

Table B17. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	4,645	4,011	1,841	2,029	141	635	46	164	425
Building Floorspace (Square Feet)									
1,001 to 5,000	2,552	2,272	980	1,205	87	280	Q	77	183
5,001 to 10,000	889	783	384	375	Q	106	Q	Q	87
10,001 to 25,000	738	625	320	293	Q	113	Q	40	64
25,001 to 50,000	241	185	91	86	Q	56	Q	16	36
50,001 to 100,000	129	82	35	40	Q	47	Q	9	37
100,001 to 200,000	65	43	21	20	Q	22	Q	8	12
200,001 to 500,000	25	16	7	8	Q	9	2	1	5
Over 500,000	7	5	2	3	N	2	1	Q	Q
Principal Building Activity									
Education	386	141	83	58	N	245	Q	59	175
Food Sales	226	224	94	130	N	Q	N	Q	Q
Food Service	297	283	72	211	N	Q	N	Q	Q
Health Care	129	122	68	54	N	7	Q	Q	Q
Inpatient	8	7	4	3	N	1	Q	Q	Q
Outpatient	121	115	64	51	N	Q	Q	Q	Q
Lodging	142	134	48	86	N	9	Q	Q	Q
Retail (Other Than Mall).....	443	441	189	252	N	Q	Q	N	N
Office	824	742	402	339	N	82	7	28	47
Public Assembly	277	182	114	68	N	94	Q	23	67
Public Order and Safety	71	Q	Q	Q	N	47	Q	Q	42
Religious Worship	370	370	247	124	N	N	N	N	N
Service	622	542	285	257	N	80	12	Q	42
Warehouse and Storage	597	571	175	396	N	26	Q	Q	Q
Other	79	70	38	32	N	Q	Q	Q	Q
Vacant	182	166	Q	Q	141	Q	Q	Q	Q
Year Constructed									
Before 1920	330	304	168	125	Q	25	Q	Q	19
1920 to 1945	527	461	222	206	Q	67	8	15	44
1946 to 1959	562	463	213	227	Q	99	Q	22	74
1960 to 1969	579	482	242	224	Q	97	Q	28	56
1970 to 1979	731	638	286	334	Q	92	Q	25	60
1980 to 1989	707	624	273	326	Q	83	Q	24	55
1990 to 1999	876	759	327	423	Q	117	Q	30	84
2000 to 2003	334	280	110	163	Q	55	Q	Q	33
Census Region									
Northeast	726	642	365	261	Q	84	Q	25	51
Midwest	1,266	1,118	557	518	43	149	11	24	114
South	1,775	1,563	598	888	77	212	6	50	156
West	878	689	321	362	Q	190	Q	66	103
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	855	762	374	361	Q	93	Q	27	56
5,500-7,000 HDD	1,173	973	546	399	27	200	27	36	137
4,000-5,499 HDD	673	608	276	318	Q	65	1	Q	42
Fewer than 4,000 HDD	1,276	1,103	440	621	42	173	Q	64	105
2,000 CDD or More and --									
Fewer than 4,000 HDD	669	565	204	330	Q	104	Q	Q	85

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Table B17. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	4,645	4,011	1,841	2,029	141	635	46	164	425
Number of Floors									
One	3,136	2,675	1,119	1,454	102	461	35	114	312
Two	1,031	921	478	414	29	110	Q	28	79
Three	339	303	175	120	Q	37	Q	9	22
Four to Nine	128	102	65	36	Q	26	2	13	11
Ten or More	12	10	4	6	N	2	0	Q	Q
Elevators and Escalators (more than one may apply)									
Any Elevators	309	231	121	102	Q	78	6	27	45
Number of Elevators									
One	208	154	87	60	Q	54	Q	15	35
Two to Five	88	67	28	37	Q	21	1	11	9
Six or More	13	10	6	4	Q	3	1	1	1
Any Escalators	6	5	3	2	Q	1	Q	Q	Q
Number of Workers (main shift)									
Fewer than 5	2,653	2,347	989	1,217	141	306	Q	72	211
5 to 9	778	701	376	325	N	78	Q	Q	52
10 to 19	563	488	238	250	N	75	Q	26	43
20 to 49	398	303	156	147	N	94	Q	26	64
50 to 99	147	97	42	55	N	50	Q	12	34
100 to 249	77	53	30	23	N	24	Q	6	16
250 or More	30	22	9	13	N	8	1	Q	4
Weekly Operating Hours									
Fewer than 40	1,002	854	356	357	141	148	Q	Q	107
40 to 48	1,117	897	494	403	N	220	Q	58	150
49 to 60	1,062	932	469	463	N	129	6	35	88
61 to 84	591	532	213	319	N	59	Q	14	34
85 to 167	400	374	158	216	N	25	Q	11	9
Open Continuously	475	422	151	271	N	53	4	12	37
Vacancy Status									
Completely Vacant	157	141	N	N	141	Q	Q	Q	Q
Mostly Vacant	25	25	Q	Q	N	Q	N	N	Q
Partially Vacant	548	477	176	301	N	71	Q	12	50
Not At All Vacant	3,915	3,368	1,654	1,714	N	547	37	151	360
Number of Establishments									
One	3,754	3,200	1,460	1,740	N	553	41	147	366
2 to 5	643	584	342	242	N	59	Q	13	41
6 to 10	55	50	23	27	N	5	Q	Q	Q
11 to 20	23	22	10	12	N	Q	Q	Q	Q
More than 20	14	13	5	8	N	Q	Q	Q	Q
Currently Unoccupied	157	141	N	N	141	Q	Q	Q	Q

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Table B17. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	4,645	4,011	1,841	2,029	141	635	46	164	425
Multibuilding Facility									
Not Part of a Multibuilding Facility									
College or University	83	32	21	11	N	51	N	43	Q
Primary or Secondary School	254	34	Q	20	N	221	Q	41	164
Office Complex	111	105	40	62	Q	Q	Q	Q	Q
Retail Complex	151	150	55	88	Q	Q	N	Q	N
Religious Campus or Complex	195	195	136	57	Q	N	N	N	N
Health Care Complex	39	30	14	16	N	Q	Q	Q	Q
Lodging or Resort Complex	61	59	15	40	Q	Q	Q	N	Q
Government Complex	87	Q	N	Q	N	84	15	Q	50
Other	496	456	152	284	Q	40	Q	Q	27
Predominant Exterior Wall Material									
Brick, Stone or Stucco	2,044	1,738	822	851	64	306	21	84	202
Concrete (Block or Poured)	786	682	326	322	35	104	5	12	87
Concrete Panels	131	113	35	73	Q	18	Q	8	10
Siding or Shingles	779	669	323	329	Q	110	Q	Q	66
Metal Panels	825	731	299	413	Q	93	Q	Q	57
Window Glass	17	16	2	14	Q	Q	Q	Q	Q
Other	47	45	27	18	Q	Q	Q	Q	Q
No One Major Type	18	Q	Q	Q	Q	Q	N	Q	Q
Predominant Roof Material									
Built-Up	1,036	848	344	460	44	188	8	51	129
Shingles (Not Wood)	1,325	1,159	592	536	Q	166	Q	46	113
Metal Surfacing	1,288	1,140	499	603	Q	148	Q	34	96
Synthetic or Rubber	511	431	208	208	Q	80	7	15	58
Slate or Tile	263	232	105	119	Q	31	Q	Q	Q
Wooden Materials	122	114	44	66	Q	Q	Q	Q	Q
Concrete	61	53	30	23	N	Q	Q	Q	Q
Other	16	12	Q	Q	Q	Q	Q	Q	Q
No One Major Type	25	23	Q	Q	N	Q	Q	N	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation									
Since 1980	1,018	871	484	368	Q	147	7	28	112
Addition or Annex	256	212	132	80	Q	44	Q	7	37
Reduction In Floorspace	22	18	12	Q	N	Q	Q	Q	Q
Cosmetic Improvements	741	648	367	268	Q	93	3	18	73
Wall or Roof Replacement	370	305	176	124	Q	65	Q	10	51
Interior Wall									
Re-Configuration	411	350	204	140	Q	60	3	11	46
HVAC Equipment Upgrade	442	360	222	135	Q	82	4	12	66
Lighting Upgrade	455	369	213	150	Q	85	4	16	66
Window Replacement	310	261	169	84	Q	50	Q	6	42
Plumbing System Upgrade	315	257	156	93	Q	58	3	11	44
Insulation Upgrade	227	197	117	74	Q	31	Q	Q	25
Other Renovation	19	18	13	Q	N	Q	Q	Q	Q
No Renovations Since 1980	1,710	1,477	647	748	82	233	27	66	140
Building Newer than 1980	1,917	1,663	710	913	40	254	12	71	172

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Table B17. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	4,645	4,011	1,841	2,029	141	635	46	164	425
Energy Sources (more than one may apply)									
Electricity	4,404	3,783	1,817	1,885	81	620	46	163	411
Natural Gas	2,391	2,078	1,044	997	36	313	23	72	218
Fuel Oil	451	371	209	161	Q	80	4	24	52
District Heat	67	25	16	8	Q	42	4	27	11
District Chilled Water	33	13	9	4	Q	19	0	12	7
Propane	502	425	225	194	Q	77	Q	Q	53
Other	132	122	75	46	Q	10	Q	Q	Q
Space-Heating Energy Sources (more than one may apply)									
Electricity	1,766	1,519	714	781	24	246	14	55	177
Natural Gas	2,165	1,879	975	872	31	287	21	65	201
Fuel Oil	360	309	183	126	N	51	Q	15	32
District Heat	65	23	16	7	Q	42	4	27	11
Propane	372	317	167	146	Q	55	Q	Q	38
Other	113	107	67	40	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source									
Electricity	1,258	1,093	490	581	Q	165	Q	40	117
Natural Gas	1,999	1,727	888	808	31	272	21	59	192
Fuel Oil	282	239	143	96	N	43	Q	Q	26
District Heat	63	22	16	7	Q	41	4	26	11
Propane	308	260	122	134	Q	47	Q	Q	33
Other	72	71	42	Q	N	Q	N	N	Q
Cooling Energy Sources (more than one may apply)									
Electricity	3,589	3,097	1,546	1,511	39	493	35	125	333
Natural Gas	17	12	7	4	N	Q	Q	Q	Q
District Chilled Water	33	13	9	4	Q	19	0	12	7
Water-Heating Energy Sources (more than one may apply)									
Electricity	1,910	1,657	847	796	Q	253	20	61	172
Natural Gas	1,445	1,248	618	611	Q	197	12	41	144
Fuel Oil	94	72	46	25	N	23	Q	Q	13
District Heat	27	11	8	Q	N	17	1	15	Q
Propane	128	107	49	58	N	21	Q	Q	17
Cooking Energy Sources (more than one may apply)									
Electricity	410	329	151	178	Q	81	Q	9	69
Natural Gas	457	389	170	217	Q	68	1	9	57
Propane	108	91	52	38	Q	16	Q	Q	13

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	Number of Buildings (thousand)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	4,645	4,011	1,841	2,029	141	635	46	164	425
Energy End Uses (more than one may apply)									
Buildings with Space Heating	3,982	3,413	1,700	1,655	58	569	40	151	378
Buildings with Cooling	3,625	3,112	1,556	1,516	39	513	35	139	340
Buildings with Water Heating	3,472	2,994	1,507	1,453	34	479	33	119	327
Buildings with Cooking	801	670	319	348	Q	131	Q	18	109
Buildings with Manufacturing	119	118	70	47	N	Q	Q	Q	Q
Buildings with Electricity Generation	149	97	53	44	Q	52	Q	13	38
Percent of Floorspace Heated									
Not Heated	663	598	140	374	83	66	Q	Q	46
1 to 50	523	478	221	245	Q	45	Q	Q	31
51 to 99	498	421	194	218	Q	77	5	13	59
100	2,962	2,515	1,285	1,192	37	447	32	126	289
Percent of Floorspace Cooled									
Not Cooled	1,020	899	284	513	102	121	Q	26	85
1 to 50	985	865	456	394	Q	120	Q	38	72
51 to 99	629	534	274	257	Q	95	6	17	72
100	2,011	1,713	826	866	Q	299	20	84	195
Percent Lit When Open									
Zero	47	45	Q	Q	N	Q	N	Q	Q
1 to 50	929	831	453	378	N	98	Q	26	64
51 to 99	1,108	939	477	463	N	168	17	36	115
100	2,176	1,839	863	977	N	337	21	98	218
Building Never Open/ Electricity Not Used	386	356	38	177	141	30	Q	Q	Q
Percent Lit When Closed									
Zero	1,964	1,660	805	796	58	304	Q	83	200
1 to 50	1,882	1,633	806	807	20	249	20	67	162
51 to 100	136	122	55	63	Q	15	Q	Q	Q
Building Never Closed/ Electricity Not Used	664	596	174	362	60	67	4	12	51
Heating Equipment (more than one may apply)									
Heat Pumps	476	401	226	170	Q	74	2	22	50
Packaged Heat Pumps	278	239	132	101	Q	39	Q	Q	26
Split-System Heat Pumps	166	152	91	61	N	14	Q	Q	Q
Individual Room Heat Pumps	58	32	14	18	N	25	Q	Q	23
Furnaces	1,864	1,664	863	772	Q	200	Q	48	144
Individual Space Heaters	819	700	329	358	Q	119	12	19	88
District Heat	65	23	16	7	Q	42	4	26	11
Boilers	579	448	254	191	Q	131	14	31	87
Packaged Heating Units	953	813	375	426	Q	140	6	27	107
Other	205	182	85	93	Q	23	Q	Q	15

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Table B17. Occupancy of Nongovernment-Owned and Government-Owned Buildings, Number of Buildings for Non-Mall Buildings, 2003

	Number of Buildings (thousand)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	4,645	4,011	1,841	2,029	141	635	46	164	425
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	1,006	915	463	444	Q	92	2	19	71
Heat Pumps	492	413	228	177	Q	79	Q	22	52
Packaged Heat Pumps	288	247	133	106	Q	41	Q	Q	25
Split-System Heat Pumps	174	157	93	64	N	17	Q	Q	Q
Individual Room Heat Pumps	58	33	14	19	N	25	Q	Q	23
Individual Air Conditioners	742	607	299	298	Q	135	Q	38	87
District Chilled Water	33	13	9	4	Q	19	0	12	7
Central Chillers	111	51	27	23	Q	60	4	21	35
Packaged Air Conditioning Units	1,613	1,403	689	702	Q	210	14	42	154
Swamp Coolers	122	98	51	47	Q	24	Q	Q	Q
Other	40	33	17	16	N	Q	Q	Q	Q
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	1,197	1,047	537	487	Q	150	7	42	101
Cooling	1,356	1,187	617	557	Q	170	15	44	111
Water Heating Equipment									
Centralized System	2,513	2,182	1,110	1,043	Q	331	27	80	224
Distributed System	785	681	325	352	Q	104	Q	28	72
Combination of Centralized and Distributed System	175	131	72	59	Q	43	2	11	31
Lighting Equipment Types (more than one may apply)									
Incandescent	2,184	1,913	973	928	Q	271	20	64	187
Standard Fluorescent	3,943	3,369	1,680	1,673	16	575	43	156	376
Compact Fluorescent	941	785	399	385	Q	156	11	49	97
High Intensity Discharge	455	348	177	166	Q	107	9	31	67
Halogen	565	503	251	247	Q	62	6	15	41
Other	8	Q	Q	Q	N	Q	N	Q	Q
Refrigeration Equipment (more than one may apply)^a									
Any Refrigeration.....	3,176	2,763	1,403	1,342	Q	413	23	110	280
Commercial Refrigeration	1,007	872	383	486	Q	135	Q	19	111
Walk-In Units	666	576	230	345	Q	90	2	12	75
Cases or Cabinets	825	729	317	410	Q	95	Q	15	77
Residential-Type Units	2,370	2,049	1,108	927	Q	321	19	85	216
Vending Machines	996	779	392	385	Q	217	15	62	140
No Refrigeration	1,469	1,248	437	687	123	221	Q	55	144

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	Number of Buildings (thousand)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	4,645	4,011	1,841	2,029	141	635	46	164	425
Office Equipment (more than one may apply)									
Computers	3,081	2,576	1,350	1,218	Q	505	28	144	333
With Flat Screen Monitors	877	717	381	336	N	159	12	52	95
Dedicated Servers	1,175	967	516	450	Q	208	16	46	146
Laser Printers	1,970	1,642	892	745	Q	328	13	84	232
Inkjet Printers	1,420	1,190	605	582	Q	230	19	67	144
FAX Machines	2,715	2,373	1,210	1,154	Q	341	20	98	224
Photocopiers	1,939	1,638	949	682	Q	301	20	88	193
Number of Computers									
None	1,565	1,435	491	811	133	130	Q	Q	92
1 to 4	1,670	1,491	748	735	Q	179	Q	54	120
5 to 9	559	491	268	223	N	68	Q	19	38
10 to 19	370	297	176	121	Q	73	Q	Q	47
20 to 49	255	181	104	76	N	74	Q	23	49
50 to 99	110	60	30	31	N	50	Q	13	36
100 to 249	79	35	15	20	N	44	Q	10	33
250 or More	38	21	9	11	N	17	1	6	10
Number of Dedicated Servers									
None	3,471	3,044	1,325	1,579	141	426	29	118	279
1 to 4	1,060	878	468	409	Q	182	13	36	133
5 to 9	58	45	26	18	N	13	Q	Q	9
10 to 19	30	23	11	12	N	7	1	4	Q
20 to 49	17	12	4	8	N	5	Q	Q	Q
50 or More	10	9	6	3	N	1	Q	Q	Q
Number of Photocopiers									
None	2,706	2,373	891	1,347	134	334	25	77	232
One	1,250	1,109	641	460	Q	142	Q	51	79
2 to 4	549	432	253	179	N	117	Q	26	85
5 to 9	85	57	35	22	N	28	Q	8	19
10 or More	54	40	20	21	N	14	1	3	10
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	799	668	319	348	Q	131	Q	18	109
Activities with Large Amounts of Hot Water	567	452	211	239	Q	115	Q	31	80
Separate Computer Area	553	353	186	167	Q	200	8	47	146
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	466	351	185	164	Q	115	3	35	77
Economizer Cycle	508	366	187	175	Q	143	6	46	91
HVAC Maintenance	2,581	2,119	1,084	1,018	16	462	32	129	302
Energy Management and Control System (EMCS)	252	124	64	57	Q	128	4	31	94

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	Number of Buildings (thousand)								
	All Buildings*	Nongovernment-Owned Buildings				Government-Owned Buildings			
		Nongovernment-Owned Buildings	Owner Occupied	Nonowner Occupied	Unoccupied	Government-Owned Buildings	Federal	State	Local
All Buildings*	4,645	4,011	1,841	2,029	141	635	46	164	425
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	2,201	1,874	993	845	35	327	20	83	224
Tinted Window Glass	1,323	1,120	556	543	20	204	13	56	135
Reflective Window Glass	308	277	132	140	Q	31	Q	8	19
External Overhangs or Awnings	1,233	1,101	540	537	Q	132	10	26	96
Skylights or Atriums	331	276	143	128	Q	54	4	15	35
Daylighting Sensors	74	62	33	27	Q	12	Q	Q	8
Specular Reflectors	928	752	389	358	Q	175	15	45	115
Electronic Ballasts	2,577	2,149	1,052	1,090	Q	428	25	111	292
Energy Management and Control System (EMCS) for Lighting	60	39	18	21	N	21	Q	Q	17
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^a									
Heating	2,878	2,463	1,280	1,143	40	415	24	104	287
Cooling	2,761	2,361	1,225	1,109	Q	401	28	104	269
Lighting	3,685	3,153	1,590	1,563	N	533	40	146	346
Office Equipment	1504	1230	687	539	Q	273	10	76	187

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.