

Release date: February 2015

Revised date: May 2016

Table B11. Selected principal building activity: part 1, number of buildings, 2012

	Number of buildings (thousand)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	5,557	1,012	796	619	602	412	389	352
Building floorspace (square feet)								
1,001 to 5,000	2,777	532	380	372	250	174	143	162
5,001 to 10,000	1,229	230	180	143	143	111	51	77
10,001 to 25,000	884	129	142	78	116	90	75	73
25,001 to 50,000	332	66	49	19	45	28	41	24
50,001 to 100,000	199	32	24	Q	26	7	48	9
100,001 to 200,000	90	15	13	Q	16	Q	22	4
200,001 to 500,000	38	6	7	Q	5	Q	9	2
Over 500,000	8	3	1	Q	1	N	Q	1
Year constructed								
Before 1920	362	83	26	Q	48	38	6	38
1920 to 1945	488	86	48	55	54	47	33	48
1946 to 1959	599	111	55	67	59	57	48	45
1960 to 1969	639	102	65	94	64	52	61	39
1970 to 1979	684	132	88	78	83	52	38	37
1980 to 1989	915	192	160	99	98	58	47	37
1990 to 1999	845	139	163	97	77	40	64	51
2000 to 2003	375	55	59	34	37	32	48	13
2004 to 2007	347	68	75	32	44	Q	22	22
2008 to 2012	303	44	58	30	38	Q	21	23
Census region and division								
Northeast	805	148	89	108	98	51	45	65
New England	302	54	28	41	34	Q	16	36
Middle Atlantic	504	94	61	68	64	28	29	29
Midwest	1,237	230	163	177	131	92	67	100
East North Central	735	154	79	102	84	50	44	65
West North Central	502	76	84	75	47	42	23	34
South	2,247	390	325	230	251	195	159	110
South Atlantic	1,091	198	177	100	142	80	87	45
East South Central	370	63	22	41	31	57	14	34
West South Central	786	129	126	89	78	58	58	31
West	1,267	245	219	103	122	74	118	77
Mountain	338	65	46	Q	31	22	24	16
Pacific	929	179	173	78	91	52	94	61
Climate region¹								
Very cold/Cold	2,031	393	273	256	222	128	112	158
Mixed-humid	1,743	316	228	202	210	163	97	93
Mixed-dry/Hot-dry	837	144	177	81	61	46	83	55
Hot-humid	799	129	94	67	92	66	85	31
Marine	147	30	Q	Q	Q	Q	Q	Q

Table B11. Selected principal building activity: part 1, number of buildings, 2012

	Number of buildings (thousand)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	5,557	1,012	796	619	602	412	389	352
Number of floors								
One	3,836	554	661	495	441	261	266	223
Two	1,158	277	114	94	116	125	66	87
Three	374	118	15	24	32	21	36	24
Four to nine	177	56	Q	Q	Q	Q	19	18
Ten or more	13	7	N	Q	Q	N	Q	Q
Elevators and escalators (more than one may apply)								
Any elevators	405	146	19	Q	16	20	62	29
Number of elevators								
One	272	94	12	Q	14	17	47	20
Two to five	118	46	8	Q	Q	Q	14	8
Six or more	16	6	N	Q	Q	Q	Q	1
Any escalators	10	5	N	Q	1	Q	N	1
Number of workers (main shift)								
Fewer than 5	2,892	320	528	398	265	296	122	230
5 to 9	1,085	254	104	119	132	61	71	65
10 to 19	731	168	89	61	95	42	50	32
20 to 49	513	144	54	30	72	11	82	15
50 to 99	206	70	12	Q	27	Q	45	6
100 to 249	93	34	7	Q	10	Q	17	2
250 or more	37	22	2	Q	2	N	3	1
Weekly operating hours								
Fewer than 40	1,149	61	142	71	44	289	60	110
40 to 48	1,346	488	199	194	118	38	127	44
49 to 60	1,244	309	195	207	171	37	121	75
61 to 84	764	79	77	101	185	27	45	69
85 to 167	479	31	53	24	70	Q	28	33
Open continuously	575	45	130	Q	15	Q	8	21
Ownership and occupancy								
Nongovernment owned	4,781	862	743	544	598	411	162	234
Owner occupied	2,466	370	334	282	233	368	124	163
Leased to tenant(s)	1,745	357	364	237	314	32	33	53
Owner occupied and leased	349	135	44	25	51	Q	Q	18
Unoccupied	221	N	N	N	N	N	N	N
Government owned	776	150	53	74	Q	Q	227	118
Federal	33	9	Q	Q	Q	N	Q	Q
State	185	43	Q	Q	Q	N	60	21
Local	558	98	Q	49	Q	Q	162	97

Table B11. Selected principal building activity: part 1, number of buildings, 2012

	Number of buildings (thousand)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	5,557	1,012	796	619	602	412	389	352
Party responsible for operation and maintenance of energy systems								
Building owner	4,715	873	668	495	426	394	368	324
Business owner or tenant	724	118	108	115	167	Q	Q	12
Property management	54	14	Q	Q	Q	N	Q	Q
Other	64	Q	Q	Q	Q	Q	Q	Q
Provider of direct input on energy-related equipment purchases								
Building owner	4,876	900	715	510	465	393	369	322
Business owner or tenant	540	86	67	94	120	Q	Q	Q
Property management	35	12	Q	Q	Q	N	Q	Q
Other	106	15	Q	Q	13	Q	Q	Q
Number of establishments								
One	4,205	657	642	526	372	385	369	300
2 to 5	862	275	110	82	133	26	19	50
6 to 10	147	52	22	Q	58	N	N	Q
11 to 20	68	19	Q	Q	30	N	N	Q
More than 20	27	8	Q	N	8	N	N	Q
Currently unoccupied	248	N	N	N	N	N	N	N
Campus or complex activity								
Not part of a campus or complex	3,683	742	394	441	467	292	120	212
Primary or secondary school	237	Q	Q	Q	N	Q	173	15
College or university	84	15	Q	Q	N	N	35	7
Office complex	154	113	Q	Q	Q	N	Q	Q
Retail complex	258	Q	Q	29	124	N	N	Q
Storage complex	314	Q	259	Q	Q	N	N	N
Religious campus or complex	197	Q	N	N	Q	118	26	Q
Health care complex	52	Q	Q	N	N	N	Q	Q
Lodging or resort complex	65	Q	Q	Q	Q	N	Q	Q
Transportation complex	35	Q	Q	Q	N	N	N	Q
Government complex	104	35	Q	Q	N	N	Q	Q
Other	371	48	74	93	Q	N	22	56
Predominant exterior wall material								
Brick, stone, or stucco	2,312	518	143	172	239	227	211	133
Concrete (block or poured)	1,121	167	154	158	176	47	61	76
Concrete panels	210	44	65	Q	18	Q	12	6
Siding or shingles	905	194	96	60	77	86	68	90
Metal panels	933	71	327	206	89	28	35	43
Window glass	17	4	Q	N	Q	Q	Q	Q
Other	37	9	Q	Q	Q	Q	Q	Q
No one major type	21	Q	Q	Q	Q	Q	Q	Q

Table B11. Selected principal building activity: part 1, number of buildings, 2012

Number of buildings (thousand)

	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	5,557	1,012	796	619	602	412	389	352
Predominant roof material								
Metal surfacing	1,672	192	433	302	158	94	79	100
Synthetic or rubber	911	194	103	91	119	22	73	63
Built-up	836	164	93	68	121	30	112	38
Slate or tile shingles	406	87	Q	Q	28	62	29	35
Wooden materials (including shingles)	157	26	Q	Q	Q	Q	Q	Q
Asphalt, fiberglass, or other shingles	1,483	334	108	98	143	190	87	100
Concrete	51	13	Q	Q	Q	N	Q	Q
Other	24	Q	Q	Q	Q	Q	Q	Q
No one major type	18	Q	Q	Q	Q	Q	Q	Q
Roof characteristics								
Roof tilt								
Flat	1,960	408	248	193	275	42	162	77
Shallow pitch	2,148	317	430	275	232	104	152	158
Steeper pitch	1,449	288	117	151	96	265	75	116
Cool roof	740	141	96	70	94	51	86	51
Renovations in buildings constructed before 2008 (more than one may apply)								
Any type of renovation	2,094	460	176	163	236	197	161	140
Addition or annex	444	81	35	44	34	61	49	26
Reduction in floorspace	71	10	Q	Q	Q	Q	Q	Q
Roof replacement	987	220	67	77	109	117	84	74
Exterior wall replacement	194	44	12	Q	19	Q	19	Q
Interior wall reconfiguration	889	261	69	57	101	52	59	48
Window replacement	560	139	35	36	58	64	48	49
HVAC equipment upgrade	1,101	254	65	89	123	113	100	79
Lighting upgrade	982	235	58	60	121	76	87	69
Electrical upgrade	747	171	52	49	101	61	57	50
Plumbing system upgrade	644	128	44	42	66	56	52	43
Insulation upgrade	382	89	29	37	39	39	29	27
Fire, safety, or security upgrade	616	151	40	35	57	56	71	33
Structural upgrade	152	31	Q	Q	Q	Q	9	10
Other	39	Q	Q	N	Q	Q	Q	Q
No renovations	3,160	509	562	426	328	202	207	189
Buildings constructed 2008 or later	303	44	58	30	38	Q	21	23

Table B11. Selected principal building activity: part 1, number of buildings, 2012

	Number of buildings (thousand)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	5,557	1,012	796	619	602	412	389	352
Energy sources (more than one may apply)								
Electricity	5,234	1,012	675	602	599	412	389	352
Natural gas	2,933	595	261	339	356	229	234	205
Fuel oil	467	86	26	86	44	23	30	27
District heat	48	12	Q	Q	Q	N	12	7
District chilled water	54	10	N	N	N	Q	25	5
Propane	510	35	45	69	51	66	25	67
Other	172	24	16	39	22	Q	10	17
Space-heating energy sources (more than one may apply)								
Electricity	2,858	653	264	270	387	231	214	162
Natural gas	2,612	554	235	329	324	217	203	187
Fuel oil	270	42	Q	70	35	Q	21	Q
District heat	48	12	Q	Q	Q	N	12	7
Propane	342	27	26	54	35	63	16	46
Other	101	Q	Q	39	Q	Q	Q	Q
Primary space-heating energy source								
Electricity	1,819	424	180	127	229	132	154	94
Natural gas	2,322	493	213	290	283	199	182	164
Fuel oil	205	32	Q	48	Q	Q	17	Q
District heat	47	12	Q	Q	Q	N	12	7
Propane	261	24	Q	37	Q	53	Q	44
Other	67	Q	Q	26	Q	Q	Q	Q
Cooling energy sources (more than one may apply)								
Electricity	4,413	985	388	435	560	375	338	291
Natural gas	12	Q	Q	N	Q	N	Q	N
District chilled water	54	10	N	N	N	Q	25	5
Water-heating energy sources (more than one may apply)								
Electricity	2,658	614	264	273	400	233	159	160
Natural gas	1,758	323	117	161	194	144	167	135
Fuel oil	77	Q	Q	Q	Q	Q	11	Q
District heat	25	8	N	Q	Q	N	7	3
Propane	142	Q	Q	Q	Q	Q	Q	Q
Cooking energy sources (more than one may apply)								
Electricity	1,010	101	26	28	101	167	116	89
Natural gas	740	39	Q	Q	92	93	86	46
Propane	144	Q	Q	Q	Q	Q	7	24

Table B11. Selected principal building activity: part 1, number of buildings, 2012

Number of buildings (thousand)

	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	5,557	1,012	796	619	602	412	389	352
Energy end uses (more than one may apply)								
Buildings with space heating	4,722	989	420	528	572	408	379	330
Buildings with cooling	4,461	995	391	435	560	375	361	295
Buildings with water heating	4,423	943	370	442	531	383	332	317
Buildings with cooking	1,589	130	33	39	157	261	169	143
Buildings with manufacturing	259	31	77	46	28	Q	Q	Q
Buildings with electricity generation	410	94	29	19	31	Q	38	21
Percent of floorspace heated								
Not heated	835	23	375	90	30	Q	Q	22
1 to 50	697	73	224	109	73	35	Q	35
51 to 99	727	165	28	86	138	43	56	51
100	3,298	750	168	334	361	330	314	244
Percent of floorspace cooled								
Not cooled	1,096	Q	405	183	42	36	28	57
1 to 50	1,173	136	290	293	129	45	42	56
51 to 99	897	237	29	38	154	64	73	69
100	2,391	622	72	104	278	266	246	170
Percent lit when open								
Zero	70	N	53	Q	N	N	N	Q
1 to 50	1,099	227	239	121	73	101	30	84
51 to 99	1,666	399	126	148	275	146	126	120
100	2,222	386	197	311	251	163	233	135
Building never open/electricity not used	501	N	180	Q	Q	Q	N	Q
Percent lit during off hours								
Zero	2,489	455	426	330	142	300	200	214
1 to 50	2,441	532	193	254	439	110	183	126
51 to 100	202	22	26	Q	13	Q	4	10
Building always open with no "off hours"	102	Q	Q	Q	Q	N	Q	Q
Electricity not used	323	N	121	Q	Q	N	N	N
Heating equipment (more than one may apply)								
Heat pumps	628	157	53	43	83	52	62	42
Furnaces	755	196	58	70	89	91	26	61
Individual space heaters	1,247	234	150	259	136	89	45	80
District heat	48	12	Q	Q	Q	N	12	7
Boilers	544	110	18	30	59	61	96	41
Packaged heating units	2,802	560	246	285	402	236	223	183
Other	62	Q	Q	Q	13	Q	Q	Q

Table B11. Selected principal building activity: part 1, number of buildings, 2012

Number of buildings (thousand)								
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	5,557	1,012	796	619	602	412	389	352
Cooling equipment (more than one may apply)								
Residential-type central air conditioners	1,546	358	149	138	209	164	68	116
Heat pumps	692	175	57	50	96	57	69	42
Individual air conditioners	709	124	71	126	73	61	45	29
District chilled water	54	10	N	N	N	Q	25	5
Central chillers	163	43	Q	Q	Q	Q	42	15
Packaged air conditioning units	1,909	396	158	140	301	146	165	127
Swamp coolers	109	Q	Q	Q	14	Q	Q	Q
Other	Q	Q	Q	Q	N	Q	Q	Q
Main equipment replaced since 1990 (more than one may apply)								
Heating	1,874	424	142	212	249	165	142	120
Cooling	1,971	481	137	186	272	166	139	122
Water-heating equipment								
Centralized system	3,348	713	252	347	342	290	244	248
Distributed system	690	160	93	80	90	70	51	41
Combination of centralized and distributed system	385	71	26	Q	99	23	38	28
Lighting equipment types (more than one may apply)								
Incandescent	1,826	361	136	126	273	253	97	144
Standard fluorescent	4,649	949	509	552	570	363	382	299
Compact fluorescent	2,302	484	161	168	301	222	176	165
High-intensity discharge (HID)	525	57	76	70	98	39	57	41
Halogen	905	161	66	78	175	90	50	67
LED	473	81	23	Q	117	33	28	46
Other	10	Q	N	N	Q	N	Q	Q
Refrigeration equipment (more than one may apply)								
Any refrigeration	3,984	816	314	415	500	351	277	268
Walk-in units	811	23	19	Q	149	Q	80	28
Cases or cabinets	915	43	14	Q	195	38	81	56
Large cold storage areas	78	Q	12	N	19	Q	Q	Q
Commercial ice makers	846	72	29	Q	113	39	68	51
Residential-type or compact units	3,388	788	286	384	417	330	229	243
Vending machines	960	179	90	118	173	12	97	48
No refrigeration	1,573	197	482	204	102	61	112	84

Table B11. Selected principal building activity: part 1, number of buildings, 2012

	Number of buildings (thousand)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	5,557	1,012	796	619	602	412	389	352
Office equipment (more than one may apply)								
Desktop computers	3,977	977	370	428	527	246	357	231
With flat screen monitors	3,847	967	361	412	514	223	347	216
With multiple monitors	911	376	96	48	128	35	50	26
Laptop computers	2,730	753	253	246	350	186	255	155
Dedicated servers	1,748	580	173	116	239	58	150	70
Laser printers	2,339	728	224	209	282	104	223	115
Inkjet printers	2,187	430	200	269	323	162	167	152
FAX machines	3,185	873	329	347	465	143	218	171
Photocopiers	2,163	710	209	133	250	195	199	120
Number of desktop computers								
None	1,581	35	426	191	75	166	31	121
1 to 4	2,039	271	178	332	262	198	100	146
5 to 9	821	284	95	60	141	32	46	37
10 to 19	482	184	64	22	71	Q	45	20
20 to 49	355	128	25	Q	46	Q	62	23
50 to 99	143	60	6	Q	6	Q	45	2
100 to 249	92	31	2	Q	1	Q	41	3
250 or more	44	19	Q	N	Q	N	18	2
Number of laptop computers								
None	2,827	259	543	372	252	226	134	197
1 to 4	1,944	460	193	228	264	162	108	131
5 to 9	350	128	41	Q	52	18	31	11
10 to 19	181	65	9	Q	29	Q	27	8
20 to 49	144	64	8	Q	5	Q	43	2
50 to 99	58	19	Q	Q	Q	Q	24	Q
100 to 249	35	10	Q	Q	Q	N	15	Q
250 or more	20	8	Q	N	Q	N	7	Q
Number of dedicated servers								
None	3,809	433	623	502	364	354	239	282
1 to 4	1,562	479	159	116	222	57	130	67
5 to 9	97	51	9	Q	12	Q	9	Q
10 to 19	50	26	Q	Q	5	N	7	Q
20 to 49	25	16	Q	Q	Q	N	2	1
50 or more	13	6	Q	N	N	N	Q	Q
Number of photocopiers								
None	3,394	302	587	486	352	217	190	232
One	1,325	352	141	103	163	156	83	90
2 to 4	648	259	59	27	70	38	88	24
5 to 9	116	55	7	Q	16	Q	21	3
10 or more	75	44	Q	Q	1	Q	7	3

Table B11. Selected principal building activity: part 1, number of buildings, 2012

	Number of buildings (thousand)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	5,557	1,012	796	619	602	412	389	352
Number of TVs or video displays								
None	2,718	463	626	345	222	173	118	160
One	1,145	249	90	170	150	108	72	67
2 to 4	1,035	200	72	96	121	101	92	90
5 to 9	314	60	6	Q	44	23	39	16
10 to 19	154	25	Q	Q	35	Q	28	11
20 to 49	106	11	Q	N	25	Q	27	5
50 to 99	48	2	Q	N	5	N	10	Q
100 or more	37	1	Q	N	Q	N	Q	1
Food preparation or serving areas in non-food service buildings (more than one may apply)								
Snack bar or concession stand	153	8	Q	Q	31	Q	30	18
Fast food or small restaurant	173	9	Q	Q	99	N	Q	8
Cafeteria or large restaurant	130	12	Q	N	15	Q	70	6
Commercial kitchen/food preparation area	282	12	Q	Q	30	57	69	28
Small kitchen area	736	95	26	34	49	205	67	98
Separate computer areas (more than one may apply)								
Data center or server farm	97	51	7	Q	Q	Q	13	2
Computer-based training room	244	67	10	Q	38	Q	78	8
Student or public computer center	238	19	Q	Q	22	Q	126	21
HVAC conservation features (more than one may apply)								
Economizer cycle	601	134	29	22	94	25	114	42
Regular HVAC maintenance	3,178	703	248	264	390	238	345	224
Building automation system (BAS) ²	781	143	30	24	134	52	180	54
Window and interior lighting features (more than one may apply)								
Multipaned windows	3,012	686	258	265	378	247	221	203
Tinted window glass	1,875	409	159	169	285	152	151	94
Reflective window glass	549	138	51	33	95	52	42	33
External overhangs or awnings	1,867	370	132	159	330	109	125	120
Skylights or atriums	591	113	83	70	80	39	46	42
Light scheduling	918	168	56	71	233	35	80	77
Occupancy sensors	813	187	76	36	142	15	122	63
Multi-level lighting or dimming	349	56	4	Q	83	40	26	38
Daylight harvesting	125	28	11	Q	29	Q	9	8
Demand responsive lighting	176	15	Q	Q	52	Q	15	Q
Building automation system (BAS) for lighting ²	208	25	4	Q	93	Q	32	13

Table B11. Selected principal building activity: part 1, number of buildings, 2012

	Number of buildings (thousand)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	5,557	1,012	796	619	602	412	389	352
Equipment usage reduced when building not in full use (more than one may apply)								
Heating	3,699	798	294	400	479	362	348	272
Cooling	3,517	803	272	343	475	337	333	243
Lighting	4,757	990	518	570	578	404	385	331

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.

Table B12. Selected principal building activity: part 1, floorspace, 2012

	Total floorspace (million square feet)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Building floorspace (square feet)								
1,001 to 5,000	8,041	1,520	1,127	1,031	730	572	391	498
5,001 to 10,000	8,900	1,663	1,329	1,051	1,052	790	353	536
10,001 to 25,000	14,105	2,012	2,331	1,253	1,821	1,443	1,212	1,108
25,001 to 50,000	11,917	2,333	1,814	607	1,648	926	1,492	861
50,001 to 100,000	13,918	2,203	1,632	Q	1,909	585	3,363	627
100,001 to 200,000	12,415	2,054	1,946	Q	2,178	Q	3,020	553
200,001 to 500,000	10,724	1,946	1,827	Q	1,264	Q	2,358	748
Over 500,000	7,074	2,221	1,071	Q	726	N	Q	627
Year constructed								
Before 1920	3,983	1,014	680	Q	339	319	260	380
1920 to 1945	6,025	1,491	473	489	300	385	1,122	640
1946 to 1959	7,381	1,254	740	330	657	612	1,447	521
1960 to 1969	10,362	1,427	1,386	520	1,029	704	2,180	866
1970 to 1979	10,846	2,125	1,467	629	1,573	378	1,178	586
1980 to 1989	15,230	3,969	2,294	877	2,275	547	1,268	599
1990 to 1999	13,803	2,108	2,204	775	2,085	651	1,655	890
2000 to 2003	7,215	1,040	1,316	263	1,085	477	1,427	360
2004 to 2007	6,524	874	1,437	321	1,083	Q	900	359
2008 to 2012	5,723	649	1,081	245	902	Q	802	360
Census region and division								
Northeast	15,534	3,703	1,761	823	1,653	897	2,056	953
New England	4,302	738	521	255	463	Q	642	350
Middle Atlantic	11,232	2,965	1,240	568	1,190	613	1,414	603
Midwest	18,919	3,334	2,530	1,472	2,132	925	3,173	1,585
East North Central	12,742	2,430	1,570	847	1,488	547	2,205	1,196
West North Central	6,178	904	960	625	644	378	968	390
South	34,279	5,501	5,257	1,642	4,729	2,011	5,162	2,003
South Atlantic	17,981	3,183	2,832	741	2,746	857	2,840	904
East South Central	4,904	694	Q	318	736	614	469	330
West South Central	11,394	1,625	1,919	583	1,247	540	1,853	769
West	18,360	3,414	3,529	694	2,815	725	1,848	1,018
Mountain	4,981	852	591	Q	727	214	783	321
Pacific	13,379	2,562	2,938	578	2,088	511	1,065	697
Climate region¹								
Very cold/Cold	31,898	6,033	4,121	1,957	3,920	1,623	4,739	2,351
Mixed-humid	27,873	5,496	3,740	1,503	3,444	1,698	4,426	1,479
Mixed-dry/Hot-dry	12,037	1,873	2,932	582	1,652	461	1,075	834
Hot-humid	12,831	1,776	2,066	512	1,979	674	1,878	622
Marine	2,454	774	Q	Q	335	Q	Q	Q

Table B12. Selected principal building activity: part 1, floorspace, 2012

	Total floorspace (million square feet)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Number of floors								
One	39,809	3,644	9,153	2,996	8,616	1,916	4,419	2,097
Two	20,206	3,577	2,925	1,157	1,986	2,030	3,765	1,209
Three	8,140	1,877	683	236	349	426	1,967	594
Four to nine	13,535	3,949	Q	Q	Q	Q	1,987	1,605
Ten or more	5,404	2,904	N	Q	Q	N	Q	Q
Elevators and escalators (more than one may apply)								
Any elevators	32,120	9,940	1,841	Q	947	796	6,057	2,513
Number of elevators								
One	11,158	2,722	1,029	Q	358	480	3,694	657
Two to five	12,817	4,116	813	Q	Q	Q	2,309	1,036
Six or more	8,145	3,101	N	Q	Q	Q	Q	820
Any escalators	3,654	1,387	N	Q	476	Q	N	668
Number of workers (main shift)								
Fewer than 5	17,751	1,003	4,003	1,671	1,236	2,397	504	1,695
5 to 9	8,973	1,206	1,496	780	1,291	751	544	941
10 to 19	9,623	1,276	2,201	794	1,232	595	774	540
20 to 49	14,514	2,134	2,028	778	2,590	560	3,156	635
50 to 99	13,476	2,556	1,330	Q	2,333	Q	3,829	537
100 to 249	10,941	2,059	1,473	Q	1,789	Q	2,899	596
250 or more	11,815	5,718	547	Q	859	N	533	614
Weekly operating hours								
Fewer than 40	8,220	227	800	288	228	2,208	855	690
40 to 48	15,828	4,530	3,221	1,109	710	651	3,420	666
49 to 60	20,529	5,981	3,798	1,612	1,968	705	3,867	811
61 to 84	15,867	2,198	1,541	1,001	5,272	556	2,303	1,380
85 to 167	9,395	788	1,867	254	2,047	Q	1,454	1,206
Open continuously	17,253	2,228	1,850	Q	1,105	Q	340	806
Ownership and occupancy								
Nongovernment owned	67,550	12,815	12,316	3,800	11,298	4,542	3,084	3,178
Owner occupied	30,637	3,169	5,098	1,803	3,189	4,097	2,471	2,049
Leased to tenant(s)	26,115	7,118	5,989	1,629	6,566	224	327	508
Owner occupied and leased	8,873	2,528	1,229	368	1,543	Q	Q	620
Unoccupied	1,925	N	N	N	N	N	N	N
Government owned	19,543	3,136	761	830	Q	Q	9,154	2,381
Federal	1,573	600	Q	Q	Q	N	Q	Q
State	5,539	1,203	Q	Q	Q	N	2,408	514
Local	12,431	1,333	Q	375	Q	Q	6,689	1,736

Table B12. Selected principal building activity: part 1, floorspace, 2012

Total floorspace (million square feet)								
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Party responsible for operation and maintenance of energy systems								
Building owner	73,702	14,126	9,847	3,593	7,195	4,471	11,988	5,009
Business owner or tenant	11,309	1,261	2,924	905	4,011	Q	Q	372
Property management	1,250	474	Q	Q	Q	N	Q	Q
Other	832	Q	Q	Q	Q	Q	Q	Q
Provider of direct input on energy-related equipment purchases								
Building owner	76,271	14,481	10,526	3,801	8,046	4,479	12,011	5,078
Business owner or tenant	8,256	921	2,071	695	2,808	Q	Q	Q
Property management	880	294	Q	Q	Q	N	Q	Q
Other	1,686	255	Q	Q	368	Q	Q	Q
Number of establishments								
One	54,994	7,318	9,157	3,396	3,827	3,864	11,241	3,850
2 to 5	17,756	3,988	3,128	957	2,483	694	998	1,307
6 to 10	4,425	1,693	325	Q	1,613	N	N	Q
11 to 20	3,704	1,234	Q	Q	1,775	N	N	Q
More than 20	3,821	1,719	Q	N	1,632	N	N	Q
Currently unoccupied	2,393	N	N	N	N	N	N	N
Campus or complex activity								
Not part of a campus or complex	52,275	10,225	8,220	3,021	7,219	3,178	5,692	2,977
Primary or secondary school	4,616	Q	Q	Q	N	Q	4,060	241
College or university	4,068	521	Q	Q	N	N	1,879	696
Office complex	3,456	2,904	Q	Q	Q	N	Q	Q
Retail complex	5,159	Q	Q	273	3,909	N	N	Q
Storage complex	3,212	Q	2,774	Q	Q	N	N	N
Religious campus or complex	1,932	Q	N	N	Q	1,371	244	Q
Health care complex	3,362	Q	Q	N	N	N	Q	Q
Lodging or resort complex	1,295	Q	Q	Q	Q	N	Q	Q
Transportation complex	554	Q	Q	Q	N	N	N	240
Government complex	2,107	967	Q	Q	N	N	Q	Q
Other	5,057	577	1,568	754	Q	N	232	668
Predominant exterior wall material								
Brick, stone, or stucco	40,463	7,746	2,526	1,300	4,385	3,066	8,615	2,397
Concrete (block or poured)	20,726	2,887	3,576	1,454	4,661	475	2,267	1,221
Concrete panels	8,693	2,306	2,786	Q	606	Q	437	302
Siding or shingles	5,750	977	652	276	550	527	374	759
Metal panels	8,673	738	3,086	1,389	977	292	439	617
Window glass	1,340	884	Q	N	Q	Q	Q	Q
Other	856	240	Q	Q	Q	Q	Q	Q
No one major type	592	Q	Q	Q	Q	Q	Q	Q

Table B12. Selected principal building activity: part 1, floorspace, 2012

Total floorspace (million square feet)								
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Predominant roof material								
Metal surfacing	15,916	1,662	4,177	2,019	1,973	809	1,512	1,292
Synthetic or rubber	25,817	5,633	3,234	1,192	3,696	475	3,980	1,747
Built-up	21,835	4,721	3,020	478	3,196	445	4,427	965
Slate or tile shingles	4,306	667	Q	Q	143	800	848	Q
Wooden materials (including shingles)	1,139	178	Q	Q	Q	Q	Q	Q
Asphalt, fiberglass, or other shingles	15,104	2,608	1,626	522	1,660	1,923	1,166	788
Concrete	1,642	385	Q	Q	Q	N	Q	Q
Other	678	Q	Q	Q	Q	Q	Q	Q
No one major type	657	Q	Q	Q	Q	Q	Q	Q
Roof characteristics								
Roof tilt								
Flat	49,623	11,075	6,462	2,044	6,860	780	8,079	2,388
Shallow pitch	23,853	2,845	5,720	1,847	3,591	763	2,944	2,082
Steeper pitch	13,617	2,031	896	739	879	3,015	1,215	1,088
Cool roof	19,630	3,914	2,889	820	3,023	582	3,350	1,013
Renovations in buildings constructed before 2008 (more than one may apply)								
Any type of renovation	42,216	9,372	4,758	1,580	4,837	2,413	6,293	3,044
Addition or annex	13,022	1,613	1,267	485	1,075	931	3,335	775
Reduction in floorspace	1,753	599	Q	Q	Q	Q	Q	Q
Roof replacement	20,917	4,716	1,836	814	2,133	1,542	3,714	1,472
Exterior wall replacement	4,230	767	512	Q	494	Q	855	Q
Interior wall reconfiguration	21,340	6,558	2,021	647	2,310	699	2,643	1,636
Window replacement	12,265	2,882	938	499	972	764	2,418	1,133
HVAC equipment upgrade	26,779	6,326	2,307	975	3,201	1,359	4,485	1,919
Lighting upgrade	25,503	6,019	2,448	820	3,025	982	4,268	2,047
Electrical upgrade	16,160	3,743	1,527	441	1,909	773	2,588	1,255
Plumbing system upgrade	13,828	3,544	1,089	347	1,303	625	2,139	1,098
Insulation upgrade	7,607	1,662	750	373	639	439	1,243	642
Fire, safety, or security upgrade	17,196	4,610	1,460	390	1,325	748	3,183	1,169
Structural upgrade	3,913	735	Q	Q	Q	Q	574	400
Other	848	Q	Q	N	Q	Q	Q	Q
No renovations	39,154	5,931	7,238	2,805	5,590	1,948	5,143	2,155
Buildings constructed 2008 or later	5,723	649	1,081	245	902	Q	802	360

Table B12. Selected principal building activity: part 1, floorspace, 2012

Total floorspace (million square feet)								
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Energy sources (more than one may apply)								
Electricity	84,869	15,952	12,568	4,512	11,320	4,557	12,239	5,559
Natural gas	58,725	10,290	7,007	2,790	8,493	3,016	9,520	3,888
Fuel oil	20,200	5,328	1,773	733	1,119	391	2,185	1,663
District heat	5,964	1,794	Q	Q	Q	N	1,155	888
District chilled water	4,608	1,096	N	N	N	Q	1,292	880
Propane	7,706	358	1,516	555	839	487	877	858
Other	3,826	757	549	383	482	Q	806	288
Space-heating energy sources (more than one may apply)								
Electricity	49,030	10,281	6,476	2,193	8,132	2,656	6,254	2,645
Natural gas	49,511	8,555	6,499	2,758	7,435	2,671	7,967	3,337
Fuel oil	4,351	560	Q	393	306	Q	1,074	Q
District heat	5,925	1,794	Q	Q	Q	N	1,155	888
Propane	3,067	209	293	432	386	366	307	306
Other	1,010	Q	Q	370	Q	Q	Q	Q
Primary space-heating energy source								
Electricity	26,205	6,053	3,556	981	3,901	1,472	2,972	1,184
Natural gas	42,988	7,445	5,855	2,247	6,337	2,482	7,188	2,820
Fuel oil	2,542	296	Q	254	Q	Q	649	Q
District heat	5,797	1,772	Q	Q	Q	N	1,096	883
Propane	1,948	166	Q	253	Q	313	Q	270
Other	598	Q	Q	249	Q	Q	Q	Q
Cooling energy sources (more than one may apply)								
Electricity	76,034	15,179	10,059	3,758	11,121	4,271	10,673	4,629
Natural gas	732	Q	Q	N	Q	N	Q	N
District chilled water	4,608	1,096	N	N	N	Q	1,292	880
Water-heating energy sources (more than one may apply)								
Electricity	42,755	9,572	7,195	2,303	8,922	2,481	4,160	2,094
Natural gas	39,523	6,015	3,545	1,416	5,490	1,962	7,712	2,813
Fuel oil	1,911	Q	Q	Q	Q	Q	638	Q
District heat	4,551	1,368	N	Q	Q	N	842	742
Propane	1,575	Q	Q	Q	Q	Q	Q	Q
Cooking energy sources (more than one may apply)								
Electricity	25,151	3,637	669	447	4,107	1,966	5,876	1,980
Natural gas	24,770	2,799	Q	Q	4,886	1,799	5,686	1,484
Propane	2,001	Q	Q	Q	Q	Q	420	241

Table B12. Selected principal building activity: part 1, floorspace, 2012

Total floorspace (million square feet)								
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Energy end uses (more than one may apply)								
Buildings with space heating	80,078	15,753	9,987	4,157	10,794	4,511	12,099	5,323
Buildings with cooling	79,294	15,882	10,120	3,773	11,121	4,271	11,811	5,235
Buildings with water heating	79,015	15,663	10,041	3,763	10,960	4,337	11,905	5,318
Buildings with cooking	38,546	5,230	922	517	6,396	3,394	8,479	2,751
Buildings with manufacturing	5,078	684	1,996	465	529	Q	Q	Q
Buildings with electricity generation	25,642	6,027	2,326	422	2,281	Q	4,126	1,878
Percent of floorspace heated								
Not heated	7,015	198	3,091	474	536	Q	Q	236
1 to 50	10,130	758	4,737	767	914	496	Q	544
51 to 99	14,650	3,558	843	747	3,302	710	1,699	996
100	55,298	11,437	4,407	2,643	6,577	3,305	10,178	3,783
Percent of floorspace cooled								
Not cooled	7,799	Q	2,958	857	209	286	428	324
1 to 50	18,891	1,305	7,911	2,446	1,480	633	1,810	981
51 to 99	22,728	5,750	722	514	4,324	1,024	3,532	1,589
100	37,676	8,828	1,487	813	5,317	2,614	6,469	2,665
Percent lit when open								
Zero	322	N	223	Q	N	N	N	Q
1 to 50	12,628	1,732	3,750	813	695	1,665	530	728
51 to 99	34,814	6,723	3,431	1,240	6,509	1,654	5,777	2,699
100	35,726	7,497	4,881	2,304	4,116	1,236	5,932	2,093
Building never open/electricity not used	3,603	N	793	Q	Q	Q	N	Q
Percent lit during off hours								
Zero	24,746	4,290	5,462	2,074	1,415	2,515	3,764	2,114
1 to 50	50,753	10,621	6,116	2,157	8,677	2,034	8,106	2,704
51 to 100	6,926	827	519	Q	603	Q	354	644
Building always open with no "off hours"	2,443	Q	Q	Q	Q	N	Q	Q
Electricity not used	2,225	N	509	Q	Q	N	N	N
Heating equipment (more than one may apply)								
Heat pumps	11,846	2,667	1,138	356	1,419	581	2,209	727
Furnaces	8,654	1,691	1,294	497	1,423	927	564	582
Individual space heaters	20,766	3,727	3,480	1,919	2,568	859	1,750	1,560
District heat	5,925	1,794	Q	Q	Q	N	1,155	888
Boilers	22,443	4,650	841	433	1,138	1,359	6,637	1,621
Packaged heating units	49,188	8,407	7,297	2,498	9,434	2,801	6,107	3,016
Other	1,574	Q	Q	Q	872	Q	Q	Q

Table B12. Selected principal building activity: part 1, floorspace, 2012

	Total floorspace (million square feet)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Cooling equipment (more than one may apply)								
Residential-type central air conditioners	14,765	2,270	2,567	1,143	2,510	1,632	912	948
Heat pumps	12,538	2,913	1,216	414	1,716	714	2,304	661
Individual air conditioners	12,420	2,184	1,566	701	763	712	2,074	628
District chilled water	4,608	1,096	N	N	N	Q	1,292	880
Central chillers	17,041	5,050	465	Q	419	Q	4,127	1,038
Packaged air conditioning units	45,153	7,993	6,472	1,854	9,094	2,229	5,934	2,672
Swamp coolers	1,918	Q	Q	Q	415	Q	Q	Q
Other	328	Q	Q	Q	N	Q	Q	Q
Main equipment replaced since 1990 (more than one may apply)								
Heating	27,558	5,774	3,135	1,499	4,000	1,518	4,341	1,609
Cooling	30,702	6,682	3,284	1,433	4,343	1,627	4,677	1,748
Water-heating equipment								
Centralized system	47,534	8,724	5,204	2,695	4,705	2,850	7,580	3,389
Distributed system	12,688	2,934	3,449	669	1,492	711	1,269	514
Combination of centralized and distributed system	18,793	4,006	1,388	Q	4,763	776	3,057	1,415
Lighting equipment types (more than one may apply)								
Incandescent	38,406	7,541	3,094	1,026	6,646	3,015	5,004	3,035
Standard fluorescent	80,081	15,547	11,280	4,142	10,714	4,293	12,180	5,208
Compact fluorescent	53,816	11,438	4,040	1,569	8,053	3,187	8,559	4,125
High-intensity discharge (HID)	23,396	3,858	2,934	980	3,959	839	4,376	1,922
Halogen	28,059	5,598	2,438	1,024	5,925	1,540	3,069	2,172
LED	22,071	5,034	998	Q	5,118	902	2,135	1,955
Other	446	Q	N	N	Q	N	Q	Q
Refrigeration equipment (more than one may apply)								
Any refrigeration	73,645	13,979	8,584	3,626	10,328	4,243	11,319	4,956
Walk-in units	28,361	3,419	848	Q	6,088	Q	7,060	1,545
Cases or cabinets	28,719	3,969	1,027	Q	6,876	837	5,760	1,758
Large cold storage areas	4,171	Q	883	N	1,200	Q	Q	Q
Commercial ice makers	32,734	5,458	1,695	Q	5,554	1,064	6,152	2,189
Residential-type or compact units	62,381	12,888	7,545	3,145	8,831	3,789	8,956	4,309
Vending machines	43,936	8,853	4,998	1,710	7,074	449	7,666	2,714
No refrigeration	13,448	1,973	4,493	1,005	1,002	314	920	603

Table B12. Selected principal building activity: part 1, floorspace, 2012

	Total floorspace (million square feet)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Office equipment (more than one may apply)								
Desktop computers	77,063	15,652	10,176	3,812	10,959	3,531	12,078	4,978
With flat screen monitors	76,160	15,617	10,042	3,750	10,841	3,366	12,060	4,847
With multiple monitors	30,946	10,183	3,981	749	4,226	900	3,608	1,787
Laptop computers	63,486	14,372	7,930	2,437	8,418	2,790	11,055	4,035
Dedicated servers	53,369	13,118	6,637	1,794	8,029	1,476	8,774	2,986
Laser printers	54,256	12,832	7,291	2,352	7,249	1,583	8,664	3,167
Inkjet printers	36,235	6,190	4,679	2,010	5,283	2,380	5,518	2,721
FAX machines	66,682	14,084	8,917	3,376	10,377	2,473	10,318	3,802
Photocopiers	59,277	13,626	7,276	1,883	7,938	3,097	10,526	3,557
Number of desktop computers								
None	10,030	299	2,902	818	370	1,027	161	581
1 to 4	15,669	1,170	2,550	1,727	1,755	2,040	587	1,557
5 to 9	9,422	1,471	1,648	841	1,731	529	623	588
10 to 19	9,388	1,385	2,003	531	2,293	Q	563	424
20 to 49	13,094	2,303	2,320	Q	3,252	Q	1,389	800
50 to 99	8,284	2,073	918	Q	1,078	Q	2,364	358
100 to 249	9,728	2,276	648	Q	609	Q	3,487	599
250 or more	11,478	4,973	Q	N	Q	N	3,065	652
Number of laptop computers								
None	23,607	1,580	5,147	2,193	2,912	1,767	1,184	1,524
1 to 4	21,161	2,871	3,943	1,711	3,386	1,870	1,228	1,861
5 to 9	8,345	1,510	1,429	Q	1,896	549	951	434
10 to 19	8,343	1,578	1,136	Q	1,872	Q	1,110	509
20 to 49	9,643	2,458	1,070	Q	919	Q	2,705	385
50 to 99	5,234	1,416	Q	Q	Q	Q	1,906	Q
100 to 249	5,217	1,723	Q	Q	Q	N	1,907	Q
250 or more	5,542	2,817	Q	N	Q	N	1,248	Q
Number of dedicated servers								
None	33,724	2,834	6,441	2,836	3,300	3,081	3,465	2,573
1 to 4	34,097	5,745	5,189	1,703	5,539	1,414	6,085	1,845
5 to 9	6,241	1,712	879	Q	1,401	Q	995	Q
10 to 19	5,711	2,126	Q	Q	924	N	975	Q
20 to 49	3,758	1,756	Q	Q	Q	N	513	332
50 or more	3,562	1,778	Q	N	N	N	Q	Q
Number of photocopiers								
None	27,816	2,325	5,801	2,748	3,392	1,460	1,712	2,002
One	17,080	1,756	2,819	979	3,252	1,850	1,590	1,201
2 to 4	20,312	3,873	3,099	573	2,752	1,146	5,157	939
5 to 9	8,863	2,242	967	Q	1,483	Q	2,446	486
10 or more	13,022	5,755	Q	Q	451	Q	1,333	931

Table B12. Selected principal building activity: part 1, floorspace, 2012

	Total floorspace (million square feet)							
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Number of TVs or video displays								
None	24,339	3,231	7,446	1,890	1,733	1,241	2,280	1,087
One	9,990	1,871	1,866	1,157	1,311	1,001	746	506
2 to 4	16,465	3,294	2,680	1,129	2,152	1,384	1,922	1,515
5 to 9	8,148	2,389	622	Q	1,203	515	1,211	605
10 to 19	8,168	2,084	Q	Q	1,609	Q	1,909	417
20 to 49	8,058	1,404	Q	N	2,512	Q	2,261	553
50 to 99	4,378	659	Q	N	657	N	1,409	Q
100 or more	7,547	1,019	Q	N	Q	N	Q	535
Food preparation or serving areas in non-food service buildings (more than one may apply)								
Snack bar or concession stand	9,884	1,298	Q	Q	1,715	Q	2,528	1,421
Fast food or small restaurant	9,787	1,447	Q	Q	4,977	N	Q	754
Cafeteria or large restaurant	15,222	2,575	Q	N	1,245	Q	6,511	533
Commercial kitchen/food preparation area	16,150	1,197	Q	Q	2,021	1,103	4,816	1,074
Small kitchen area	14,054	1,994	490	295	1,592	2,345	2,077	1,576
Separate computer areas (more than one may apply)								
Data center or server farm	11,105	4,531	919	Q	Q	Q	1,900	691
Computer-based training room	17,723	3,988	869	Q	2,527	Q	5,956	899
Student or public computer center	14,341	693	Q	Q	1,230	Q	8,374	904
HVAC conservation features (more than one may apply)								
Economizer cycle	30,749	7,386	2,278	536	4,679	560	6,261	2,322
Regular HVAC maintenance	69,244	14,341	8,172	2,895	9,752	3,195	11,572	4,621
Building automation system (BAS) ²	37,051	8,284	1,637	602	6,262	1,063	8,736	2,643
Window and interior lighting features (more than one may apply)								
Multipaned windows	60,362	11,693	7,350	2,517	8,908	3,023	9,139	3,653
Tinted window glass	45,025	9,863	5,313	1,903	7,446	1,880	6,064	2,745
Reflective window glass	15,908	3,795	1,606	653	3,214	658	1,826	885
External overhangs or awnings	32,188	5,382	3,470	1,158	7,794	1,350	3,860	2,380
Skylights or atriums	22,261	3,725	3,776	593	3,592	728	3,914	1,690
Light scheduling	30,263	6,665	2,373	760	7,976	709	3,731	2,154
Occupancy sensors	35,871	8,606	4,273	837	6,082	639	6,278	2,381
Multi-level lighting or dimming	14,534	2,686	435	Q	3,971	859	1,934	1,222
Daylight harvesting	6,114	1,385	602	Q	1,806	Q	631	431
Demand responsive lighting	4,738	432	551	Q	2,389	Q	318	Q
Building automation system (BAS) for lighting ²	12,068	2,643	561	Q	4,744	Q	1,505	812

Table B12. Selected principal building activity: part 1, floorspace, 2012

Total floorspace (million square feet)								
	Principal building activity							
	All buildings	Office	Warehouse and storage	Service	Mercantile	Religious worship	Education	Public assembly
All buildings	87,093	15,952	13,077	4,630	11,330	4,557	12,239	5,559
Equipment usage reduced when building not in full use (more than one may apply)								
Heating	63,167	13,273	7,047	3,228	9,624	4,082	11,092	4,175
Cooling	62,516	13,422	7,012	3,019	10,129	3,843	10,556	4,053
Lighting	78,594	15,543	11,140	4,234	10,566	4,482	12,124	5,327

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: February 2015

Revised date: May 2016

Table B13. Selected principal building activity: part 2, number of buildings, 2012

	Number of buildings (thousand)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	Health care		Public order and safety
In-patient					Out-patient		
All buildings	5,557	380	177	158	10	147	84
Building floorspace (square feet)							
1,001 to 10,000	4,007	356	154	62	N	113	61
10,001 to 100,000	1,415	24	22	84	5	32	20
Over 100,000	136	N	Q	12	5	2	2
Year constructed							
Before 1946	850	70	Q	16	Q	Q	Q
1946 to 1979	1,922	125	59	68	5	53	26
1980 to 1999	1,760	119	70	49	2	53	31
2000 to 2012	1,025	65	33	25	2	26	23
Census region							
Northeast	805	62	27	27	2	21	14
Midwest	1,237	77	34	23	2	42	19
South	2,247	160	81	69	4	50	39
West	1,267	80	35	38	2	35	Q
Climate region¹							
Very cold/Cold	2,031	128	64	50	3	60	25
Mixed-humid	1,743	141	61	48	2	39	31
Mixed-dry/Hot-dry	837	51	Q	27	Q	17	Q
Hot-humid	799	49	33	31	3	28	Q
Marine	147	Q	Q	Q	Q	Q	Q
Number of floors							
One	3,836	284	140	49	Q	89	59
Two	1,158	60	23	53	Q	46	17
Three	374	29	Q	23	1	Q	Q
Four to nine	177	Q	N	30	4	2	Q
Ten or more	13	N	N	3	1	Q	Q
Elevators and escalators (more than one may apply)							
Any elevators	405	Q	Q	46	7	22	9
Number of elevators							
One	272	Q	Q	25	Q	16	Q
Two to five	118	Q	N	18	3	5	Q
Six or more	16	N	N	2	3	1	Q
Any escalators	10	N	Q	1	(*)	Q	Q
Number of workers (main shift)							
Fewer than 10	3,977	255	150	102	N	80	40
10 to 99	1,450	123	26	50	Q	60	42
100 or more	131	Q	Q	6	6	8	2

Table B13. Selected principal building activity: part 2, number of buildings, 2012

Number of buildings (thousand)							
Principal building activity							
	All buildings	Food service	Food sales	Lodging	Health care In-patient	Out-patient	Public order and safety
All buildings	5,557	380	177	158	10	147	84
Weekly operating hours							
Fewer than 49	2,495	58	Q	Q	N	79	28
49 to 84	2,008	166	31	N	N	61	Q
85 to 167	479	131	94	Q	N	Q	N
Open continuously	575	24	49	153	10	Q	54
Ownership and occupancy							
Nongovernment owned	4,781	364	177	151	7	138	Q
Owner occupied	2,466	202	93	119	5	74	Q
Leased to tenant(s)	1,745	157	69	29	Q	43	Q
Owner occupied and leased	349	Q	Q	3	1	21	Q
Unoccupied	221	N	N	N	N	N	N
Government owned	776	Q	N	7	2	9	70
Federal	33	N	N	N	(*)	Q	Q
State	185	Q	N	Q	Q	Q	Q
Local	558	Q	N	Q	2	Q	64
Party responsible for operation and maintenance of energy systems							
Building owner	4,715	292	129	153	9	129	76
Business owner or tenant	724	75	44	Q	Q	Q	Q
Property management	54	Q	Q	Q	Q	Q	N
Other	64	Q	Q	Q	Q	Q	Q
Provider of direct input on energy-related equipment purchases							
Building owner	4,876	302	135	154	9	131	75
Business owner or tenant	540	59	36	Q	Q	Q	Q
Property management	35	Q	Q	Q	Q	Q	N
Other	106	Q	Q	Q	Q	Q	Q
Number of establishments							
One	4,205	346	150	146	8	105	70
2 to 5	862	33	27	12	2	37	14
6 to 10	147	Q	Q	Q	Q	Q	N
11 to 20	68	N	N	Q	Q	Q	N
More than 20	27	N	N	Q	Q	Q	N
Currently unoccupied	248	N	N	N	N	N	N

Table B13. Selected principal building activity: part 2, number of buildings, 2012

Number of buildings (thousand)							
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	Health care		Public order and safety
In-patient					Out-patient		
All buildings	5,557	380	177	158	10	147	84
Campus or complex activity							
Not part of a campus or complex	3,683	315	164	69	4	105	65
Primary or secondary school	237	Q	N	Q	N	N	N
College or university	84	Q	N	15	Q	Q	Q
Office complex	154	Q	N	N	N	Q	Q
Retail complex	258	28	Q	Q	N	Q	N
Storage complex	314	Q	N	N	N	N	N
Religious campus or complex	197	Q	N	Q	N	N	N
Health care complex	52	Q	N	7	5	19	N
Lodging or resort complex	65	Q	N	48	N	N	N
Transportation complex	35	N	N	N	N	N	N
Government complex	104	N	N	Q	N	Q	Q
Other	371	Q	Q	Q	Q	Q	Q
Predominant exterior wall material							
Brick, stone, or stucco	2,312	202	69	91	5	87	43
Concrete (block or poured)	1,121	72	44	28	2	25	18
Concrete panels	210	Q	Q	4	1	Q	Q
Siding or shingles	905	76	37	31	Q	23	Q
Metal panels	933	Q	Q	Q	Q	Q	Q
Window glass	17	Q	Q	Q	Q	Q	N
Other	37	Q	Q	Q	Q	Q	N
No one major type	21	N	Q	Q	Q	N	N
Predominant roof material							
Metal surfacing	1,672	71	48	23	Q	22	33
Synthetic or rubber	911	75	40	25	4	26	7
Built-up	836	63	Q	15	3	25	10
Slate or tile shingles	406	36	Q	21	Q	Q	Q
Wooden materials (including shingles)	157	Q	Q	Q	Q	Q	Q
Asphalt, fiberglass, or other shingles	1,483	110	39	66	1	55	25
Concrete	51	Q	Q	Q	Q	Q	Q
Other	24	Q	N	Q	N	Q	N
No one major type	18	Q	Q	Q	Q	N	Q
Roof characteristics							
Roof tilt							
Flat	1,960	171	80	57	8	60	23
Shallow pitch	2,148	125	73	38	Q	51	Q
Steeper pitch	1,449	84	Q	63	Q	36	37
Cool roof	740	49	25	20	4	13	10

Table B13. Selected principal building activity: part 2, number of buildings, 2012

Number of buildings (thousand)							
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	Health care		Public order and safety
					In-patient	Out-patient	
All buildings	5,557	380	177	158	10	147	84
Renovations in buildings constructed before 2008 (more than one may apply)							
Any type of renovation	2,094	155	65	80	7	82	35
Addition or annex	444	33	Q	17	5	15	Q
Reduction in floorspace	71	Q	Q	Q	(*)	Q	Q
Roof replacement	987	64	Q	40	3	28	21
Exterior wall replacement	194	Q	Q	10	1	Q	Q
Interior wall reconfiguration	889	70	Q	32	3	53	13
Window replacement	560	48	Q	29	2	18	Q
HVAC equipment upgrade	1,101	83	28	39	5	47	11
Lighting upgrade	982	78	44	42	4	36	12
Electrical upgrade	747	70	Q	29	4	29	Q
Plumbing system upgrade	644	74	Q	40	3	29	Q
Insulation upgrade	382	34	Q	14	1	Q	Q
Fire, safety, or security upgrade	616	62	Q	36	4	22	Q
Structural upgrade	152	21	Q	Q	(*)	Q	Q
Other	39	N	N	Q	Q	Q	Q
No renovations	3,160	201	98	70	2	57	43
Buildings constructed 2008 or later	303	Q	Q	9	1	Q	Q
Energy sources (more than one may apply)							
Electricity	5,234	380	177	158	10	147	84
Natural gas	2,933	283	82	99	8	87	53
Fuel oil	467	Q	Q	28	9	15	34
District heat	48	Q	N	4	1	Q	Q
District chilled water	54	Q	N	Q	1	Q	Q
Propane	510	47	Q	26	2	Q	Q
Other	172	Q	Q	Q	Q	Q	Q
Space-heating energy sources (more than one may apply)							
Electricity	2,858	202	123	116	4	87	44
Natural gas	2,612	207	63	64	5	80	47
Fuel oil	270	Q	Q	Q	2	Q	Q
District heat	48	Q	N	4	1	Q	Q
Propane	342	25	Q	Q	Q	Q	Q
Other	101	Q	Q	Q	Q	Q	Q
Primary space-heating energy source							
Electricity	1,819	146	88	93	Q	58	Q
Natural gas	2,322	183	56	45	5	77	45
Fuel oil	205	Q	Q	Q	Q	Q	Q
District heat	47	Q	N	4	1	Q	Q
Propane	261	Q	Q	Q	N	Q	Q
Other	67	Q	Q	Q	Q	Q	Q

Table B13. Selected principal building activity: part 2, number of buildings, 2012

	Number of buildings (thousand)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	Health care		Public order and safety
In-patient					Out-patient		
All buildings	5,557	380	177	158	10	147	84
Cooling energy sources (more than one may apply)							
Electricity	4,413	356	165	142	9	143	74
Natural gas	12	N	N	Q	(*)	Q	Q
District chilled water	54	Q	N	Q	1	Q	Q
Water-heating energy sources (more than one may apply)							
Electricity	2,658	155	115	55	2	90	46
Natural gas	1,758	216	59	91	7	58	28
Fuel oil	77	Q	Q	Q	1	Q	Q
District heat	25	Q	N	3	1	Q	Q
Propane	142	27	Q	Q	Q	Q	Q
Cooking energy sources (more than one may apply)							
Electricity	1,010	183	79	52	5	13	38
Natural gas	740	246	38	49	7	Q	16
Propane	144	40	Q	14	Q	Q	Q
Energy end uses (more than one may apply)							
Buildings with space heating	4,722	359	160	153	9	144	81
Buildings with cooling	4,461	358	165	145	10	145	74
Buildings with water heating	4,423	379	177	158	10	146	80
Buildings with cooking	1,589	353	111	94	9	13	56
Buildings with manufacturing	259	Q	Q	Q	Q	Q	N
Buildings with electricity generation	410	Q	16	34	9	19	59
Percent of floorspace heated							
Not heated	835	Q	Q	Q	Q	Q	Q
1 to 50	697	37	Q	Q	Q	Q	Q
51 to 99	727	63	46	15	1	12	Q
100	3,298	260	105	128	8	121	66
Percent of floorspace cooled							
Not cooled	1,096	Q	Q	Q	N	Q	Q
1 to 50	1,173	41	Q	11	Q	Q	32
51 to 99	897	85	46	37	2	29	16
100	2,391	233	99	97	7	107	26
Percent lit when open							
Zero	70	N	N	Q	N	N	N
1 to 50	1,099	57	Q	51	Q	Q	Q
51 to 99	1,666	104	54	47	3	65	24
100	2,222	219	104	60	7	67	32
Building never open/electricity not used	501	N	N	N	N	N	Q

Table B13. Selected principal building activity: part 2, number of buildings, 2012

Number of buildings (thousand)							
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	Health care		Public order and safety
					In-patient	Out-patient	
All buildings	5,557	380	177	158	10	147	84
Percent lit during off hours							
Zero	2,489	136	Q	Q	Q	67	Q
1 to 50	2,441	214	99	91	6	79	46
51 to 100	202	26	28	35	3	Q	Q
Building always open with no "off hours"	102	Q	Q	16	1	N	Q
Electricity not used	323	N	N	N	N	N	N
Heating equipment (more than one may apply)							
Heat pumps	628	32	Q	39	2	21	Q
Furnaces	755	53	Q	21	(*)	22	Q
Individual space heaters	1,247	52	31	60	2	29	24
District heat	48	Q	N	4	1	Q	Q
Boilers	544	23	Q	38	6	17	14
Packaged heating units	2,802	251	111	55	5	97	43
Other	62	Q	Q	Q	Q	N	Q
Cooling equipment (more than one may apply)							
Residential-type central air conditioners	1,546	110	64	34	Q	57	23
Heat pumps	692	37	Q	36	2	26	Q
Individual air conditioners	709	48	Q	71	2	Q	Q
District chilled water	54	Q	N	Q	1	Q	Q
Central chillers	163	Q	Q	11	6	10	4
Packaged air conditioning units	1,909	188	76	40	6	66	32
Swamp coolers	109	21	Q	Q	Q	Q	Q
Other	Q	N	N	Q	Q	Q	Q
Main equipment replaced since 1990 (more than one may apply)							
Heating	1,874	156	44	74	4	57	25
Cooling	1,971	172	57	80	5	70	26
Water-heating equipment							
Centralized system	3,348	307	155	132	6	118	72
Distributed system	690	33	Q	7	Q	21	Q
Combination of centralized and distributed system	385	39	Q	19	2	Q	Q

Table B13. Selected principal building activity: part 2, number of buildings, 2012

Number of buildings (thousand)							
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	Health care		Public order and safety
In-patient					Out-patient		
All buildings	5,557	380	177	158	10	147	84
Lighting equipment types (more than one may apply)							
Incandescent	1,826	174	49	68	7	62	22
Standard fluorescent	4,649	352	169	125	10	139	72
Compact fluorescent	2,302	237	69	132	9	80	37
High-intensity discharge (HID)	525	17	Q	18	4	11	8
Halogen	905	91	23	37	4	33	10
LED	473	42	27	23	4	13	Q
Other	10	Q	N	Q	Q	N	N
Refrigeration equipment (more than one may apply)							
Any refrigeration	3,984	380	175	144	10	132	78
Walk-in units	811	293	145	37	8	Q	Q
Cases or cabinets	915	260	140	34	6	11	Q
Large cold storage areas	78	Q	19	Q	1	Q	Q
Commercial ice makers	846	259	85	61	9	9	21
Residential-type or compact units	3,388	201	58	126	9	131	71
Vending machines	960	42	44	68	9	27	24
No refrigeration	1,573	N	Q	Q	N	Q	Q
Office equipment (more than one may apply)							
Desktop computers	3,977	264	126	107	10	146	75
With flat screen monitors	3,847	246	121	103	10	146	73
With multiple monitors	911	42	Q	11	6	35	22
Laptop computers	2,730	142	59	85	9	101	56
Dedicated servers	1,748	85	55	47	8	88	24
Laser printers	2,339	108	73	66	8	103	36
Inkjet printers	2,187	180	59	55	5	75	44
FAX machines	3,185	182	107	85	9	128	50
Photocopiers	2,163	49	40	61	9	97	36
Number of desktop computers							
None	1,581	116	51	51	N	Q	Q
1 to 4	2,039	230	102	52	N	51	50
5 to 9	821	31	Q	20	Q	31	Q
10 to 19	482	Q	Q	11	Q	31	Q
20 to 49	355	Q	Q	19	Q	19	Q
50 to 99	143	N	N	3	Q	9	Q
100 to 249	92	N	N	Q	3	3	Q
250 or more	44	N	N	Q	4	1	Q

Table B13. Selected principal building activity: part 2, number of buildings, 2012

Number of buildings (thousand)							
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	Health care In-patient	Out-patient	Public order and safety
All buildings	5,557	380	177	158	10	147	84
Number of laptop computers							
None	2,827	238	118	73	Q	46	27
1 to 4	1,944	132	56	44	Q	59	42
5 to 9	350	Q	Q	13	Q	22	Q
10 to 19	181	Q	N	7	2	13	Q
20 to 49	144	N	N	7	1	4	Q
50 to 99	58	N	N	Q	1	Q	Q
100 to 249	35	N	N	Q	1	Q	Q
250 or more	20	N	N	Q	1	Q	Q
Number of dedicated servers							
None	3,809	294	121	111	1	59	60
1 to 4	1,562	82	55	44	3	82	19
5 to 9	97	Q	N	Q	1	Q	Q
10 to 19	50	N	N	Q	1	Q	Q
20 to 49	25	N	N	Q	1	Q	Q
50 or more	13	N	N	Q	2	Q	Q
Number of photocopiers							
None	3,394	331	137	97	Q	50	48
One	1,325	42	35	35	Q	55	24
2 to 4	648	Q	Q	22	Q	33	Q
5 to 9	116	N	Q	2	2	Q	Q
10 or more	75	N	N	1	5	6	4
Number of TVs or video displays							
None	2,718	111	80	Q	Q	42	Q
One	1,145	78	50	Q	N	33	Q
2 to 4	1,035	114	35	16	Q	48	30
5 to 9	314	56	Q	Q	Q	18	Q
10 to 19	154	16	Q	16	Q	Q	Q
20 to 49	106	Q	Q	27	1	2	Q
50 to 99	48	Q	N	25	3	Q	Q
100 or more	37	N	N	28	4	Q	Q
Food preparation or serving areas in non-food service buildings (more than one may apply)							
Snack bar or concession stand	153	N	40	7	2	Q	Q
Fast food or small restaurant	173	N	41	6	(*)	Q	Q
Cafeteria or large restaurant	130	N	Q	13	6	Q	Q
Commercial kitchen/food preparation area	282	N	18	46	5	Q	9
Small kitchen area	736	N	33	50	3	12	48

Table B13. Selected principal building activity: part 2, number of buildings, 2012

Number of buildings (thousand)							
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	Health care		Public order and safety
In-patient					Out-patient		
All buildings	5,557	380	177	158	10	147	84
Separate computer areas (more than one may apply)							
Data center or server farm	97	Q	N	2	4	Q	Q
Computer-based training room	244	Q	Q	5	5	5	Q
Student or public computer center	238	Q	Q	19	2	Q	Q
HVAC conservation features (more than one may apply)							
Economizer cycle	601	51	Q	19	6	23	12
Regular HVAC maintenance	3,178	260	115	110	9	104	55
Building automation system (BAS) ²	781	38	29	19	7	33	13
Window and interior lighting features (more than one may apply)							
Multipaned windows	3,012	232	96	102	8	101	56
Tinted window glass	1,875	135	62	47	7	67	29
Reflective window glass	549	33	Q	10	3	21	Q
External overhangs or awnings	1,867	198	86	62	4	65	13
Skylights or atriums	591	19	Q	20	3	21	Q
Light scheduling	918	73	38	28	2	23	10
Occupancy sensors	813	43	28	27	6	24	18
Multi-level lighting or dimming	349	58	Q	17	2	Q	Q
Daylight harvesting	125	Q	Q	Q	1	Q	Q
Demand responsive lighting	176	Q	Q	Q	Q	Q	Q
Building automation system (BAS) for lighting ²	208	Q	Q	2	(*)	Q	Q
Equipment usage reduced when building not in full use (more than one may apply)							
Heating	3,699	286	80	75	4	120	44
Cooling	3,517	286	77	70	4	122	46
Lighting	4,757	358	141	123	8	147	62

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.

(*) = Value rounds to zero in the units displayed.

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: February 2015

Revised date: May 2016

Table B14. Selected principal building activity: part 2, floorspace, 2012

	Total floorspace (million square feet)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	Health care		Public order and safety
In-patient					Out-patient		
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Building floorspace (square feet)							
1,001 to 10,000	16,941	1,429	557	299	N	510	331
10,001 to 100,000	39,940	390	562	2,739	282	927	557
Over 100,000	30,212	N	Q	2,788	2,092	345	552
Year constructed							
Before 1946	10,008	318	Q	375	Q	Q	Q
1946 to 1979	28,589	592	393	1,953	1,191	416	452
1980 to 1999	29,033	616	449	2,244	518	681	600
2000 to 2012	19,462	293	317	1,253	603	550	252
Census region							
Northeast	15,534	292	316	1,007	538	529	345
Midwest	18,919	369	174	1,058	496	366	334
South	34,279	771	399	2,302	894	548	576
West	18,360	387	363	1,459	447	339	Q
Climate region¹							
Very cold/Cold	31,898	636	540	1,999	878	876	477
Mixed-humid	27,873	636	326	1,929	790	427	597
Mixed-dry/Hot-dry	12,037	229	Q	836	268	130	Q
Hot-humid	12,831	250	135	917	364	322	Q
Marine	2,454	Q	Q	Q	Q	Q	Q
Number of floors							
One	39,809	1,205	949	697	Q	627	509
Two	20,206	388	223	912	Q	523	293
Three	8,140	162	Q	817	104	Q	Q
Four to nine	13,535	Q	N	2,194	1,486	294	Q
Ten or more	5,404	N	N	1,206	534	Q	Q
Elevators and escalators (more than one may apply)							
Any elevators	32,120	Q	Q	4,145	2,260	978	755
Number of elevators							
One	11,158	Q	Q	1,021	Q	382	Q
Two to five	12,817	Q	N	1,921	430	356	Q
Six or more	8,145	N	N	1,203	1,775	240	Q
Any escalators	3,654	N	Q	720	141	Q	Q
Number of workers (main shift)							
Fewer than 10	26,724	941	583	1,515	N	357	277
10 to 99	37,613	820	632	2,848	Q	812	709
100 or more	22,756	Q	Q	1,463	2,210	612	454

Table B14. Selected principal building activity: part 2, floorspace, 2012

Total floorspace (million square feet)

	Principal building activity						
	All buildings	Food service	Food sales	Lodging	Health care		Public order and safety
					In-patient	Out-patient	
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Weekly operating hours							
Fewer than 49	24,049	284	Q	Q	N	469	219
49 to 84	36,396	783	245	N	N	1,084	Q
85 to 167	9,395	640	702	Q	N	Q	N
Open continuously	17,253	113	281	5,733	2,374	Q	957
Ownership and occupancy							
Nongovernment owned	67,550	1,702	1,252	5,360	1,900	1,623	Q
Owner occupied	30,637	1,008	612	3,656	1,247	760	Q
Leased to tenant(s)	26,115	656	448	1,130	Q	381	Q
Owner occupied and leased	8,873	Q	Q	574	450	482	Q
Unoccupied	1,925	N	N	N	N	N	N
Government owned	19,543	Q	N	466	475	158	1,274
Federal	1,573	N	N	N	104	Q	Q
State	5,539	Q	N	Q	156	Q	Q
Local	12,431	Q	N	Q	214	Q	1,019
Party responsible for operation and maintenance of energy systems							
Building owner	73,702	1,409	849	5,292	2,198	1,632	1,394
Business owner or tenant	11,309	352	354	Q	Q	Q	Q
Property management	1,250	Q	Q	Q	Q	Q	N
Other	832	Q	Q	Q	Q	Q	Q
Provider of direct input on energy-related equipment purchases							
Building owner	76,271	1,469	881	5,447	2,185	1,617	1,355
Business owner or tenant	8,256	275	316	Q	Q	Q	Q
Property management	880	Q	Q	Q	Q	Q	N
Other	1,686	Q	Q	Q	Q	Q	Q
Number of establishments							
One	54,994	1,570	942	4,778	1,603	917	927
2 to 5	17,756	249	292	947	546	609	512
6 to 10	4,425	Q	Q	Q	Q	Q	N
11 to 20	3,704	N	N	Q	Q	Q	N
More than 20	3,821	N	N	Q	Q	Q	N
Currently unoccupied	2,393	N	N	N	N	N	N

Table B14. Selected principal building activity: part 2, floorspace, 2012

Total floorspace (million square feet)

	Principal building activity						
	All buildings	Food service	Food sales	Lodging	Health care		Public order and safety
					In-patient	Out-patient	
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Campus or complex activity							
Not part of a campus or complex	52,275	1,418	1,121	3,196	528	1,163	762
Primary or secondary school	4,616	Q	N	Q	N	N	N
College or university	4,068	Q	N	637	Q	Q	Q
Office complex	3,456	Q	N	N	N	Q	Q
Retail complex	5,159	170	Q	Q	N	Q	N
Storage complex	3,212	Q	N	N	N	N	N
Religious campus or complex	1,932	Q	N	Q	N	N	N
Health care complex	3,362	Q	N	529	1,811	450	N
Lodging or resort complex	1,295	Q	N	1,156	N	N	N
Transportation complex	554	N	N	N	N	N	N
Government complex	2,107	N	N	Q	N	Q	Q
Other	5,057	Q	Q	Q	Q	Q	Q
Predominant exterior wall material							
Brick, stone, or stucco	40,463	1,021	383	3,349	1,410	1,075	695
Concrete (block or poured)	20,726	335	505	1,318	417	250	434
Concrete panels	8,693	Q	Q	608	316	Q	Q
Siding or shingles	5,750	347	153	429	Q	198	Q
Metal panels	8,673	Q	Q	Q	Q	Q	Q
Window glass	1,340	Q	Q	Q	Q	Q	N
Other	856	Q	Q	Q	Q	Q	N
No one major type	592	N	Q	Q	Q	N	N
Predominant roof material							
Metal surfacing	15,916	368	323	348	Q	177	222
Synthetic or rubber	25,817	372	315	1,744	1,044	705	191
Built-up	21,835	275	Q	1,006	970	420	525
Slate or tile shingles	4,306	212	Q	588	Q	Q	Q
Wooden materials (including shingles)	1,139	Q	Q	Q	Q	Q	Q
Asphalt, fiberglass, or other shingles	15,104	480	250	1,913	204	376	301
Concrete	1,642	Q	Q	Q	Q	Q	Q
Other	678	Q	N	Q	N	Q	N
No one major type	657	Q	Q	Q	Q	N	Q
Roof characteristics							
Roof tilt							
Flat	49,623	770	660	3,107	2,205	1,142	838
Shallow pitch	23,853	612	513	822	Q	368	Q
Steeper pitch	13,617	438	Q	1,897	Q	271	345
Cool roof	19,630	237	235	1,280	946	287	347

Table B14. Selected principal building activity: part 2, floorspace, 2012

	Total floorspace (million square feet)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	Health care		Public order and safety
In-patient					Out-patient		
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Renovations in buildings constructed before 2008 (more than one may apply)							
Any type of renovation	42,216	815	456	3,049	1,838	907	616
Addition or annex	13,022	186	Q	1,011	1,285	179	Q
Reduction in floorspace	1,753	Q	Q	Q	180	Q	Q
Roof replacement	20,917	352	Q	1,573	1,167	327	322
Exterior wall replacement	4,230	Q	Q	246	251	Q	Q
Interior wall reconfiguration	21,340	400	Q	1,099	1,366	611	337
Window replacement	12,265	249	Q	1,040	624	230	Q
HVAC equipment upgrade	26,779	450	213	1,947	1,502	547	346
Lighting upgrade	25,503	450	363	1,790	1,467	452	286
Electrical upgrade	16,160	394	Q	1,035	1,131	248	Q
Plumbing system upgrade	13,828	424	Q	1,340	881	219	Q
Insulation upgrade	7,607	201	Q	622	505	Q	Q
Fire, safety, or security upgrade	17,196	362	Q	1,538	1,309	259	Q
Structural upgrade	3,913	127	Q	Q	252	Q	Q
Other	848	N	N	Q	Q	Q	Q
No renovations	39,154	891	728	2,374	244	622	758
Buildings constructed 2008 or later	5,723	Q	Q	403	292	Q	Q
Energy sources (more than one may apply)							
Electricity	84,869	1,819	1,252	5,826	2,374	1,781	1,440
Natural gas	58,725	1,394	846	4,918	2,113	1,179	1,007
Fuel oil	20,200	Q	Q	2,051	2,257	520	908
District heat	5,964	Q	N	630	576	Q	Q
District chilled water	4,608	Q	N	Q	477	Q	Q
Propane	7,706	237	Q	883	225	Q	Q
Other	3,826	Q	Q	Q	Q	Q	Q
Space-heating energy sources (more than one may apply)							
Electricity	49,030	1,017	883	3,878	1,008	1,076	643
Natural gas	49,511	1,023	667	3,153	1,627	989	851
Fuel oil	4,351	Q	Q	Q	430	Q	Q
District heat	5,925	Q	N	621	563	Q	Q
Propane	3,067	124	Q	Q	Q	Q	Q
Other	1,010	Q	Q	Q	Q	Q	Q
Primary space-heating energy source							
Electricity	26,205	695	461	2,814	160	658	Q
Natural gas	42,988	892	630	2,086	1,517	900	747
Fuel oil	2,542	Q	Q	Q	Q	Q	Q
District heat	5,797	Q	N	594	550	Q	Q
Propane	1,948	Q	Q	Q	N	Q	Q
Other	598	Q	Q	Q	Q	Q	Q

Table B14. Selected principal building activity: part 2, floorspace, 2012

	Total floorspace (million square feet)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	Health care		Public order and safety
In-patient					Out-patient		
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Cooling energy sources (more than one may apply)							
Electricity	76,034	1,668	1,190	5,308	2,227	1,739	1,358
Natural gas	732	N	N	Q	176	Q	Q
District chilled water	4,608	Q	N	Q	477	Q	Q
Water-heating energy sources (more than one may apply)							
Electricity	42,755	750	776	1,122	401	908	635
Natural gas	39,523	1,026	672	4,267	1,688	899	742
Fuel oil	1,911	Q	Q	Q	248	Q	Q
District heat	4,551	Q	N	573	489	Q	Q
Propane	1,575	135	Q	Q	Q	Q	Q
Cooking energy sources (more than one may apply)							
Electricity	25,151	847	651	2,250	1,564	388	622
Natural gas	24,770	1,263	588	3,167	1,826	Q	455
Propane	2,001	213	Q	362	Q	Q	Q
Energy end uses (more than one may apply)							
Buildings with space heating	80,078	1,762	1,196	5,696	2,354	1,754	1,391
Buildings with cooling	79,294	1,712	1,190	5,700	2,374	1,774	1,384
Buildings with water heating	79,015	1,817	1,252	5,821	2,374	1,779	1,341
Buildings with cooking	38,546	1,738	943	4,293	2,230	419	912
Buildings with manufacturing	5,078	Q	Q	Q	Q	Q	N
Buildings with electricity generation	25,642	Q	394	2,781	2,266	688	1,185
Percent of floorspace heated							
Not heated	7,015	Q	Q	Q	Q	Q	Q
1 to 50	10,130	185	Q	Q	Q	Q	Q
51 to 99	14,650	368	405	938	269	166	Q
100	55,298	1,209	743	4,572	2,069	1,495	1,200
Percent of floorspace cooled							
Not cooled	7,799	Q	Q	Q	N	Q	Q
1 to 50	18,891	184	Q	377	Q	Q	290
51 to 99	22,728	449	576	1,764	682	339	615
100	37,676	1,080	502	3,559	1,664	1,356	479
Percent lit when open							
Zero	322	N	N	Q	N	N	N
1 to 50	12,628	275	Q	1,059	Q	Q	Q
51 to 99	34,814	596	349	2,596	958	737	578
100	35,726	949	815	2,163	1,392	938	650
Building never open/electricity not used	3,603	N	N	N	N	N	Q

Table B14. Selected principal building activity: part 2, floorspace, 2012

Total floorspace (million square feet)							
Principal building activity							
	All buildings	Food service	Food sales	Lodging	Health care		Public order and safety
					In-patient	Out-patient	
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Percent lit during off hours							
Zero	24,746	618	Q	Q	Q	494	Q
1 to 50	50,753	1,055	654	3,457	1,151	1,200	1,075
51 to 100	6,926	127	407	1,724	956	Q	Q
Building always open with no "off hours"	2,443	Q	Q	523	240	N	Q
Electricity not used	2,225	N	N	N	N	N	N
Heating equipment (more than one may apply)							
Heat pumps	11,846	146	Q	1,259	506	233	Q
Furnaces	8,654	266	Q	638	124	133	Q
Individual space heaters	20,766	256	336	2,168	501	466	253
District heat	5,925	Q	N	621	563	Q	Q
Boilers	22,443	145	Q	2,105	1,698	588	466
Packaged heating units	49,188	1,296	944	2,561	1,073	1,012	601
Other	1,574	Q	Q	Q	Q	N	Q
Cooling equipment (more than one may apply)							
Residential-type central air conditioners	14,765	471	357	749	Q	349	248
Heat pumps	12,538	189	Q	1,124	515	223	Q
Individual air conditioners	12,420	204	Q	2,349	537	Q	Q
District chilled water	4,608	Q	N	Q	477	Q	Q
Central chillers	17,041	Q	Q	1,658	1,883	572	416
Packaged air conditioning units	45,153	954	748	2,379	1,385	989	804
Swamp coolers	1,918	85	Q	Q	Q	Q	Q
Other	328	N	N	Q	Q	Q	Q
Main equipment replaced since 1990 (more than one may apply)							
Heating	27,558	830	305	2,069	522	436	378
Cooling	30,702	847	317	2,581	912	563	435
Water-heating equipment							
Centralized system	47,534	1,449	883	4,418	1,419	1,211	1,139
Distributed system	12,688	130	Q	369	Q	354	Q
Combination of centralized and distributed system	18,793	237	Q	1,034	860	Q	Q

Table B14. Selected principal building activity: part 2, floorspace, 2012

	Total floorspace (million square feet)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	Health care		Public order and safety
In-patient					Out-patient		
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Lighting equipment types (more than one may apply)							
Incandescent	38,406	924	443	3,585	1,745	646	623
Standard fluorescent	80,081	1,671	1,232	5,409	2,373	1,701	1,375
Compact fluorescent	53,816	1,177	560	5,258	2,260	1,275	1,086
High-intensity discharge (HID)	23,396	121	Q	1,848	1,217	231	404
Halogen	28,059	496	271	2,696	1,452	423	416
LED	22,071	275	323	2,024	1,647	598	360
Other	446	Q	N	Q	Q	N	N
Refrigeration equipment (more than one may apply)							
Any refrigeration	73,645	1,819	1,248	5,713	2,374	1,686	1,384
Walk-in units	28,361	1,524	1,026	3,126	2,216	Q	Q
Cases or cabinets	28,719	1,278	1,091	2,754	1,890	351	Q
Large cold storage areas	4,171	Q	285	Q	311	Q	Q
Commercial ice makers	32,734	1,338	688	4,303	2,293	598	521
Residential-type or compact units	62,381	929	505	4,554	2,059	1,619	1,203
Vending machines	43,936	207	670	4,286	2,297	936	944
No refrigeration	13,448	N	Q	Q	N	Q	Q
Office equipment (more than one may apply)							
Desktop computers	77,063	1,387	1,040	5,373	2,374	1,773	1,411
With flat screen monitors	76,160	1,303	1,032	5,328	2,369	1,773	1,402
With multiple monitors	30,946	245	Q	1,112	1,854	752	719
Laptop computers	63,486	787	391	4,323	2,312	1,531	1,152
Dedicated servers	53,369	486	712	3,496	2,141	1,067	920
Laser printers	54,256	640	776	3,884	2,042	1,375	933
Inkjet printers	36,235	983	431	2,263	923	737	757
FAX machines	66,682	969	993	4,468	2,104	1,643	1,182
Photocopiers	59,277	360	492	3,942	2,267	1,459	1,092
Number of desktop computers							
None	10,030	432	212	452	N	Q	Q
1 to 4	15,669	1,118	477	1,183	N	224	360
5 to 9	9,422	214	Q	824	Q	165	Q
10 to 19	9,388	Q	Q	706	Q	276	Q
20 to 49	13,094	Q	Q	1,336	Q	342	Q
50 to 99	8,284	N	N	486	118	278	Q
100 to 249	9,728	N	N	Q	370	330	Q
250 or more	11,478	N	N	Q	1,746	157	Q

Table B14. Selected principal building activity: part 2, floorspace, 2012

Total floorspace (million square feet)

	Principal building activity						
	All buildings	Food service	Food sales	Lodging	Health care		Public order and safety
					In-patient	Out-patient	
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Number of laptop computers							
None	23,607	1,033	860	1,502	Q	250	288
1 to 4	21,161	674	329	1,330	Q	434	363
5 to 9	8,345	Q	Q	613	Q	177	Q
10 to 19	8,343	Q	N	684	306	354	Q
20 to 49	9,643	N	N	804	295	258	Q
50 to 99	5,234	N	N	Q	316	Q	Q
100 to 249	5,217	N	N	Q	459	Q	Q
250 or more	5,542	N	N	Q	701	Q	Q
Number of dedicated servers							
None	33,724	1,333	540	2,330	233	715	519
1 to 4	34,097	467	712	2,601	373	731	455
5 to 9	6,241	Q	N	Q	263	Q	Q
10 to 19	5,711	N	N	Q	276	Q	Q
20 to 49	3,758	N	N	Q	472	Q	Q
50 or more	3,562	N	N	Q	757	Q	Q
Number of photocopiers							
None	27,816	1,459	759	1,884	107	322	348
One	17,080	292	375	1,324	Q	298	294
2 to 4	20,312	Q	Q	1,494	Q	531	Q
5 to 9	8,863	N	Q	358	163	Q	Q
10 or more	13,022	N	N	766	1,967	514	498
Number of TVs or video displays							
None	24,339	458	508	Q	Q	275	Q
One	9,990	266	300	Q	N	171	Q
2 to 4	16,465	568	231	158	Q	531	351
5 to 9	8,148	341	Q	Q	Q	269	Q
10 to 19	8,168	123	Q	324	Q	Q	Q
20 to 49	8,058	Q	Q	514	142	242	Q
50 to 99	4,378	Q	N	894	253	Q	Q
100 or more	7,547	N	N	3,312	1,855	Q	Q
Food preparation or serving areas in non-food service buildings (more than one may apply)							
Snack bar or concession stand	9,884	N	357	934	913	Q	Q
Fast food or small restaurant	9,787	N	272	1,319	431	Q	Q
Cafeteria or large restaurant	15,222	N	Q	1,842	1,906	Q	Q
Commercial kitchen/food preparation area	16,150	N	447	2,954	1,701	Q	401
Small kitchen area	14,054	N	189	1,912	667	302	403

Table B14. Selected principal building activity: part 2, floorspace, 2012

	Total floorspace (million square feet)						
	Principal building activity						
	All buildings	Food service	Food sales	Lodging	Health care		Public order and safety
In-patient					Out-patient		
All buildings	87,093	1,819	1,252	5,826	2,374	1,781	1,440
Separate computer areas (more than one may apply)							
Data center or server farm	11,105	Q	N	600	1,478	Q	Q
Computer-based training room	17,723	Q	Q	639	1,503	251	Q
Student or public computer center	14,341	Q	Q	1,443	817	Q	Q
HVAC conservation features (more than one may apply)							
Economizer cycle	30,749	299	Q	2,035	1,856	798	573
Regular HVAC maintenance	69,244	1,313	954	5,035	2,368	1,557	1,280
Building automation system (BAS) ²	37,051	256	456	2,249	2,201	850	618
Window and interior lighting features (more than one may apply)							
Multipaned windows	60,362	1,209	856	4,598	2,180	1,493	1,064
Tinted window glass	45,025	655	414	2,424	1,774	1,090	793
Reflective window glass	15,908	200	Q	835	1,052	394	Q
External overhangs or awnings	32,188	967	631	2,121	1,092	577	337
Skylights or atriums	22,261	130	Q	1,307	1,220	300	Q
Light scheduling	30,263	383	642	2,101	1,029	566	465
Occupancy sensors	35,871	276	318	2,112	1,744	545	684
Multi-level lighting or dimming	14,534	360	Q	1,413	826	Q	Q
Daylight harvesting	6,114	Q	Q	Q	350	Q	Q
Demand responsive lighting	4,738	Q	Q	Q	Q	Q	Q
Building automation system (BAS) for lighting ²	12,068	Q	Q	319	327	Q	Q
Equipment usage reduced when building not in full use (more than one may apply)							
Heating	63,167	1,411	670	2,870	1,238	1,314	711
Cooling	62,516	1,386	604	3,023	1,228	1,342	780
Lighting	78,594	1,734	943	4,838	2,076	1,777	1,314

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.