

Table C5. Consumption and gross energy intensity by Census region for sum of major fuels, 2012

	Sum of major fuel consumption (trillion Btu)				Total floorspace of buildings (million square feet)				Energy intensity for sum of major fuels (thousand Btu/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All buildings	1,459	1,566	2,566	1,372	15,534	18,919	34,279	18,360	93.9	82.8	74.9	74.7
Building floorspace (square feet)												
1,001 to 5,000	106	155	320	141	1,057	1,858	3,383	1,744	100.4	83.4	94.6	81.1
5,001 to 10,000	89	146	250	161	1,248	1,872	3,535	2,245	71.3	78.1	70.8	71.5
10,001 to 25,000	160	194	320	203	2,408	2,889	5,209	3,599	66.4	67.1	61.4	56.4
25,001 to 50,000	123	220	317	162	1,644	3,029	4,528	2,716	75.0	72.8	70.1	59.5
50,001 to 100,000	251	254	412	151	2,676	2,729	6,139	2,374	93.8	93.0	67.0	63.7
100,001 to 200,000	302	193	343	197	2,542	2,400	5,152	2,321	118.7	80.2	66.7	84.9
200,001 to 500,000	245	248	331	203	2,232	2,726	3,681	2,084	109.7	90.8	89.9	97.4
Over 500,000	183	157	273	154	1,727	1,418	2,652	1,277	106.2	110.5	103.0	120.4
Principal building activity												
Education	169	235	322	116	2,056	3,173	5,162	1,848	82.1	74.2	62.3	62.8
Food sales	72	37	87	66	316	174	399	363	227.8	213.8	217.5	182.5
Food service	73	104	236	101	292	369	771	387	249.0	282.6	306.5	260.9
Health care	176	154	252	135	1,067	862	1,441	786	165.0	178.6	175.1	172.1
Inpatient	124	114	206	105	538	496	894	447	230.4	229.1	230.2	236.0
Outpatient	52	40	47	30	529	366	548	339	98.5	110.1	85.3	87.8
Lodging	99	107	203	156	1,007	1,058	2,302	1,459	97.8	101.5	88.1	106.8
Mercantile	153	210	398	247	1,653	2,132	4,729	2,815	92.8	98.5	84.1	87.6
Retail (other than mall)	56	86	133	89	835	1,142	2,126	1,336	66.9	74.9	62.6	66.7
Enclosed and strip malls	98	124	264	157	818	990	2,603	1,478	119.2	125.7	101.6	106.4
Office	370	267	368	236	3,703	3,334	5,501	3,414	99.8	80.0	66.9	69.2
Public assembly	93	138	176	73	953	1,585	2,003	1,018	97.1	87.2	88.0	71.7
Public order and safety	37	29	50	Q	345	334	576	Q	108.4	88.1	86.4	Q
Religious worship	37	42	67	27	897	925	2,011	725	41.5	45.7	33.4	36.7
Service	49	88	102	34	823	1,472	1,642	694	59.3	59.6	62.0	48.3
Warehouse and storage	63	93	176	97	1,761	2,530	5,257	3,529	35.8	36.8	33.5	27.4
Other	64	49	116	56	273	435	827	467	236.4	112.9	140.8	120.0
Vacant	Q	11	13	13	389	536	1,659	672	Q	Q	Q	19.0
Year constructed												
Before 1920	97	54	73	15	1,632	1,040	982	329	59.2	51.5	73.9	47.0
1920 to 1945	166	111	88	54	1,959	1,769	1,503	795	84.7	62.6	58.4	67.6
1946 to 1959	140	145	156	96	1,581	1,662	2,634	1,504	88.4	87.3	59.3	63.8
1960 to 1969	201	216	304	182	2,240	2,687	3,499	1,937	89.7	80.3	86.8	93.7
1970 to 1979	263	260	320	169	1,952	2,619	3,693	2,582	134.9	99.2	86.7	65.3
1980 to 1989	146	233	546	238	1,743	2,617	6,942	3,929	84.1	89.0	78.7	60.7
1990 to 1999	224	211	434	234	2,044	2,798	6,172	2,788	109.3	75.4	70.3	83.8
2000 to 2003	99	134	246	99	980	1,495	3,314	1,426	101.0	89.7	74.3	69.8
2004 to 2007	53	101	199	175	501	1,236	2,839	1,948	106.2	81.8	70.1	89.7
2008 to 2012	71	102	201	110	903	997	2,701	1,122	78.5	102.1	74.4	98.2
Climate region¹												
Very cold/Cold	933	1,360	N	453	10,510	16,172	N	5,217	88.8	84.1	N	86.9
Mixed-humid	526	206	1,537	N	5,024	2,748	20,101	N	104.7	74.9	76.5	N
Mixed-dry/Hot-dry	N	N	Q	716	N	N	Q	10,490	N	N	56.7	68.3
Hot-humid	N	N	941	Q	N	N	12,632	Q	N	N	74.5	Q
Marine	N	N	N	197	N	N	N	2,454	N	N	N	80.2

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	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All buildings	1,459	1,566	2,566	1,372	15,534	18,919	34,279	18,360	93.9	82.8	74.9	74.7
Number of floors												
One	341	616	1,241	633	3,865	7,652	18,532	9,760	88.3	80.5	67.0	64.8
Two	369	343	464	284	4,098	4,867	6,972	4,269	90.1	70.4	66.6	66.6
Three	199	215	175	79	2,421	2,607	2,028	1,083	82.3	82.5	86.0	73.2
Four to nine	356	295	531	250	3,409	2,915	5,013	2,198	104.4	101.2	105.9	113.9
Ten or more	194	97	155	Q	1,742	879	1,734	1,049	111.4	110.6	89.4	119.6
Elevators and escalators (more than one may apply)												
Any elevators	871	718	1,020	574	7,911	7,555	11,022	5,633	110.1	95.1	92.5	102.0
Number of elevators												
One	258	261	252	113	2,580	3,220	3,665	1,693	99.9	81.0	68.8	66.6
Two to five	331	254	431	226	3,146	2,781	4,610	2,281	105.1	91.3	93.5	99.2
Six or more	282	204	336	235	2,186	1,554	2,746	1,658	129.2	131.1	122.5	141.8
Any escalators	86	74	113	Q	798	880	1,071	905	107.4	84.1	105.4	115.2
Number of workers (main shift)												
Fewer than 5	126	204	288	137	2,692	4,286	7,336	3,438	46.9	47.6	39.3	39.9
5 to 9	90	134	244	131	1,282	1,910	3,553	2,227	69.8	70.1	68.6	58.6
10 to 19	95	187	322	169	1,390	1,880	3,814	2,538	68.3	99.3	84.4	66.6
20 to 49	188	281	445	273	1,903	3,372	5,611	3,628	99.0	83.3	79.3	75.4
50 to 99	246	260	480	163	2,385	2,761	6,076	2,254	103.2	94.3	79.1	72.2
100 to 249	267	221	366	205	2,530	2,314	4,163	1,934	105.5	95.3	88.0	105.8
250 or more	447	279	420	294	3,352	2,397	3,726	2,341	133.5	116.5	112.8	125.7
Weekly operating hours												
Fewer than 40	37	78	71	43	1,173	2,026	3,508	1,514	31.6	38.3	20.3	28.4
40 to 48	138	175	327	192	2,361	3,048	6,789	3,631	58.6	57.4	48.1	52.9
49 to 60	245	302	478	233	3,345	4,372	8,494	4,318	73.3	69.0	56.2	54.0
61 to 84	296	335	462	276	3,313	3,628	5,275	3,651	89.4	92.4	87.6	75.7
85 to 167	256	269	389	184	1,881	2,428	3,138	1,948	136.0	110.7	124.1	94.6
Open continuously	487	407	840	443	3,461	3,418	7,076	3,298	140.6	119.1	118.7	134.4
Ownership and occupancy												
Nongovernment owned	1,080	1,175	2,004	1,117	11,913	14,177	26,441	15,019	90.6	82.9	75.8	74.4
Owner occupied	499	615	989	512	5,454	7,338	12,119	5,726	91.4	83.8	81.6	89.5
Leased to tenant(s)	417	385	776	463	4,430	4,720	10,105	6,860	94.2	81.5	76.8	67.5
Owner occupied and leased	163	171	237	138	1,786	1,767	3,242	2,078	91.1	96.9	73.0	66.6
Unoccupied	Q	Q	2	Q	Q	352	975	355	Q	Q	Q	Q
Government owned	380	391	562	254	3,621	4,742	7,839	3,341	104.9	82.5	71.8	76.2
Federal	Q	26	75	22	Q	275	835	204	Q	94.2	89.4	105.9
State	Q	119	164	95	1,149	1,158	2,111	1,122	153.4	102.4	77.9	85.1
Local	188	247	323	137	2,213	3,310	4,893	2,015	85.1	74.5	66.1	68.2
Party responsible for operation and maintenance of energy systems												
Building owner	1,215	1,379	2,102	1,112	13,304	16,815	28,772	14,811	91.3	82.0	73.1	75.1
Business owner or tenant	205	158	385	235	1,819	1,724	4,541	3,225	112.8	91.8	84.8	72.8
Property management	Q	Q	52	Q	Q	Q	652	233	Q	Q	80.3	Q
Other	Q	Q	27	Q	Q	Q	315	Q	Q	Q	84.9	Q

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	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All buildings	1,459	1,566	2,566	1,372	15,534	18,919	34,279	18,360	93.9	82.8	74.9	74.7
Provider of direct input on energy-related equipment purchases												
Building owner	1,235	1,404	2,166	1,179	13,567	17,159	29,802	15,742	91.0	81.8	72.7	74.9
Business owner or tenant	167	122	305	172	1,393	1,274	3,326	2,263	120.1	95.6	91.6	76.2
Property management	Q	Q	18	Q	Q	Q	345	Q	Q	Q	51.4	Q
Other	38	Q	78	11	314	345	806	221	120.9	73.7	97.0	50.4
Number of establishments												
One	913	1,000	1,684	889	9,527	12,503	21,742	11,222	95.8	80.0	77.4	79.2
2 to 5	311	384	463	243	3,305	4,207	6,503	3,742	94.0	91.2	71.2	65.0
6 to 10	68	72	138	85	775	798	1,750	1,103	88.1	90.5	78.7	77.4
11 to 20	80	56	150	70	833	493	1,560	818	95.9	113.1	96.0	85.3
More than 20	87	51	130	79	832	532	1,419	1,037	104.5	95.4	91.3	76.5
Currently unoccupied	Q	Q	3	6	262	386	1,306	439	Q	Q	Q	Q
Predominant exterior wall material												
Brick, stone, or stucco	721	814	1,374	549	7,649	9,051	16,679	7,084	94.3	89.9	82.4	77.5
Concrete (block or poured)	367	329	652	372	3,608	4,010	8,153	4,955	101.6	82.0	80.0	75.1
Concrete panels	101	170	191	202	804	1,694	3,158	3,037	125.6	100.5	60.5	66.6
Siding or shingles	100	103	91	106	1,589	1,395	1,389	1,377	62.8	73.9	65.3	77.3
Metal panels	70	99	194	64	1,020	2,150	4,246	1,257	68.9	46.3	45.8	50.7
Window glass	73	Q	34	42	432	Q	360	323	169.0	Q	95.7	129.8
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No one major type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Predominant roof material												
Metal surfacing	93	167	453	152	1,626	3,264	8,295	2,733	57.2	51.3	54.6	55.5
Synthetic or rubber	581	672	719	469	5,880	7,502	7,742	4,692	98.8	89.6	92.9	100.0
Built-up	429	365	703	366	3,782	3,999	8,890	5,164	113.4	91.2	79.1	70.9
Slate or tile shingles	70	29	167	105	842	390	1,865	1,209	83.6	73.9	89.4	86.8
Wooden materials (including shingles)	17	Q	36	28	161	Q	383	469	104.3	Q	93.3	60.4
Asphalt, fiberglass, or other shingles	222	291	390	202	2,668	3,268	5,843	3,324	83.2	89.0	66.8	60.8
Concrete	30	Q	65	28	298	Q	860	403	100.9	Q	76.0	68.2
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No one major type	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Roof characteristics												
Roof tilt												
Flat	1,061	990	1,547	877	10,061	10,574	18,121	10,866	105.4	93.6	85.4	80.8
Shallow pitch	194	345	701	356	2,542	5,009	11,004	5,297	76.5	68.9	63.7	67.2
Steeper pitch	204	230	318	138	2,930	3,336	5,154	2,197	69.6	69.0	61.7	62.9
Cool roof	381	371	632	454	3,382	3,666	7,530	5,053	112.6	101.1	83.9	89.8

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	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All buildings	1,459	1,566	2,566	1,372	15,534	18,919	34,279	18,360	93.9	82.8	74.9	74.7
Cooling energy sources (more than one may apply)												
Electricity	1,254	1,487	2,360	1,220	13,303	16,826	29,950	15,955	94.3	88.4	78.8	76.5
Natural gas	43	Q	Q	Q	305	Q	Q	Q	140.9	Q	Q	Q
District chilled water	188	73	266	137	794	585	2,479	749	237.0	125.6	107.5	183.0
Water-heating energy sources (more than one may apply)												
Electricity	546	609	1,358	589	6,561	7,934	19,449	8,811	83.2	76.7	69.8	66.8
Natural gas	888	1,047	1,245	849	7,533	10,615	12,258	9,116	117.8	98.6	101.6	93.1
Fuel oil	123	Q	Q	Q	1,401	Q	Q	Q	87.7	Q	Q	Q
District heat	240	104	190	Q	1,641	767	1,568	575	146.6	135.3	121.0	205.6
Propane	19	18	40	10	389	392	534	260	49.6	45.1	74.5	38.9
Cooking energy sources (more than one may apply)												
Electricity	477	617	936	481	4,677	6,159	9,812	4,503	102.0	100.3	95.4	106.8
Natural gas	683	642	1,018	671	5,357	5,642	8,572	5,200	127.5	113.8	118.8	129.1
Propane	74	24	47	22	779	328	663	230	95.6	71.6	70.7	95.4
Energy end uses (more than one may apply)												
Buildings with space heating	1,447	1,560	2,449	1,326	15,053	18,055	30,499	16,471	96.1	86.4	80.3	80.5
Buildings with cooling	1,402	1,522	2,539	1,310	13,949	17,144	31,734	16,467	100.5	88.8	80.0	79.6
Buildings with water heating	1,440	1,541	2,487	1,329	14,633	17,592	30,261	16,529	98.4	87.6	82.2	80.4
Buildings with cooking	917	887	1,455	821	8,177	8,726	14,381	7,262	112.1	101.7	101.1	113.1
Buildings with manufacturing	99	69	135	58	1,059	1,172	1,708	1,139	93.1	58.5	79.1	51.0
Buildings with electricity generation	721	551	1,003	529	6,223	5,358	9,377	4,683	115.9	102.8	106.9	112.9
Percent of floorspace heated												
Not heated	12	6	117	46	481	864	3,781	1,890	Q	Q	30.9	24.4
1 to 50	53	55	184	175	1,132	1,310	3,979	3,709	47.1	41.6	46.3	47.3
51 to 99	278	195	546	279	2,873	2,239	6,218	3,320	96.7	87.3	87.8	84.1
100	1,116	1,310	1,719	871	11,049	14,506	20,302	9,441	101.0	90.3	84.7	92.2
Percent of floorspace cooled												
Not cooled	57	43	27	62	1,585	1,776	2,545	1,894	36.3	24.4	10.5	32.6
1 to 50	227	321	239	202	3,558	4,741	6,189	4,403	63.7	67.7	38.7	45.9
51 to 99	571	457	738	377	5,081	4,697	8,462	4,487	112.4	97.2	87.2	84.1
100	604	745	1,562	731	5,311	7,706	17,083	7,576	113.8	96.7	91.4	96.4
Percent lit when open												
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50	109	186	235	113	2,097	2,870	4,755	2,907	51.8	64.7	49.4	39.0
51 to 99	605	747	1,106	591	6,288	7,932	13,288	7,307	96.2	94.2	83.2	80.9
100	741	625	1,220	658	6,670	7,266	14,405	7,385	111.1	86.0	84.7	89.0
Building never open/electricity not used	Q	8	3	9	437	773	1,710	683	Q	Q	Q	13.8

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	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All buildings	1,459	1,566	2,566	1,372	15,534	18,919	34,279	18,360	93.9	82.8	74.9	74.7
Refrigeration equipment (more than one may apply)												
Any refrigeration	1,368	1,465	2,397	1,241	13,612	16,570	28,755	14,709	100.5	88.4	83.4	84.4
Walk-in units	813	740	1,279	695	5,870	6,331	10,777	5,384	138.4	116.8	118.6	129.0
Cases or cabinets	783	743	1,106	683	6,066	6,803	10,386	5,464	129.0	109.3	106.5	125.1
Large cold storage areas	93	103	207	127	569	972	1,700	930	163.0	105.8	121.6	137.1
Commercial ice makers	753	802	1,447	729	5,573	6,598	14,516	6,048	135.1	121.6	99.7	120.6
Residential-type or compact units	1,133	1,236	1,844	970	11,436	14,257	24,189	12,499	99.1	86.7	76.2	77.6
Vending machines	928	934	1,539	777	8,448	9,673	17,627	8,188	109.9	96.6	87.3	94.9
No refrigeration	91	101	169	131	1,922	2,350	5,525	3,651	47.6	42.8	30.7	35.7
Office equipment (more than one may apply)												
Desktop computers	1,393	1,492	2,412	1,289	14,116	16,861	29,686	16,400	98.7	88.5	81.3	78.6
With flat screen monitors	1,381	1,479	2,382	1,281	13,956	16,628	29,347	16,229	98.9	89.0	81.2	79.0
With multiple monitors	606	637	1,059	640	5,289	6,407	12,095	7,155	114.6	99.3	87.6	89.4
Laptop computers	1,194	1,240	1,990	1,043	11,774	13,895	24,921	12,896	101.4	89.2	79.8	80.8
Dedicated servers	1,039	1,045	1,723	977	10,087	11,271	20,565	11,447	103.0	92.7	83.8	85.4
Laser printers	1,061	1,100	1,734	899	10,317	12,158	20,460	11,320	102.8	90.5	84.8	79.4
Inkjet printers	579	646	1,082	597	6,559	7,682	14,297	7,697	88.2	84.1	75.6	77.5
FAX machines	1,247	1,282	2,113	1,065	12,733	14,439	25,795	13,715	97.9	88.8	81.9	77.6
Photocopiers	1,179	1,152	1,782	997	11,654	13,053	22,099	12,471	101.2	88.3	80.6	79.9
Number of desktop computers												
None	67	74	154	83	1,418	2,058	4,594	1,960	47.1	35.8	33.5	42.1
1 to 4	181	265	505	233	2,457	3,582	6,273	3,356	73.5	74.1	80.4	69.6
5 to 9	115	196	287	140	1,392	2,120	3,528	2,381	82.4	92.5	81.3	58.8
10 to 19	151	147	225	153	1,644	1,826	3,531	2,388	91.9	80.2	63.8	64.1
20 to 49	228	247	433	212	2,327	2,591	5,347	2,830	98.0	95.5	80.9	75.1
50 to 99	127	166	217	134	1,365	1,984	3,243	1,692	93.3	83.9	67.0	79.4
100 to 249	271	197	289	203	2,303	2,202	3,391	1,832	117.9	89.6	85.2	110.9
250 or more	319	273	456	213	2,628	2,556	4,373	1,921	121.6	106.7	104.4	110.7
Number of laptop computers												
None	266	326	577	329	3,760	5,024	9,358	5,464	70.6	64.8	61.6	60.3
1 to 4	273	385	571	288	3,350	5,045	8,080	4,687	81.4	76.4	70.6	61.4
5 to 9	178	146	254	119	1,406	1,478	3,568	1,894	126.7	99.0	71.3	62.7
10 to 19	144	124	262	188	1,500	1,473	3,386	1,984	95.9	84.5	77.4	94.9
20 to 49	156	208	303	239	1,471	2,195	3,794	2,183	106.4	95.0	79.8	109.6
50 to 99	117	132	176	82	1,218	1,312	1,827	877	95.8	100.3	96.4	93.1
100 to 249	151	99	210	65	1,414	1,022	2,108	673	106.9	96.6	99.8	96.3
250 or more	175	145	213	62	1,415	1,370	2,159	598	123.6	106.0	98.8	104.0
Number of dedicated servers												
None	421	521	844	395	5,448	7,648	13,715	6,913	77.2	68.1	61.5	57.1
1 to 4	556	615	1,022	525	6,193	7,200	13,500	7,203	89.8	85.4	75.7	72.9
5 to 9	118	143	178	127	1,092	1,435	2,226	1,487	107.7	99.3	79.7	85.4
10 to 19	153	95	194	151	1,117	1,006	2,325	1,263	137.0	94.3	83.6	119.4
20 to 49	62	107	159	68	688	982	1,309	779	90.0	109.0	121.5	87.9
50 or more	150	86	170	106	996	649	1,204	714	151.0	132.6	140.8	148.2

Table C5. Consumption and gross energy intensity by Census region for sum of major fuels, 2012

	Sum of major fuel consumption (trillion Btu)				Total floorspace of buildings (million square feet)				Energy intensity for sum of major fuels (thousand Btu/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All buildings	1,459	1,566	2,566	1,372	15,534	18,919	34,279	18,360	93.9	82.8	74.9	74.7
Number of photocopiers												
None	281	413	785	375	3,880	5,866	12,181	5,889	72.3	70.5	64.4	63.7
One	208	316	421	258	2,604	3,942	6,129	4,405	79.9	80.1	68.6	58.5
2 to 4	320	377	595	304	3,581	4,583	8,063	4,085	89.4	82.3	73.8	74.4
5 to 9	228	189	241	126	1,946	2,167	3,203	1,547	117.3	87.3	75.1	81.6
10 or more	423	271	525	309	3,523	2,361	4,704	2,434	119.9	114.6	111.7	126.8
Number of TVs or video displays												
None	259	288	402	266	4,054	5,090	9,483	5,711	63.9	56.5	42.4	46.5
One	122	164	284	128	1,416	2,292	4,276	2,006	86.1	71.4	66.4	63.7
2 to 4	251	340	505	215	2,930	4,056	6,314	3,165	85.6	83.9	79.9	68.0
5 to 9	196	131	288	161	1,824	1,450	3,162	1,711	107.5	90.3	91.2	94.3
10 to 19	221	200	256	133	1,799	1,893	3,051	1,424	122.7	105.4	83.9	93.7
20 to 49	144	138	275	160	1,443	1,668	3,188	1,759	99.7	82.5	86.3	91.1
50 to 99	48	94	201	89	382	929	2,036	1,031	126.2	101.2	98.5	86.1
100 or more	219	212	356	220	1,685	1,541	2,769	1,552	129.8	137.7	128.5	141.5
Food preparation or serving areas in non-food service buildings (more than one may apply)												
Snack bar or concession stand	227	240	395	251	1,924	2,262	3,763	1,934	117.8	105.9	104.9	129.7
Fast food or small restaurant	220	227	466	294	1,751	1,774	3,797	2,464	125.4	127.9	122.6	119.2
Cafeteria or large restaurant	435	345	553	292	3,585	3,455	5,947	2,236	121.3	99.9	92.9	130.5
Commercial kitchen/food preparation area	424	410	605	359	3,254	3,952	6,092	2,852	130.4	103.8	99.3	125.8
Small kitchen area	274	286	399	228	3,105	3,413	5,121	2,414	88.4	83.8	77.9	94.4
Separate computer areas (more than one may apply)												
Data center or server farm	317	286	424	329	2,377	2,488	3,873	2,366	133.1	114.9	109.4	139.2
Computer-based training room	330	399	637	330	3,341	3,950	7,121	3,311	98.7	101.0	89.5	99.8
Student or public computer center	249	288	493	244	2,710	3,338	5,999	2,293	91.9	86.4	82.3	106.4
HVAC conservation features (more than one may apply)												
Economizer cycle	810	780	881	671	6,911	7,916	9,051	6,870	117.2	98.6	97.3	97.7
Regular HVAC maintenance	1,327	1,401	2,263	1,212	12,982	15,173	26,573	14,517	102.2	92.4	85.2	83.5
Building automation system (BAS) ²	782	806	1,351	770	6,934	7,996	14,578	7,542	112.8	100.8	92.7	102.1

Table C5. Consumption and gross energy intensity by Census region for sum of major fuels, 2012

	Sum of major fuel consumption (trillion Btu)				Total floorspace of buildings (million square feet)				Energy intensity for sum of major fuels (thousand Btu/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All buildings	1,459	1,566	2,566	1,372	15,534	18,919	34,279	18,360	93.9	82.8	74.9	74.7
Window and interior lighting features (more than one may apply)												
Multipaned windows	1,095	1,333	1,879	943	11,457	15,282	22,581	11,041	95.5	87.3	83.2	85.4
Tinted window glass	715	855	1,544	859	6,313	9,069	18,988	10,654	113.2	94.3	81.3	80.7
Reflective window glass	276	391	562	424	2,344	3,813	5,455	4,296	117.5	102.4	103.1	98.7
External overhangs or awnings	537	642	1,217	694	4,290	6,494	13,858	7,547	125.1	98.8	87.8	92.0
Skylights or atriums	453	371	706	480	4,058	4,091	8,083	6,028	111.7	90.8	87.3	79.6
Light scheduling	645	656	959	670	5,838	6,651	10,737	7,038	110.6	98.6	89.4	95.1
Occupancy sensors	819	762	1,129	724	7,732	7,916	11,922	8,300	105.9	96.3	94.7	87.3
Multi-level lighting or dimming	289	352	555	422	2,335	3,177	5,424	3,598	123.8	110.7	102.3	117.4
Daylight harvesting	132	153	168	166	1,032	1,522	1,996	1,564	128.0	100.3	84.2	106.4
Demand responsive lighting	62	87	156	105	648	912	1,692	1,487	95.6	95.4	92.1	70.8
Building automation system (BAS) for lighting ²	267	251	395	287	2,159	2,448	4,507	2,953	123.7	102.7	87.7	97.1
Equipment usage reduced when building not in full use (more than one may apply)												
Heating	1,128	1,183	1,724	987	12,290	14,126	23,309	13,442	91.8	83.7	74.0	73.4
Cooling	1,100	1,139	1,798	970	11,450	13,442	24,448	13,176	96.1	84.8	73.5	73.7
Lighting	1,348	1,460	2,343	1,276	14,259	17,263	30,541	16,531	94.5	84.6	76.7	77.2

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.

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, Form EIA-871A, C, D, E, and F of the 2012 Commercial Buildings Energy Consumption Survey.