Release date: May 2016

	consumption			Total floorspace of buildings using natural gas (million square feet)			Natural gas energy inten (cubic feet/s		
	New England	Middle Atlantic	East North Central	New	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All buildings	108	379	482	2,241	8,827	10,790	48.1	43.0	44.6
Building floorspace (square feet)									
1,001 to 5,000	Q	35	43	Q	384	745	Q	90.5	57.5
5,001 to 10,000	Q	25	55	Q	449	931	Q	55.6	59.5
10,001 to 25,000	12	47	58	459	1,149	1,530	25.6	40.7	38.0
25,001 to 50,000	Q	30	85	Q	830	1,928	Q	36.2	43.9
50,001 to 100,000	14	71	73	330	1,789	1,485	41.9	39.9	49.4
100,001 to 200,000	8	93	49	230	1,925	1,344	35.9	48.1	36.6
200,001 to 500,000	34	42	78	492	1,225	1,886	68.2	34.1	41.6
Over 500,000	Q	37	40	Q	1,077	941	Q	34.3	42.1
Principal building activity									
Education	Q	60	84	Q	1,247	1,979	Q	48.5	42.5
Food sales	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food service	Q	20	35	Q	116	208	Q	169.4	170.2
Health care	Q	50	41	Q	745	460	Q	66.8	88.4
Inpatient	Q	36	36	Q	337	306	Q	106.1	116.3
Outpatient	Q	14	5	Q	407	154	Q	34.2	33.2
Lodging	Q	28	32	Q	681	620	Q	41.0	51.5
Mercantile	Q	43	68	Q	1,000	1,429	Q	43.3	47.4
Retail (other than mall)	Q	12	26	Q	495	689	Q	25.2	37.3
Enclosed and strip malls	Q	31	42	Q	505	740	Q	61.0	56.7
Office	11	82	68	399	2,304	1,969	28.1	35.4	34.6
Public assembly	Q	22	42	Q	523	993	Q	42.4	41.8
Public order and safety	Q	Q	Q	Q	Q	Q	Q	Q	Q
Religious worship	Q	15	21	Q	560	484	Q	26.3	43.2
Service	Q	17	34	Q	222	803	Q	76.8	41.8
Warehouse and storage	Q	17	29	Q	949	1,169	Q	17.9	24.7
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year constructed									
Before 1920	Q	17	22	Q	725	491	Q	24.0	44.7
1920 to 1945	Q	44	40	Q	1,048	998	Q	41.6	40.4
1946 to 1959	Q	50	47	Q	876	1,078	Q	57.4	43.6
1960 to 1969	Q	52	63	Q	1,464	1,346	Q	35.5	46.5
1970 to 1979	11	76	73	287	1,266	1,562	39.1	59.7	46.5
1980 to 1989	10	32	80	326	822	1,541	31.9	39.2	52.2
1990 to 1999	Q	63	62	Q	1,282	1,619	Q	48.8	38.1
2000 to 2003	Q	18	35	Q	563	874	Q	31.6	40.2
2004 to 2007	Q	Q	27	Q	Q	743	Q	Q	36.9
2008 to 2012	Q	Q	32		Q	539		Q	60.1

	Total natural consumptior (billion cubic	ł	Total floorsp puildings usi million squa	ng natural ga	Natural gas energy intensity (cubic feet/square foot)				
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All buildings	108	379	482	2,241	8,827	10,790	48.1	43.0	44.6
Climate region ¹									
Very cold/Cold	108	215	452	2,241	5,018	9,944	48.1	42.9	45.5
Mixed-humid	N	164	Q	N	3,809	Q	N	43.1	34.9
Mixed-dry/Hot-dry	N	N	N	N	N	N	N	N	N
Hot-humid	N	N	N	N	N	N	N	N	N
Marine	Ν	N	N	N	N	N	N	N	N
Number of floors									
One	22	98	204	426	2,144	4,366	51.7	45.7	46.6
Two	29	113	108	789	2,357	2,863	36.2	48.0	37.6
Three	13	43	69	379	1,231	1,402	34.3	35.0	49.5
Four to nine	35	97	75	523	2,140	1,519	66.1	45.5	49.6
Ten or more	Q	28	26	Q	955	640	Q	29.2	40.0
Number of workers (main shift)									
Fewer than 5	5	44	63	240	998	1,734	21.7	44.4	36.1
5 to 9	Q	25	39	213	646	1,004	45.3	38.0	38.6
10 to 19	Q	28	70	Q	844	1,174	Q	33.4	59.7
20 to 49	Q	44	92	Q	1,045	2,094	Q	42.4	43.8
50 to 99	Q	68	89	Q	1,443	1,843	Q	47.2	48.1
100 to 249	25	75	52	527	1,671	1,422	48.3	44.7	36.9
250 or more	21	95	77	312	2,180	1,518	66.4	43.7	50.9
Weekly operating hours									
Fewer than 40	Q	12	28	Q	411	828	Q	30.1	33.9
40 to 48	6	38	64	256	1,197	1,832	24.9	31.5	34.8
49 to 60	13	60	90	521	1,952	2,468	24.5	30.5	36.5
61 to 84	27	87	115	694	1,906	2,301	39.0	45.9	49.9
85 to 167	Q	66	65	Q	1,236	1,185	Q	53.7	55.2
Open continuously	30	116	119	386	2,124	2,175	77.9	54.6	54.9
Ownership and occupancy									
Nongovernment owned	86	272	368	1,711	6,805	7,865	50.4	39.9	46.8
Owner occupied	28	143	198	601	3,185	3,945	45.8	44.9	50.1
Leased to tenant(s)	30	101	113	661	2,643	2,714	44.8	38.1	41.8
Owner occupied and leased	29	27	56	421	945	1,127	69.0	28.9	49.3
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government owned	22	108	114	530	2,022	2,924	40.9	53.3	38.9
Federal	N	Q	Q	N	Q	Q	N	Q	Q
State	Q	Q	31	Q	809	667	Q	71.7	46.6
Local	20	47	78	444	1,154	2,063	45.1	40.7	37.6
Party responsible for operation and maintenance of energy									
systems						0.55			
Building owner	88	309	423	1,807	7,541	9,384	48.9	41.0	45.1
Business owner or tenant	12	63	51	347	1,074	1,153	33.2	58.4	44.3
Property management	Q	Q	Q	Q	Q	Q	Q	Q	Q

	Total natural consumptior (billion cubic	1		Total floorsp buildings usin (million squa	ng natural g	as	Natural gas energy inten (cubic feet/s		
	New England	Middle Atlantic	East North Central	New	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All buildings	108	379	482	2,241	8,827	10,790	48.1	43.0	44.6
Provider of direct input on energy- related equipment purchases									
Building owner	91	315	431	1,867	7,629	9,569	48.8	41.3	45.1
Business owner or tenant	Q	51	38	Q	830	884	Q	61.2	43.5
Property management	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Number of establishments									
One	54	275	316	1,235	5,598	7,021	43.8	49.2	45.0
2 to 5	31	62	112	511	1,694	2,396	60.9	36.5	46.9
6 to 10	Q	12	20	Q	435	518	Q	27.6	38.6
11 to 20	Q	19	21		458	354	Q	41.8	59.5
More than 20	Q	11	11		610	420	Q	17.6	26.3
Currently unoccupied	Q	Q	Q		Q	Q		Q	Q
Predominant exterior wall material									
Brick, stone, or stucco	65	193	269	1,351	4,694	5,371	48.0	41.1	50.0
Concrete (block or poured)	18	99	108		2,289	2,684	43.6	43.4	40.2
Concrete panels	Q	26	47	Q	556	, 968	Q	46.7	48.2
Siding or shingles	Q	13	29		366	653	Q	35.8	44.5
Metal panels	Q	Q	18		388	625	Q	Q	28.4
Window glass	Q	Q	Q		Q	Q		Q	Q
Other	N	Q	Q		Q	Q		Q	Q
No one major type	Q	Q	Q		Q	Q		Q	Q
Predominant roof material									
Metal surfacing	Q	18	41	Q	683	1,187	Q	26.7	34.3
Synthetic or rubber	76	137	202	1,385	3,233	4,463	55.1	42.3	45.3
Built-up	11	126	110		2,642	2,519	36.2	47.8	43.5
Slate or tile shingles	Q	24	10	Q	442	254	Q	54.2	39.4
Wooden materials (including									
shingles)	Q	Q	Q	Q	Q	Q	Q	Q	Q
Asphalt, fiberglass, or									
other shingles	10	54	107	268	1,427	2,041	38.2	37.8	52.2
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No one major type	Q	Q	Q	Q	Q	Q	Q	Q	Q
Roof characteristics									
Roof tilt									
Flat	73	284	293	1,572	6,328	6,373	46.5	44.9	46.1
Shallow pitch	23	52	100	339	1,117	2,612	66.9	46.2	38.3
Steeper pitch	Q	44	88	329	1,382	1,805	36.5	31.8	48.7
Cool roof	18	109	113	427	1,970	2,337	43.1	55.3	48.4

	Total natural consumption (billion cubic	1	ł	Total floorsp buildings usi million squa	ng natural gas	i e			
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All buildings	108	379	482	2,241	8,827	10,790	48.1	43.0	44.6
Renovations in buildings constructed before 2008 (more than one may apply)									
Any type of renovation	76	233	254	1,517	5,427	5,758	50.1	42.8	44.1
Addition or annex	30	68	101	535	1,413	2,171	55.3	48.2	46.6
Reduction in floorspace	Q	Q	Q	Q	2, 123 Q	_,_,1	Q	Q	Q
Roof replacement	47	144	141	804	3,270	2,932	58.6	44.2	48.1
Exterior wall replacement	Q	17	19	Q	554	525	Q	30.9	37.0
Interior wall reconfiguration	36	120	130	983	3,008	3,008	37.1	39.8	43.3
Window replacement	31	63	73	569	1,793	1,821	53.9	34.9	40.1
HVAC equipment upgrade	45	171	164	1,073	3,927	4,023	41.8	43.6	40.1
Lighting upgrade	59	138	164	1,075	3,542	3,625	55.0	38.9	45.5
Electrical upgrade	35	103	105	748	2,407	2,182	47.3	43.0	45.8
Plumbing system upgrade	37	94	89	694	1,985	2,182	52.8	43.0	43.8
Insulation upgrade	57 15	94 46	45	437	1,985 941	1,032	34.3	47.4	43.8
Fire, safety, or security upgrade	43	108	103	879	2,661	2,333	49.0	40.5	44.0
Structural upgrade	Q	11	16	Q	310	509	Q	36.0	31.7
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
No renovations	30	126	195	654	2,818	4,493	45.5	44.7	43.5
Buildings constructed 2008 or later Energy sources (more than one may apply)	Q	Q	32	Q	Q	539	Q	Q	60.1
Electricity	108	379	482	2,241	8,827	10,790	48.1	43.0	44.6
Natural gas	108	379	482	2,241	8,827	10,790	48.1	43.0	44.6
Fuel oil	38	115	106	558	2,950	2,036	68.6	39.1	52.2
District heat	Q	Q	Q	Q	897	220	Q	Q	18.2
District chilled water	Q	Q	5	Q	Q	220	Q	Q	20.8
Propane	Q	13	32	Q	419	555	Q	30.4	57.5
Other	Q	Q	15	Q	598	439	Q	48.4	33.4
Space-heating energy sources									
Natural gas	103	337	473	1,990	7,362	10,122	51.7	45.8	46.7
Natural gas main	98	318	453	1,811	6,555	9,587	54.3	48.6	47.3
Natural gas secondary	Q	19	19	Q	806	535	Q	23.0	36.2
Other excluding natural gas	5	Q	9	251	1,458	645	20.0	Q	13.7
Buildings without heating	N	2	(*)	N	7	23	N	214.2	10.1
Primary space-heating									
energy source									
Electricity	Q	21	25	Q	1,007	934	Q	21.4	26.4
Natural gas	98	318	453	1,811	6,555	9,587	54.3	48.6	47.3
Fuel oil	Q	4	N	Q	336	N	Q	Q	N
District heat	Q	Q	Q	Q	870	205	Q	Q	Q
Propane	Q	Q	N	Q	Q	N	Q	Q	N
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q

	Total natural consumptior (billion cubic	I	Total floorsp puildings usi million squa	ng natural g	as e	Natural gas energy intensity (cubic feet/square foot)			
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All buildings	108	379	482	2,241	8,827	10,790	48.1	43.0	44.6
Cooling energy sources									
Natural gas	Q	20	Q	Q	216	Q	Q	93.6	Q
Other excluding natural gas	98	344	448	2,071	8,223	10,148	47.2	41.9	44.2
Buildings without cooling	Q	15	15	Q	387	425	Q	38.2	35.5
Water-heating energy sources									
Natural gas	90	320	400	1,492	6,042	7,910	60.0	53.0	50.6
Other excluding natural gas	17	57	78	684	2,676	2,716	25.5	21.2	28.6
Buildings without water heating	Q	Q	4	Q	Q	163	Q	Q	22.5
Cooking energy sources									
Natural gas	52	229	231	1,015	4,341	4,293	51.4	52.8	53.7
Other excluding natural gas	Q	27	53	Q	935	1,316	Q	28.9	40.3
Buildings without cooking	50	123	198	1,049	3,550	, 5,181	48.1	34.6	38.2
Energy end uses									
(more than one may apply)									
Buildings with space heating	108	378	481	2,241	8,819	10,767	48.1	42.8	44.7
Buildings with cooling	105	365	466	2,160	8,439	10,364	48.6	43.2	45.0
Buildings with water heating	107	377	478	2,176	8,718	10,626	49.2	43.2	45.0
Buildings with cooking	57	256	284	1,192	5,276	5,609	48.2	48.6	50.6
Buildings with manufacturing	Q	15	18	Q	462	657	Q	33.2	28.0
Buildings with electricity									
generation	59	182	154	918	3,941	3,510	63.9	46.1	43.9
Percent of floorspace heated									
Not heated	N	Q	Q	N	Q	Q	N	Q	Q
1 to 50	Q	13	10	Q	508	503	Q	26.0	19.2
51 to 99	40	62	68	444	1,651	1,478	91.1	37.5	45.8
100	64	303	404	1,701	6,660	8,786	37.4	45.4	46.0
Percent of floorspace cooled									
Not cooled	Q	15	15	Q	387	425	Q	38.2	35.5
1 to 50	36	74	123	615	2,089	3,006	58.0	35.3	41.0
51 to 99	39	140	144	722	2,978	3,188	53.6	47.1	45.3
100	31	151	199	823	3,372	4,171	37.1	44.7	47.7
Heating equipment									
(more than one may apply)									
Heat pumps	13	31	20	291	803	493	43.0	38.7	39.7
Furnaces	Q	27	70	Q	812	1,615	Q	32.8	43.3
Individual space heaters	43	92	129	830	2,698	3,361	51.8	34.1	38.2
District heat	Q	Q	Q	Q	897	220	Q	Q	18.2
Boilers	67	217	244	1,038	4,149	4,787	64.2	52.3	50.9
Packaged heating units	58	183	299	1,359	4,721	6,585	42.4	38.8	45.3
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q

	consumption			Total floorspace of buildings using natural gas (million square feet)			Natural gas energy inten (cubic feet/s		
	New England	Middle Atlantic	East North Central	New	Middle Atlantic	East North Central	New	Middle Atlantic	East North Central
All buildings	108	379	482	2,241	8,827	10,790	48.1	43.0	44.6
Cooling equipment (more than one may apply)									
Residential-type central air									
conditioners	10	54	113	240	1,074	2,760	40.2	50.4	41.1
Heat pumps	13	32	22	309	884	458	41.0	35.7	47.8
Individual air conditioners	43	103	71	581	2,256	1,660	73.2	45.6	42.5
District chilled water	Q	Q	5	Q	Q	220	Q	Q	20.8
Central chillers	31	97	142	511	2,228	3,021	59.9	43.7	47.2
Packaged air conditioning units	73	200	299	1,399	5,388	6,192	52.0	37.0	48.2
Swamp coolers	N	3	6	N	18	74	N	184.1	81.3
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q
Main equipment replaced since 1990 (more than one may apply)									
Heating	33	142	170	919	3,140	3,901	36.2	45.1	43.5
Cooling	36	158	199	942	3,877	4,336	38.2	40.8	45.9
Water-heating equipment									
Centralized system	50	264	324	1,306	5,455	6,813	38.6	48.4	47.5
Distributed system	Q	38	56	Q	1,343	1,502	Q	28.4	37.2
Combination of centralized and									
distributed system	34	74	98	539	1,919	2,311	63.0	38.8	42.5
Food preparation or serving areas in non-food service buildings (more than one may apply)									
Snack bar or concession stand	Q	64	72	Q	1,354	1,452	Q	47.6	49.3
Fast food or small restaurant	Q	57	59	Q	1,263	1,154	Q	45.0	51.0
Cafeteria or large restaurant	27	121	107	535	2,458	2,336	50.1	49.4	45.7
Commercial kitchen/									
food preparation area	37	127	140	696	2,029	2,853	52.9	62.5	49.1
Small kitchen area	16	79	90	368	2,062	2,120	43.9	38.3	42.6
HVAC conservation features									
(more than one may apply)	50	244	24.0	4 000	4 640	4.040	F0.2	4E C	
Economizer cycle	52	211	218		4,618	4,910		45.6	44.5
Regular HVAC maintenance	101	341	439		7,844	9,446		43.4	46.4
Building automation system (BAS) ²	62	184	216	1,208	4,277	4,817	51.2	43.0	44.8

	Total natural consumption (billion cubic	1	t	otal floorsp ouildings usi million squa	ng natural ga	Natural gas energy inten (cubic feet/s			
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New	Middle Atlantic	East North Central
All buildings	108	379	482	2,241	8,827	10,790	48.1	43.0	44.6
Window and interior lighting features (more than one may apply)									
Multipaned windows	98	281	407	1,955	6,509	8,803	50.3	43.2	46.2
Tinted window glass	47	205	252	1,076	4,109	5,434	43.5	50.0	46.4
Reflective window glass	12	83	111	302	1,510	2,465	40.5	55.0	45.1
External overhangs or awnings	28	162	200	721	2,704	3,833	39.3	60.0	52.3
Skylights or atriums	41	123	112	1,006	2,292	2,534	40.9	53.5	44.4
Light scheduling	59	154	206	1,019	3,766	4,570	57.4	40.9	45.0
Occupancy sensors	82	189	231	1,474	4,532	5,106	55.7	41.8	45.2
Multi-level lighting or dimming	25	73	106	474	1,493	1,972	52.3	48.6	53.6
Daylight harvesting	Q	38	38	Q	654	987	Q	58.3	38.3
Demand responsive lighting	Q	22	22	Q	405	491	Q	54.6	44.1
Building automation system (BAS) for lighting ²	24	66	64	409	1,415	1,555	57.6	47.0	41.3
Equipment usage reduced when building not in full use (more than one may apply)									
Heating	74	310	390	1,869	7,326	8,751	39.7	42.4	44.5
Cooling	81	298	369	1,813	7,042	8,263	44.5	42.3	44.6
Lighting	107	350	455	2,193	8,217	10,107	49.0	42.6	45.0
Annual consumption (hundred cubic feet)									
1,000 or less	1	4	11	209	476	789	5.5	8.7	13.4
1,001 to 5,000	12	37	56	578	1,546	2,121	20.5	23.8	26.2
5,001 to 10,000	Q	36	45	Q	1,300	1,264	Q	27.4	35.3
10,001 to 25,000	13	52	93	276	1,556	2,159	47.9	33.3	43.3
25,001 to 50,000	Q	63	83	Q	1,361	1,586	Q	46.1	52.3
50,001 to 100,000	Q	53	62	Q	1,075	1,218	Q	49.0	50.7
Over 100,000	45	136	133	391	1,513	1,653	114.0	89.6	80.2

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 the *Guide to the 2012 CBECS Detailed Tables* or *CBECS Terminology* for definitions 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/

Statistics for the *Energy end uses* category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use.

HVAC = Heating, ventilation, and air conditioning.

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