

## Buildings Characteristics

### Buildings Structure Tables

(16 pages, 93 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 8. Building Size, Number of Buildings, 1995**  
(Thousand)

Building Characteristics	All Buildings	Buildings by Size								RSE Row Factor
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet	
RSE Column Factor:	0.7	0.9	1.3	1.2	0.9	0.9	1.0	1.1	1.2	
<b>All Buildings</b> .....	4,579	2,399	1,035	745	213	115	48	19	6	6.4
<b>Principal Building Activity</b>										
Education .....	309	100	60	62	49	26	9	3	Q	15.1
Food Sales .....	137	108	Q	Q	Q	Q	Q	Q	Q	20.1
Food Service .....	285	210	52	Q	Q	Q	Q	Q	Q	17.2
Health Care .....	105	57	Q	16	5	Q	2	2	1	23.2
Lodging .....	158	46	40	43	14	9	4	2	Q	19.6
Mercantile and Service .....	1,289	736	295	195	33	18	8	2	2	13.4
Office .....	705	405	131	94	35	22	10	5	1	12.1
Public Assembly .....	326	128	110	64	13	7	2	1	Q	21.5
Public Order and Safety .....	87	Q	Q	23	Q	Q	Q	Q	Q	35.7
Religious Worship .....	269	92	84	78	11	Q	Q	Q	Q	20.4
Warehouse and Storage .....	580	286	135	95	34	17	9	3	1	18.2
Other .....	67	Q	Q	Q	Q	Q	Q	Q	Q	43.0
Vacant .....	261	149	68	34	4	3	Q	Q	Q	24.8
<b>Year Constructed</b>										
1919 or Before .....	353	175	92	65	11	6	2	Q	Q	21.0
1920 to 1945 .....	562	309	145	70	17	11	6	2	1	17.6
1946 to 1959 .....	867	461	222	123	34	19	5	3	*	14.4
1960 to 1969 .....	718	343	159	135	45	21	12	3	1	14.1
1970 to 1979 .....	813	428	174	137	38	20	9	4	1	12.5
1980 to 1989 .....	846	422	151	186	46	26	9	4	1	12.4
1990 to 1992 .....	218	132	50	16	11	6	3	1	*	20.8
1993 to 1995 .....	202	129	43	13	9	6	Q	*	*	26.7
<b>Floors</b>										
One .....	3,018	1,894	618	358	90	37	16	4	1	9.8
Two .....	1,002	378	283	236	62	32	8	2	1	12.4
Three .....	399	123	97	115	37	18	7	2	*	17.3
Four to Nine .....	148	Q	37	35	24	26	14	7	1	16.2
Ten or More .....	12	Q	Q	Q	Q	Q	3	4	2	13.9
<b>Census Region</b>										
Northeast .....	725	351	162	139	38	20	10	5	2	13.7
Midwest .....	1,139	638	224	181	48	28	14	5	1	12.9
South .....	1,750	953	380	276	74	42	17	6	1	10.8
West .....	964	457	269	149	53	24	8	3	1	14.2
<b>Workers (main shift)</b>										
Fewer than 5 .....	2,505	1,703	508	260	22	7	3	Q	Q	12.6
5 to 9 .....	798	421	222	128	16	9	Q	Q	Q	14.3
10 to 19 .....	625	198	222	159	32	9	3	Q	Q	15.1
20 to 49 .....	400	62	79	150	71	31	5	1	Q	15.4
50 to 99 .....	138	Q	Q	33	44	30	13	2	Q	14.5
100 to 249 .....	71	Q	Q	8	24	20	12	5	1	15.0
250 or More .....	43	Q	Q	Q	Q	9	11	9	4	13.1
<b>Weekly Operating Hours</b>										
39 or Fewer .....	899	565	219	90	16	6	Q	Q	Q	14.6
40 to 48 .....	1,257	665	282	214	55	26	10	2	Q	11.9
49 to 60 .....	969	475	232	164	59	27	8	3	1	13.1
61 to 84 .....	567	241	139	121	32	19	9	4	2	14.1
85 to 167 .....	420	240	67	67	20	14	9	2	*	17.6
Open Continuously .....	466	212	95	88	30	21	10	7	3	12.4

See footnotes at end of table.

**Table 8. Building Size, Number of Buildings, 1995 (Continued)**  
(Thousand)

Building Characteristics	All Buildings	Buildings by Size								RSE Row Factor
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet	
RSE Column Factor:	0.7	0.9	1.3	1.2	0.9	0.9	1.0	1.1	1.2	
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	4,025	2,176	909	646	158	83	35	13	4	7.3
Owner Occupied .....	3,158	1,746	704	503	109	58	24	10	4	7.8
Nonowner Occupied .....	698	325	163	126	47	24	10	3	*	15.9
Unoccupied .....	170	105	Q	Q	Q	Q	Q	Q	Q	24.1
Government Owned .....	553	223	125	98	55	32	13	6	1	12.1
<b>Predominant Exterior Wall Material</b>										
Masonry .....	3,061	1,454	749	545	170	91	35	14	4	7.4
Siding or Shingles .....	639	465	116	50	5	Q	Q	Q	Q	18.9
Metal Panels .....	662	390	146	97	18	7	2	Q	*	17.4
Concrete Panels .....	106	Q	10	30	14	12	6	2	*	18.7
Window Glass .....	46	Q	Q	Q	4	3	2	1	1	26.5
Other .....	50	Q	Q	Q	Q	Q	Q	*	Q	32.7
No One Major Type .....	15	Q	Q	Q	Q	Q	Q	Q	Q	71.8
<b>Predominant Roof Material</b>										
Built-Up .....	1,369	591	331	258	97	54	25	10	3	9.9
Shingles (Not Wood) .....	1,486	915	331	191	29	14	4	1	*	14.0
Metal Surfacing .....	908	512	192	158	29	13	3	1	Q	16.2
Synthetic or Rubber .....	351	133	62	71	40	25	13	5	2	13.9
Slate or Tile .....	202	105	60	21	10	4	Q	Q	Q	21.5
Wooden Materials .....	152	72	50	Q	Q	Q	Q	Q	Q	30.3
Concrete .....	58	Q	Q	Q	Q	Q	Q	Q	*	40.4
Other .....	36	Q	Q	Q	Q	Q	Q	Q	Q	58.7
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	100.0
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	4,343	2,252	970	724	211	114	47	19	6	6.3
Natural Gas .....	2,478	1,112	614	474	146	82	33	13	4	7.4
Fuel Oil .....	607	333	96	92	31	28	14	10	4	14.0
District Heat .....	110	Q	Q	25	18	11	8	4	1	17.1
District Chilled Water .....	53	Q	Q	Q	7	5	5	2	1	23.7
Propane .....	589	354	117	89	16	9	3	1	Q	19.8
Other .....	213	117	57	25	6	6	Q	1	Q	25.0
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating .....	4,024	2,060	899	685	198	111	46	18	6	6.5
Buildings with Cooling .....	3,381	1,650	754	619	187	103	44	18	6	6.6
Buildings with Water Heating .....	3,486	1,689	780	644	195	110	45	18	6	6.6
Buildings with Cooking .....	828	339	175	169	66	42	22	12	4	9.6
Buildings with Manufacturing .....	204	69	51	55	15	8	5	Q	1	23.9
Buildings with Electricity Generation .....	247	55	48	59	26	30	14	10	4	15.3
<b>Percent of Floorspace Heated</b>										
Not Heated .....	554	339	135	59	14	4	Q	Q	Q	21.7
1 to 50 .....	555	261	161	97	18	10	5	1	1	20.4
51 to 99 .....	633	286	161	136	27	12	6	4	1	15.2
100 .....	2,836	1,513	576	452	153	89	35	13	4	7.1

See footnotes at end of table.

**Table 8. Building Size, Number of Buildings, 1995 (Continued)**  
(Thousand)

Building Characteristics	All Buildings	Buildings by Size								RSE Row Factor
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet	
RSE Column Factor:	0.7	0.9	1.3	1.2	0.9	0.9	1.0	1.1	1.2	
<b>Percent of Floorspace</b>										
<b>Cooled</b>										
Not Cooled .....	1,198	749	280	125	26	12	4	1	Q	17.2
1 to 50 .....	930	363	254	196	65	34	12	5	1	12.9
51 to 99 .....	635	289	145	117	39	24	13	6	2	12.1
100 .....	1,816	998	355	307	83	45	19	7	2	9.6
<b>Percent Lit when Open</b>										
Zero .....	36	Q	Q	Q	Q	Q	Q	Q	Q	58.6
1 to 50 .....	666	363	150	120	18	11	2	Q	Q	15.1
51 to 99 .....	745	363	166	157	27	19	9	3	1	14.8
100 .....	2,814	1,446	632	435	163	83	35	15	4	7.3
Building Not in Use/ Electricity Not Used .....	318	194	85	31	Q	Q	Q	Q	Q	22.2
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	394	213	59	80	20	16	4	3	1	15.9
Furnaces .....	1,676	898	441	257	49	20	8	2	1	11.9
Individual Space Heaters .....	1,188	616	268	191	57	33	14	6	2	11.8
District Heat .....	115	Q	Q	27	18	11	8	4	2	17.0
Boilers .....	610	199	135	128	70	46	20	9	2	12.3
Packaged Heating Units .....	1,031	483	193	216	75	41	15	6	2	10.9
Other .....	161	Q	22	50	14	11	6	4	2	21.3
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central										
Air Conditioners .....	878	453	236	133	35	14	5	3	1	13.6
Heat Pumps .....	457	235	77	96	23	17	5	3	1	15.0
Individual Air Conditioners .....	862	467	171	134	47	25	11	6	1	11.9
District Chilled Water .....	53	Q	Q	Q	7	5	5	2	1	23.7
Central Chillers .....	109	Q	Q	14	29	23	15	9	3	12.7
Packaged Air Conditioning										
Units .....	1,431	569	345	310	108	62	25	10	4	9.2
Swamp Coolers .....	186	97	41	34	6	4	2	1	Q	29.6
Other .....	18	Q	Q	Q	Q	Q	Q	Q	Q	33.1
<b>Lighting Equipment Types (more than one may apply)</b>										
Incandescent .....	2,479	1,205	613	431	115	69	29	14	5	7.7
Standard Fluorescent .....	3,885	1,952	868	684	200	111	45	18	6	6.3
Compact Fluorescent .....	364	101	75	89	41	30	15	10	3	13.2
High-Intensity Discharge .....	393	79	93	107	46	34	20	10	4	12.8
Halogen .....	302	100	85	58	23	17	11	6	3	15.0
Other .....	30	Q	Q	Q	Q	Q	Q	Q	Q	63.3
<b>Personal Computers and/or Computer Terminals</b>										
None .....	2,039	1,323	456	222	25	9	3	1	Q	15.0
1 to 4 .....	1,408	782	336	236	32	18	3	Q	Q	12.1
5 to 9 .....	437	174	112	107	30	10	3	Q	Q	17.1
10 to 19 .....	344	109	87	92	36	12	6	1	Q	18.8
20 to 49 .....	198	Q	32	74	44	27	8	2	1	16.6
50 to 99 .....	81	Q	Q	12	31	20	6	3	*	15.4
100 to 249 .....	46	Q	Q	Q	12	15	9	4	1	14.6
250 or More .....	26	Q	Q	Q	Q	6	8	6	3	13.0

See footnotes at end of table.

**Table 8. Building Size, Number of Buildings, 1995 (Continued)**  
(Thousand)

Building Characteristics	All Buildings	Buildings by Size								RSE Row Factor
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet	
RSE Column Factor:	0.7	0.9	1.3	1.2	0.9	0.9	1.0	1.1	1.2	
<b>Energy-Related Space Functions (more than one may apply)</b>										
Commercial Food Preparation .....	828	339	175	169	66	42	22	12	4	9.6
Computer Room .....	234	Q	57	52	38	29	17	10	3	12.5
Activities with Large Amounts of Hot Water .....	243	97	42	57	20	13	8	4	1	17.9
<b>Building Shell Conservation Features (more than one may apply)</b>										
Roof or Ceiling Insulation .....	3,380	1,718	751	595	166	92	39	16	5	7.1
Wall Insulation .....	2,372	1,238	480	447	108	59	26	10	4	8.0
Storm or Multiple Glazing .....	1,897	909	430	357	100	60	26	11	3	8.1
Tinted, Reflective or Shading Glass .....	1,202	514	262	246	92	47	24	12	4	9.1
Exterior or Interior Shading or Awnings .....	2,271	1,048	468	481	137	85	33	15	4	7.7
<b>HVAC Conservation Features (more than one may apply)</b>										
Variable Air-Volume System .....	327	98	55	73	41	32	16	8	3	14.3
Economizer Cycle .....	461	154	90	89	57	36	20	9	4	12.3
HVAC Maintenance .....	2,403	1,031	543	501	167	97	41	17	5	7.4
Other Energy Efficient Equipment .....	198	73	41	32	26	14	7	4	1	18.7
<b>Lighting Conservation Features (more than one may apply)</b>										
Specular Reflectors .....	749	329	146	149	54	40	18	9	4	11.1
Energy-Efficient Ballasts .....	1,363	592	282	280	100	62	28	14	5	9.2
Natural Lighting Control Sensors .....	237	70	72	53	20	11	5	3	2	18.7
Occupancy Sensors .....	131	Q	30	45	16	9	6	4	2	19.4
Time Clock .....	467	154	131	92	37	28	15	6	3	13.7
Manual Dimmer Switches .....	501	138	150	131	35	23	14	8	3	12.4
Other .....	79	Q	Q	Q	6	8	2	2	1	23.0
<b>Energy Conservation Features (more than one may apply)</b>										
Any Conservation Features .....	4,075	2,067	917	705	203	113	47	18	6	6.5
Building Shell .....	3,906	1,991	867	676	195	109	44	18	6	6.5
HVAC .....	2,529	1,086	575	527	175	100	41	17	6	7.3
Lighting .....	2,084	881	496	427	135	83	38	17	5	7.8

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

\* = Value rounds to zero in the units displayed.

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 9. Building Size, Floorspace, 1995**  
(Million Square Feet)

Building Characteristics	Total Floorspace (million square feet)	Floorspace by Building Size								RSE Row Factor
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet	
RSE Column Factor:	0.5	1.0	1.3	1.2	0.9	0.9	1.1	1.1	1.3	
<b>All Buildings</b> .....	58,772	6,338	7,530	11,617	7,676	7,968	6,776	5,553	5,313	6.3
<b>Principal Building Activity</b>										
Education .....	7,740	250	404	1,045	1,825	1,752	1,235	981	Q	14.1
Food Sales .....	642	234	Q	Q	Q	Q	Q	Q	Q	21.3
Food Service .....	1,353	550	390	Q	Q	Q	Q	Q	Q	20.0
Health Care .....	2,333	152	Q	243	175	Q	340	625	518	20.4
Lodging .....	3,618	150	269	748	512	613	547	558	Q	19.6
Mercantile and Service .....	12,728	1,841	2,202	2,939	1,180	1,274	1,068	539	1,685	13.4
Office .....	10,478	1,084	915	1,580	1,293	1,542	1,378	1,525	1,161	11.7
Public Assembly .....	3,948	312	786	940	485	499	363	292	Q	21.1
Public Order and Safety .....	1,271	Q	Q	368	Q	Q	Q	Q	Q	34.6
Religious Worship .....	2,792	301	662	1,120	392	Q	Q	Q	Q	20.1
Warehouse and Storage .....	8,481	807	991	1,530	1,165	1,147	1,352	773	716	18.1
Other .....	1,004	Q	Q	Q	Q	Q	Q	Q	Q	41.8
Vacant .....	2,384	399	497	503	148	225	Q	Q	Q	25.9
<b>Year Constructed</b>										
1919 or Before .....	3,673	442	756	957	407	386	340	Q	Q	20.3
1920 to 1945 .....	6,710	855	981	1,241	595	750	934	604	750	18.1
1946 to 1959 .....	9,298	1,180	1,710	1,942	1,260	1,293	660	889	364	14.9
1960 to 1969 .....	10,858	889	1,132	2,163	1,650	1,453	1,643	869	1,060	13.8
1970 to 1979 .....	11,333	1,245	1,186	2,071	1,337	1,453	1,250	1,430	1,360	12.4
1980 to 1989 .....	12,252	1,087	1,102	2,809	1,701	1,816	1,306	1,223	1,208	12.6
1990 to 1992 .....	2,590	316	368	251	378	410	406	211	250	20.3
1993 to 1995 .....	2,059	324	296	184	349	407	Q	137	127	24.7
<b>Floors</b>										
One .....	24,552	4,838	4,399	5,478	3,198	2,539	2,263	1,009	828	10.1
Two .....	14,122	1,152	2,093	3,635	2,215	2,159	1,157	694	1,018	12.2
Three .....	7,335	333	767	1,841	1,336	1,224	872	605	357	16.3
Four to Nine .....	8,789	Q	269	663	908	1,916	1,968	1,934	1,115	15.1
Ten or More .....	3,975	Q	Q	Q	Q	Q	516	1,312	1,995	14.6
<b>Census Region</b>										
Northeast .....	11,883	995	1,223	2,118	1,380	1,371	1,377	1,389	2,029	13.9
Midwest .....	14,322	1,772	1,678	2,701	1,726	1,920	1,896	1,520	1,110	12.3
South .....	20,830	2,428	2,786	4,481	2,664	2,980	2,428	1,679	1,384	10.8
West .....	11,736	1,144	1,842	2,317	1,905	1,697	1,075	965	791	13.6
<b>Workers (main shift)</b>										
Fewer than 5 .....	13,885	4,184	3,636	3,806	770	518	415	Q	Q	13.4
5 to 9 .....	6,291	1,202	1,608	2,090	529	567	Q	Q	Q	14.6
10 to 19 .....	7,102	695	1,637	2,399	1,099	557	480	Q	Q	15.0
20 to 49 .....	9,132	225	615	2,513	2,620	2,087	736	204	Q	15.2
50 to 99 .....	6,931	Q	Q	567	1,644	2,108	1,738	587	Q	14.1
100 to 249 .....	5,988	Q	Q	155	913	1,472	1,628	1,394	409	14.7
250 or More .....	9,443	Q	Q	Q	Q	658	1,644	2,858	4,096	11.4
<b>Weekly Operating Hours</b>										
39 or Fewer .....	6,134	1,544	1,619	1,354	576	426	Q	Q	Q	15.3
40 to 48 .....	13,233	1,701	2,033	3,382	1,981	1,776	1,439	705	Q	12.4
49 to 60 .....	12,242	1,264	1,707	2,562	2,103	1,897	1,181	905	623	12.8
61 to 84 .....	10,052	653	1,020	1,873	1,182	1,354	1,325	1,011	1,634	13.3
85 to 167 .....	6,202	618	503	1,024	749	988	1,183	743	393	17.1
Open Continuously .....	10,908	559	647	1,422	1,085	1,527	1,453	2,035	2,182	11.9

See footnotes at end of table.

**Table 9. Building Size, Floorspace, 1995 (Continued)**  
(Million Square Feet)

Building Characteristics	Total Floorspace (million square feet)	Floorspace by Building Size								RSE Row Factor
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet	
RSE Column Factor:	0.5	1.0	1.3	1.2	0.9	0.9	1.1	1.1	1.3	
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	46,696	5,709	6,606	10,071	5,653	5,757	4,929	3,867	4,104	7.3
Owner Occupied .....	35,573	4,652	5,118	7,863	3,910	4,000	3,426	2,989	3,615	7.8
Nonowner Occupied .....	9,697	787	1,189	1,944	1,665	1,670	1,404	797	242	15.3
Unoccupied .....	1,426	270	Q	Q	Q	Q	Q	Q	Q	31.3
Government Owned .....	12,076	630	924	1,546	2,023	2,211	1,847	1,685	1,209	11.9
<b>Predominant Exterior Wall Material</b>										
Masonry .....	42,958	3,970	5,445	8,694	6,146	6,237	4,868	3,985	3,613	7.4
Siding or Shingles .....	3,243	1,135	825	725	161	Q	Q	Q	Q	20.4
Metal Panels .....	5,694	1,038	1,077	1,426	643	479	374	Q	362	18.4
Concrete Panels .....	4,069	Q	78	465	502	896	901	738	422	17.4
Window Glass .....	1,755	Q	Q	Q	150	194	283	368	541	23.3
Other .....	660	Q	Q	Q	Q	Q	Q	105	Q	26.1
No One Major Type .....	393	Q	Q	Q	Q	Q	Q	Q	Q	61.3
<b>Predominant Roof Material</b>										
Built-Up .....	24,481	1,557	2,340	4,159	3,529	3,729	3,584	2,879	2,703	9.6
Shingles (Not Wood) .....	11,093	2,358	2,352	2,806	1,042	1,033	586	420	495	14.4
Metal Surfacing .....	7,941	1,409	1,467	2,479	1,012	861	411	242	Q	16.2
Synthetic or Rubber .....	10,235	398	492	1,105	1,494	1,716	1,859	1,649	1,523	13.7
Slate or Tile .....	1,920	288	419	347	344	262	Q	Q	Q	20.9
Wooden Materials .....	1,130	174	400	Q	Q	Q	Q	Q	Q	32.7
Concrete .....	1,335	Q	Q	Q	Q	Q	Q	Q	378	37.9
Other .....	332	Q	Q	Q	Q	Q	Q	Q	Q	41.0
No One Major Type .....	305	Q	Q	Q	Q	Q	Q	Q	Q	53.9
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	57,076	5,953	7,061	11,303	7,635	7,902	6,599	5,550	5,074	6.2
Natural Gas .....	38,145	2,942	4,497	7,561	5,242	5,608	4,643	3,941	3,712	7.5
Fuel Oil .....	14,421	946	679	1,425	1,164	1,968	2,096	2,928	3,215	12.8
District Heat .....	5,658	Q	Q	370	651	744	1,119	1,211	1,351	15.5
District Chilled Water .....	2,521	Q	Q	239	275	348	587	557	432	22.2
Propane .....	5,344	997	881	1,342	562	637	482	290	Q	20.2
Other .....	2,336	278	414	413	223	419	Q	252	Q	25.3
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating .....	54,347	5,506	6,546	10,706	7,157	7,699	6,456	5,371	4,906	6.3
Buildings with Cooling .....	49,935	4,376	5,531	9,712	6,760	7,178	6,175	5,235	4,968	6.5
Buildings with Water Heating .....	51,560	4,617	5,652	10,053	7,060	7,611	6,269	5,303	4,995	6.4
Buildings with Cooking .....	20,713	922	1,319	2,731	2,433	2,939	3,028	3,482	3,859	9.3
Buildings with Manufacturing .....	3,893	207	357	883	563	560	672	Q	480	22.9
Buildings with Electricity Generation .....	13,366	169	315	902	1,033	2,121	2,091	3,081	3,653	14.2
<b>Percent of Floorspace Heated</b>										
Not Heated .....	4,425	832	984	911	519	268	Q	Q	Q	23.8
1 to 50 .....	6,227	732	1,103	1,565	618	644	806	340	418	20.0
51 to 99 .....	8,868	778	1,194	2,005	1,007	835	797	1,098	1,154	15.3
100 .....	39,252	3,996	4,248	7,136	5,531	6,221	4,853	3,932	3,334	7.0

See footnotes at end of table.

**Table 9. Building Size, Floorspace, 1995 (Continued)**  
(Million Square Feet)

Building Characteristics	Total Floorspace (million square feet)	Floorspace by Building Size								RSE Row Factor
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet	
RSE Column Factor:	0.5	1.0	1.3	1.2	0.9	0.9	1.1	1.1	1.3	
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	8,837	1,962	1,999	1,905	916	790	601	318	Q	17.3
1 to 50 .....	15,027	1,067	1,881	3,265	2,282	2,263	1,722	1,493	1,053	12.8
51 to 99 .....	12,549	690	1,031	1,837	1,450	1,752	1,843	1,685	2,261	11.7
100 .....	22,359	2,619	2,620	4,610	3,028	3,163	2,610	2,057	1,653	9.5
<b>Percent Lit when Open</b>										
Zero .....	189	Q	Q	Q	Q	Q	Q	Q	Q	55.8
1 to 50 .....	6,008	967	1,086	1,852	658	696	310	Q	Q	15.6
51 to 99 .....	9,692	948	1,163	2,388	984	1,290	1,245	903	771	13.9
100 .....	40,514	3,839	4,650	6,890	5,877	5,823	5,002	4,358	4,075	7.1
Building Not in Use/ Electricity Not Used .....	2,369	518	625	454	Q	Q	Q	Q	Q	24.5
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	5,843	589	436	1,243	701	1,156	564	681	473	15.7
Furnaces .....	14,923	2,334	3,197	3,871	1,743	1,371	1,079	657	671	11.8
Individual Space Heaters .....	16,809	1,618	2,003	3,094	1,960	2,208	1,936	1,901	2,088	11.8
District Heat .....	5,911	Q	Q	407	657	792	1,162	1,283	1,390	15.6
Boilers .....	16,754	551	1,005	2,080	2,592	3,190	2,850	2,553	1,933	11.2
Packaged Heating Units .....	16,893	1,319	1,410	3,387	2,754	2,800	2,139	1,611	1,473	10.1
Other .....	6,249	Q	180	780	489	762	822	1,202	1,861	19.7
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central Air Conditioners .....	9,238	1,133	1,732	1,970	1,224	970	707	824	677	12.9
Heat Pumps .....	6,931	652	559	1,523	826	1,186	730	788	666	14.6
Individual Air Conditioners .....	12,494	1,209	1,277	2,194	1,664	1,690	1,617	1,639	1,205	11.7
District Chilled Water .....	2,521	Q	Q	239	275	348	587	557	432	22.2
Central Chillers .....	11,065	Q	Q	264	1,107	1,666	2,080	2,687	3,124	12.4
Packaged Air Conditioning Units .....	26,628	1,603	2,484	4,932	3,928	4,296	3,539	2,936	2,911	9.0
Swamp Coolers .....	2,451	269	322	491	220	317	312	290	Q	28.4
Other .....	949	Q	Q	Q	Q	Q	Q	Q	Q	32.3
<b>Lighting Equipment Types (more than one may apply)</b>										
Incandescent .....	35,715	3,168	4,523	6,648	4,177	4,718	4,169	4,135	4,177	7.5
Standard Fluorescent .....	53,984	5,184	6,317	10,699	7,237	7,700	6,383	5,432	5,031	6.2
Compact Fluorescent .....	14,273	324	552	1,359	1,522	2,155	2,196	2,962	3,203	12.6
High-Intensity Discharge .....	16,259	233	704	1,655	1,704	2,420	2,911	3,094	3,537	12.4
Halogen .....	9,665	268	611	872	844	1,239	1,553	1,875	2,403	14.2
Other .....	554	Q	Q	Q	Q	Q	Q	Q	Q	79.9
<b>Personal Computers and/or Computer Terminals</b>										
None .....	12,571	3,369	3,260	3,315	924	585	456	318	Q	15.5
1 to 4 .....	11,401	2,052	2,545	3,709	1,148	1,153	490	Q	Q	12.5
5 to 9 .....	5,372	517	798	1,652	1,062	661	410	Q	Q	16.8
10 to 19 .....	5,947	366	625	1,450	1,261	845	919	304	Q	17.8
20 to 49 .....	7,048	Q	227	1,242	1,562	1,822	1,122	636	405	15.9
50 to 99 .....	4,938	Q	Q	212	1,164	1,362	884	885	374	15.4
100 to 249 .....	5,189	Q	Q	Q	464	1,059	1,345	1,040	1,225	15.2
250 or More .....	6,307	Q	Q	Q	Q	482	1,151	1,990	2,590	12.7

See footnotes at end of table.



**Table 9. Building Size, Floorspace, 1995 (Continued)**  
(Million Square Feet)

Building Characteristics	Total Floorspace (million square feet)	Floorspace by Building Size								RSE Row Factor
		1,001 to 5,000 Square Feet	5,001 to 10,000 Square Feet	10,001 to 25,000 Square Feet	25,001 to 50,000 Square Feet	50,001 to 100,000 Square Feet	100,001 to 200,000 Square Feet	200,001 to 500,000 Square Feet	Over 500,000 Square Feet	
RSE Column Factor:	0.5	1.0	1.3	1.2	0.9	0.9	1.1	1.1	1.3	
<b>Energy-Related Space Functions (more than one may apply)</b>										
Commercial Food Preparation .....	20,713	922	1,319	2,731	2,433	2,939	3,028	3,482	3,859	9.3
Computer Room .....	12,890	Q	394	842	1,414	2,097	2,356	2,975	2,723	11.3
Activities with Large Amounts of Hot Water .....	6,753	253	322	936	728	942	1,174	1,327	1,072	16.5
<b>Building Shell Conservation Features (more than one may apply)</b>										
Roof or Ceiling Insulation .....	46,355	4,631	5,487	9,236	5,961	6,400	5,529	4,684	4,425	7.0
Wall Insulation .....	31,694	3,384	3,503	6,846	3,906	4,090	3,633	3,120	3,211	8.1
Storm or Multiple Glazing .....	28,876	2,475	3,220	5,550	3,638	4,235	3,598	3,345	2,815	7.9
Tinted, Reflective or Shading Glass .....	24,245	1,353	1,869	3,836	3,365	3,366	3,372	3,486	3,598	8.5
Exterior or Interior Shading or Awnings .....	37,208	2,806	3,470	7,514	4,934	5,864	4,700	4,454	3,467	7.3
<b>HVAC Conservation Features (more than one may apply)</b>										
Variable Air-Volume System .....	13,473	285	401	1,114	1,541	2,316	2,265	2,452	3,099	13.0
Economizer Cycle .....	16,550	461	722	1,403	2,111	2,606	2,862	2,887	3,498	11.6
HVAC Maintenance .....	43,134	2,828	4,048	7,795	6,094	6,722	5,718	5,123	4,805	7.2
Other Energy Efficient Equipment .....	6,453	220	284	506	943	1,010	988	1,320	1,181	17.0
<b>Lighting Conservation Features (more than one may apply)</b>										
Specular Reflectors .....	17,868	978	1,074	2,266	1,968	2,839	2,589	2,733	3,422	10.5
Energy-Efficient Ballasts .....	28,375	1,639	2,040	4,474	3,665	4,390	3,977	4,021	4,167	8.8
Natural Lighting Control Sensors .....	6,431	187	527	772	749	804	654	1,030	1,709	17.9
Occupancy Sensors .....	5,958	Q	233	701	583	638	884	1,338	1,526	18.3
Time Clock .....	13,262	431	971	1,384	1,380	2,050	2,106	1,995	2,946	12.5
Manual Dimmer Switches .....	13,056	375	1,129	1,938	1,291	1,643	1,975	2,511	2,194	11.9
Other .....	2,836	Q	Q	Q	258	592	317	601	638	20.5
<b>Energy Conservation Features (more than one may apply)</b>										
Any Conservation Features .....	55,288	5,552	6,671	10,928	7,311	7,848	6,534	5,427	5,018	6.3
Building Shell .....	53,190	5,346	6,344	10,491	7,021	7,530	6,217	5,237	5,005	6.4
HVAC .....	44,657	2,978	4,292	8,139	6,370	6,957	5,787	5,161	4,973	7.1
Lighting .....	38,537	2,410	3,626	6,625	4,936	5,806	5,364	4,912	4,857	7.5

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

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 10. Year Constructed, Number of Buildings, 1995**  
(Thousand)

Building Characteristics	All Buildings	Buildings by Year Constructed								RSE Row Factor
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1992	1993 to 1995	
RSE Column Factor:	0.4	1.4	1.1	0.9	0.9	0.8	0.8	1.4	1.8	
<b>All Buildings</b> .....	4,579	353	562	867	718	813	846	218	202	8.9
<b>Building Floorspace (Square Feet)</b>										
1,001 to 5,000 .....	2,399	175	309	461	343	428	422	132	129	13.1
5,001 to 10,000 .....	1,035	92	145	222	159	174	151	50	43	17.8
10,001 to 25,000 .....	745	65	70	123	135	137	186	16	13	17.4
25,001 to 50,000 .....	213	11	17	34	45	38	46	11	9	12.4
50,001 to 100,000 .....	115	6	11	19	21	20	26	6	6	14.9
100,001 to 200,000 .....	48	2	6	5	12	9	9	3	Q	16.7
200,001 to 500,000 .....	19	Q	2	3	3	4	4	1	*	19.8
Over 500,000 .....	6	Q	1	*	1	1	1	*	*	19.8
<b>Principal Building Activity</b>										
Education .....	309	18	42	72	66	45	36	17	13	24.6
Food Sales .....	137	Q	Q	Q	Q	42	Q	Q	Q	36.6
Food Service .....	285	Q	Q	Q	25	66	74	Q	Q	30.5
Health Care .....	105	Q	Q	19	7	34	Q	Q	Q	45.4
Lodging .....	158	Q	7	33	53	24	25	Q	Q	32.5
Mercantile and Service .....	1,289	112	154	278	229	207	212	47	49	17.8
Office .....	705	57	74	128	75	158	151	38	23	20.6
Public Assembly .....	326	37	72	38	63	60	33	20	Q	32.0
Public Order and Safety .....	87	Q	Q	Q	Q	Q	Q	Q	Q	58.9
Religious Worship .....	269	20	Q	65	50	53	58	Q	Q	28.9
Warehouse and Storage .....	580	31	59	79	68	73	161	38	71	25.2
Other .....	67	Q	Q	Q	Q	Q	Q	Q	Q	64.8
Vacant .....	261	30	71	63	27	31	26	Q	Q	29.6
<b>Floors</b>										
One .....	3,018	80	281	567	500	626	628	170	165	11.5
Two .....	1,002	99	164	202	165	148	151	42	31	16.5
Three .....	399	137	80	87	28	26	36	3	Q	24.8
Four to Nine .....	148	35	35	10	23	10	27	4	3	23.7
Ten or More .....	12	Q	2	1	2	2	3	1	Q	25.1
<b>Census Region</b>										
Northeast .....	725	115	75	187	98	69	148	13	21	21.8
Midwest .....	1,139	147	221	215	150	141	156	38	70	19.2
South .....	1,750	50	176	285	267	391	389	114	78	14.4
West .....	964	41	90	180	204	211	153	54	33	20.2
<b>Workers (main shift)</b>										
Fewer than 5 .....	2,505	217	336	475	390	390	430	123	144	11.9
5 to 9 .....	798	64	119	176	111	176	104	31	Q	20.7
10 to 19 .....	625	41	40	118	100	144	134	29	18	21.6
20 to 49 .....	400	16	46	72	69	51	110	21	15	20.5
50 to 99 .....	138	8	15	15	26	30	34	5	5	20.3
100 to 249 .....	71	5	4	7	16	12	18	7	2	17.6
250 or More .....	43	1	3	4	7	9	17	2	1	23.8
<b>Weekly Operating Hours</b>										
39 or Fewer .....	899	82	125	194	147	109	155	Q	Q	19.5
40 to 48 .....	1,257	110	184	256	165	194	239	63	46	15.8
49 to 60 .....	969	75	100	185	149	214	173	42	32	18.3
61 to 84 .....	567	40	65	126	115	99	74	24	24	22.2
85 to 167 .....	420	15	49	42	63	116	85	31	19	25.7
Open Continuously .....	466	31	39	65	79	81	119	17	36	24.2

See footnotes at end of table.

**Table 10. Year Constructed, Number of Buildings, 1995 (Continued)**  
(Thousand)

Building Characteristics	All Buildings	Buildings by Year Constructed								RSE Row Factor
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1992	1993 to 1995	
RSE Column Factor:	0.4	1.4	1.1	0.9	0.9	0.8	0.8	1.4	1.8	
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	4,025	321	474	729	625	716	775	200	186	9.5
Owner Occupied .....	3,158	257	374	564	486	555	600	164	157	10.6
Nonowner Occupied .....	698	56	43	125	118	138	160	29	29	20.9
Unoccupied .....	170	Q	56	40	Q	23	Q	Q	Q	38.1
Government Owned .....	553	32	88	138	94	96	71	18	16	21.4
<b>Space in Building Vacant for at Least Three Consecutive Months</b>										
Yes .....	787	75	118	142	130	126	122	30	44	19.4
No .....	3,791	278	443	725	588	687	724	188	158	9.7
<b>Predominant Exterior Wall Material</b>										
Masonry .....	3,061	259	414	685	534	525	450	124	69	10.3
Siding or Shingles .....	639	86	98	99	84	74	126	Q	52	23.5
Metal Panels .....	662	Q	32	61	58	171	218	57	65	23.2
Concrete Panels .....	106	Q	Q	16	19	31	26	Q	2	35.3
Window Glass .....	46	Q	Q	Q	Q	Q	Q	Q	Q	67.2
Other .....	50	Q	Q	Q	Q	2	Q	Q	Q	55.0
No One Major Type .....	15	Q	Q	Q	Q	Q	Q	Q	Q	108.3
<b>Predominant Roof Material</b>										
Built-Up .....	1,369	79	190	315	267	259	188	44	26	15.7
Shingles (Not Wood) .....	1,486	145	203	285	226	248	265	60	55	14.7
Metal Surfacing .....	908	Q	56	87	97	193	271	82	103	20.1
Synthetic or Rubber .....	351	39	39	74	67	55	51	17	10	25.0
Slate or Tile .....	202	36	41	35	24	Q	34	Q	Q	36.0
Wooden Materials .....	152	Q	Q	Q	Q	Q	Q	Q	Q	50.8
Concrete .....	58	Q	Q	Q	Q	Q	Q	Q	Q	65.3
Other .....	36	Q	Q	Q	Q	Q	Q	Q	Q	88.5
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	100.0
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	4,343	335	508	838	695	809	792	204	162	9.0
Natural Gas .....	2,478	256	353	528	403	444	357	92	46	11.3
Fuel Oil .....	607	70	81	142	120	60	98	13	Q	25.9
District Heat .....	110	22	20	13	23	Q	7	Q	Q	32.1
District Chilled Water .....	53	Q	Q	5	10	Q	7	Q	Q	48.2
Propane .....	589	Q	61	76	104	122	142	29	35	24.9
Other .....	213	Q	28	56	46	23	37	Q	Q	38.4
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating .....	4,024	316	496	769	652	722	741	189	141	9.3
Buildings with Cooling .....	3,381	260	382	617	508	688	657	161	108	9.6
Buildings with Water Heating .....	3,486	287	429	656	562	632	667	145	108	10.1
Buildings with Cooking .....	828	77	100	129	147	142	168	42	23	17.2
Buildings with Manufacturing .....	204	Q	32	31	35	36	36	Q	Q	38.0
Buildings with Electricity Generation .....	247	8	21	75	37	34	53	10	9	26.4
<b>Percent of Floorspace Heated</b>										
Not Heated .....	554	Q	66	98	67	91	105	Q	Q	25.8
1 to 50 .....	555	26	107	89	81	82	103	27	Q	25.0
51 to 99 .....	633	59	98	137	123	81	96	27	12	22.8
100 .....	2,836	231	291	543	448	559	542	135	88	10.5

See footnotes at end of table.

**Table 10. Year Constructed, Number of Buildings, 1995 (Continued)**  
(Thousand)

Building Characteristics	All Buildings	Buildings by Year Constructed								RSE Row Factor
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1992	1993 to 1995	
RSE Column Factor:	0.4	1.4	1.1	0.9	0.9	0.8	0.8	1.4	1.8	
<b>Percent of Floorspace</b>										
<b>Cooled</b>										
Not Cooled .....	1,198	93	180	250	210	125	189	57	94	18.5
1 to 50 .....	930	106	136	191	158	163	135	22	20	19.1
51 to 99 .....	635	64	86	133	101	92	129	18	12	21.7
100 .....	1,816	90	161	293	250	434	394	121	75	12.8
<b>Percent Lit when Open</b>										
Zero .....	36	Q	Q	Q	Q	Q	Q	Q	Q	88.4
1 to 50 .....	666	65	120	130	95	92	102	23	37	21.4
51 to 99 .....	745	77	120	136	132	142	109	Q	Q	21.3
100 .....	2,814	186	241	538	458	559	565	154	112	11.1
Building Not in Use/ Electricity Not Used .....	318	Q	74	55	32	Q	62	Q	Q	32.9
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	394	Q	24	79	37	93	104	37	15	26.6
Furnaces .....	1,676	151	258	332	267	258	325	45	40	15.1
Individual Space Heaters .....	1,188	72	134	250	231	212	201	55	32	18.1
District Heat .....	115	22	21	14	25	Q	8	Q	Q	31.3
Boilers .....	610	92	98	164	118	59	66	6	7	18.8
Packaged Heating Units .....	1,031	26	81	121	149	296	230	68	59	17.2
Other .....	161	Q	23	25	16	19	49	3	3	37.4
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central Air Conditioners .....	878	74	95	182	110	154	225	19	19	19.6
Heat Pumps .....	457	Q	33	79	38	121	116	50	15	25.3
Individual Air Conditioners .....	862	135	148	220	145	110	70	Q	Q	18.1
District Chilled Water .....	53	Q	Q	5	10	Q	7	Q	Q	48.2
Central Chillers .....	109	4	7	15	34	18	23	4	4	19.7
Packaged Air Conditioning Units .....	1,431	67	140	191	224	376	294	80	59	14.3
Swamp Coolers .....	186	Q	11	48	32	27	51	Q	Q	38.9
Other .....	18	Q	Q	Q	Q	Q	2	Q	Q	47.9
<b>Lighting Equipment Types (more than one may apply)</b>										
Incandescent .....	2,479	250	319	503	394	439	392	110	74	11.0
Standard Fluorescent .....	3,885	304	454	726	610	739	734	184	134	9.4
Compact Fluorescent .....	364	29	28	57	54	72	91	19	14	23.2
High-Intensity Discharge .....	393	28	37	75	72	67	65	18	29	21.8
Halogen .....	302	35	31	60	38	47	67	14	9	26.7
Other .....	30	Q	Q	Q	Q	Q	Q	Q	Q	95.4
<b>Personal Computers and/or Computer Terminals</b>										
None .....	2,039	157	293	373	371	293	336	106	110	13.0
1 to 4 .....	1,408	122	185	304	158	276	275	42	48	15.3
5 to 9 .....	437	37	17	60	79	131	49	44	19	25.1
10 to 19 .....	344	24	33	66	47	51	96	Q	Q	29.0
20 to 49 .....	198	7	22	37	31	36	54	4	6	22.0
50 to 99 .....	81	Q	7	15	19	13	16	4	3	20.0
100 to 249 .....	46	Q	3	9	9	8	11	2	Q	19.9
250 or More .....	26	Q	2	3	4	5	10	2	1	22.8

See footnotes at end of table.

**Table 10. Year Constructed, Number of Buildings, 1995 (Continued)**  
(Thousand)

Building Characteristics	All Buildings	Buildings by Year Constructed								RSE Row Factor
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1992	1993 to 1995	
RSE Column Factor:	0.4	1.4	1.1	0.9	0.9	0.8	0.8	1.4	1.8	
<b>Energy-Related Space Functions (more than one may apply)</b>										
Commercial Food Preparation .....	828	77	100	129	147	142	168	42	23	17.2
Computer Room .....	234	15	19	25	36	47	70	6	16	25.4
Activities with Large Amounts of Hot Water .....	243	10	16	40	79	43	44	7	3	30.8
<b>Building Shell Conservation Features (more than one may apply)</b>										
Roof or Ceiling Insulation .....	3,380	220	325	632	527	673	688	176	138	10.1
Wall Insulation .....	2,372	112	196	373	321	476	603	165	125	11.3
Storm or Multiple Glazing .....	1,897	190	202	368	191	297	420	126	104	12.7
Tinted, Reflective or Shading Glass .....	1,202	49	102	197	140	256	328	84	46	15.4
Exterior or Interior Shading or Awnings .....	2,271	202	242	441	333	418	440	109	85	11.5
<b>HVAC Conservation Features (more than one may apply)</b>										
Variable Air-Volume System .....	327	26	17	49	57	62	61	15	41	24.9
Economizer Cycle .....	461	14	44	66	67	112	101	27	30	20.7
HVAC Maintenance .....	2,403	169	275	443	395	416	519	105	82	11.1
Other Energy Efficient Equipment .....	198	6	20	Q	31	43	35	14	Q	26.7
<b>Lighting Conservation Features (more than one may apply)</b>										
Specular Reflectors .....	749	65	68	133	126	144	127	34	52	19.3
Energy-Efficient Ballasts .....	1,363	105	135	227	199	241	300	92	65	15.3
Natural Lighting Control Sensors .....	237	32	5	40	51	36	50	Q	12	28.8
Occupancy Sensors .....	131	Q	17	42	18	18	15	7	5	31.5
Time Clock .....	467	37	22	96	91	87	101	17	17	24.8
Manual Dimmer Switches .....	501	46	73	76	61	81	115	27	21	21.2
Other .....	79	Q	Q	Q	5	25	25	Q	Q	39.0
<b>Energy Conservation Features (more than one may apply)</b>										
Any Conservation Features .....	4,075	314	468	788	636	745	757	203	164	9.1
Building Shell .....	3,906	296	443	751	590	725	748	196	158	9.3
HVAC .....	2,529	172	296	458	418	446	537	107	95	10.8
Lighting .....	2,084	173	213	390	344	346	421	118	79	12.2

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

\* = Value rounds to zero in the units displayed.

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 11. Year Constructed, Floorspace, 1995**  
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Year Constructed								RSE Row Factor
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1992	1993 to 1995	
RSE Column Factor:	0.4	1.5	1.2	1.1	0.9	0.8	0.8	1.3	1.5	
<b>All Buildings</b> .....	58,772	3,673	6,710	9,298	10,858	11,333	12,252	2,590	2,059	7.1
<b>Building Floorspace (Square Feet)</b>										
1,001 to 5,000 .....	6,338	442	855	1,180	889	1,245	1,087	316	324	13.9
5,001 to 10,000 .....	7,530	756	981	1,710	1,132	1,186	1,102	368	296	18.1
10,001 to 25,000 .....	11,617	957	1,241	1,942	2,163	2,071	2,809	251	184	16.4
25,001 to 50,000 .....	7,676	407	595	1,260	1,650	1,337	1,701	378	349	12.9
50,001 to 100,000 .....	7,968	386	750	1,293	1,453	1,453	1,816	410	407	14.6
100,001 to 200,000 .....	6,776	340	934	660	1,643	1,250	1,306	406	Q	16.7
200,001 to 500,000 .....	5,553	Q	604	889	869	1,430	1,223	211	137	19.5
Over 500,000 .....	5,313	Q	750	364	1,060	1,360	1,208	250	127	21.9
<b>Principal Building Activity</b>										
Education .....	7,740	521	1,080	1,921	1,841	1,232	614	238	293	16.5
Food Sales .....	642	Q	Q	Q	Q	165	Q	Q	Q	33.2
Food Service .....	1,353	Q	Q	Q	192	285	305	Q	Q	31.3
Health Care .....	2,333	Q	Q	356	428	748	425	Q	Q	20.7
Lodging .....	3,618	Q	170	607	972	576	829	Q	Q	21.4
Mercantile and Service .....	12,728	816	1,118	1,895	2,342	2,749	2,727	632	449	15.8
Office .....	10,478	599	1,155	1,262	1,206	2,095	3,377	568	217	14.2
Public Assembly .....	3,948	381	706	498	821	736	399	221	Q	22.5
Public Order and Safety .....	1,271	Q	Q	Q	Q	254	Q	Q	Q	45.0
Religious Worship .....	2,792	266	Q	637	535	510	598	Q	Q	24.6
Warehouse and Storage .....	8,481	192	1,076	1,236	1,530	1,616	2,104	318	409	19.9
Other .....	1,004	Q	Q	Q	Q	Q	176	Q	Q	41.4
Vacant .....	2,384	326	734	363	337	245	337	Q	Q	27.3
<b>Floors</b>										
One .....	24,552	356	1,974	4,107	4,843	5,278	5,792	1,204	998	11.7
Two .....	14,122	704	1,416	2,740	2,844	2,663	2,587	590	577	12.7
Three .....	7,335	1,264	1,317	1,249	1,046	1,089	1,022	184	Q	18.4
Four to Nine .....	8,789	1,187	1,370	903	1,518	1,434	1,690	391	296	15.0
Ten or More .....	3,975	Q	634	299	607	869	1,161	222	Q	22.0
<b>Census Region</b>										
Northeast .....	11,883	1,226	1,794	1,944	2,344	1,658	2,128	443	347	15.8
Midwest .....	14,322	1,529	2,314	2,268	2,356	2,435	2,324	545	552	13.8
South .....	20,830	514	1,709	3,192	3,856	4,344	5,371	1,094	750	13.1
West .....	11,736	404	893	1,894	2,302	2,895	2,429	509	410	16.6
<b>Workers (main shift)</b>										
Fewer than 5 .....	13,885	1,295	2,266	2,533	2,400	2,047	2,227	509	609	13.3
5 to 9 .....	6,291	608	949	1,277	1,095	1,209	912	142	Q	18.6
10 to 19 .....	7,102	490	647	1,300	1,179	1,607	1,393	277	209	17.8
20 to 49 .....	9,132	414	1,077	1,655	1,634	1,374	2,125	430	423	14.2
50 to 99 .....	6,931	266	595	951	1,648	1,392	1,446	245	388	15.4
100 to 249 .....	5,988	360	497	768	1,275	1,056	1,389	472	172	16.7
250 or More .....	9,443	239	679	814	1,627	2,649	2,760	515	160	16.4
<b>Weekly Operating Hours</b>										
39 or Fewer .....	6,134	711	979	1,271	1,000	798	978	Q	Q	18.7
40 to 48 .....	13,233	864	2,300	2,730	1,859	2,047	2,484	512	439	14.9
49 to 60 .....	12,242	843	1,093	2,034	2,196	2,393	2,693	663	326	14.4
61 to 84 .....	10,052	445	824	1,327	2,273	2,271	2,218	339	356	15.1
85 to 167 .....	6,202	360	486	719	1,170	1,628	1,272	311	256	18.2
Open Continuously .....	10,908	449	1,028	1,217	2,360	2,197	2,607	546	504	13.8

See footnotes at end of table.

**Table 11. Year Constructed, Floorspace, 1995 (Continued)**  
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Year Constructed								RSE Row Factor
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1992	1993 to 1995	
RSE Column Factor:	0.4	1.5	1.2	1.1	0.9	0.8	0.8	1.3	1.5	
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	46,696	3,021	5,039	6,662	8,084	9,143	10,977	2,170	1,602	8.2
Owner Occupied .....	35,573	2,615	3,885	5,207	6,341	6,794	7,731	1,661	1,338	9.0
Nonowner Occupied .....	9,697	342	622	1,247	1,496	2,195	3,042	493	260	17.0
Unoccupied .....	1,426	Q	531	207	Q	154	Q	Q	Q	35.3
Government Owned .....	12,076	652	1,671	2,636	2,774	2,190	1,275	420	457	12.7
<b>Space in Building Vacant for at Least Three Consecutive Months</b>										
Yes .....	15,844	1,016	1,986	1,863	2,697	3,334	3,881	608	459	12.6
No .....	42,928	2,657	4,724	7,435	8,161	7,999	8,371	1,982	1,600	7.9
<b>Predominant Exterior Wall Material</b>										
Masonry .....	42,958	3,198	5,652	7,722	8,590	7,290	7,604	1,759	1,145	8.3
Siding or Shingles .....	3,243	413	597	409	339	544	637	Q	226	26.1
Metal Panels .....	5,694	Q	285	557	743	1,659	1,809	335	305	20.9
Concrete Panels .....	4,069	Q	Q	382	752	1,219	1,123	262	197	19.3
Window Glass .....	1,755	Q	Q	Q	309	330	690	Q	Q	27.6
Other .....	660	Q	Q	Q	Q	174	206	Q	Q	31.7
No One Major Type .....	393	Q	Q	Q	Q	Q	Q	Q	Q	68.7
<b>Predominant Roof Material</b>										
Built-Up .....	24,481	934	2,916	4,104	5,357	5,555	4,454	654	507	11.4
Shingles (Not Wood) .....	11,093	1,139	1,414	2,036	1,853	1,831	2,084	429	306	13.2
Metal Surfacing .....	7,941	Q	452	933	1,063	1,665	2,408	594	601	18.1
Synthetic or Rubber .....	10,235	637	1,106	1,335	1,985	1,572	2,299	776	524	12.6
Slate or Tile .....	1,920	484	358	291	197	Q	293	Q	Q	23.2
Wooden Materials .....	1,130	Q	Q	Q	Q	Q	Q	Q	Q	47.2
Concrete .....	1,335	Q	Q	Q	159	233	496	Q	Q	43.3
Other .....	332	Q	Q	Q	Q	Q	Q	Q	Q	46.0
No One Major Type .....	305	Q	Q	Q	Q	Q	Q	Q	Q	60.4
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	57,076	3,527	6,175	9,123	10,649	11,245	11,909	2,544	1,905	7.2
Natural Gas .....	38,145	2,643	4,560	6,470	7,170	7,375	7,181	1,659	1,087	8.5
Fuel Oil .....	14,421	1,085	1,241	1,997	2,871	2,936	3,112	607	572	12.1
District Heat .....	5,658	556	864	939	1,408	965	508	258	Q	18.4
District Chilled Water .....	2,521	Q	187	322	527	674	400	Q	Q	23.6
Propane .....	5,344	Q	414	634	1,136	1,130	1,256	228	398	21.5
Other .....	2,336	Q	381	422	483	353	331	Q	Q	28.0
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating .....	54,347	3,429	5,951	8,701	10,024	10,489	11,462	2,467	1,824	7.3
Buildings with Cooling .....	49,935	2,818	5,038	7,549	8,978	10,389	11,174	2,345	1,644	7.6
Buildings with Water Heating .....	51,560	3,206	5,349	8,136	9,722	10,117	11,105	2,263	1,661	7.3
Buildings with Cooking .....	20,713	1,272	1,555	3,177	4,207	4,344	4,301	1,082	774	10.6
Buildings with Manufacturing .....	3,893	Q	622	502	524	649	998	Q	Q	23.9
Buildings with Electricity Generation .....	13,366	468	691	1,561	2,619	3,262	3,437	780	548	12.9
<b>Percent of Floorspace Heated</b>										
Not Heated .....	4,425	Q	759	597	833	844	790	Q	Q	27.7
1 to 50 .....	6,227	275	1,306	849	1,037	1,089	1,336	159	Q	21.7
51 to 99 .....	8,868	618	867	1,563	1,581	1,660	1,885	376	319	17.3
100 .....	39,252	2,536	3,777	6,289	7,406	7,740	8,241	1,933	1,330	8.2

See footnotes at end of table.

**Table 11. Year Constructed, Floorspace, 1995 (Continued)**  
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Year Constructed								RSE Row Factor
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1992	1993 to 1995	
RSE Column Factor:	0.4	1.5	1.2	1.1	0.9	0.8	0.8	1.3	1.5	
<b>Percent of Floorspace</b>										
<b>Cooled</b>										
Not Cooled .....	8,837	854	1,672	1,749	1,880	944	1,078	245	415	17.6
1 to 50 .....	15,027	1,228	2,456	2,757	2,988	2,549	2,342	398	309	13.4
51 to 99 .....	12,549	747	1,212	1,788	2,316	2,688	2,826	537	434	14.0
100 .....	22,359	842	1,370	3,004	3,673	5,152	6,006	1,410	901	10.2
<b>Percent Lit when Open</b>										
Zero .....	189	Q	Q	Q	Q	Q	Q	Q	Q	62.5
1 to 50 .....	6,008	598	1,327	1,211	990	664	890	161	168	18.4
51 to 99 .....	9,692	755	1,493	1,478	1,481	2,103	1,790	328	264	16.0
100 .....	40,514	2,116	3,193	6,207	8,084	8,333	9,083	2,031	1,467	8.5
Building Not in Use/ Electricity Not Used .....	2,369	Q	680	357	294	182	449	Q	Q	32.0
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	5,843	Q	319	1,023	761	1,035	1,962	383	231	17.5
Furnaces .....	14,923	1,256	1,818	2,531	2,563	2,545	3,261	492	458	12.6
Individual Space Heaters .....	16,809	853	1,829	3,029	2,926	3,517	3,589	648	417	12.8
District Heat .....	5,911	591	877	975	1,509	1,000	550	258	Q	18.2
Boilers .....	16,754	1,404	2,185	3,144	3,982	2,735	2,418	433	453	11.2
Packaged Heating Units .....	16,893	294	1,123	2,050	3,031	4,133	4,307	1,105	851	11.8
Other .....	6,249	Q	498	561	952	1,639	1,727	303	252	19.9
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central Air Conditioners .....	9,238	729	766	1,716	1,423	1,851	2,208	325	219	14.0
Heat Pumps .....	6,931	Q	512	1,085	798	1,521	2,131	506	241	16.6
Individual Air Conditioners .....	12,494	1,389	2,122	2,713	2,732	1,847	1,384	156	Q	13.0
District Chilled Water .....	2,521	Q	187	322	527	674	400	Q	Q	23.6
Central Chillers .....	11,065	292	740	1,433	2,603	2,846	2,343	467	342	15.4
Packaged Air Conditioning Units .....	26,628	1,026	2,408	3,509	5,202	6,087	6,104	1,335	957	10.1
Swamp Coolers .....	2,451	Q	196	413	423	432	689	Q	Q	31.2
Other .....	949	Q	Q	Q	Q	Q	178	Q	Q	45.3
<b>Lighting Equipment Types (more than one may apply)</b>										
Incandescent .....	35,715	2,807	4,191	5,880	6,604	6,739	7,077	1,339	1,079	8.3
Standard Fluorescent .....	53,984	3,278	5,786	8,502	9,846	10,870	11,481	2,432	1,789	7.3
Compact Fluorescent .....	14,273	540	1,437	1,571	2,505	3,403	3,403	777	637	13.2
High-Intensity Discharge .....	16,259	597	1,615	2,334	2,942	3,473	3,538	943	816	11.9
Halogen .....	9,665	434	727	1,267	1,521	2,362	2,475	479	401	15.7
Other .....	554	Q	Q	Q	Q	Q	Q	Q	Q	89.6
<b>Personal Computers and/or Computer Terminals</b>										
None .....	12,571	997	2,062	2,210	2,637	1,702	1,942	544	476	14.0
1 to 4 .....	11,401	954	1,650	2,262	1,651	2,201	2,088	271	323	14.8
5 to 9 .....	5,372	345	258	861	1,102	1,240	980	385	201	18.8
10 to 19 .....	5,947	471	498	901	959	1,014	1,617	290	Q	18.7
20 to 49 .....	7,048	275	976	1,019	1,236	1,435	1,603	226	279	16.6
50 to 99 .....	4,938	Q	394	607	1,077	974	1,149	247	234	17.0
100 to 249 .....	5,189	Q	382	606	1,185	1,297	1,097	254	Q	18.1
250 or More .....	6,307	Q	490	832	1,010	1,470	1,776	372	134	17.4

See footnotes at end of table.



**Table 11. Year Constructed, Floorspace, 1995 (Continued)**  
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Floorspace by Year Constructed								RSE Row Factor
		1919 or Before	1920 to 1945	1946 to 1959	1960 to 1969	1970 to 1979	1980 to 1989	1990 to 1992	1993 to 1995	
RSE Column Factor:	0.4	1.5	1.2	1.1	0.9	0.8	0.8	1.3	1.5	
<b>Energy-Related Space Functions (more than one may apply)</b>										
Commercial Food Preparation .....	20,713	1,272	1,555	3,177	4,207	4,344	4,301	1,082	774	10.6
Computer Room .....	12,890	560	1,190	1,648	2,132	2,687	3,430	643	600	12.0
Activities with Large Amounts of Hot Water .....	6,753	332	346	864	1,618	1,514	1,626	261	192	16.5
<b>Building Shell Conservation Features (more than one may apply)</b>										
Roof or Ceiling Insulation .....	46,355	2,435	3,801	7,382	8,387	9,678	10,589	2,339	1,745	7.8
Wall Insulation .....	31,694	1,326	1,944	4,133	4,829	6,740	9,116	2,098	1,508	9.3
Storm or Multiple Glazing .....	28,876	2,134	2,484	4,085	3,913	5,191	7,507	2,001	1,562	8.6
Tinted, Reflective or Shading Glass .....	24,245	806	1,513	2,922	3,757	5,540	6,964	1,651	1,093	9.6
Exterior or Interior Shading or Awnings .....	37,208	2,430	3,571	5,965	6,504	7,194	8,492	1,732	1,321	8.1
<b>HVAC Conservation Features (more than one may apply)</b>										
Variable Air-Volume System .....	13,473	436	792	1,570	2,334	2,974	3,584	845	937	14.0
Economizer Cycle .....	16,550	371	1,391	1,932	3,214	3,812	4,014	1,024	792	11.1
HVAC Maintenance .....	43,134	2,242	4,034	6,678	8,368	8,232	9,901	2,105	1,574	8.0
Other Energy Efficient Equipment .....	6,453	236	574	819	1,011	1,518	1,523	321	450	15.5
<b>Lighting Conservation Features (more than one may apply)</b>										
Specular Reflectors .....	17,868	952	1,602	2,156	3,213	4,009	4,031	922	984	11.5
Energy-Efficient Ballasts .....	28,375	1,363	2,667	4,106	5,151	5,849	6,334	1,590	1,315	9.7
Natural Lighting Control Sensors .....	6,431	251	305	788	1,040	1,671	1,584	373	420	17.6
Occupancy Sensors .....	5,958	Q	383	1,049	1,087	1,346	1,214	351	327	18.3
Time Clock .....	13,262	513	540	1,575	2,641	3,075	3,528	744	645	12.4
Manual Dimmer Switches .....	13,056	791	938	1,743	2,038	2,421	3,704	797	624	12.8
Other .....	2,836	Q	Q	638	428	601	752	Q	Q	24.9
<b>Energy Conservation Features (more than one may apply)</b>										
Any Conservation Features .....	55,288	3,470	5,582	8,806	10,188	10,978	11,791	2,533	1,939	7.1
Building Shell .....	53,190	3,275	5,232	8,561	9,591	10,572	11,607	2,483	1,868	7.1
HVAC .....	44,657	2,298	4,266	6,789	8,689	8,671	10,129	2,149	1,665	7.9
Lighting .....	38,537	2,328	3,495	5,683	7,246	7,639	8,564	2,023	1,558	8.2

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

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.