

Table B3. Census Region, Number of Buildings and Floorspace for Non-Mall Buildings, 2003

	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings*	North-east	Mid-west	South	West	All Buildings*	North-east	Mid-west	South	West
All Buildings*	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
Building Floorspace (Square Feet)										
1,001 to 5,000	2,552	364	725	965	498	6,789	1,025	1,895	2,533	1,336
5,001 to 10,000	889	149	213	361	165	6,585	1,123	1,565	2,658	1,239
10,001 to 25,000	738	127	198	278	135	11,535	1,972	3,098	4,378	2,087
25,001 to 50,000	241	36	71	88	46	8,668	1,292	2,567	3,168	1,643
50,001 to 100,000	129	27	34	49	19	9,057	2,040	2,260	3,435	1,322
100,001 to 200,000	65	15	17	25	8	9,064	2,117	2,296	3,475	1,177
200,001 to 500,000	25	6	8	7	5	7,176	1,781	2,196	1,914	1,286
Over 500,000	7	2	1	2	2	5,908	1,556	1,203	1,928	1,221
Principal Building Activity										
Education	386	31	63	156	136	9,874	1,683	2,541	3,983	1,667
Food Sales	226	40	57	94	Q	1,255	238	320	487	Q
Food Service	297	37	88	127	45	1,654	172	453	764	265
Health Care	129	18	31	48	31	3,163	535	798	1,277	553
Inpatient	8	1	2	4	1	1,905	358	438	838	270
Outpatient	121	17	29	44	30	1,258	177	359	438	283
Lodging	142	27	34	52	30	5,096	1,171	1,144	1,694	1,087
Retail (Other Than Mall)	443	76	111	197	60	4,317	630	880	1,844	963
Office	824	155	231	250	187	12,208	3,012	2,989	3,782	2,425
Public Assembly	277	63	57	92	65	3,939	1,048	1,012	1,174	706
Public Order and Safety	71	23	20	15	Q	1,090	362	221	373	Q
Religious Worship	370	52	107	158	53	3,754	627	1,115	1,498	515
Service	622	100	221	198	103	4,050	740	1,289	1,358	664
Warehouse and Storage	597	65	160	277	95	10,078	1,523	3,017	3,966	1,572
Other	79	17	31	21	9	1,738	649	316	Q	186
Vacant	182	23	55	88	Q	2,567	517	984	701	Q
Year Constructed										
Before 1920	330	122	139	47	21	3,769	1,406	1,552	516	295
1920 to 1945	527	121	163	152	91	6,871	2,504	2,099	1,348	920
1946 to 1959	562	105	157	161	138	7,045	2,094	2,027	1,795	1,128
1960 to 1969	579	108	131	192	148	8,101	1,737	2,229	2,538	1,597
1970 to 1979	731	71	196	297	167	10,772	1,723	3,237	3,726	2,086
1980 to 1989	707	97	163	351	95	10,332	1,374	1,949	4,768	2,241
1990 to 1999	876	69	228	411	168	12,360	1,370	2,746	6,241	2,004
2000 to 2003	334	31	90	163	51	5,533	698	1,240	2,557	1,038
Climate Zone: 30-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	855	204	445	N	206	10,622	2,416	5,615	N	2,591
5,500-7,000 HDD	1,173	329	641	N	202	17,335	5,398	9,867	N	2,070
4,000-5,499 HDD	673	193	Q	273	28	11,504	5,092	1,597	4,122	693
Fewer than 4,000 HDD	1,276	N	N	870	406	15,739	N	N	10,338	5,401
2,000 CDD or More and --										
Fewer than 4,000 HDD	669	N	N	633	36	9,584	N	N	9,029	555
Number of Floors										
One	3,136	312	801	1,381	642	25,981	3,151	6,104	11,757	4,969
Two	1,031	230	328	289	183	16,270	3,029	5,177	4,946	3,118
Three	339	130	107	68	35	7,501	2,083	2,584	1,938	896
Four to Nine	128	50	29	33	16	10,085	3,003	2,660	3,094	1,328
Ten or More	12	4	2	4	3	4,947	1,640	555	1,754	999

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	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings*	North-east	Mid-west	South	West	All Buildings*	North-east	Mid-west	South	West
All Buildings*	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
Elevators and Escalators (more than one may apply)										
Any Elevators	309	71	107	91	41	24,617	6,137	6,677	7,949	3,855
Number of Elevators										
One	208	45	82	58	24	8,221	1,585	3,084	2,475	1,077
Two to Five	88	22	23	28	14	10,129	2,971	2,704	3,094	1,360
Six or More	13	4	2	4	3	6,268	1,581	889	2,380	1,418
Any Escalators	6	2	Q	2	Q	2,350	541	Q	1,002	Q
Number of Workers (main shift)										
Fewer than 5	2,653	363	787	1,033	469	15,492	2,376	4,958	5,670	2,489
5 to 9	778	137	173	317	151	6,166	1,085	1,463	2,595	1,023
10 to 19	563	110	145	200	108	7,803	1,872	2,081	2,741	1,109
20 to 49	398	66	102	136	94	10,989	2,314	2,856	3,883	1,935
50 to 99	147	27	37	50	33	7,934	1,598	2,311	2,654	1,370
100 to 249	77	16	15	28	18	6,871	1,331	1,609	2,534	1,397
250 or More	30	7	6	10	6	9,528	2,329	1,800	3,413	1,986
Weekly Operating Hours										
Fewer than 40	1,002	112	309	410	172	6,863	923	2,300	2,544	1,096
40 to 48	1,117	158	283	438	238	11,622	2,111	2,783	4,567	2,161
49 to 60	1,062	184	289	378	210	15,723	3,098	4,614	5,556	2,455
61 to 84	591	114	155	215	107	10,334	2,048	2,583	3,754	1,950
85 to 167	400	73	108	155	63	7,092	1,317	2,008	2,459	1,308
Open Continuously	475	86	123	178	88	13,149	3,407	2,793	4,608	2,340
Ownership and Occupancy										
Nongovernment Owned	4,011	642	1,118	1,563	689	49,421	10,389	12,470	17,826	8,736
Owner Occupied	1,841	365	557	598	321	23,591	5,904	6,171	7,869	3,648
Nonowner Occupied	2,029	261	518	888	362	23,914	4,204	5,539	9,358	4,813
Unoccupied	141	Q	43	77	Q	1,916	Q	760	600	Q
Government Owned	635	84	149	212	190	15,363	2,517	4,610	5,662	2,574
Federal	46	Q	11	6	Q	1,956	Q	Q	521	Q
State	164	25	24	50	66	3,808	599	764	1,718	727
Local	425	51	114	156	103	9,599	1,706	2,925	3,423	1,545
Vacancy Status										
Completely Vacant	157	Q	47	84	Q	2,161	Q	892	652	Q
Mostly Vacant	25	Q	Q	Q	Q	406	Q	Q	Q	Q
Partially Vacant	548	100	138	213	98	12,382	3,117	3,119	4,061	2,085
Not At All Vacant	3,915	603	1,073	1,474	765	49,834	9,271	12,976	18,726	8,860
Number of Establishments										
One	3,754	559	1,047	1,444	704	45,144	8,061	12,359	16,947	7,776
2 to 5	643	130	157	215	141	10,960	2,517	2,803	3,740	1,900
6 to 10	55	12	12	16	15	1,958	571	510	550	327
11 to 20	23	5	2	9	7	1,951	722	301	589	340
More than 20	14	3	Q	7	3	2,609	696	Q	1,011	688
Currently Unoccupied	157	Q	47	84	Q	2,161	Q	892	652	Q

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	Number of Buildings (thousand)					Total Floorspace (million square feet)				
	All Buildings*	North-east	Mid-west	South	West	All Buildings*	North-east	Mid-west	South	West
All Buildings*	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
Predominant Exterior Wall Material										
Brick, Stone or Stucco	2,044	331	520	789	403	32,817	7,248	9,248	11,574	4,747
Concrete (Block or Poured)	786	120	222	347	97	10,832	2,184	2,887	3,985	1,777
Concrete Panels	131	10	23	51	46	6,559	599	1,230	2,758	1,972
Siding or Shingles	779	193	233	202	150	4,120	1,193	1,183	1,045	698
Metal Panels	825	58	245	359	162	7,912	1,054	1,880	3,426	1,552
Window Glass	17	Q	Q	10	Q	1,024	Q	Q	280	Q
Other	47	Q	13	Q	Q	1,113	Q	303	Q	Q
No One Major Type	18	Q	Q	Q	Q	406	Q	Q	Q	Q
Predominant Roof Material										
Built-Up	1,036	176	252	387	221	21,170	4,068	5,262	7,430	4,411
Shingles (Not Wood)	1,325	260	412	442	211	10,195	2,022	3,199	3,325	1,649
Metal Surfacing	1,288	97	329	610	252	11,944	1,027	2,663	6,309	1,946
Synthetic or Rubber	511	119	198	134	60	14,730	4,116	4,443	4,298	1,873
Slate or Tile	263	41	35	109	77	2,462	480	306	1,056	620
Wooden Materials	122	Q	Q	53	39	887	Q	Q	301	244
Concrete	61	Q	Q	27	13	2,231	Q	Q	426	400
Other	16	Q	Q	Q	Q	598	Q	Q	Q	Q
No One Major Type	25	Q	Q	Q	Q	565	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)										
Any Type of Renovation										
Since 1980	1,018	225	327	290	177	17,844	5,104	5,437	4,462	2,841
Addition or Annex	256	46	74	85	51	6,551	1,797	1,970	1,804	979
Reduction In Floorspace	22	8	Q	Q	Q	1,012	404	Q	Q	Q
Cosmetic Improvements	741	177	225	212	126	13,119	3,952	3,879	3,105	2,183
Wall or Roof Replacement	370	105	122	89	54	8,070	2,676	2,238	1,863	1,294
Interior Wall										
Re-Configuration	411	118	129	81	82	8,518	2,489	2,586	1,936	1,507
HVAC Equipment Upgrade	442	116	140	114	71	10,768	3,027	3,332	2,584	1,825
Lighting Upgrade	455	130	132	108	85	10,275	3,350	3,059	2,092	1,775
Window Replacement	310	108	86	51	65	6,354	2,750	1,847	916	842
Plumbing System Upgrade	315	93	86	69	68	7,144	2,511	1,898	1,366	1,369
Insulation Upgrade	227	69	72	50	36	4,015	1,370	1,212	857	576
Other Renovation	19	Q	Q	Q	Q	523	Q	Q	Q	Q
No Renovations Since 1980	1,710	304	459	560	388	18,714	4,360	5,708	5,462	3,185
Building Newer than 1980	1,917	197	481	925	314	28,225	3,441	5,935	13,565	5,283
Energy Sources (more than one may apply)										
Electricity	4,404	710	1,189	1,654	851	63,307	12,809	16,701	22,766	11,030
Natural Gas	2,391	397	802	714	479	43,468	9,181	13,163	13,311	7,813
Fuel Oil	451	254	76	84	37	15,157	6,080	2,832	4,122	2,123
District Heat	67	17	13	21	15	5,443	1,363	1,648	1,766	667
District Chilled Water	33	6	4	14	9	2,853	620	596	1,150	487
Propane	502	73	173	176	80	7,076	1,354	2,189	2,360	1,173
Other	132	26	42	28	37	1,401	222	505	306	367

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	All Buildings*	North-east	Mid-west	South	West	All Buildings*	North-east	Mid-west	South	West
All Buildings*	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
Energy End Uses (more than one may apply)										
Buildings with Space Heating	3,982	672	1,112	1,462	735	60,028	12,596	16,331	20,998	10,102
Buildings with Cooling	3,625	519	957	1,479	671	56,940	10,954	14,484	21,553	9,950
Buildings with Water Heating	3,472	600	987	1,217	668	56,478	11,789	14,928	19,913	9,848
Buildings with Cooking	801	157	206	304	134	22,237	5,016	5,850	7,881	3,489
Buildings with Manufacturing	119	30	30	33	26	3,138	1,013	798	642	685
Buildings with Electricity Generation	149	42	40	41	26	12,821	3,245	3,317	4,017	2,241
Percent of Floorspace Heated										
Not Heated	663	54	154	312	143	4,756	309	748	2,491	1,208
1 to 50	523	74	117	236	95	6,850	1,387	1,130	2,841	1,491
51 to 99	498	84	141	168	105	8,107	1,539	1,727	2,891	1,950
100	2,962	514	853	1,059	535	45,071	9,671	13,474	15,266	6,661
Percent of Floorspace Cooled										
Not Cooled	1,020	208	309	296	208	7,843	1,952	2,596	1,936	1,359
1 to 50	985	184	293	366	142	16,598	4,270	4,757	4,915	2,656
51 to 99	629	97	197	195	140	13,211	3,101	3,761	3,903	2,446
100	2,011	237	467	918	388	27,132	3,582	5,966	12,735	4,849
Percent Lit When Open										
Zero	47	Q	Q	Q	Q	293	Q	Q	Q	Q
1 to 50	929	187	279	281	182	10,203	2,750	2,753	3,189	1,512
51 to 99	1,108	170	355	357	227	18,288	3,599	5,299	6,134	3,256
100	2,176	327	488	936	425	32,789	6,051	7,781	12,874	6,083
Building Never Open/ Electricity Not Used	386	37	140	171	37	3,210	465	1,227	1,108	Q
Percent Lit When Closed										
Zero	1,964	289	541	735	399	17,385	2,807	5,174	6,292	3,112
1 to 50	1,882	329	512	707	334	30,948	6,279	8,293	11,027	5,349
51 to 100	136	Q	29	61	33	2,093	Q	499	1,013	238
Building Never Closed/ Electricity Not Used	664	94	185	272	113	14,357	3,476	3,114	5,157	2,611
Heating Equipment (more than one may apply)										
Heat Pumps	476	47	45	304	80	8,814	1,213	1,058	4,942	1,600
Packaged Heat Pumps	278	30	27	173	48	5,442	744	738	2,928	1,031
Split-System Heat Pumps	166	Q	Q	113	Q	2,581	Q	Q	1,862	368
Individual Room Heat Pumps	58	5	6	33	13	2,691	544	358	1,250	538
Furnaces	1,864	310	736	467	352	19,615	3,596	7,229	5,715	3,075
Individual Space Heaters	819	122	242	271	185	12,545	2,786	4,169	3,608	1,981
District Heat	65	17	13	20	15	5,166	1,245	1,623	1,683	615
Boilers	579	227	175	88	89	20,423	6,228	6,141	4,393	3,662
Packaged Heating Units	953	95	151	532	175	18,021	2,912	3,666	8,130	3,312
Other	205	22	80	56	47	3,262	579	820	1,381	481

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All Buildings*	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
Cooling Equipment (more than one may apply)										
Residential-Type Central										
Air Conditioners	1,006	144	363	360	138	11,035	2,391	3,609	3,854	1,181
Heat Pumps	492	59	49	303	81	9,041	1,270	1,063	4,923	1,785
Packaged Heat Pumps	288	42	30	170	46	5,426	788	760	2,849	1,030
Split-System Heat Pumps	174	Q	Q	116	Q	2,606	Q	Q	1,868	404
Individual Room Heat Pumps	58	6	6	33	13	2,940	557	358	1,290	734
Individual Air Conditioners	742	179	209	229	125	12,558	3,687	3,488	3,635	1,749
District Chilled Water	33	6	4	14	9	2,853	620	596	1,150	487
Central Chillers	111	10	29	50	22	11,636	1,852	2,842	4,854	2,088
Packaged Air Conditioning										
Units	1,613	202	425	681	304	29,969	6,000	8,086	10,401	5,482
Swamp Coolers	122	Q	Q	Q	113	1,561	Q	Q	Q	1,342
Other	40	Q	10	12	Q	1,232	Q	330	430	Q
Main Equipment Replaced Since 1990 (more than one may apply)										
Heating	1,197	216	365	432	184	16,403	3,974	5,026	4,815	2,588
Cooling	1,356	266	376	481	233	20,995	5,453	5,752	6,415	3,374
Office Equipment (more than one may apply)										
Computers	3,081	504	814	1,120	643	55,627	11,518	14,415	19,715	9,980
With Flat Screen Monitors	877	189	216	305	166	26,417	5,995	6,346	9,135	4,940
Dedicated Servers	1,175	230	319	367	258	36,338	8,143	9,252	12,649	6,294
Laser Printers	1,970	344	505	718	403	33,012	7,095	8,463	11,566	5,888
Inkjet Printers	1,420	222	379	506	314	32,210	6,415	8,305	11,480	6,009
FAX Machines	2,715	474	701	1,006	533	52,373	11,173	13,295	18,782	9,123
Photocopiers	1,939	352	494	687	407	46,257	9,893	11,859	16,312	8,193
Number of Computers										
None	1,565	222	452	655	235	9,156	1,388	2,664	3,774	1,330
1 to 4	1,670	253	446	646	325	12,395	2,081	3,743	4,419	2,151
5 to 9	559	103	150	199	108	7,179	1,604	1,938	2,538	1,099
10 to 19	370	63	102	114	91	6,610	1,321	1,690	2,403	1,196
20 to 49	255	47	61	77	70	7,414	1,504	1,932	2,425	1,554
50 to 99	110	15	25	42	28	5,376	1,157	1,049	2,102	1,068
100 to 249	79	14	21	29	15	6,690	1,260	1,851	2,262	1,317
250 or More	38	9	9	13	6	9,963	2,590	2,213	3,565	1,595
Number of Dedicated Servers										
None	3,471	496	947	1,407	620	28,445	4,763	7,828	10,839	5,015
1 to 4	1,060	210	290	326	234	24,116	5,247	6,567	8,208	4,093
5 to 9	58	9	15	19	16	3,864	914	966	1,313	671
10 to 19	30	4	7	15	4	3,027	578	773	1,126	552
20 to 49	17	4	4	6	4	2,583	493	334	1,265	491
50 or More	10	3	Q	2	1	2,748	912	Q	737	487
Number of Photocopiers										
None	2,706	374	773	1,088	472	18,526	3,012	5,221	7,176	3,117
One	1,250	208	332	463	247	15,475	3,027	4,235	5,460	2,753
2 to 4	549	113	130	173	133	15,082	2,944	4,026	5,518	2,594
5 to 9	85	21	20	30	14	5,515	1,518	1,401	1,782	814
10 or More	54	11	11	20	13	10,185	2,404	2,196	3,553	2,032

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All Buildings*	4,645	726	1,266	1,775	878	64,783	12,905	17,080	23,489	11,310
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	799	157	206	303	134	22,223	5,016	5,850	7,880	3,478
Activities with Large Amounts of Hot Water	567	93	134	207	133	19,482	3,922	5,225	6,903	3,432
Separate Computer Area	553	99	134	190	130	26,873	5,925	6,482	9,397	5,070
HVAC Conservation Features (more than one may apply)										
Variable Air-Volume System	466	62	107	180	116	19,597	3,780	5,001	7,348	3,468
Economizer Cycle	508	90	136	138	144	21,108	4,141	5,884	6,632	4,452
HVAC Maintenance	2,581	498	642	878	563	51,163	11,047	13,128	17,641	9,347
Energy Management and Control System (EMCS)	252	28	55	101	68	15,630	3,002	3,799	5,802	3,027
Window and Interior Lighting Features (more than one may apply)										
Multipaned Windows	2,201	427	742	651	381	38,910	9,308	11,761	12,305	5,536
Tinted Window Glass	1,323	140	339	572	272	29,887	4,958	7,319	11,950	5,660
Reflective Window Glass	308	47	77	103	81	8,544	1,661	2,165	3,010	1,707
External Overhangs or Awnings	1,233	149	352	463	269	17,242	2,687	4,225	6,785	3,545
Skylights or Atriums	331	57	90	110	74	12,546	2,892	3,267	3,922	2,466
Daylighting Sensors	74	Q	25	16	24	2,868	428	815	674	951
Specular Reflectors	928	160	291	282	195	26,118	5,834	7,709	7,871	4,703
Electronic Ballasts	2,577	384	767	896	530	46,882	9,288	12,610	16,459	8,525
Energy Management and Control System (EMCS) for Lighting	60	6	11	21	23	4,781	849	1,292	1,471	1,169
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^a										
Heating	2,878	510	757	1,040	571	42,722	9,519	10,908	14,655	7,639
Cooling	2,761	416	676	1,129	539	43,205	8,812	10,469	16,094	7,829
Lighting	3,685	591	996	1,384	715	46,987	8,706	12,884	17,115	8,282
Office Equipment	1,504	263	386	556	298	19,397	4,269	5,412	6,426	3,291

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - <http://www.eia.doe.gov/emeu/cbecs>.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

^a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.

N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.