

Buildings Characteristics

End-Use Percentage Tables

(16 pages, 92 kb)

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<p>These data are from the 1995 Commercial Buildings Energy Consumption Survey (CBECS), a national probability sample survey of commercial buildings sponsored by the Energy Information Administration, that provides information on the use of energy in commercial buildings in the United States. The 1995 CBECS was the sixth survey in a series begun in 1979. The data were collected from a sample of 6,639 buildings representing 4.6 million commercial buildings and 58.8 billion square feet of commercial floorspace in the U.S. The 1995 data are available for the four Census regions and nine Census division.</p>	
<p>Data provided here are in the public domain and may be reproduced without permission. appropriate credit would be appreciated. A suggested citation is "U.S. Department of Energy, Energy Information Administration, "A Look at Commercial Buildings in 1995: Characteristics, Energy Consumption, and Energy Expenditures."</p>	
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Table 29. Percent of Floorspace Heated, Number of Buildings and Floorspace, 1995

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	All Buildings	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	
	0.6	1.8	1.5	1.3	0.7	0.5	1.8	1.4	1.1	0.5	
RSE Column Factor:	0.6	1.8	1.5	1.3	0.7	0.5	1.8	1.4	1.1	0.5	
All Buildings	4,579	554	555	633	2,836	58,772	4,425	6,227	8,868	39,252	6.8
Building Floorspace (Square Feet)											
1,001 to 5,000	2,399	339	261	286	1,513	6,338	832	732	778	3,996	9.5
5,001 to 10,000	1,035	135	161	161	576	7,530	984	1,103	1,194	4,248	13.4
10,001 to 25,000	745	59	97	136	452	11,617	911	1,565	2,005	7,136	14.1
25,001 to 50,000	213	14	18	27	153	7,676	519	618	1,007	5,531	12.1
50,001 to 100,000	115	4	10	12	89	7,968	268	644	835	6,221	13.0
100,001 to 200,000	48	Q	5	6	35	6,776	Q	806	797	4,853	14.5
200,001 to 500,000	19	Q	1	4	13	5,553	Q	340	1,098	3,932	16.7
Over 500,000	6	Q	1	1	4	5,313	Q	418	1,154	3,334	18.6
Principal Building Activity											
Education	309	Q	Q	41	258	7,740	Q	Q	841	6,780	16.5
Food Sales	137	Q	Q	36	82	642	Q	Q	199	359	25.2
Food Service	285	Q	Q	40	218	1,353	Q	Q	220	981	23.2
Health Care	105	Q	Q	6	92	2,333	Q	Q	234	2,066	23.5
Lodging	158	Q	Q	15	137	3,618	Q	Q	502	3,067	20.8
Mercantile and Service	1,289	72	243	233	740	12,728	501	1,796	2,553	7,878	12.9
Office	705	Q	31	118	555	10,478	Q	375	2,148	7,935	13.7
Public Assembly	326	Q	24	51	236	3,948	Q	267	722	2,848	24.1
Public Order and Safety	87	Q	Q	Q	72	1,271	Q	Q	Q	954	39.9
Religious Worship	269	Q	Q	32	224	2,792	Q	Q	425	2,182	24.5
Warehouse and Storage	580	255	165	34	125	8,481	2,062	2,855	637	2,927	17.1
Other	67	Q	Q	Q	38	1,004	Q	Q	Q	710	50.2
Vacant	261	166	30	Q	60	2,384	1,417	321	Q	565	21.6
Year Constructed											
1919 or Before	353	Q	26	59	231	3,673	Q	275	618	2,536	20.5
1920 to 1945	562	66	107	98	291	6,710	759	1,306	867	3,777	17.0
1946 to 1959	867	98	89	137	543	9,298	597	849	1,563	6,289	14.5
1960 to 1969	718	67	81	123	448	10,858	833	1,037	1,581	7,406	14.3
1970 to 1979	813	91	82	81	559	11,333	844	1,089	1,660	7,740	12.4
1980 to 1989	846	105	103	96	542	12,252	790	1,336	1,885	8,241	13.3
1990 to 1992	218	Q	27	27	135	2,590	Q	159	376	1,933	23.8
1993 to 1995	202	Q	Q	12	88	2,059	Q	Q	319	1,330	30.5
Floors											
One	3,018	442	413	326	1,837	24,552	3,017	3,658	2,741	15,135	8.7
Two	1,002	74	89	209	629	14,122	733	1,348	2,449	9,592	11.8
Three	399	Q	42	72	265	7,335	Q	694	1,064	5,361	18.2
Four to Nine	148	Q	Q	23	96	8,789	Q	466	1,399	6,580	16.6
Ten or More	12	Q	Q	3	9	3,975	Q	Q	1,214	2,583	18.9
Census Region											
Northeast	725	69	77	129	451	11,883	703	1,018	2,501	7,661	16.1
Midwest	1,139	134	148	155	702	14,322	811	1,171	1,480	10,860	13.4
South	1,750	203	197	207	1,143	20,830	1,930	2,379	2,856	13,666	9.3
West	964	149	133	142	540	11,736	981	1,658	2,032	7,066	16.3

See footnotes at end of table.

**Table 29. Percent of Floorspace Heated, Number of Buildings and Floorspace, 1995
(Continued)**

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	All Buildings	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	
	0.6	1.8	1.5	1.3	0.7	0.5	1.8	1.4	1.1	0.5	
Climate Zone: 45-Year Average											
Fewer than 2,000 HDD and --											
More than 7,000 HDD	493	Q	46	117	281	5,098	Q	428	888	3,585	24.8
5,500 to 7,000 HDD	975	98	104	124	649	14,597	661	1,000	1,781	11,155	14.0
4,000 to 5,499 HDD	1,070	142	150	142	636	15,155	1,009	1,454	2,716	9,976	18.0
Fewer than 4,000 HDD	1,103	148	113	148	694	13,491	1,142	1,640	2,095	8,615	15.4
More than 2,000 HDD and --											
Fewer than 4,000 HDD	937	116	142	102	577	10,430	1,416	1,705	1,388	5,922	14.6
Workers (main shift)											
Fewer than 5	2,505	492	376	288	1,349	13,885	3,223	2,318	1,647	6,697	9.7
5 to 9	798	27	88	147	535	6,291	205	898	1,212	3,976	17.3
10 to 19	625	Q	57	106	445	7,102	196	1,180	1,065	4,660	15.8
20 to 49	400	Q	27	59	304	9,132	Q	830	1,236	6,833	13.4
50 to 99	138	Q	5	15	112	6,931	Q	404	728	5,510	16.1
100 to 249	71	Q	Q	12	56	5,988	Q	Q	995	4,694	14.1
250 or More	43	Q	1	6	36	9,443	Q	405	1,985	6,882	16.7
Weekly Operating Hours											
39 or Fewer	899	280	127	50	444	6,134	2,102	683	351	2,999	15.5
40 to 48	1,257	50	193	171	843	13,233	561	2,452	1,714	8,506	13.4
49 to 60	969	63	151	167	588	12,242	584	1,454	2,163	8,041	13.4
61 to 84	567	26	43	110	388	10,052	417	692	1,822	7,122	16.3
85 to 167	420	54	22	64	279	6,202	322	389	888	4,604	17.4
Open Continuously	466	81	20	71	294	10,908	439	558	1,931	7,980	14.3
Space in Building Vacant for at Least Three Consecutive Months											
Yes	787	245	126	79	337	15,844	2,400	1,708	2,664	9,072	12.2
No	3,791	309	429	554	2,499	42,928	2,025	4,518	6,204	30,180	7.7
Predominant Exterior Wall Material											
Masonry	3,061	287	342	451	1,982	42,958	2,741	3,887	5,949	30,381	8.3
Siding or Shingles	639	67	54	109	409	3,243	325	326	798	1,795	20.5
Metal Panels	662	182	139	48	293	5,694	1,135	1,115	741	2,704	14.7
Concrete Panels	106	Q	17	13	67	4,069	Q	810	635	2,486	22.2
Window Glass	46	Q	Q	Q	36	1,755	Q	Q	464	1,247	31.6
Other	50	Q	Q	Q	35	660	Q	Q	Q	427	41.8
No One Major Type	15	Q	Q	Q	Q	393	Q	Q	Q	212	73.0
Predominant Roof Material											
Built-Up	1,369	112	188	200	869	24,481	1,393	2,889	3,447	16,752	10.8
Shingles (Not Wood)	1,486	100	156	185	1,045	11,093	643	1,237	1,690	7,523	13.1
Metal Surfacing	908	236	160	99	413	7,941	1,478	1,324	1,066	4,073	12.0
Synthetic or Rubber	351	Q	12	59	262	10,235	Q	525	1,552	8,021	14.4
Slate or Tile	202	Q	Q	38	118	1,920	Q	Q	356	1,321	22.7
Wooden Materials	152	Q	Q	Q	76	1,130	Q	Q	Q	653	42.7
Concrete	58	Q	Q	Q	28	1,335	432	Q	Q	540	41.1
Other	36	Q	Q	Q	16	332	Q	Q	Q	193	57.6
No One Major Type	Q	Q	Q	Q	Q	305	Q	Q	Q	176	50.5

See footnotes at end of table.

**Table 29. Percent of Floorspace Heated, Number of Buildings and Floorspace, 1995
(Continued)**

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	All Buildings	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	
	0.6	1.8	1.5	1.3	0.7	0.5	1.8	1.4	1.1	0.5	
Energy Sources (more than one may apply)											
Electricity	4,343	340	542	630	2,831	57,076	2,966	6,152	8,859	39,099	7.0
Natural Gas	2,478	22	267	437	1,752	38,145	196	3,715	6,214	28,020	9.9
Fuel Oil	607	Q	93	90	423	14,421	Q	1,003	2,857	10,376	16.4
District Heat	110	Q	Q	7	101	5,658	Q	Q	748	4,828	20.3
District Chilled Water	53	Q	Q	2	49	2,521	Q	Q	285	2,130	28.5
Propane	589	Q	74	77	428	5,344	Q	538	794	3,950	22.1
Other	213	Q	49	30	130	2,336	Q	420	314	1,579	28.5
Space-Heating Energy Sources (more than one may apply)											
Electricity	1,467	--	234	242	991	22,156	--	3,108	4,183	14,864	11.3
Natural Gas	2,211	--	249	394	1,567	31,535	--	3,282	5,079	23,175	8.5
Fuel Oil	504	--	84	81	340	6,606	--	479	1,309	4,817	20.9
District Heat	109	--	Q	7	101	5,606	--	Q	748	4,793	20.2
Propane	301	--	30	26	245	2,025	--	247	173	1,606	28.5
Other	135	--	Q	22	80	1,050	--	Q	218	606	40.8
Primary Space-Heating Energy Source											
Electricity	1,007	--	179	138	689	13,500	--	2,282	2,532	8,687	13.2
Natural Gas	2,106	--	230	379	1,497	28,808	--	3,002	4,544	21,262	8.6
Fuel Oil	439	--	76	69	294	4,207	--	428	831	2,948	23.8
District Heat	107	--	Q	6	100	5,289	--	Q	708	4,515	20.2
Propane	260	--	29	Q	212	1,545	--	221	Q	1,229	31.5
Other	61	--	Q	Q	Q	514	--	Q	Q	Q	49.8
Energy End Uses (more than one may apply)											
Buildings with Space Heating	4,024	--	555	633	2,836	54,347	--	6,227	8,868	39,252	7.0
Buildings with Cooling	3,381	55	386	538	2,401	49,935	844	5,158	8,167	35,766	8.4
Buildings with Water Heating	3,486	69	387	544	2,486	51,560	764	4,976	8,302	37,518	8.3
Buildings with Cooking	828	24	58	128	618	20,713	375	900	3,376	16,062	12.4
Buildings with Manufacturing	204	Q	49	27	106	3,893	204	761	456	2,473	23.2
Buildings with Electricity Generation	247	Q	5	40	201	13,366	Q	479	2,652	10,034	16.0
Percent of Floorspace Cooled											
Not Cooled	1,198	499	169	95	435	8,837	3,581	1,069	702	3,486	14.6
1 to 50	930	24	322	114	470	15,027	Q	4,227	1,793	8,652	13.6
51 to 99	635	Q	Q	354	255	12,549	Q	155	5,548	6,718	13.1
100	1,816	23	47	70	1,676	22,359	362	776	825	20,395	13.1
Percent Lit when Open											
Zero	36	28	Q	Q	Q	189	145	Q	Q	Q	35.7
1 to 50	666	115	201	59	291	6,008	888	1,931	580	2,610	15.8
51 to 99	745	Q	59	258	417	9,692	Q	660	3,083	5,848	15.5
100	2,814	151	255	312	2,096	40,514	1,548	3,350	5,163	30,453	8.9
Building Not in Use/ Electricity Not Used	318	249	Q	Q	25	2,369	1,743	Q	Q	312	24.9

See footnotes at end of table.

**Table 29. Percent of Floorspace Heated, Number of Buildings and Floorspace, 1995
(Continued)**

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	All Buildings	Not Heated	1 to 50 Percent Heated	51 to 99 Percent Heated	100 Percent Heated	
	0.6	1.8	1.5	1.3	0.7	0.5	1.8	1.4	1.1	0.5	
Heating Equipment (more than one may apply)											
Heat Pumps	394	--	41	53	301	5,843	--	464	1,083	4,296	18.2
Furnaces	1,676	--	216	298	1,163	14,923	--	2,375	2,535	10,013	11.1
Individual Space Heaters	1,188	--	225	209	754	16,809	--	2,381	3,013	11,415	12.4
District Heat	115	--	Q	7	106	5,911	--	Q	805	5,026	20.1
Boilers	610	--	49	87	473	16,754	--	694	2,603	13,456	13.8
Packaged Heating Units	1,031	--	131	159	741	16,893	--	2,191	2,823	11,879	11.0
Other	161	--	29	34	98	6,249	--	563	1,345	4,341	24.8
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	3,380	155	350	497	2,379	46,355	1,414	3,953	7,499	33,488	8.5
Wall Insulation	2,372	57	232	391	1,693	31,694	582	2,612	5,494	23,006	10.3
Storm or Multiple Glazing	1,897	44	168	318	1,367	28,876	422	2,048	4,642	21,765	10.0
Tinted, Reflective or Shading Glass	1,202	31	134	211	826	24,245	559	2,040	4,188	17,458	12.0
Exterior or Interior Shading or Awnings	2,271	37	266	392	1,576	37,208	541	3,348	6,279	27,040	9.7
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	327	Q	8	46	272	13,473	Q	474	2,578	10,197	14.6
Economizer Cycle	461	Q	31	60	365	16,550	Q	643	3,082	12,759	14.2
HVAC Maintenance	2,403	Q	252	357	1,784	43,134	Q	3,340	6,820	32,876	8.5
Other Energy Efficient Equipment	198	Q	21	28	149	6,453	Q	374	1,036	4,998	17.3
Off-Hour Equipment Reduction (more than one may apply)											
Heating	3,211	--	452	488	2,271	38,326	--	4,883	5,972	27,471	8.1
Cooling	2,707	53	334	414	1,907	35,605	716	4,186	5,640	25,064	9.5
Lighting	3,753	231	491	540	2,491	44,937	2,189	5,268	6,754	30,725	8.2

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

-- = Data not applicable.

Notes: • To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1995 Commercial Buildings Energy Consumption Survey.

Table 30. Percent of Floorspace Cooled, Number of Buildings and Floorspace, 1995

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	All Buildings	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	
RSE Column Factor:	0.7	1.5	1.3	1.4	0.9	0.5	1.4	1.0	0.9	0.7	
All Buildings	4,579	1,198	930	635	1,816	58,772	8,837	15,027	12,549	22,359	6.0
Building Floorspace (Square Feet)											
1,001 to 5,000	2,399	749	363	289	998	6,338	1,962	1,067	690	2,619	9.2
5,001 to 10,000	1,035	280	254	145	355	7,530	1,999	1,881	1,031	2,620	12.3
10,001 to 25,000	745	125	196	117	307	11,617	1,905	3,265	1,837	4,610	12.0
25,001 to 50,000	213	26	65	39	83	7,676	916	2,282	1,450	3,028	10.1
50,001 to 100,000	115	12	34	24	45	7,968	790	2,263	1,752	3,163	10.6
100,001 to 200,000	48	4	12	13	19	6,776	601	1,722	1,843	2,610	12.6
200,001 to 500,000	19	1	5	6	7	5,553	318	1,493	1,685	2,057	13.5
Over 500,000	6	Q	1	2	2	5,313	Q	1,053	2,261	1,653	16.2
Principal Building Activity											
Education	309	60	64	56	129	7,740	1,000	2,821	1,489	2,431	13.7
Food Sales	137	Q	Q	34	75	642	Q	Q	153	357	24.2
Food Service	285	Q	Q	57	189	1,353	Q	Q	336	835	17.7
Health Care	105	Q	Q	8	77	2,333	Q	Q	760	1,424	19.2
Lodging	158	32	12	22	92	3,618	425	401	811	1,982	20.9
Mercantile and Service	1,289	373	356	199	361	12,728	1,642	3,349	3,171	4,565	11.5
Office	705	Q	51	151	487	10,478	Q	690	3,657	6,014	11.9
Public Assembly	326	80	57	47	143	3,948	554	729	957	1,708	19.0
Public Order and Safety	87	Q	20	8	11	1,271	Q	263	220	373	30.1
Religious Worship	269	46	61	15	146	2,792	378	749	219	1,446	21.2
Warehouse and Storage	580	318	196	Q	49	8,481	2,490	5,082	252	658	17.5
Other	67	Q	9	20	Q	1,004	Q	186	455	281	35.9
Vacant	261	188	39	Q	33	2,384	1,651	376	Q	287	21.4
Year Constructed											
1919 or Before	353	93	106	64	90	3,673	854	1,228	747	842	18.2
1920 to 1945	562	180	136	86	161	6,710	1,672	2,456	1,212	1,370	15.0
1946 to 1959	867	250	191	133	293	9,298	1,749	2,757	1,788	3,004	12.6
1960 to 1969	718	210	158	101	250	10,858	1,880	2,988	2,316	3,673	11.8
1970 to 1979	813	125	163	92	434	11,333	944	2,549	2,688	5,152	11.3
1980 to 1989	846	189	135	129	394	12,252	1,078	2,342	2,826	6,006	11.7
1990 to 1992	218	57	22	18	121	2,590	245	398	537	1,410	19.7
1993 to 1995	202	94	20	12	75	2,059	415	309	434	901	24.2
Floors											
One	3,018	874	551	336	1,257	24,552	4,917	7,140	3,241	9,255	8.4
Two	1,002	211	210	175	406	14,122	1,813	3,743	2,977	5,588	10.4
Three	399	80	139	79	101	7,335	1,069	2,246	1,508	2,511	15.3
Four to Nine	148	32	30	39	46	8,789	869	1,677	2,697	3,547	15.4
Ten or More	12	Q	Q	6	5	3,975	Q	Q	2,126	1,458	16.2
Census Region											
Northeast	725	275	164	102	185	11,883	2,360	3,784	3,063	2,677	12.3
Midwest	1,139	329	283	181	346	14,322	2,289	4,414	3,040	4,578	12.0
South	1,750	317	316	233	884	20,830	2,224	4,311	4,262	10,033	9.4
West	964	278	166	120	401	11,736	1,964	2,517	2,184	5,071	13.2

See footnotes at end of table.

**Table 30. Percent of Floorspace Cooled, Number of Buildings and Floorspace, 1995
(Continued)**

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	All Buildings	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	
RSE Column Factor:	0.7	1.5	1.3	1.4	0.9	0.5	1.4	1.0	0.9	0.7	
Climate Zone: 45-Year Average											
Fewer than 2,000 CDD and --											
More than 7,000 HDD	493	172	119	90	112	5,098	982	1,794	1,186	1,135	21.4
5,500 to 7,000 HDD	975	319	220	144	292	14,597	2,695	4,284	3,343	4,275	10.9
4,000 to 5,499 HDD	1,070	355	253	133	328	15,155	2,535	4,327	3,616	4,677	15.5
Fewer than 4,000 HDD	1,103	217	177	141	569	13,491	1,510	2,789	2,441	6,751	15.4
More than 2,000 CDD and --											
Fewer than 4,000 HDD	937	135	161	128	515	10,430	1,115	1,833	1,962	5,520	14.3
Workers (main shift)											
Fewer than 5	2,505	962	454	240	849	13,885	5,562	3,149	1,106	4,069	9.4
5 to 9	798	107	199	169	323	6,291	1,031	2,136	1,110	2,014	14.4
10 to 19	625	76	146	89	314	7,102	652	2,596	965	2,889	14.0
20 to 49	400	39	84	78	198	9,132	830	2,727	1,939	3,636	12.6
50 to 99	138	9	31	29	69	6,931	552	1,752	1,852	2,775	13.7
100 to 249	71	Q	13	18	38	5,988	Q	1,672	1,453	2,746	12.4
250 or More	43	Q	4	12	25	9,443	Q	994	4,125	4,230	14.3
Weekly Operating Hours											
39 or Fewer	899	501	128	61	209	6,134	3,289	990	421	1,434	14.8
40 to 48	1,257	210	300	142	604	13,233	1,832	4,714	1,931	4,756	11.1
49 to 60	969	175	292	186	316	12,242	1,345	3,925	2,775	4,197	11.8
61 to 84	567	121	106	86	254	10,052	840	2,143	2,812	4,258	13.1
85 to 167	420	76	43	79	222	6,202	558	1,298	1,363	2,983	14.5
Open Continuously	466	116	60	80	210	10,908	973	1,958	3,246	4,732	12.9
Space in Building Vacant for at Least Three Consecutive Months											
Yes	787	310	186	90	202	15,844	2,908	3,024	4,339	5,572	11.6
No	3,791	888	744	546	1,614	42,928	5,929	12,002	8,209	16,787	6.6
Predominant Exterior Wall Material											
Masonry	3,061	632	612	457	1,359	42,958	5,565	10,531	9,276	17,586	6.8
Siding or Shingles	639	190	134	107	208	3,243	874	866	615	888	18.0
Metal Panels	662	340	146	44	132	5,694	1,981	2,047	680	987	14.8
Concrete Panels	106	Q	34	11	46	4,069	279	1,290	1,000	1,500	18.8
Window Glass	46	Q	Q	Q	33	1,755	Q	Q	686	873	25.8
Other	50	Q	Q	3	29	660	Q	Q	204	339	32.7
No One Major Type	15	Q	Q	Q	Q	393	Q	Q	Q	Q	62.2
Predominant Roof Material											
Built-Up	1,369	256	297	225	591	24,481	2,736	6,110	5,540	10,094	9.2
Shingles (Not Wood)	1,486	337	287	183	679	11,093	1,968	2,718	1,637	4,770	10.8
Metal Surfacing	908	401	193	81	233	7,941	2,377	2,438	996	2,130	12.5
Synthetic or Rubber	351	55	60	75	162	10,235	573	2,446	3,387	3,829	13.1
Slate or Tile	202	59	43	46	54	1,920	421	567	394	537	21.2
Wooden Materials	152	Q	Q	Q	57	1,130	Q	Q	Q	368	33.5
Concrete	58	Q	Q	Q	21	1,335	Q	315	360	391	40.2
Other	36	Q	Q	Q	Q	332	Q	Q	Q	Q	46.0
No One Major Type	Q	Q	Q	Q	Q	305	Q	Q	Q	Q	50.4

See footnotes at end of table.

**Table 30. Percent of Floorspace Cooled, Number of Buildings and Floorspace, 1995
(Continued)**

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	All Buildings	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	
	0.7	1.5	1.3	1.4	0.9	0.5	1.4	1.0	0.9	0.7	
Energy Sources (more than one may apply)											
Electricity	4,343	967	926	635	1,816	57,076	7,291	14,917	12,536	22,331	6.0
Natural Gas	2,478	347	594	455	1,082	38,145	3,045	10,827	9,369	14,904	7.1
Fuel Oil	607	219	165	92	131	14,421	1,517	3,441	4,662	4,801	14.5
District Heat	110	14	17	24	55	5,658	530	1,019	1,742	2,366	20.4
District Chilled Water	53	Q	Q	10	40	2,521	Q	Q	705	1,645	25.1
Propane	589	158	126	47	258	5,344	824	1,391	842	2,288	18.3
Other	213	106	55	21	31	2,336	393	860	544	539	23.6
Cooling Energy Sources (more than one may apply)											
Electricity	3,293	--	912	618	1,763	47,761	--	14,632	12,035	21,095	6.0
Natural Gas	65	--	17	18	30	1,314	--	244	373	697	30.6
District Chilled Water	53	--	Q	10	40	2,521	--	Q	705	1,645	25.1
Energy End Uses (more than one may apply)											
Buildings with Space Heating	4,024	699	905	627	1,793	54,347	5,257	14,672	12,421	21,997	6.4
Buildings with Cooling	3,381	--	930	635	1,816	49,935	--	15,027	12,549	22,359	5.9
Buildings with Water Heating	3,486	518	803	540	1,626	51,560	4,311	13,902	11,975	21,372	6.6
Buildings with Cooking	828	104	141	147	436	20,713	1,248	3,884	6,210	9,371	9.4
Buildings with Manufacturing	204	40	60	38	66	3,893	306	1,550	926	1,112	22.3
Buildings with Electricity Generation	247	Q	54	56	96	13,366	380	2,189	5,144	5,653	14.2
Percent of Floorspace Heated											
Not Heated	554	499	24	Q	23	4,425	3,581	Q	Q	362	19.5
1 to 50	555	169	322	Q	47	6,227	1,069	4,227	155	776	18.3
51 to 99	633	95	114	354	70	8,868	702	1,793	5,548	825	15.5
100	2,836	435	470	255	1,676	39,252	3,486	8,652	6,718	20,395	6.9
Percent Lit when Open											
Zero	36	35	Q	Q	Q	189	160	Q	Q	Q	35.4
1 to 50	666	197	252	59	157	6,008	1,431	2,675	518	1,384	14.9
51 to 99	745	130	133	238	244	9,692	1,101	2,034	3,467	3,089	13.5
100	2,814	552	533	332	1,397	40,514	4,143	10,140	8,530	17,702	7.5
Building Not in Use/ Electricity Not Used	318	283	Q	Q	Q	2,369	2,003	Q	Q	Q	17.2
Cooling Equipment (more than one may apply)											
Residential-Type Central Air Conditioners	878	--	222	182	474	9,238	--	3,249	2,015	3,974	11.3
Heat Pumps	457	--	80	85	292	6,931	--	1,330	2,068	3,533	15.1
Individual Air Conditioners	862	--	394	182	286	12,494	--	6,395	2,965	3,133	10.0
District Chilled Water	53	--	Q	10	40	2,521	--	Q	705	1,645	25.1
Central Chillers	109	--	8	34	67	11,065	--	969	4,956	5,140	12.5
Packaged Air Conditioning Units	1,431	--	300	292	839	26,628	--	7,235	7,335	12,059	8.0
Swamp Coolers	186	--	37	37	112	2,451	--	597	595	1,260	24.8
Other	18	--	Q	7	7	949	--	Q	325	417	27.2

See footnotes at end of table.

**Table 30. Percent of Floorspace Cooled, Number of Buildings and Floorspace, 1995
(Continued)**

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	All Buildings	Not Cooled	1 to 50 Percent Cooled	51 to 99 Percent Cooled	100 Percent Cooled	
	0.7	1.5	1.3	1.4	0.9	0.5	1.4	1.0	0.9	0.7	
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	3,380	576	703	537	1,565	46,355	4,157	11,596	10,941	19,662	7.1
Wall Insulation	2,372	315	448	405	1,204	31,694	2,148	7,053	7,915	14,577	8.3
Storm or Multiple Glazing	1,897	278	418	362	839	28,876	2,175	6,949	7,579	12,173	8.4
Tinted, Reflective or Shading Glass	1,202	98	237	240	627	24,245	1,043	4,903	6,891	11,408	9.6
Exterior or Interior Shading or Awnings	2,271	223	521	436	1,092	37,208	2,567	9,387	9,573	15,681	7.8
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	327	12	41	74	200	13,473	324	2,021	4,656	6,473	14.6
Economizer Cycle	461	Q	81	108	272	16,550	Q	2,679	6,183	7,688	10.6
HVAC Maintenance	2,403	300	500	429	1,173	43,134	2,984	10,564	10,939	18,648	7.7
Other Energy Efficient Equipment	198	Q	29	37	97	6,453	361	1,160	2,020	2,911	17.1
Off-Hour Equipment Reduction (more than one may apply)											
Heating	3,211	581	768	469	1,393	38,326	3,892	11,407	8,027	15,000	7.1
Cooling	2,707	--	804	471	1,433	35,605	--	11,744	8,321	15,540	6.6
Lighting	3,753	789	860	531	1,572	44,937	5,700	12,876	9,058	17,303	6.8

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

-- = Data not applicable.

Notes: • To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1995 Commercial Buildings Energy Consumption Survey.

Table 31. Percent of Floorspace Lit when Open, Number of Buildings and Floorspace, 1995

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Not Lit ^a	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	All Buildings	Not Lit ^a	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	
RSE Column Factor:	0.6	2.2	1.4	1.4	0.7	0.5	2.0	1.2	1.0	0.5	
All Buildings	4,579	354	666	745	2,814	58,772	2,558	6,008	9,692	40,514	7.1
Building Floorspace (Square Feet)											
1,001 to 5,000	2,399	226	363	363	1,446	6,338	585	967	948	3,839	10.2
5,001 to 10,000	1,035	86	150	166	632	7,530	632	1,086	1,163	4,650	13.9
10,001 to 25,000	745	33	120	157	435	11,617	487	1,852	2,388	6,890	14.2
25,001 to 50,000	213	5	18	27	163	7,676	156	658	984	5,877	10.5
50,001 to 100,000	115	Q	11	19	83	7,968	Q	696	1,290	5,823	12.3
100,001 to 200,000	48	Q	2	9	35	6,776	Q	310	1,245	5,002	13.7
200,001 to 500,000	19	Q	Q	3	15	5,553	Q	Q	903	4,358	13.6
Over 500,000	6	Q	Q	1	4	5,313	Q	Q	771	4,075	15.9
Principal Building Activity											
Education	309	Q	31	54	223	7,740	Q	377	1,337	5,959	18.9
Food Sales	137	Q	Q	Q	99	642	Q	Q	Q	493	25.7
Food Service	285	Q	Q	51	189	1,353	Q	Q	335	810	21.7
Health Care	105	Q	Q	23	72	2,333	Q	Q	567	1,705	24.9
Lodging	158	Q	30	20	108	3,618	Q	365	495	2,741	21.0
Mercantile and Service	1,289	Q	170	223	876	12,728	Q	1,051	1,983	9,587	13.7
Office	705	Q	57	162	477	10,478	Q	404	2,354	7,694	13.7
Public Assembly	326	Q	53	72	201	3,948	Q	376	931	2,619	20.8
Public Order and Safety	87	Q	Q	8	67	1,271	Q	Q	235	948	38.2
Religious Worship	269	Q	54	51	164	2,792	Q	920	447	1,425	22.0
Warehouse and Storage	580	125	152	48	255	8,481	606	1,657	719	5,498	17.0
Other	67	Q	Q	Q	56	1,004	Q	Q	Q	782	44.1
Vacant	261	196	24	Q	28	2,384	1,690	352	Q	253	23.8
Year Constructed											
1919 or Before	353	Q	65	77	186	3,673	Q	598	755	2,116	21.0
1920 to 1945	562	81	120	120	241	6,710	696	1,327	1,493	3,193	15.8
1946 to 1959	867	63	130	136	538	9,298	401	1,211	1,478	6,207	14.4
1960 to 1969	718	33	95	132	458	10,858	303	990	1,481	8,084	14.0
1970 to 1979	813	20	92	142	559	11,333	234	664	2,103	8,333	13.2
1980 to 1989	846	69	102	109	565	12,252	489	890	1,790	9,083	13.1
1990 to 1992	218	Q	23	Q	154	2,590	Q	161	328	2,031	23.6
1993 to 1995	202	Q	37	Q	112	2,059	Q	168	264	1,467	29.3
Floors											
One	3,018	301	333	404	1,980	24,552	1,769	2,215	3,100	17,467	9.7
Two	1,002	33	199	212	557	14,122	314	1,801	2,713	9,293	12.1
Three	399	Q	104	100	181	7,335	Q	1,121	1,707	4,289	17.1
Four to Nine	148	Q	29	28	86	8,789	Q	720	1,606	6,353	17.1
Ten or More	12	Q	1	2	9	3,975	Q	150	566	3,112	19.6
Census Region											
Northeast	725	38	113	148	427	11,883	548	1,130	2,418	7,787	16.3
Midwest	1,139	101	209	201	628	14,322	604	1,598	2,247	9,874	13.5
South	1,750	152	212	238	1,148	20,830	1,040	2,172	3,011	14,608	11.9
West	964	63	131	159	611	11,736	367	1,109	2,016	8,245	14.4

See footnotes at end of table.

Table 31. Percent of Floorspace Lit when Open, Number of Buildings and Floorspace, 1995 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Not Lit ^a	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	All Buildings	Not Lit ^a	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	
	0.6	2.2	1.4	1.4	0.7	0.5	2.0	1.2	1.0	0.5	
Workers (main shift)											
Fewer than 5	2,505	349	513	370	1,273	13,885	2,399	3,461	1,718	6,308	10.6
5 to 9	798	Q	110	178	509	6,291	Q	1,093	1,443	3,727	15.6
10 to 19	625	Q	26	89	510	7,102	Q	698	1,058	5,345	14.8
20 to 49	400	Q	12	66	319	9,132	Q	414	1,669	7,020	13.0
50 to 99	138	Q	4	25	108	6,931	Q	229	1,260	5,370	16.0
100 to 249	71	Q	Q	12	58	5,988	Q	Q	1,130	4,784	13.0
250 or More	43	Q	Q	6	37	9,443	Q	Q	1,413	7,960	15.5
Weekly Operating Hours											
39 or Fewer	899	239	122	100	439	6,134	1,911	890	642	2,692	14.7
40 to 48	1,257	Q	203	258	779	13,233	165	1,827	2,734	8,507	12.8
49 to 60	969	Q	143	167	635	12,242	Q	1,523	1,934	8,654	13.1
61 to 84	567	Q	101	94	364	10,052	Q	752	1,733	7,507	14.5
85 to 167	420	Q	20	68	312	6,202	Q	332	1,068	4,730	17.8
Open Continuously	466	45	77	58	285	10,908	220	684	1,580	8,424	13.1
Space in Building Vacant for at Least Three Consecutive Months											
Yes	787	223	142	110	313	15,844	1,943	1,835	2,543	9,523	11.9
No	3,791	132	523	636	2,501	42,928	614	4,174	7,148	30,991	8.3
Energy Sources (more than one may apply)											
Electricity	4,343	119	666	745	2,814	57,076	862	6,008	9,692	40,514	7.5
Natural Gas	2,478	38	362	472	1,606	38,145	422	3,729	6,870	27,125	8.7
Fuel Oil	607	Q	101	106	379	14,421	Q	1,063	2,691	10,525	15.1
District Heat	110	Q	7	24	79	5,658	Q	209	1,047	4,382	23.1
District Chilled Water	53	Q	Q	Q	40	2,521	Q	Q	520	1,965	29.5
Propane	589	Q	88	110	386	5,344	Q	597	1,219	3,487	21.0
Other	213	Q	Q	Q	139	2,336	Q	Q	449	1,438	27.9
Energy End Uses (more than one may apply)											
Buildings with Space Heating	4,024	76	551	735	2,662	54,347	669	5,120	9,591	38,967	7.8
Buildings with Cooling	3,381	36	468	615	2,262	49,935	396	4,577	8,590	36,371	8.3
Buildings with Water Heating	3,486	55	491	654	2,286	51,560	544	4,595	9,167	37,254	8.0
Buildings with Cooking	828	Q	89	149	581	20,713	Q	1,164	3,712	15,674	10.4
Buildings with Manufacturing	204	Q	30	40	128	3,893	Q	485	628	2,744	25.4
Buildings with Electricity Generation	247	Q	26	40	180	13,366	Q	475	2,467	10,378	16.8
Percent of Floorspace Heated											
Not Heated	554	278	115	Q	151	4,425	1,888	888	Q	1,548	18.2
1 to 50	555	Q	201	59	255	6,227	Q	1,931	660	3,350	18.7
51 to 99	633	Q	59	258	312	8,868	Q	580	3,083	5,163	16.4
100	2,836	32	291	417	2,096	39,252	341	2,610	5,848	30,453	9.0
Percent of Floorspace Cooled											
Not Cooled	1,198	319	197	130	552	8,837	2,162	1,431	1,101	4,143	14.6
1 to 50	930	Q	252	133	533	15,027	Q	2,675	2,034	10,140	12.7
51 to 99	635	Q	59	238	332	12,549	Q	518	3,467	8,530	13.7
100	1,816	Q	157	244	1,397	22,359	Q	1,384	3,089	17,702	10.4

See footnotes at end of table.

Table 31. Percent of Floorspace Lit when Open, Number of Buildings and Floorspace, 1995 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Not Lit ^a	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	All Buildings	Not Lit ^a	1 to 50 Percent Lit	51 to 99 Percent Lit	100 Percent Lit	
	0.6	2.2	1.4	1.4	0.7	0.5	2.0	1.2	1.0	0.5	
Percent Lit when Closed											
Zero	1,644	24	305	280	1,034	13,101	143	2,462	2,165	8,332	14.5
1 to 50	2,109	Q	270	389	1,438	30,711	Q	2,742	5,661	22,262	8.8
51 to 100	87	Q	Q	18	56	1,914	Q	Q	297	1,496	33.5
Never Closed	421	Q	77	58	285	10,677	Q	684	1,569	8,424	13.0
Building Not in Use/ Electricity Not Used	318	318	--	--	--	2,369	2,369	--	--	--	15.2
Lighting Equipment Types (more than one may apply)											
Incandescent	2,479	--	446	498	1,529	35,715	--	3,971	6,850	24,873	7.9
Standard Fluorescent	3,885	--	569	699	2,618	53,984	--	5,533	9,508	38,934	7.1
Compact Fluorescent	364	--	42	48	275	14,273	--	801	2,615	10,857	14.1
High-Intensity Discharge	393	--	36	91	266	16,259	--	763	2,796	12,700	13.9
Halogen	302	--	37	66	198	9,665	--	513	1,801	7,346	16.7
Other	30	--	Q	Q	Q	554	--	Q	Q	390	81.4
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	3,380	98	443	614	2,226	46,355	852	3,762	8,106	33,635	8.4
Wall Insulation	2,372	57	315	439	1,560	31,694	529	2,685	5,834	22,646	9.3
Storm or Multiple Glazing	1,897	44	287	329	1,236	28,876	431	2,553	5,066	20,827	9.9
Tinted, Reflective or Shading Glass	1,202	14	183	231	774	24,245	173	1,791	4,133	18,148	10.8
Exterior or Interior Shading or Awnings	2,271	39	330	457	1,445	37,208	502	3,303	7,081	26,322	8.9
Lighting Conservation Features (more than one may apply)											
Specular Reflectors	749	--	91	148	510	17,868	--	1,176	3,165	13,527	11.6
Energy-Efficient Ballasts	1,363	--	132	223	1,008	28,375	--	1,677	5,025	21,673	10.9
Natural Lighting Control Sensors	237	--	29	32	177	6,431	--	404	941	5,087	20.7
Occupancy Sensors	131	--	19	34	77	5,958	--	242	1,095	4,621	23.2
Time Clock	467	--	63	100	304	13,262	--	730	2,307	10,226	15.4
Manual Dimmer Switches	501	--	88	122	291	13,056	--	1,222	2,729	9,105	13.1
Other	79	--	Q	20	50	2,836	--	Q	663	2,021	28.6
Off-Hour Equipment Reduction (more than one may apply)											
Heating	3,211	Q	458	614	2,121	38,326	Q	4,169	7,073	26,896	8.2
Cooling	2,707	Q	407	503	1,795	35,605	Q	3,850	6,339	25,291	8.1
Lighting	3,753	--	561	677	2,515	44,937	--	5,052	8,017	31,867	7.9

^a Includes buildings that were zero percent lit when open, buildings that were not in use, and buildings that did not use any electricity.

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

-- = Data not applicable.

Notes: • To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1995 Commercial Buildings Energy Consumption Survey.

Table 32. Heated, Cooled, and Lit Buildings, Floorspace, 1995
(Million Square Feet)

Building Characteristics	Total Floorspace in All Buildings	Heated Buildings		Cooled Buildings		Lit Buildings		RSE Row Factor
		Total ^a Floorspace	Heated ^b Floorspace	Total ^a Floorspace	Cooled ^b Floorspace	Total ^a Floorspace	Lit ^b Floorspace	
RSE Column Factor:	1.0	1.0	1.0	1.0	1.1	1.0	1.0	
All Buildings	58,772	54,347	48,065	49,935	36,001	56,261	50,303	3.6
Building Floorspace (Square Feet)								
1,001 to 5,000	6,338	5,506	4,845	4,376	3,467	5,785	4,883	4.8
5,001 to 10,000	7,530	6,546	5,563	5,531	4,003	6,898	5,954	8.2
10,001 to 25,000	11,617	10,706	9,169	9,712	6,915	11,136	9,278	6.8
25,001 to 50,000	7,676	7,157	6,502	6,760	4,665	7,528	6,888	6.6
50,001 to 100,000	7,968	7,699	7,041	7,178	5,086	7,809	7,119	6.2
100,001 to 200,000	6,776	6,456	5,693	6,175	4,404	6,557	6,185	7.6
200,001 to 500,000	5,553	5,371	4,907	5,235	3,714	5,504	5,214	7.8
Over 500,000	5,313	4,906	4,345	4,968	3,748	5,043	4,782	8.9
Principal Building Activity								
Education	7,740	7,740	7,582	6,741	4,178	7,672	7,259	7.0
Food Sales	642	609	531	612	512	642	595	12.7
Food Service	1,353	1,299	1,197	1,310	1,135	1,353	1,158	12.9
Health Care	2,333	2,333	2,295	2,323	2,141	2,333	2,212	8.8
Lodging	3,618	3,608	3,490	3,193	2,737	3,601	3,272	9.8
Mercantile and Service	12,728	12,227	10,473	11,086	8,050	12,621	11,546	7.2
Office	10,478	10,458	9,829	10,360	9,287	10,451	9,774	6.2
Public Assembly	3,948	3,836	3,541	3,394	2,691	3,927	3,451	9.6
Public Order and Safety	1,271	1,154	1,094	856	622	1,271	1,167	18.0
Religious Worship	2,792	2,791	2,608	2,414	1,834	2,792	2,029	10.9
Warehouse and Storage	8,481	6,419	3,918	5,991	1,709	7,894	6,544	11.6
Other	1,004	907	841	921	707	988	904	22.0
Vacant	2,384	966	669	732	400	715	392	16.5
Year Constructed								
1919 or Before	3,673	3,429	3,137	2,818	1,718	3,469	2,887	10.4
1920 to 1945	6,710	5,951	4,747	5,038	2,865	6,024	4,786	9.2
1946 to 1959	9,298	8,701	7,810	7,549	5,029	8,897	7,836	7.9
1960 to 1969	10,858	10,024	9,051	8,978	6,299	10,555	9,661	6.3
1970 to 1979	11,333	10,489	9,364	10,389	7,941	11,120	10,225	5.3
1980 to 1989	12,252	11,462	10,033	11,174	8,850	11,769	10,805	6.6
1990 to 1992	2,590	2,467	2,303	2,345	1,966	2,529	2,371	10.1
1993 to 1995	2,059	1,824	1,621	1,644	1,334	1,898	1,733	12.5
Floors								
One	24,552	21,535	18,101	19,635	13,382	22,829	20,610	5.3
Two	14,122	13,389	12,022	12,308	8,931	13,808	12,160	5.4
Three	7,335	7,119	6,487	6,266	4,187	7,117	5,992	8.5
Four to Nine	8,789	8,446	7,894	7,920	6,205	8,679	7,917	6.5
Ten or More	3,975	3,859	3,562	3,805	3,297	3,829	3,624	10.3
Census Region								
Northeast	11,883	11,180	9,919	9,523	5,936	11,346	10,092	7.1
Midwest	14,322	13,511	12,382	12,033	7,998	13,719	12,230	6.4
South	20,830	18,900	16,667	18,606	14,716	19,827	17,726	5.9
West	11,736	10,756	9,097	9,772	7,352	11,370	10,256	8.0
Climate Zone: 45-Year Average								
Fewer than 2,000 CDD and --								
More than 7,000 HDD	5,098	4,901	4,476	4,115	2,521	4,882	4,374	11.8
5,500 to 7,000 HDD	14,597	13,937	12,735	11,903	7,816	14,233	12,600	7.5
4,000 to 5,499 HDD	15,155	14,147	12,607	12,620	8,591	14,357	12,870	8.2
Fewer than 4,000 HDD	13,491	12,350	10,753	11,981	9,473	12,957	11,662	10.7
More than 2,000 CDD and --								
Fewer than 4,000 HDD	10,430	9,014	7,494	9,315	7,599	9,831	8,797	9.5

See footnotes at end of table.

Table 32. Heated, Cooled, and Lit Buildings, Floorspace, 1995 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace in All Buildings	Heated Buildings		Cooled Buildings		Lit Buildings		RSE Row Factor
		Total ^a Floorspace	Heated ^b Floorspace	Total ^a Floorspace	Cooled ^b Floorspace	Total ^a Floorspace	Lit ^b Floorspace	
RSE Column Factor:	1.0	1.0	1.0	1.0	1.1	1.0	1.0	
Workers (main shift)								
Fewer than 5	13,885	10,663	8,585	8,324	5,715	11,533	8,666	7.0
5 to 9	6,291	6,086	5,213	5,260	3,349	6,264	5,168	8.3
10 to 19	7,102	6,905	5,771	6,449	4,216	7,102	6,401	6.9
20 to 49	9,132	8,899	8,038	8,302	5,808	9,103	8,540	6.1
50 to 99	6,931	6,642	6,215	6,379	4,666	6,860	6,517	6.9
100 to 249	5,988	5,880	5,603	5,872	4,269	5,975	5,799	7.1
250 or More	9,443	9,272	8,642	9,349	7,979	9,425	9,213	6.3
Weekly Operating Hours								
39 or Fewer	6,134	4,032	3,422	2,845	2,003	4,224	3,499	10.0
40 to 48	13,233	12,672	10,425	11,401	7,254	13,079	11,216	6.9
49 to 60	12,242	11,658	10,203	10,897	7,385	12,134	10,738	6.6
61 to 84	10,052	9,635	8,819	9,212	7,055	9,992	9,206	6.7
85 to 167	6,202	5,880	5,463	5,644	4,398	6,145	5,716	7.1
Open Continuously	10,908	10,469	9,734	9,936	7,906	10,688	9,928	5.9
Space in Building Vacant for at Least Three Consecutive Months								
Yes	15,844	13,445	11,751	12,936	9,914	13,922	12,173	6.0
No	42,928	40,902	36,314	36,999	26,087	42,338	38,130	3.9
Predominant Exterior Wall Material								
Masonry	42,958	40,217	36,407	37,394	27,653	41,339	36,881	4.1
Siding or Shingles	3,243	2,919	2,514	2,369	1,569	3,102	2,582	14.0
Metal Panels	5,694	4,559	3,466	3,713	1,928	5,073	4,480	9.0
Concrete Panels	4,069	3,932	3,157	3,790	2,597	4,024	3,824	9.6
Window Glass	1,755	1,754	1,624	1,730	1,448	1,739	1,670	11.4
Other	660	603	564	578	519	618	585	15.6
No One Major Type	393	363	333	362	289	365	281	32.6
Predominant Roof Material								
Built-Up	24,481	23,087	20,386	21,744	16,085	23,610	21,399	5.2
Shingles (Not Wood)	11,093	10,450	9,237	9,125	6,761	10,660	9,347	6.3
Metal Surfacing	7,941	6,463	5,191	5,564	3,419	7,134	6,064	7.2
Synthetic or Rubber	10,235	10,099	9,445	9,662	7,145	10,125	9,364	5.4
Slate or Tile	1,920	1,765	1,666	1,499	999	1,813	1,505	10.9
Wooden Materials	1,130	985	862	730	510	1,100	896	22.6
Concrete	1,335	903	743	1,065	690	1,225	1,167	18.0
Other	332	290	268	272	189	305	277	24.9
No One Major Type	305	305	267	273	205	289	285	26.5
Energy Sources (more than one may apply)								
Electricity	57,076	54,110	47,879	49,785	35,946	56,261	50,303	3.5
Natural Gas	38,145	37,950	34,091	35,100	25,048	37,723	34,008	4.3
Fuel Oil	14,421	14,236	13,034	12,904	9,378	14,279	13,067	6.1
District Heat	5,658	5,642	5,473	5,128	4,081	5,638	5,339	9.1
District Chilled Water	2,521	2,479	2,395	2,521	2,302	2,517	2,412	10.7
Propane	5,344	5,281	4,747	4,520	3,253	5,304	4,589	12.6
Other	2,336	2,312	1,974	1,943	1,202	2,216	1,917	13.6
Space-Heating Energy Sources (more than one may apply)								
Electricity	22,156	22,156	19,031	21,131	16,066	21,981	20,138	5.8
Natural Gas	31,535	31,535	28,177	29,106	20,135	31,172	27,996	4.5
Fuel Oil	6,606	6,606	6,047	5,285	3,210	6,493	5,658	10.6
District Heat	5,606	5,606	5,438	5,076	4,044	5,587	5,304	9.0
Propane	2,025	2,025	1,812	1,642	1,206	2,017	1,710	17.7
Other	1,050	1,050	857	754	434	1,012	938	19.6

See footnotes at end of table.

Table 32. Heated, Cooled, and Lit Buildings, Floorspace, 1995 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace in All Buildings	Heated Buildings		Cooled Buildings		Lit Buildings		RSE Row Factor
		Total ^a Floorspace	Heated ^b Floorspace	Total ^a Floorspace	Cooled ^b Floorspace	Total ^a Floorspace	Lit ^b Floorspace	
RSE Column Factor:	1.0	1.0	1.0	1.0	1.1	1.0	1.0	
Primary Space-Heating								
Energy Source								
Electricity	13,500	13,500	11,271	12,959	10,667	13,350	12,258	7.1
Natural Gas	28,808	28,808	25,747	26,440	18,095	28,526	25,629	4.6
Fuel Oil	4,207	4,207	3,751	3,076	1,565	4,105	3,412	12.7
District Heat	5,289	5,289	5,127	4,759	3,793	5,269	4,991	9.0
Propane	1,545	1,545	1,366	1,184	935	1,537	1,325	19.7
Other	514	514	345	303	128	477	426	29.4
Cooling Energy Sources (more than one may apply)								
Electricity	47,761	46,934	41,752	47,761	34,194	47,529	43,024	3.7
Natural Gas	1,314	1,312	1,198	1,314	1,074	1,305	1,238	15.5
District Chilled Water	2,521	2,479	2,395	2,521	2,302	2,517	2,412	10.7
Energy End Uses (more than one may apply)								
Buildings with Space Heating	54,347	54,347	48,065	49,090	35,481	53,686	48,436	3.7
Buildings with Cooling	49,935	49,090	43,781	49,935	36,001	49,547	44,908	3.7
Buildings with Water Heating	51,560	50,796	45,617	47,249	34,304	51,016	46,250	3.7
Buildings with Cooking	20,713	20,338	19,144	19,465	15,321	20,550	19,110	4.3
Buildings with Manufacturing	3,893	3,689	3,013	3,587	2,177	3,856	3,417	10.6
Buildings with Electricity Generation	13,366	13,165	12,349	12,986	10,490	13,319	12,606	5.7
Percent of Floorspace Heated								
Not Heated	4,425	--	--	844	520	2,574	1,867	18.9
1 to 50	6,227	6,227	1,567	5,158	1,824	5,941	4,510	12.0
51 to 99	8,868	8,868	7,246	8,167	5,758	8,826	7,886	8.1
100	39,252	39,252	39,252	35,766	27,899	38,919	36,041	3.7
Percent of Floorspace Cooled								
Not Cooled	8,837	5,257	4,285	--	--	6,713	5,395	10.6
1 to 50	15,027	14,672	11,217	15,027	3,302	14,857	12,651	6.6
51 to 99	12,549	12,421	11,332	12,549	10,340	12,515	11,619	5.9
100	22,359	21,997	21,231	22,359	22,359	22,175	20,638	4.7
Percent Lit when Open								
Zero	189	44	30	Q	Q	Q	Q	39.5
1 to 50	6,008	5,120	3,642	4,577	2,475	6,008	1,906	9.2
51 to 99	9,692	9,591	8,559	8,590	6,399	9,692	7,883	6.9
100	40,514	38,967	35,443	36,371	26,891	40,514	40,514	3.9
Building Not in Use/ Electricity Not Used	2,369	625	391	366	228	--	--	22.5
Percent Lit when Closed								
Zero	13,101	11,760	9,713	9,713	6,087	12,958	10,720	7.7
1 to 50	30,711	29,669	26,602	28,175	20,400	30,711	27,866	4.4
51 to 100	1,914	1,868	1,665	1,785	1,394	1,914	1,796	16.1
Never Closed	10,677	10,425	9,694	9,895	7,893	10,677	9,921	5.9
Building Not in Use/ Electricity Not Used	2,369	625	391	366	228	--	--	22.5

See footnotes at end of table.

Table 32. Heated, Cooled, and Lit Buildings, Floorspace, 1995 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace in All Buildings	Heated Buildings		Cooled Buildings		Lit Buildings		RSE Row Factor
		Total ^a Floorspace	Heated ^b Floorspace	Total ^a Floorspace	Cooled ^b Floorspace	Total ^a Floorspace	Lit ^b Floorspace	
RSE Column Factor:	1.0	1.0	1.0	1.0	1.1	1.0	1.0	
Heating Equipment (more than one may apply)								
Heat Pumps	5,843	5,843	5,312	5,813	4,764	5,831	5,376	6.9
Furnaces	14,923	14,923	12,656	12,967	8,544	14,742	12,887	6.2
Individual Space Heaters	16,809	16,809	14,407	14,831	9,165	16,488	14,810	7.3
District Heat	5,911	5,911	5,719	5,286	4,209	5,876	5,581	9.2
Boilers	16,754	16,754	15,854	15,050	10,331	16,549	14,990	5.1
Packaged Heating Units	16,893	16,893	14,793	16,643	13,015	16,774	15,447	5.2
Other	6,249	6,249	5,575	5,899	4,534	6,226	5,759	9.1
Cooling Equipment (more than one may apply)								
Residential-Type Central Air Conditioners	9,238	8,975	7,795	9,238	6,379	9,193	8,236	5.6
Heat Pumps	6,931	6,888	6,224	6,931	5,557	6,910	6,306	6.7
Individual Air Conditioners	12,494	12,294	10,865	12,494	6,722	12,346	10,980	5.8
District Chilled Water	2,521	2,479	2,395	2,521	2,302	2,517	2,412	10.7
Central Chillers	11,065	10,857	10,343	11,065	9,576	11,017	10,478	6.6
Packaged Air Conditioning Units	26,628	26,297	23,652	26,628	19,839	26,431	24,336	4.9
Swamp Coolers	2,451	2,443	1,943	2,451	1,874	2,361	2,154	15.8
Other	949	949	871	949	708	949	888	15.9
Lighting Equipment Types (more than one may apply)								
Incandescent	35,715	34,309	30,955	32,066	23,757	35,715	31,750	3.6
Standard Fluorescent	53,984	52,204	46,306	48,495	34,881	53,984	48,438	3.5
Compact Fluorescent	14,273	13,979	13,037	13,653	10,979	14,273	13,329	6.6
High-Intensity Discharge	16,259	15,915	14,358	15,123	9,791	16,259	15,324	5.7
Halogen	9,665	9,518	8,737	9,316	7,111	9,665	9,055	6.9
Other	554	521	481	495	426	554	482	42.7
Building Shell Conservation Features (more than one may apply)								
Roof or Ceiling Insulation	46,355	44,941	40,694	42,198	31,362	45,509	41,462	4.1
Wall Insulation	31,694	31,112	28,311	29,545	22,843	31,171	28,283	4.7
Storm or Multiple Glazing	28,876	28,454	26,228	26,701	20,113	28,445	25,742	4.1
Tinted, Reflective or Shading Glass	24,245	23,686	21,431	23,202	18,274	24,080	22,101	4.4
Exterior or Interior Shading or Awnings	37,208	36,667	33,099	34,641	25,700	36,706	33,169	3.8
HVAC Conservation Features (more than one may apply)								
Variable Air-Volume System	13,473	13,250	12,443	13,150	10,783	13,434	12,754	5.8
Economizer Cycle	16,550	16,484	15,505	16,550	13,510	16,407	15,444	5.3
HVAC Maintenance	43,134	43,036	39,403	40,151	30,030	42,860	39,458	4.0
Other Energy Efficient Equipment	6,453	6,408	5,960	6,092	4,875	6,358	5,953	7.2

See footnotes at end of table.

Table 32. Heated, Cooled, and Lit Buildings, Floorspace, 1995 (Continued)
(Million Square Feet)

Building Characteristics	Total Floorspace in All Buildings	Heated Buildings		Cooled Buildings		Lit Buildings		RSE Row Factor
		Total ^a Floorspace	Heated ^b Floorspace	Total ^a Floorspace	Cooled ^b Floorspace	Total ^a Floorspace	Lit ^b Floorspace	
RSE Column Factor:	1.0	1.0	1.0	1.0	1.1	1.0	1.0	
Lighting Conservation Features (more than one may apply)								
Specular Reflectors	17,868	17,351	15,616	16,398	11,810	17,868	16,512	5.2
Energy-Efficient Ballasts	28,375	27,736	25,447	26,158	19,688	28,375	26,349	4.5
Natural Lighting Control								
Sensors	6,431	6,217	5,704	6,220	4,725	6,431	5,975	8.0
Occupancy Sensors	5,958	5,785	5,367	5,630	4,351	5,958	5,577	9.3
Time Clock	13,262	12,896	11,728	12,694	10,335	13,262	12,398	5.8
Manual Dimmer Switches	13,056	12,985	12,090	12,584	10,324	13,056	11,712	5.4
Other	2,836	2,769	2,596	2,733	2,048	2,836	2,633	12.6
Off-Hour Equipment Reduction (more than one may apply)								
Heating	38,326	38,326	33,586	34,434	24,080	38,138	33,983	4.3
Cooling	35,605	34,890	30,744	35,605	24,948	35,481	31,755	4.2
Lighting	44,937	42,747	37,582	39,237	27,561	44,937	39,997	4.0

^a Total Floorspace refers to all floorspace in heated, cooled, or lit buildings, including the floorspace that is not heated, cooled, or lit.

^b Heated, Cooled, and Lit Floorspace refers only to the portion of floorspace in these buildings that is heated, cooled, or lit.

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

-- = Data not applicable.

Notes: • To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1995 Commercial Buildings Energy Consumption Survey.