspace, 2018

RSEs for total floorspace

	Northeast		Midwest		South			West		
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All buildings</b>	3.1	10.8	8.8	10.4	7.9	6.8	20.3	11.5	13.1	8.1
<b>Energy end uses (more than one may apply)</b>										
Buildings with space heating	3.0	11.2	8.8	9.5	9.7	7.4	20.6	10.1	13.7	8.1
Buildings with cooling	3.0	11.3	9.1	9.2	9.4	6.5	21.1	10.8	13.5	6.4
Buildings with water heating	2.9	11.5	8.8	9.7	9.4	7.0	17.5	10.0	14.3	7.2
Buildings with cooking	3.1	11.4	7.7	9.6	9.5	7.8	18.0	6.8	15.3	10.8
Buildings with manufacturing	7.9	32.7	27.3	19.8	26.9	17.9	26.4	22.3	24.7	19.6
Buildings with electricity generation	4.4	18.1	10.3	8.0	14.8	9.2	29.3	10.2	24.4	11.8
Buildings with lighting	3.0	10.8	8.7	10.2	7.8	6.7	18.4	11.7	13.4	7.6
<b>Percentage of floorspace heated</b>										
Not heated	10.0	33.4	30.0	33.4	26.1	13.3	25.8	48.5	30.5	20.0
1 to 50%	7.1	25.2	25.9	20.8	43.8	15.4	13.7	20.6	33.7	15.3
51 to 99%	5.3	22.4	12.8	12.9	16.2	12.0	30.4	15.4	15.3	9.5
100%	3.2	12.8	8.6	9.9	10.5	6.7	19.8	14.8	16.2	9.1
<b>Percentage of floorspace cooled</b>										
Not cooled	8.0	30.5	18.7	22.2	13.7	18.0	19.3	38.5	31.9	23.0
1 to 50%	5.2	13.5	15.0	11.9	17.9	12.4	21.2	24.8	26.4	13.0
51 to 99%	5.1	15.2	10.4	13.2	13.7	12.5	32.8	10.9	17.5	11.9
100%	3.5	18.8	12.3	10.3	13.1	7.2	19.4	13.8	18.3	6.1
<b>Percentage lit when open</b>										
0%	38.5	0.0	0.0	52.6	50.8	71.5	81.1	110.2	70.2	77.9
1 to 50%	6.0	27.3	19.9	18.4	14.4	13.3	30.8	20.5	24.6	19.0
51 to 99%	3.6	11.4	9.0	9.7	8.7	8.4	20.3	9.9	16.4	9.8
100%	3.8	11.1	9.0	14.0	17.4	8.1	23.9	15.4	14.8	7.9
Building never open or electricity not used	12.1	49.1	31.2	30.6	38.0	27.6	51.7	35.9	40.4	38.5
<b>Percentage lit during off hours</b>										
0%	6.7	22.6	18.5	16.4	16.0	17.5	40.1	25.5	26.7	18.8
1 to 50%	3.0	12.4	9.1	10.7	8.3	6.3	15.8	11.1	13.4	7.3
51 to 100%	6.7	24.9	20.4	15.9	24.5	16.0	21.6	17.7	14.8	17.6
Building always open with no off hours	11.6	65.6	24.6	31.1	32.5	22.5	37.0	39.6	36.6	38.9
Electricity not used	17.6	70.9	58.9	49.3	56.8	35.9	49.3	49.9	45.0	53.1
<b>Heating equipment (more than one may apply)</b>										
Packaged heating units	3.6	17.0	8.7	10.4	12.6	6.9	29.3	9.9	14.3	9.7
Furnaces	5.7	40.2	16.1	13.6	13.5	18.1	14.3	17.1	16.6	14.0
Individual space heaters	4.8	20.3	12.3	13.5	11.6	9.9	21.5	15.7	23.8	10.5
Boilers	4.0	9.1	11.8	10.1	11.0	7.5	12.3	12.3	22.1	13.7
Heat pumps	5.4	15.3	15.2	14.0	31.3	10.2	15.2	16.4	24.7	12.7
District heat	11.6	29.5	10.4	23.6	17.2	44.3	49.6	56.6	31.6	18.6
Duct reheat	7.0	32.0	20.3	21.2	22.1	13.6	17.8	12.1	34.2	17.8
Other	24.1	86.7	79.8	45.1	86.4	37.8	50.7	99.2	31.4	95.5

Relative standard errors (RSEs) for Table B5. Census region and division, floorspace, 2018

RSEs for total floorspace

	Northeast		Midwest		South		West			
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain Pacific	
<b>All buildings</b>	3.1	10.8	8.8	10.4	7.9	6.8	20.3	11.5	13.1	8.1
<b>Cooling equipment (more than one may apply)</b>										
Packaged air-conditioning units	3.4	12.7	9.5	10.7	9.2	6.2	27.2	10.1	13.8	7.0
Residential-type central air conditioners	5.2	19.5	14.2	10.7	12.4	16.2	15.5	19.0	22.1	16.7
Individual air conditioners	5.3	15.7	14.9	15.1	18.9	14.5	18.2	13.6	20.2	16.6
Central chillers	5.0	18.1	10.5	13.1	9.0	14.4	13.4	11.4	18.5	10.7
Heat pumps	6.8	24.9	19.6	12.8	35.3	13.2	16.1	21.3	30.7	14.3
District chilled water	13.7	40.2	20.0	27.3	41.2	40.5	51.2	47.5	31.0	20.5
Swamp coolers	13.1	65.3	76.9	37.3	52.8	50.6	50.7	64.5	16.3	20.9
Other	36.4	0.0	70.2	0.0	0.0	79.3	50.9	97.9	70.1	47.1
<b>HVAC features (more than one may apply)</b>										
Economizer cycle	3.9	12.7	9.8	7.9	9.5	10.0	20.0	15.9	19.8	12.8
Variable air volume (VAV) system	4.9	15.9	11.9	7.9	13.8	13.7	14.4	23.5	21.5	10.3
Dedicated outside air system (DOAS)	7.8	25.1	11.8	20.3	18.0	23.0	20.4	15.9	51.3	12.5
Demand controlled ventilation (DCV)	5.5	25.6	13.9	13.8	21.2	11.7	24.8	17.8	20.0	17.9
Regular HVAC maintenance	3.2	9.6	10.1	9.7	7.9	6.4	24.7	11.6	13.7	8.9
Building automation system (BAS) controls heating or cooling	3.7	12.6	8.4	6.2	8.8	7.0	12.1	18.4	18.3	9.9
Internet-connected or smart thermostat	10.5	30.1	21.6	36.6	26.4	19.2	41.2	34.9	27.6	20.1
Programmable thermostat	5.4	26.8	13.3	13.8	20.2	14.3	47.7	23.2	14.6	7.9
<b>Main equipment replaced since 2000 (more than one may apply)</b>										
Heating	3.8	17.7	12.2	11.7	10.1	11.2	23.9	11.6	14.9	9.1
Cooling	4.3	13.9	14.7	11.4	16.0	8.5	9.8	9.3	24.1	13.1
<b>Water-heating equipment</b>										
Centralized system	3.4	14.5	8.1	10.4	11.5	9.9	13.9	10.5	15.9	6.5
Distributed system	6.4	28.6	13.0	19.3	13.2	13.1	13.4	28.5	17.2	13.1
Combination of centralized and distributed systems	5.2	14.0	15.3	10.5	11.7	10.3	43.7	13.3	16.8	14.3
<b>Generation technologies (more than one may apply)</b>										
Reciprocating engine generator	4.8	18.9	10.6	10.3	17.2	9.2	31.2	10.5	27.8	15.8
Solar panels	11.5	24.3	30.9	22.6	37.1	34.0	58.9	47.8	31.9	18.1
Other generation technology	14.4	55.4	26.8	32.3	2.8	37.8	47.2	47.5	50.7	34.1



Relative standard errors (RSEs) for Table B5. Census region and division, floorspace, 2018

RSEs for total floorspace

	Northeast		Midwest		South		West			
	All buildings	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
<b>All buildings</b>	3.1	10.8	8.8	10.4	7.9	6.8	20.3	11.5	13.1	8.1
<b>Lighting equipment types (more than one may apply)</b>										
Incandescent	4.5	13.5	12.8	11.2	21.4	11.1	14.7	10.6	25.6	10.2
Standard fluorescent	3.4	15.1	10.2	11.3	7.4	8.4	19.5	10.3	14.4	8.8
Compact fluorescent	4.2	20.3	9.6	12.2	9.7	11.8	13.9	13.1	19.2	6.9
High-intensity discharge (HID)	7.1	22.0	12.1	16.7	12.7	17.9	33.2	16.6	35.2	15.4
Halogen	4.2	18.0	11.9	13.3	22.1	9.5	17.8	9.6	25.1	8.9
LED	2.9	9.4	9.2	8.7	9.6	7.3	16.3	10.3	14.1	6.6
Other	24.1	0.0	0.0	26.9	0.0	70.9	0.0	70.9	0.0	51.3
<b>Refrigeration equipment (more than one may apply)</b>										
Any refrigeration	3.0	10.1	9.7	9.5	9.3	6.3	20.7	11.2	13.8	8.1
Walk-in units	3.4	14.8	6.4	8.1	14.2	6.9	22.4	7.2	17.1	9.6
Cases or cabinets	3.7	20.0	7.4	9.1	18.5	7.4	15.5	10.0	22.3	10.9
Large cold storage areas	11.3	49.3	17.8	25.6	35.9	19.9	28.7	28.8	52.0	19.7
Commercial ice makers	3.5	13.4	8.1	9.0	9.1	9.0	22.6	8.1	15.5	11.5
Residential-type or compact units	3.2	8.9	10.4	9.9	10.0	6.3	23.2	12.7	15.0	8.1
Vending machines	3.8	11.8	9.4	8.4	15.3	7.7	27.9	10.4	20.7	9.8
No refrigeration	5.3	17.5	8.5	17.8	13.3	13.4	29.4	15.6	21.8	13.5
<b>Office equipment (more than one may apply)</b>										
Desktop computers	2.9	10.4	8.7	9.3	9.2	6.0	19.6	10.9	14.2	7.3
With multiple monitors	3.5	10.1	9.4	8.8	7.5	8.6	17.8	9.1	20.0	10.8
Laptop computers	3.0	8.5	9.5	9.0	10.8	6.1	17.3	10.6	15.0	7.4
Dedicated servers	3.3	12.6	10.8	8.8	7.9	4.4	23.5	10.4	16.2	10.1
Tablets charged in building	3.3	11.0	9.3	9.4	10.8	8.0	14.9	9.9	14.8	9.8
Large floor-standing office devices <sup>c</sup>	3.0	12.8	9.0	8.1	7.2	6.0	20.6	9.9	17.3	9.6
Smaller desktop office devices <sup>c</sup>	3.1	8.8	8.7	10.3	10.8	6.6	22.2	9.9	14.7	7.5
Interactive whiteboards	4.5	18.8	8.9	9.6	15.6	12.2	13.0	16.6	26.4	13.1
Televisions or video displays	3.0	10.8	9.7	9.2	11.6	7.0	14.9	10.0	14.0	9.3
Point-of-sale devices or cash registers	3.4	14.4	9.1	9.8	11.0	6.4	13.4	8.9	18.8	10.8
<b>Food preparation or serving areas in non-food service buildings (more than one may apply)</b>										
Snack bar, concession stand, or coffee shop	6.7	18.8	15.3	17.8	14.6	16.1	45.3	10.5	30.0	15.1
Fast food or small restaurant	5.9	33.6	11.9	13.8	19.5	13.5	14.0	13.1	30.9	16.1
Cafeteria or large restaurant	4.6	14.0	7.9	9.0	16.5	11.4	9.3	9.5	31.2	20.8
Commercial kitchen or food preparation area	4.4	18.7	12.8	13.7	13.8	8.3	17.4	11.9	20.9	13.9
Small kitchen area	4.7	17.4	10.4	14.4	11.9	12.6	24.7	9.3	21.2	14.4

Relative standard errors (RSEs) for Table B5. Census region and division, floorspace, 2018

RSEs for total floorspace

	Northeast			Midwest		South		West		
	All buildings	New England	Middle Atlantic	East	West	South Atlantic	East	West	Mountain	Pacific
				North Central	North Central		South Central	South Central		
<b>All buildings</b>	3.1	10.8	8.8	10.4	7.9	6.8	20.3	11.5	13.1	8.1
<b>Separate computer areas (more than one may apply)</b>										
Server closet	3.4	13.7	9.8	10.0	4.9	5.6	19.4	11.9	17.6	10.5
Data center or server farm	6.7	19.8	17.4	13.9	17.1	12.9	29.4	9.9	44.1	21.4
Computer-based training room	4.6	21.6	9.0	10.2	10.1	9.9	16.4	15.5	26.4	17.2
Student or public computer center	4.6	27.5	10.4	8.0	15.8	9.6	26.3	11.5	29.9	18.0
<b>Window and interior lighting features (more than one may apply)</b>										
Multipaned windows	3.2	11.8	8.4	9.6	9.8	6.9	24.0	11.9	14.1	9.3
Tinted window glass	3.4	18.6	9.3	8.6	14.2	6.5	20.8	11.3	16.9	8.8
Reflective window glass	5.6	16.0	11.9	13.5	18.0	8.3	14.2	20.7	23.0	12.8
External overhangs or awnings	4.5	24.3	13.5	12.6	13.5	10.2	22.5	12.1	19.8	11.1
Skylights or atriums	4.5	17.6	15.1	10.2	19.6	9.0	24.2	6.5	23.9	11.5
Light scheduling	4.1	14.4	11.8	11.6	10.3	10.0	10.3	10.4	17.9	9.9
Occupancy sensors	3.8	12.1	9.3	9.4	10.5	9.1	16.3	14.7	21.5	9.0
Multilevel lighting or dimming	6.6	18.7	14.7	11.0	26.2	20.2	18.3	9.0	27.8	10.1
Daylight harvesting	6.3	40.2	14.8	19.5	25.5	14.1	23.2	18.6	13.3	14.3
Plug-load control	12.2	45.5	29.9	31.0	32.9	28.2	50.5	29.7	37.3	25.8
Demand responsive lighting	15.2	51.2	32.6	43.2	42.0	31.0	79.3	42.1	21.4	34.2
Building automation system (BAS) for lighting	5.2	22.5	16.0	11.3	13.5	8.5	15.5	12.6	26.4	13.7
<b>Electric vehicle (EV) charging</b>										
Charging stations associated with the building	7.2	21.4	21.3	18.7	24.5	15.3	30.8	19.0	29.3	10.5

Data source: U.S. Energy Information Administration, Forms EIA-871A of the 2018 Commercial Buildings Energy Consumption Survey

Note: RSE is a measure of the reliability or precision of a survey statistic. Variability occurs in survey statistics because the different samples that could be drawn would each produce different values for the survey statistics. *Estimation of Standard Errors* and *What is a Relative Standard Error (RSE)?* contain more information on how RSEs are estimated and used. Both references can be accessed from <https://www.eia.gov/consumption/commercial/survey-background-technical-information.php>.

<sup>a</sup>Climate zones are based on ASHRAE Standard 169-2021; see <https://www.eia.gov/consumption/commercial/maps.php#defined>.

<sup>b</sup>Other sources includes wood, coal, solar, and all other energy sources.

<sup>c</sup>Office devices refers to any combination of printers, copiers, scanners, or FAX machines.