

## Buildings Characteristics

### End-Use Equipment Tables

(27 pages, 151 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 33. Heating Equipment, Number of Buildings, 1995**  
(Thousand)

Building Characteristics	All Buildings	All Heated Buildings	Heating Equipment (more than one may apply)							RSE Row Factor
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other	
RSE Column Factor:	0.5	0.6	1.3	0.9	1.0	1.7	1.1	0.9	1.8	
<b>All Buildings</b> .....	4,579	4,024	394	1,676	1,188	115	610	1,031	161	8.1
<b>Building Floorspace (Square Feet)</b>										
1,001 to 5,000 .....	2,399	2,060	213	898	616	Q	199	483	Q	11.0
5,001 to 10,000 .....	1,035	899	59	441	268	Q	135	193	22	15.3
10,001 to 25,000 .....	745	685	80	257	191	27	128	216	50	14.1
25,001 to 50,000 .....	213	198	20	49	57	18	70	75	14	10.6
50,001 to 100,000 .....	115	111	16	20	33	11	46	41	11	10.5
100,001 to 200,000 .....	48	46	4	8	14	8	20	15	6	11.9
200,001 to 500,000 .....	19	18	3	2	6	4	9	6	4	12.8
Over 500,000 .....	6	6	1	1	2	2	2	2	2	14.3
<b>Principal Building Activity</b>										
Education .....	309	309	20	66	80	37	108	92	6	19.4
Food Sales .....	137	124	Q	44	33	Q	Q	47	Q	30.6
Food Service .....	285	274	Q	146	Q	Q	Q	101	Q	18.5
Health Care .....	105	105	19	27	20	4	23	32	Q	33.4
Lodging .....	158	158	22	33	72	12	36	26	3	21.4
Mercantile and Service .....	1,289	1,217	69	602	415	Q	135	263	48	14.9
Office .....	705	704	136	245	148	21	118	229	20	16.1
Public Assembly .....	326	310	28	167	65	10	62	55	32	23.6
Public Order and Safety .....	87	81	Q	26	18	Q	Q	7	Q	40.9
Religious Worship .....	269	269	20	147	97	Q	39	66	Q	23.9
Warehouse and Storage .....	580	325	39	130	132	Q	Q	81	23	24.5
Other .....	67	53	Q	Q	Q	Q	7	Q	Q	51.5
Vacant .....	261	95	Q	33	52	Q	10	20	Q	28.0
<b>Year Constructed</b>										
1919 or Before .....	353	316	Q	151	72	22	92	26	Q	25.7
1920 to 1945 .....	562	496	24	258	134	21	98	81	23	21.2
1946 to 1959 .....	867	769	79	332	250	14	164	121	25	15.3
1960 to 1969 .....	718	652	37	267	231	25	118	149	16	16.2
1970 to 1979 .....	813	722	93	258	212	Q	59	296	19	14.8
1980 to 1989 .....	846	741	104	325	201	8	66	230	49	16.8
1990 to 1992 .....	218	189	37	45	55	Q	6	68	3	25.3
1993 to 1995 .....	202	141	15	40	32	Q	7	59	3	31.7
<b>Census Region</b>										
Northeast .....	725	657	14	284	140	26	240	91	38	19.0
Midwest .....	1,139	1,006	31	626	255	36	161	109	65	17.2
South .....	1,750	1,547	284	471	500	34	111	526	43	12.9
West .....	964	815	65	295	293	19	97	305	14	17.2
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	493	443	4	260	134	3	110	40	Q	24.4
5,500 to 7,000 HDD .....	975	877	19	464	199	31	235	116	49	14.6
4,000 to 5,499 HDD .....	1,070	927	110	465	294	45	165	138	27	21.6
Fewer than 4,000 HDD .....	1,103	955	165	297	319	11	67	387	8	16.1
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	937	822	97	190	242	Q	33	350	35	20.5

See footnotes at end of table.

**Table 33. Heating Equipment, Number of Buildings, 1995 (Continued)**  
(Thousand)

Building Characteristics	All Buildings	All Heated Buildings	Heating Equipment (more than one may apply)							RSE Row Factor
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other	
RSE Column Factor:	0.5	0.6	1.3	0.9	1.0	1.7	1.1	0.9	1.8	
<b>Workers (main shift)</b>										
Fewer than 5 .....	2,505	2,013	150	914	668	34	229	376	75	13.3
5 to 9 .....	798	770	72	346	222	16	86	230	19	19.0
10 to 19 .....	625	608	78	239	122	Q	121	188	30	17.8
20 to 49 .....	400	390	64	128	106	18	84	144	14	14.0
50 to 99 .....	138	131	14	29	45	18	43	57	8	13.9
100 to 249 .....	71	69	12	10	17	8	30	27	6	13.4
250 or More .....	43	43	5	Q	9	9	17	9	9	13.7
<b>Weekly Operating Hours</b>										
39 or Fewer .....	899	620	42	283	235	Q	74	109	Q	18.5
40 to 48 .....	1,257	1,207	162	488	349	24	167	324	50	14.1
49 to 60 .....	969	907	78	360	303	23	145	230	48	15.6
61 to 84 .....	567	541	44	267	135	13	71	139	24	18.1
85 to 167 .....	420	366	24	165	70	12	39	122	12	19.7
Open Continuously .....	466	385	44	113	96	33	113	107	11	16.8
<b>Multibuilding Facility</b>										
Part of Multibuilding Facility .....	1,480	1,195	167	358	350	99	206	334	79	11.7
Not on Multibuilding Facility .....	3,099	2,829	227	1,318	838	16	404	697	82	10.9
<b>Predominant Exterior Wall Material</b>										
Masonry .....	3,061	2,774	295	1,079	765	98	502	772	77	8.9
Siding or Shingles .....	639	572	37	315	144	Q	70	83	Q	21.9
Metal Panels .....	662	480	41	220	235	Q	15	97	35	22.0
Concrete Panels .....	106	98	Q	30	23	5	11	37	5	24.2
Window Glass .....	46	46	2	Q	Q	2	5	36	2	28.2
Other .....	50	40	Q	Q	Q	Q	Q	Q	Q	59.0
No One Major Type .....	15	14	Q	Q	Q	Q	Q	Q	Q	86.1
<b>Predominant Roof Material</b>										
Built-Up .....	1,369	1,257	99	483	378	63	197	437	40	12.9
Shingles (Not Wood) .....	1,486	1,386	172	631	336	20	241	249	46	15.6
Metal Surfacing .....	908	672	65	273	279	3	25	173	51	17.7
Synthetic or Rubber .....	351	334	41	112	76	18	100	80	20	17.6
Slate or Tile .....	202	173	7	64	59	10	37	49	Q	25.5
Wooden Materials .....	152	123	Q	80	Q	Q	Q	Q	Q	38.0
Concrete .....	58	40	Q	Q	22	Q	3	Q	Q	43.4
Other .....	36	23	Q	Q	Q	Q	Q	Q	Q	77.4
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	4,004	394	1,667	1,171	115	606	1,031	161	8.0
Natural Gas .....	2,478	2,456	98	1,221	726	32	420	708	68	9.5
Fuel Oil .....	607	607	53	249	190	20	242	47	52	20.9
District Heat .....	110	109	2	Q	9	109	Q	4	3	21.0
District Chilled Water .....	53	52	Q	Q	3	48	3	3	2	31.2
Propane .....	589	579	26	294	185	Q	96	96	23	21.4
Other .....	213	210	Q	82	69	Q	45	14	42	31.9

See footnotes at end of table.

**Table 33. Heating Equipment, Number of Buildings, 1995 (Continued)**  
(Thousand)

Building Characteristics	All Buildings	All Heated Buildings	Heating Equipment (more than one may apply)							RSE Row Factor
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other	
RSE Column Factor:	0.5	0.6	1.3	0.9	1.0	1.7	1.1	0.9	1.8	
<b>Space-Heating Energy Sources (more than one may apply)</b>										
Electricity .....	1,467	1,467	391	395	603	10	138	465	94	12.0
Natural Gas .....	2,211	2,211	56	1,180	670	7	381	631	54	9.7
Fuel Oil .....	504	504	36	214	146	Q	212	27	37	25.6
District Heat .....	109	109	2	Q	9	109	Q	4	3	21.1
Propane .....	301	301	Q	168	114	Q	27	58	Q	28.1
Other .....	135	135	Q	64	44	Q	30	Q	34	37.7
<b>Primary Space-Heating Energy Source</b>										
Electricity .....	1,007	1,007	325	161	328	Q	18	346	52	16.5
Natural Gas .....	2,106	2,106	35	1,141	613	2	371	596	51	11.0
Fuel Oil .....	439	439	Q	188	122	Q	183	23	29	26.2
District Heat .....	107	107	2	Q	8	107	Q	3	3	21.5
Propane .....	260	260	Q	147	99	Q	Q	49	Q	29.7
Other .....	61	61	Q	Q	Q	Q	Q	Q	Q	53.3
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating .....	4,024	4,024	394	1,676	1,188	115	610	1,031	161	8.1
Buildings with Cooling .....	3,381	3,326	393	1,330	882	99	470	1,015	119	8.2
Buildings with Water Heating .....	3,486	3,418	348	1,432	956	100	595	901	133	8.4
Buildings with Cooking .....	828	804	70	302	189	18	175	261	38	12.4
Buildings with Manufacturing .....	204	181	23	61	67	Q	26	39	23	29.7
Buildings with Electricity Generation .....	247	246	24	69	63	21	103	62	22	20.7
<b>Percent of Floorspace Heated</b>										
Not Heated .....	554	--	--	--	--	--	--	--	--	19.0
1 to 50 .....	555	555	41	216	225	Q	49	131	29	20.7
51 to 99 .....	633	633	53	298	209	7	87	159	34	17.7
100 .....	2,836	2,836	301	1,163	754	106	473	741	98	8.9
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	394	394	394	47	78	2	30	49	Q	20.9
Furnaces .....	1,676	1,676	47	1,676	355	Q	80	145	37	14.8
Individual Space Heaters .....	1,188	1,188	78	355	1,188	9	140	186	30	13.8
District Heat .....	115	115	2	Q	9	115	Q	4	3	20.6
Boilers .....	610	610	30	80	140	Q	610	50	30	17.7
Packaged Heating Units .....	1,031	1,031	49	145	186	4	50	1,031	21	14.6
Other .....	161	161	Q	37	30	3	30	21	161	27.9

See footnotes at end of table.

**Table 33. Heating Equipment, Number of Buildings, 1995 (Continued)**  
(Thousand)

Building Characteristics	All Buildings	All Heated Buildings	Heating Equipment (more than one may apply)							RSE Row Factor
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other	
RSE Column Factor:	0.5	0.6	1.3	0.9	1.0	1.7	1.1	0.9	1.8	
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central Air Conditioners .....	878	862	30	640	170	8	116	114	25	18.0
Heat Pumps .....	457	457	384	75	96	3	31	96	18	20.4
Individual Air Conditioners .....	862	848	43	326	385	25	188	91	50	15.2
District Chilled Water .....	53	52	Q	Q	3	48	3	3	2	31.2
Central Chillers .....	109	108	8	9	28	15	77	18	18	15.1
Packaged Air Conditioning Units .....	1,431	1,404	44	432	351	28	174	877	48	12.3
Swamp Coolers .....	186	182	4	91	70	Q	9	57	4	27.8
Other .....	18	18	Q	4	9	Q	9	4	4	33.9
<b>Energy-Related Space Functions (more than one may apply)</b>										
Commercial Food Preparation .....	828	804	70	302	189	18	175	261	38	12.4
Computer Room .....	234	231	17	63	67	22	60	98	16	16.6
Activities with Large Amounts of Hot Water .....	243	233	25	99	67	11	64	52	8	20.7
<b>Building Shell Conservation Features (more than one may apply)</b>										
Roof or Ceiling Insulation .....	3,380	3,226	361	1,350	887	98	510	867	141	8.5
Wall Insulation .....	2,372	2,315	301	979	640	57	311	676	122	9.8
Storm or Multiple Glazing .....	1,897	1,853	195	870	484	47	362	415	88	11.2
Tinted, Reflective or Shading Glass .....	1,202	1,171	130	469	269	42	164	442	52	12.2
Exterior or Interior Shading or Awnings .....	2,271	2,234	310	836	607	73	407	644	97	9.8
<b>HVAC Conservation Features (more than one may apply)</b>										
Variable Air-Volume System .....	327	326	25	86	74	37	82	122	19	18.0
Economizer Cycle .....	461	457	42	143	120	25	98	202	21	13.7
HVAC Maintenance .....	2,403	2,393	285	933	574	95	500	705	101	9.4
Other Energy Efficient Equipment .....	198	198	24	57	56	9	50	54	10	22.3
<b>Off-Hour Equipment Reduction (more than one may apply)</b>										
Heating .....	3,211	3,211	286	1,442	955	65	433	818	122	8.9
Cooling .....	2,707	2,654	286	1,121	711	61	333	807	92	9.2
Lighting .....	3,753	3,522	350	1,511	1,018	81	484	904	150	8.8

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 34. Heating Equipment, Floorspace, 1995**  
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Heated Buildings	Heating Equipment (more than one may apply)							RSE Row Factor
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other	
RSE Column Factor:	0.6	0.6	1.3	1.1	1.0	1.5	0.9	0.9	1.5	
<b>All Buildings</b> .....	58,772	54,347	5,843	14,923	16,809	5,911	16,754	16,893	6,249	5.8
<b>Building Floorspace (Square Feet)</b>										
1,001 to 5,000 .....	6,338	5,506	589	2,334	1,618	Q	551	1,319	Q	10.5
5,001 to 10,000 .....	7,530	6,546	436	3,197	2,003	Q	1,005	1,410	180	15.4
10,001 to 25,000 .....	11,617	10,706	1,243	3,871	3,094	407	2,080	3,387	780	13.3
25,001 to 50,000 .....	7,676	7,157	701	1,743	1,960	657	2,592	2,754	489	10.7
50,001 to 100,000 .....	7,968	7,699	1,156	1,371	2,208	792	3,190	2,800	762	10.2
100,001 to 200,000 .....	6,776	6,456	564	1,079	1,936	1,162	2,850	2,139	822	12.1
200,001 to 500,000 .....	5,553	5,371	681	657	1,901	1,283	2,553	1,611	1,202	12.8
Over 500,000 .....	5,313	4,906	473	671	2,088	1,390	1,933	1,473	1,861	14.4
<b>Principal Building Activity</b>										
Education .....	7,740	7,740	570	1,041	1,703	1,129	4,805	1,782	416	13.1
Food Sales .....	642	609	Q	255	198	Q	Q	246	Q	22.7
Food Service .....	1,353	1,299	Q	643	Q	Q	Q	539	Q	20.9
Health Care .....	2,333	2,333	296	144	469	644	1,171	625	512	15.1
Lodging .....	3,618	3,608	833	582	1,478	634	1,307	1,039	264	17.0
Mercantile and Service .....	12,728	12,227	942	4,303	4,187	Q	1,911	4,758	1,739	12.1
Office .....	10,478	10,458	1,744	1,891	2,702	1,587	3,426	3,184	1,812	10.0
Public Assembly .....	3,948	3,836	307	1,183	754	701	1,396	813	499	16.0
Public Order and Safety .....	1,271	1,154	Q	285	214	340	459	202	Q	29.4
Religious Worship .....	2,792	2,791	263	1,443	915	Q	717	718	Q	18.5
Warehouse and Storage .....	8,481	6,419	579	2,701	3,339	300	723	2,387	422	17.6
Other .....	1,004	907	Q	Q	263	170	373	379	Q	33.7
Vacant .....	2,384	966	Q	264	420	Q	334	221	Q	23.2
<b>Year Constructed</b>										
1919 or Before .....	3,673	3,429	Q	1,256	853	591	1,404	294	Q	17.6
1920 to 1945 .....	6,710	5,951	319	1,818	1,829	877	2,185	1,123	498	16.2
1946 to 1959 .....	9,298	8,701	1,023	2,531	3,029	975	3,144	2,050	561	12.8
1960 to 1969 .....	10,858	10,024	761	2,563	2,926	1,509	3,982	3,031	952	11.3
1970 to 1979 .....	11,333	10,489	1,035	2,545	3,517	1,000	2,735	4,133	1,639	9.3
1980 to 1989 .....	12,252	11,462	1,962	3,261	3,589	550	2,418	4,307	1,727	10.3
1990 to 1992 .....	2,590	2,467	383	492	648	258	433	1,105	303	16.5
1993 to 1995 .....	2,059	1,824	231	458	417	Q	453	851	252	18.3
<b>Census Region</b>										
Northeast .....	11,883	11,180	657	2,732	3,393	1,834	5,210	2,578	1,979	11.3
Midwest .....	14,322	13,511	779	4,984	4,395	1,984	4,480	2,868	1,590	11.5
South .....	20,830	18,900	3,189	4,497	5,783	1,101	3,952	7,439	1,915	9.8
West .....	11,736	10,756	1,218	2,710	3,237	993	3,112	4,009	765	12.8
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	5,098	4,901	254	1,893	1,550	299	2,125	917	702	18.2
5,500 to 7,000 HDD .....	14,597	13,937	586	4,325	4,434	2,001	5,565	3,010	1,850	11.8
4,000 to 5,499 HDD .....	15,155	14,147	1,756	3,993	4,734	2,376	4,833	3,395	1,886	11.2
Fewer than 4,000 HDD .....	13,491	12,350	1,944	3,128	3,859	585	2,985	5,412	725	14.3
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	10,430	9,014	1,303	1,584	2,231	651	1,247	4,159	1,087	16.0

See footnotes at end of table.

**Table 34. Heating Equipment, Floorspace, 1995 (Continued)**  
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Heated Buildings	Heating Equipment (more than one may apply)							RSE Row Factor
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other	
RSE Column Factor:	0.6	0.6	1.3	1.1	1.0	1.5	0.9	0.9	1.5	
<b>Workers (main shift)</b>										
Fewer than 5 .....	13,885	10,663	807	4,496	3,629	427	1,692	1,988	513	12.5
5 to 9 .....	6,291	6,086	381	2,397	2,072	319	1,044	1,733	368	16.4
10 to 19 .....	7,102	6,905	831	2,557	1,666	285	1,560	2,185	463	13.8
20 to 49 .....	9,132	8,899	1,108	2,280	2,463	673	2,856	3,529	505	11.0
50 to 99 .....	6,931	6,642	689	1,504	2,209	784	2,733	2,695	646	12.2
100 to 249 .....	5,988	5,880	969	778	1,583	902	2,866	2,219	626	12.1
250 or More .....	9,443	9,272	1,058	911	3,186	2,520	4,003	2,545	3,128	10.3
<b>Weekly Operating Hours</b>										
39 or Fewer .....	6,134	4,032	201	1,776	1,357	Q	919	682	Q	13.8
40 to 48 .....	13,233	12,672	1,568	3,844	4,025	792	3,304	3,815	762	12.0
49 to 60 .....	12,242	11,658	1,121	3,381	3,622	996	3,566	3,369	1,342	10.7
61 to 84 .....	10,052	9,635	1,161	2,359	2,975	676	3,078	3,280	1,536	11.7
85 to 167 .....	6,202	5,880	322	1,409	1,522	908	1,757	2,386	684	13.2
Open Continuously .....	10,908	10,469	1,470	2,155	3,307	2,399	4,130	3,360	1,765	9.6
<b>Multibuilding Facility</b>										
Part of Multibuilding Facility .....	24,352	21,968	2,669	4,723	6,218	4,560	6,602	6,203	2,922	7.6
Not on Multibuilding Facility .....	34,420	32,379	3,175	10,200	10,591	1,351	10,152	10,691	3,327	7.1
<b>Predominant Exterior Wall Material</b>										
Masonry .....	42,958	40,217	4,501	10,066	11,748	4,605	13,521	12,676	4,107	6.9
Siding or Shingles .....	3,243	2,919	219	1,571	699	Q	511	512	Q	23.0
Metal Panels .....	5,694	4,559	421	2,023	2,318	Q	670	1,245	549	15.6
Concrete Panels .....	4,069	3,932	346	912	1,259	580	997	1,765	642	14.6
Window Glass .....	1,755	1,754	265	161	516	343	673	474	494	19.1
Other .....	660	603	Q	Q	229	Q	232	169	146	24.9
No One Major Type .....	393	363	Q	Q	Q	Q	Q	Q	Q	53.4
<b>Predominant Roof Material</b>										
Built-Up .....	24,481	23,087	2,153	5,173	6,795	3,084	7,721	8,450	2,760	8.7
Shingles (Not Wood) .....	11,093	10,450	1,301	3,967	2,505	565	2,771	2,570	620	11.6
Metal Surfacing .....	7,941	6,463	832	2,533	2,723	183	595	2,081	614	13.3
Synthetic or Rubber .....	10,235	10,099	1,157	2,167	3,371	1,525	4,273	2,888	1,806	9.8
Slate or Tile .....	1,920	1,765	197	421	516	354	615	407	Q	18.6
Wooden Materials .....	1,130	985	Q	483	Q	Q	Q	Q	Q	32.7
Concrete .....	1,335	903	Q	Q	485	Q	420	Q	Q	32.5
Other .....	332	290	Q	Q	Q	Q	Q	Q	Q	38.0
No One Major Type .....	305	305	Q	Q	Q	Q	Q	Q	Q	45.3
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	57,076	54,110	5,831	14,851	16,689	5,900	16,650	16,867	6,237	5.8
Natural Gas .....	38,145	37,950	2,988	11,907	12,747	2,431	14,242	12,946	4,070	6.6
Fuel Oil .....	14,421	14,236	1,648	2,454	4,504	2,219	8,208	2,817	3,184	9.4
District Heat .....	5,658	5,642	252	Q	1,046	5,628	Q	378	883	14.4
District Chilled Water .....	2,521	2,479	Q	Q	369	2,192	215	162	385	19.8
Propane .....	5,344	5,281	517	2,161	1,513	Q	1,545	1,363	409	17.6
Other .....	2,336	2,312	Q	562	471	303	930	375	589	22.6

See footnotes at end of table.

**Table 34. Heating Equipment, Floorspace, 1995 (Continued)**  
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Heated Buildings	Heating Equipment (more than one may apply)							RSE Row Factor
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other	
RSE Column Factor:	0.6	0.6	1.3	1.1	1.0	1.5	0.9	0.9	1.5	
<b>Space-Heating Energy Sources (more than one may apply)</b>										
Electricity .....	22,156	22,156	5,815	4,839	9,535	1,087	4,855	8,898	4,152	8.5
Natural Gas .....	31,535	31,535	1,948	11,369	11,128	640	12,801	11,200	2,824	7.6
Fuel Oil .....	6,606	6,606	531	1,633	1,653	468	4,629	827	1,074	16.2
District Heat .....	5,606	5,606	252	Q	1,046	5,606	Q	378	873	14.4
Propane .....	2,025	2,025	Q	964	742	Q	415	515	Q	23.3
Other .....	1,050	1,050	Q	298	272	Q	472	Q	383	28.9
<b>Primary Space-Heating Energy Source</b>										
Electricity .....	13,500	13,500	3,949	2,088	4,452	Q	1,048	5,910	2,299	10.5
Natural Gas .....	28,808	28,808	1,332	10,473	9,777	252	12,095	9,891	2,470	8.5
Fuel Oil .....	4,207	4,207	Q	1,229	925	Q	2,893	287	395	20.4
District Heat .....	5,289	5,289	229	Q	973	5,289	Q	314	730	14.8
Propane .....	1,545	1,545	Q	847	520	Q	Q	362	Q	27.0
Other .....	514	514	Q	Q	Q	Q	Q	Q	Q	39.6
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating .....	54,347	54,347	5,843	14,923	16,809	5,911	16,754	16,893	6,249	5.8
Buildings with Cooling .....	49,935	49,090	5,813	12,967	14,831	5,286	15,050	16,643	5,899	5.9
Buildings with Water Heating .....	51,560	50,796	5,639	13,445	15,547	5,662	16,617	16,027	5,952	5.8
Buildings with Cooking .....	20,713	20,338	2,290	3,651	6,013	2,124	9,429	7,204	3,526	7.3
Buildings with Manufacturing .....	3,893	3,689	446	999	1,385	Q	981	1,320	623	16.3
Buildings with Electricity Generation .....	13,366	13,165	1,580	1,894	4,296	2,489	6,503	4,021	3,388	8.7
<b>Percent of Floorspace Heated</b>										
Not Heated .....	4,425	--	--	--	--	--	--	--	--	20.7
1 to 50 .....	6,227	6,227	464	2,375	2,381	Q	694	2,191	563	17.3
51 to 99 .....	8,868	8,868	1,083	2,535	3,013	805	2,603	2,823	1,345	13.3
100 .....	39,252	39,252	4,296	10,013	11,415	5,026	13,456	11,879	4,341	6.3
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	5,843	5,843	5,843	950	1,812	275	1,386	1,557	680	11.8
Furnaces .....	14,923	14,923	950	14,923	4,856	Q	1,599	3,137	841	10.0
Individual Space Heaters .....	16,809	16,809	1,812	4,856	16,809	1,068	4,657	5,044	2,432	9.8
District Heat .....	5,911	5,911	275	Q	1,068	5,911	Q	434	881	14.3
Boilers .....	16,754	16,754	1,386	1,599	4,657	Q	16,754	3,242	2,394	8.6
Packaged Heating Units .....	16,893	16,893	1,557	3,137	5,044	434	3,242	16,893	1,466	8.8
Other .....	6,249	6,249	680	841	2,432	881	2,394	1,466	6,249	13.7

See footnotes at end of table.



**Table 34. Heating Equipment, Floorspace, 1995 (Continued)**  
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Heated Buildings	Heating Equipment (more than one may apply)							RSE Row Factor
			Heat Pumps	Furnaces	Individual Space Heaters	District Heat	Boilers	Packaged Heating Units	Other	
RSE Column Factor:	0.6	0.6	1.3	1.1	1.0	1.5	0.9	0.9	1.5	
<b>Cooling Equipment (more than one may apply)</b>										
Residential-Type Central Air Conditioners .....	9,238	8,975	698	5,320	2,884	543	2,305	1,995	1,076	10.6
Heat Pumps .....	6,931	6,888	5,302	1,387	2,183	481	1,523	2,088	805	11.8
Individual Air Conditioners .....	12,494	12,294	1,320	3,400	5,440	1,161	5,612	2,731	1,533	9.2
District Chilled Water .....	2,521	2,479	Q	Q	369	2,192	215	162	385	19.8
Central Chillers .....	11,065	10,857	1,036	737	3,305	2,181	7,049	2,280	3,381	11.0
Packaged Air Conditioning Units .....	26,628	26,297	2,179	6,629	8,689	2,013	7,569	14,953	3,311	7.6
Swamp Coolers .....	2,451	2,443	379	720	897	Q	790	1,053	273	22.5
Other .....	949	949	Q	216	359	Q	552	274	234	29.2
<b>Energy-Related Space Functions (more than one may apply)</b>										
Commercial Food Preparation ....	20,713	20,338	2,290	3,651	6,013	2,124	9,429	7,204	3,526	7.3
Computer Room .....	12,890	12,731	1,552	1,881	4,347	2,558	5,711	4,105	2,836	8.2
Activities with Large Amounts of Hot Water .....	6,753	6,658	992	1,189	2,182	953	3,213	2,159	938	12.1
<b>Building Shell Conservation Features (more than one may apply)</b>										
Roof or Ceiling Insulation .....	46,355	44,941	5,090	11,807	13,663	5,046	14,018	14,952	5,595	6.3
Wall Insulation .....	31,694	31,112	4,112	8,793	9,652	3,054	8,874	10,663	4,081	7.2
Storm or Multiple Glazing .....	28,876	28,454	3,501	7,911	8,659	3,163	9,982	8,534	3,767	6.7
Tinted, Reflective or Shading Glass .....	24,245	23,686	3,009	5,046	6,684	2,988	7,646	8,722	3,788	6.9
Exterior or Interior Shading or Awnings .....	37,208	36,667	4,686	8,400	10,575	4,358	12,888	11,773	4,564	6.3
<b>HVAC Conservation Features (more than one may apply)</b>										
Variable Air-Volume System .....	13,473	13,250	1,216	1,496	4,071	2,911	5,757	3,942	3,219	9.3
Economizer Cycle .....	16,550	16,484	1,753	2,539	5,276	2,971	7,153	5,910	3,460	8.1
HVAC Maintenance .....	43,134	43,036	5,074	10,051	12,392	5,581	15,279	14,195	5,615	6.3
Other Energy Efficient Equipment .....	6,453	6,408	818	1,128	2,161	1,127	2,689	2,001	1,375	10.5
<b>Off-Hour Equipment Reduction (more than one may apply)</b>										
Heating .....	38,326	38,326	3,544	11,429	11,642	2,890	11,213	11,739	4,135	6.9
Cooling .....	35,605	34,890	3,608	9,871	10,422	2,684	10,137	11,643	3,906	7.0
Lighting .....	44,937	42,747	4,348	12,420	12,996	3,456	12,354	13,279	4,444	6.7

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 35. Cooling Equipment, Number of Buildings, 1995**  
(Thousand)

Building Characteristics	All Buildings	All Cooled Buildings	Cooling Equipment (more than one may apply)								RSE Row Factor
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other	
RSE Column Factor:	0.5	0.5	1.0	1.1	0.9	1.9	0.9	0.7	1.9	2.0	
<b>All Buildings</b> .....	4,579	3,381	878	457	862	53	109	1,431	186	18	9.3
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	2,399	1,650	453	235	467	Q	Q	569	97	Q	12.2
5,001 to 10,000 .....	1,035	754	236	77	171	Q	Q	345	41	Q	17.7
10,001 to 25,000 .....	745	619	133	96	134	Q	14	310	34	Q	15.5
25,001 to 50,000 .....	213	187	35	23	47	7	29	108	6	Q	13.1
50,001 to 100,000 .....	115	103	14	17	25	5	23	62	4	Q	12.9
100,001 to 200,000 .....	48	44	5	5	11	5	15	25	2	Q	14.2
200,001 to 500,000 .....	19	18	3	3	6	2	9	10	1	Q	13.4
Over 500,000 .....	6	6	1	1	1	1	3	4	Q	Q	17.0
<b>Principal Building Activity</b>											
Education .....	309	249	35	23	95	26	19	104	Q	Q	23.9
Food Sales .....	137	128	38	Q	Q	Q	Q	62	Q	Q	31.7
Food Service .....	285	272	80	Q	65	Q	Q	137	Q	Q	22.4
Health Care .....	105	105	32	19	38	2	9	36	Q	Q	30.4
Lodging .....	158	126	26	26	75	Q	12	25	7	Q	27.7
Mercantile and Service .....	1,289	916	238	79	230	Q	7	400	60	Q	16.8
Office .....	705	690	201	159	81	5	29	312	Q	3	15.8
Public Assembly .....	326	246	61	33	81	Q	16	97	Q	Q	29.0
Public Order and Safety .....	87	38	6	Q	20	Q	5	13	Q	Q	34.6
Religious Worship .....	269	223	82	31	44	Q	Q	83	Q	Q	30.2
Warehouse and Storage .....	580	262	73	39	83	Q	2	102	Q	Q	30.7
Other .....	67	53	Q	Q	Q	Q	2	26	Q	Q	56.9
Vacant .....	261	73	Q	Q	24	Q	Q	36	Q	Q	40.2
<b>Year Constructed</b>											
1919 or Before .....	353	260	74	Q	135	Q	4	67	Q	Q	28.3
1920 to 1945 .....	562	382	95	33	148	Q	7	140	11	Q	23.1
1946 to 1959 .....	867	617	182	79	220	5	15	191	48	Q	17.3
1960 to 1969 .....	718	508	110	38	145	10	34	224	32	Q	19.6
1970 to 1979 .....	813	688	154	121	110	Q	18	376	27	Q	14.6
1980 to 1989 .....	846	657	225	116	70	7	23	294	51	2	19.7
1990 to 1992 .....	218	161	19	50	Q	Q	4	80	Q	Q	31.6
1993 to 1995 .....	202	108	19	15	Q	Q	4	59	Q	Q	39.7
<b>Census Region</b>											
Northeast .....	725	451	120	16	166	3	16	196	Q	Q	18.5
Midwest .....	1,139	811	313	43	274	Q	26	267	Q	4	18.4
South .....	1,750	1,433	348	311	311	24	37	599	Q	7	13.6
West .....	964	687	98	87	110	10	31	369	144	4	20.7
<b>Climate Zone: 45-Year Average</b>											
Fewer than 2,000 CDD and --											
More than 7,000 HDD .....	493	321	121	4	105	Q	8	112	Q	Q	33.7
5,500 to 7,000 HDD .....	975	656	229	18	183	8	24	276	Q	5	17.1
4,000 to 5,499 HDD .....	1,070	714	188	134	238	16	24	239	Q	7	23.0
Fewer than 4,000 HDD .....	1,103	887	133	193	152	6	25	452	79	Q	20.7
More than 2,000 CDD and --											
Fewer than 4,000 HDD .....	937	803	207	108	183	Q	28	353	61	Q	21.5

See footnotes at end of table.

**Table 35. Cooling Equipment, Number of Buildings, 1995 (Continued)**  
(Thousand)

Building Characteristics	All Buildings	All Cooled Buildings	Cooling Equipment (more than one may apply)								RSE Row Factor
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other	
RSE Column Factor:	0.5	0.5	1.0	1.1	0.9	1.9	0.9	0.7	1.9	2.0	
<b>Workers (main shift)</b>											
Fewer than 5 .....	2,505	1,542	454	187	494	Q	Q	457	95	Q	13.0
5 to 9 .....	798	691	160	81	147	Q	Q	332	25	Q	18.8
10 to 19 .....	625	549	149	82	110	Q	8	297	37	Q	18.4
20 to 49 .....	400	361	74	71	66	8	23	202	19	Q	18.3
50 to 99 .....	138	129	22	17	24	8	18	84	4	Q	16.9
100 to 249 .....	71	69	10	14	15	3	21	39	4	Q	14.9
250 or More .....	43	41	Q	5	6	5	17	20	2	2	16.7
<b>Weekly Operating Hours</b>											
39 or Fewer .....	899	399	109	55	111	Q	Q	127	Q	Q	22.2
40 to 48 .....	1,257	1,047	281	180	224	Q	22	443	43	Q	15.3
49 to 60 .....	969	795	178	87	238	11	19	331	47	9	17.1
61 to 84 .....	567	446	127	51	102	8	18	181	48	Q	18.8
85 to 167 .....	420	344	99	25	72	7	10	196	Q	Q	21.0
Open Continuously .....	466	350	83	59	115	Q	30	152	14	2	19.1
<b>Multibuilding Facility</b>											
Part of Multibuilding Facility .....	1,480	1,020	206	216	285	50	65	383	39	4	14.7
Not on Multibuilding Facility .....	3,099	2,361	672	241	576	3	44	1,049	146	14	10.9
<b>Predominant Exterior Wall Material</b>											
Masonry .....	3,061	2,429	609	328	579	42	89	1,108	136	15	10.1
Siding or Shingles .....	639	448	130	53	210	Q	Q	93	Q	Q	25.2
Metal Panels .....	662	322	98	53	49	Q	1	130	Q	Q	24.7
Concrete Panels .....	106	91	19	15	11	3	8	52	5	Q	30.1
Window Glass .....	46	45	3	2	2	Q	4	39	Q	Q	40.1
Other .....	50	32	Q	Q	Q	Q	Q	7	Q	Q	68.5
No One Major Type .....	15	14	Q	Q	Q	Q	Q	Q	Q	Q	97.9
<b>Predominant Roof Material</b>											
Built-Up .....	1,369	1,113	220	122	220	25	52	618	74	6	14.4
Shingles (Not Wood) .....	1,486	1,149	362	184	398	Q	14	311	52	Q	16.4
Metal Surfacing .....	908	508	152	84	86	Q	5	225	37	Q	21.3
Synthetic or Rubber .....	351	296	55	42	65	9	31	152	3	8	19.9
Slate or Tile .....	202	143	31	Q	48	Q	4	61	Q	Q	34.1
Wooden Materials .....	152	106	41	Q	Q	Q	Q	28	Q	Q	44.4
Concrete .....	58	39	Q	Q	12	Q	2	22	Q	Q	54.7
Other .....	36	Q	Q	Q	Q	Q	Q	Q	Q	Q	79.9
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	100.0
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	4,343	3,376	877	457	857	53	109	1,430	185	18	9.3
Natural Gas .....	2,478	2,131	625	141	521	17	81	1,011	140	14	10.9
Fuel Oil .....	607	388	90	55	160	Q	38	120	6	4	21.5
District Heat .....	110	95	8	2	23	47	15	27	Q	Q	30.8
District Chilled Water .....	53	53	Q	1	Q	53	Q	5	Q	Q	35.2
Propane .....	589	431	142	30	132	Q	5	149	Q	Q	24.6
Other .....	213	107	36	Q	48	Q	5	27	Q	Q	38.5

See footnotes at end of table.

**Table 35. Cooling Equipment, Number of Buildings, 1995 (Continued)**  
(Thousand)

Building Characteristics	All Buildings	All Cooled Buildings	Cooling Equipment (more than one may apply)								RSE Row Factor
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other	
RSE Column Factor:	0.5	0.5	1.0	1.1	0.9	1.9	0.9	0.7	1.9	2.0	
<b>Cooling Energy Sources (more than one may apply)</b>											
Electricity .....	3,293	3,293	861	457	857	21	106	1,396	185	18	9.4
Natural Gas .....	65	65	20	Q	Q	Q	5	42	Q	Q	43.5
District Chilled Water .....	53	53	Q	1	Q	53	Q	5	Q	Q	35.2
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating ....	4,024	3,326	862	457	848	52	108	1,404	182	18	9.5
Buildings with Cooling .....	3,381	3,381	878	457	862	53	109	1,431	186	18	9.3
Buildings with Water Heating .....	3,486	2,968	795	403	732	49	108	1,273	170	17	9.7
Buildings with Cooking .....	828	724	171	84	213	10	44	357	57	5	12.9
Buildings with Manufacturing .....	204	165	33	27	58	Q	3	49	Q	Q	31.3
Buildings with Electricity Generation .....	247	206	51	25	50	7	39	108	Q	3	18.8
<b>Percent of Floorspace Cooled</b>											
Not Cooled .....	1,198	--	--	--	--	--	--	--	--	--	19.8
1 to 50 .....	930	930	222	80	394	Q	8	300	37	Q	17.2
51 to 99 .....	635	635	182	85	182	10	34	292	37	7	17.3
100 .....	1,816	1,816	474	292	286	40	67	839	112	7	11.6
<b>Heating Equipment (more than one may apply)</b>											
Heat Pumps .....	394	393	30	384	43	Q	8	44	4	Q	20.6
Furnaces .....	1,676	1,330	640	75	326	Q	9	432	91	4	15.8
Individual Space Heaters .....	1,188	882	170	96	385	3	28	351	70	9	17.5
District Heat .....	115	99	8	3	25	48	15	28	Q	Q	30.2
Boilers .....	610	470	116	31	188	3	77	174	9	9	17.9
Packaged Heating Units .....	1,031	1,015	114	96	91	3	18	877	57	4	16.5
Other .....	161	119	25	18	50	2	18	48	4	4	26.9
<b>Cooling Equipment (more than one may apply)</b>											
Residential-Type Central Air Conditioners .....	878	878	878	36	101	Q	11	111	25	Q	18.3
Heat Pumps .....	457	457	36	457	47	1	7	76	6	Q	20.7
Individual Air Conditioners .....	862	862	101	47	862	Q	21	118	19	3	16.1
District Chilled Water .....	53	53	Q	1	Q	53	Q	5	Q	Q	35.2
Central Chillers .....	109	109	11	7	21	Q	109	34	4	2	16.8
Packaged Air Conditioning Units .....	1,431	1,431	111	76	118	5	34	1,431	55	5	13.7
Swamp Coolers .....	186	186	25	6	19	Q	4	55	186	Q	33.4
Other .....	18	18	Q	Q	3	Q	2	5	Q	18	31.1
<b>Energy-Related Space Functions (more than one may apply)</b>											
Commercial Food Preparation ...	828	724	171	84	213	10	44	357	57	5	12.9
Computer Room .....	234	234	43	21	58	Q	37	139	Q	4	18.5
Activities with Large Amounts of Hot Water .....	243	200	50	30	77	2	13	72	24	Q	23.8

See footnotes at end of table.

**Table 35. Cooling Equipment, Number of Buildings, 1995 (Continued)**  
(Thousand)

Building Characteristics	All Buildings	All Cooled Buildings	Cooling Equipment (more than one may apply)								RSE Row Factor
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other	
RSE Column Factor:	0.5	0.5	1.0	1.1	0.9	1.9	0.9	0.7	1.9	2.0	
<b>Building Shell Conservation Features (more than one may apply)</b>											
Roof or Ceiling Insulation .....	3,380	2,805	781	416	642	46	96	1,186	154	13	9.4
Wall Insulation .....	2,372	2,057	575	356	413	32	57	881	83	9	10.9
Storm or Multiple Glazing .....	1,897	1,619	510	230	387	24	62	666	58	11	12.4
Tinted, Reflective or Shading Glass .....	1,202	1,104	342	156	135	27	56	573	74	8	14.0
Exterior or Interior Shading or Awnings .....	2,271	2,049	517	348	506	32	89	863	106	14	11.5
<b>HVAC Conservation Features (more than one may apply)</b>											
Variable Air-Volume System .....	327	315	57	30	43	30	42	177	18	4	20.8
Economizer Cycle .....	461	461	73	58	48	15	52	300	51	4	16.6
HVAC Maintenance .....	2,403	2,103	548	323	468	47	103	975	104	15	11.0
Other Energy Efficient Equipment .....	198	163	30	25	28	5	14	87	Q	2	24.6
<b>Off-Hour Equipment Reduction (more than one may apply)</b>											
Heating .....	3,211	2,630	708	330	648	38	66	1,122	153	13	10.8
Cooling .....	2,707	2,707	720	330	690	38	68	1,152	154	13	10.5
Lighting .....	3,753	2,964	790	392	726	41	79	1,244	165	12	9.8

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 36. Cooling Equipment, Floorspace, 1995**  
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Cooled Buildings	Cooling Equipment (more than one may apply)								RSE Row Factor
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other	
RSE Column Factor:	0.5	0.5	1.0	1.0	0.9	1.5	0.9	0.7	2.1	2.3	
<b>All Buildings</b> .....	58,772	49,935	9,238	6,931	12,494	2,521	11,065	26,628	2,451	949	6.8
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	6,338	4,376	1,133	652	1,209	Q	Q	1,603	269	Q	11.9
5,001 to 10,000 .....	7,530	5,531	1,732	559	1,277	Q	Q	2,484	322	Q	17.9
10,001 to 25,000 .....	11,617	9,712	1,970	1,523	2,194	239	264	4,932	491	Q	16.3
25,001 to 50,000 .....	7,676	6,760	1,224	826	1,664	275	1,107	3,928	220	Q	13.4
50,001 to 100,000 .....	7,968	7,178	970	1,186	1,690	348	1,666	4,296	317	Q	13.0
100,001 to 200,000 .....	6,776	6,175	707	730	1,617	587	2,080	3,539	312	Q	14.7
200,001 to 500,000 .....	5,553	5,235	824	788	1,639	557	2,687	2,936	290	Q	13.7
Over 500,000 .....	5,313	4,968	677	666	1,205	432	3,124	2,911	Q	Q	17.3
<b>Principal Building Activity</b>											
Education .....	7,740	6,741	865	615	2,869	653	1,715	2,942	222	Q	16.2
Food Sales .....	642	612	173	Q	Q	Q	Q	362	Q	Q	29.0
Food Service .....	1,353	1,310	381	Q	247	Q	Q	815	Q	Q	24.4
Health Care .....	2,333	2,323	579	327	749	403	1,370	1,291	Q	Q	15.0
Lodging .....	3,618	3,193	473	827	1,629	Q	873	1,348	354	Q	20.3
Mercantile and Service .....	12,728	11,086	1,835	1,164	1,761	Q	1,389	6,762	523	Q	15.5
Office .....	10,478	10,360	1,663	2,229	1,179	568	3,683	5,847	257	301	12.3
Public Assembly .....	3,948	3,394	552	426	764	372	872	1,669	Q	Q	19.2
Public Order and Safety .....	1,271	856	193	Q	383	Q	287	420	Q	Q	34.6
Religious Worship .....	2,792	2,414	800	356	576	Q	Q	971	Q	Q	25.1
Warehouse and Storage .....	8,481	5,991	1,561	623	1,835	Q	247	3,445	Q	Q	21.6
Other .....	1,004	921	Q	Q	Q	Q	281	414	Q	Q	40.8
Vacant .....	2,384	732	Q	Q	192	Q	Q	342	Q	Q	30.2
<b>Year Constructed</b>											
1919 or Before .....	3,673	2,818	729	Q	1,389	Q	292	1,026	Q	Q	22.7
1920 to 1945 .....	6,710	5,038	766	512	2,122	187	740	2,408	196	Q	18.9
1946 to 1959 .....	9,298	7,549	1,716	1,085	2,713	322	1,433	3,509	413	Q	16.0
1960 to 1969 .....	10,858	8,978	1,423	798	2,732	527	2,603	5,202	423	Q	12.8
1970 to 1979 .....	11,333	10,389	1,851	1,521	1,847	674	2,846	6,087	432	Q	11.5
1980 to 1989 .....	12,252	11,174	2,208	2,131	1,384	400	2,343	6,104	689	178	13.5
1990 to 1992 .....	2,590	2,345	325	506	156	Q	467	1,335	Q	Q	22.4
1993 to 1995 .....	2,059	1,644	219	241	Q	Q	342	957	Q	Q	22.7
<b>Census Region</b>											
Northeast .....	11,883	9,523	1,702	794	3,725	291	2,502	5,368	Q	Q	13.6
Midwest .....	14,322	12,033	2,734	912	3,551	778	2,553	5,917	Q	221	13.8
South .....	20,830	18,606	3,726	3,616	3,698	919	3,736	9,737	517	219	11.6
West .....	11,736	9,772	1,075	1,609	1,520	533	2,273	5,606	1,743	289	13.7
<b>Climate Zone: 45-Year Average</b>											
Fewer than 2,000 CDD and --											
More than 7,000 HDD .....	5,098	4,115	933	298	1,361	Q	643	2,117	Q	Q	24.0
5,500 to 7,000 HDD .....	14,597	11,903	2,265	655	3,585	624	2,922	6,153	412	360	12.9
4,000 to 5,499 HDD .....	15,155	12,620	2,554	2,204	3,844	632	3,181	6,616	157	283	14.1
Fewer than 4,000 HDD .....	13,491	11,981	1,533	2,352	2,029	432	2,581	6,939	893	Q	15.9
More than 2,000 CDD and --											
Fewer than 4,000 HDD .....	10,430	9,315	1,952	1,421	1,675	726	1,737	4,804	847	Q	16.7

See footnotes at end of table.

**Table 36. Cooling Equipment, Floorspace, 1995 (Continued)**  
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Cooled Buildings	Cooling Equipment (more than one may apply)								RSE Row Factor
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other	
RSE Column Factor:	0.5	0.5	1.0	1.0	0.9	1.5	0.9	0.7	2.1	2.3	
<b>Workers (main shift)</b>											
Fewer than 5 .....	13,885	8,324	2,076	980	2,628	Q	280	2,807	523	Q	15.5
5 to 9 .....	6,291	5,260	1,123	529	1,109	Q	Q	2,808	161	Q	18.5
10 to 19 .....	7,102	6,449	1,488	860	1,580	Q	298	3,458	394	Q	15.9
20 to 49 .....	9,132	8,302	1,575	1,271	1,988	250	1,075	4,720	352	Q	14.2
50 to 99 .....	6,931	6,379	917	879	1,643	366	1,505	4,239	248	Q	14.5
100 to 249 .....	5,988	5,872	707	1,065	1,535	356	2,054	3,360	424	Q	13.4
250 or More .....	9,443	9,349	1,351	1,347	2,011	1,172	5,684	5,237	350	405	11.9
<b>Weekly Operating Hours</b>											
39 or Fewer .....	6,134	2,845	761	270	683	Q	276	1,000	Q	Q	21.2
40 to 48 .....	13,233	11,401	2,294	1,782	2,578	350	1,349	5,760	501	Q	15.0
49 to 60 .....	12,242	10,897	1,916	1,392	2,781	409	1,969	5,679	488	299	12.8
61 to 84 .....	10,052	9,212	1,460	1,291	1,868	381	2,399	5,127	374	Q	14.4
85 to 167 .....	6,202	5,644	819	442	1,157	395	1,199	3,644	259	Q	16.6
Open Continuously .....	10,908	9,936	1,988	1,754	3,427	919	3,873	5,418	655	285	11.3
<b>Multibuilding Facility</b>											
Part of Multibuilding Facility .....	24,352	20,116	3,398	3,352	5,190	2,202	5,717	9,482	831	381	8.3
Not on Multibuilding Facility .....	34,420	29,819	5,840	3,578	7,303	319	5,348	17,147	1,620	568	9.1
<b>Predominant Exterior Wall Material</b>											
Masonry .....	42,958	37,394	6,776	5,165	9,601	1,944	8,151	20,258	1,775	736	7.6
Siding or Shingles .....	3,243	2,369	665	406	1,022	Q	Q	661	Q	Q	27.6
Metal Panels .....	5,694	3,713	943	506	869	Q	345	1,814	Q	Q	19.3
Concrete Panels .....	4,069	3,790	542	412	576	302	1,201	2,438	269	Q	18.5
Window Glass .....	1,755	1,730	192	324	280	Q	887	998	Q	Q	25.3
Other .....	660	578	Q	Q	Q	Q	304	289	Q	Q	27.9
No One Major Type .....	393	362	Q	Q	Q	Q	Q	Q	Q	Q	63.8
<b>Predominant Roof Material</b>											
Built-Up .....	24,481	21,744	3,013	2,895	4,478	1,320	5,412	13,354	1,182	493	10.2
Shingles (Not Wood) .....	11,093	9,125	2,526	1,277	2,877	Q	966	3,499	420	Q	13.5
Metal Surfacing .....	7,941	5,564	1,318	1,044	1,236	Q	287	2,880	341	Q	16.7
Synthetic or Rubber .....	10,235	9,662	1,461	1,254	2,799	682	3,645	5,225	298	312	12.5
Slate or Tile .....	1,920	1,499	279	196	539	Q	166	727	Q	Q	22.9
Wooden Materials .....	1,130	730	349	Q	Q	Q	Q	264	Q	Q	45.8
Concrete .....	1,335	1,065	Q	Q	328	Q	440	355	Q	Q	38.4
Other .....	332	272	Q	Q	Q	Q	Q	Q	Q	Q	49.1
No One Major Type .....	305	273	Q	Q	Q	Q	Q	195	Q	Q	57.0
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	57,076	49,785	9,209	6,918	12,390	2,517	11,057	26,534	2,440	949	6.8
Natural Gas .....	38,145	35,100	6,959	3,637	9,210	1,287	8,312	20,121	1,884	760	8.3
Fuel Oil .....	14,421	12,904	1,871	1,999	3,992	1,076	6,205	6,628	563	400	11.1
District Heat .....	5,658	5,128	543	448	1,144	2,140	2,137	1,906	Q	Q	16.7
District Chilled Water .....	2,521	2,521	169	175	298	2,521	Q	649	Q	Q	21.1
Propane .....	5,344	4,520	1,101	566	1,253	Q	448	2,378	Q	Q	22.0
Other .....	2,336	1,943	337	Q	758	Q	438	997	Q	Q	27.3

See footnotes at end of table.

**Table 36. Cooling Equipment, Floorspace, 1995 (Continued)**  
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Cooled Buildings	Cooling Equipment (more than one may apply)								RSE Row Factor
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other	
RSE Column Factor:	0.5	0.5	1.0	1.0	0.9	1.5	0.9	0.7	2.1	2.3	
<b>Cooling Energy Sources (more than one may apply)</b>											
Electricity .....	47,761	47,761	9,036	6,918	12,328	1,274	10,729	25,949	2,431	919	6.9
Natural Gas .....	1,314	1,314	232	Q	215	Q	509	892	Q	Q	27.2
District Chilled Water .....	2,521	2,521	169	175	298	2,521	Q	649	Q	Q	21.1
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating ....	54,347	49,090	8,975	6,888	12,294	2,479	10,857	26,297	2,443	949	6.9
Buildings with Cooling .....	49,935	49,935	9,238	6,931	12,494	2,521	11,065	26,628	2,451	949	6.8
Buildings with Water Heating .....	51,560	47,249	8,697	6,663	11,804	2,442	10,977	25,476	2,258	928	6.9
Buildings with Cooking .....	20,713	19,465	3,265	2,779	5,828	982	6,960	11,428	1,056	380	8.5
Buildings with Manufacturing .....	3,893	3,587	675	521	964	Q	568	1,749	Q	Q	22.4
Buildings with Electricity Generation .....	13,366	12,986	1,877	1,890	3,103	1,171	6,720	7,514	656	356	10.5
<b>Percent of Floorspace Cooled</b>											
Not Cooled .....	8,837	--	--	--	--	--	--	--	--	--	17.2
1 to 50 .....	15,027	15,027	3,249	1,330	6,395	Q	969	7,235	597	Q	13.4
51 to 99 .....	12,549	12,549	2,015	2,068	2,965	705	4,956	7,335	595	325	11.2
100 .....	22,359	22,359	3,974	3,533	3,133	1,645	5,140	12,059	1,260	417	8.7
<b>Heating Equipment (more than one may apply)</b>											
Heat Pumps .....	5,843	5,813	698	5,302	1,320	Q	1,036	2,179	379	Q	12.9
Furnaces .....	14,923	12,967	5,320	1,387	3,400	Q	737	6,629	720	216	13.2
Individual Space Heaters .....	16,809	14,831	2,884	2,183	5,440	369	3,305	8,689	897	359	12.9
District Heat .....	5,911	5,286	543	481	1,161	2,192	2,181	2,013	Q	Q	16.7
Boilers .....	16,754	15,050	2,305	1,523	5,612	215	7,049	7,569	790	552	10.9
Packaged Heating Units .....	16,893	16,643	1,995	2,088	2,731	162	2,280	14,953	1,053	274	12.0
Other .....	6,249	5,899	1,076	805	1,533	385	3,381	3,311	273	234	15.4
<b>Cooling Equipment (more than one may apply)</b>											
Residential-Type Central Air Conditioners .....	9,238	9,238	9,238	917	2,424	169	1,432	2,885	356	Q	12.2
Heat Pumps .....	6,931	6,931	917	6,931	1,519	175	1,179	2,857	508	Q	12.8
Individual Air Conditioners .....	12,494	12,494	2,424	1,519	12,494	298	2,398	4,976	417	188	11.3
District Chilled Water .....	2,521	2,521	169	175	298	2,521	Q	649	Q	Q	21.1
Central Chillers .....	11,065	11,065	1,432	1,179	2,398	Q	11,065	4,796	530	291	11.6
Packaged Air Conditioning Units .....	26,628	26,628	2,885	2,857	4,976	649	4,796	26,628	1,303	316	9.5
Swamp Coolers .....	2,451	2,451	356	508	417	Q	530	1,303	2,451	Q	24.8
Other .....	949	949	Q	Q	188	Q	291	316	Q	949	25.9
<b>Energy-Related Space Functions (more than one may apply)</b>											
Commercial Food Preparation ...	20,713	19,465	3,265	2,779	5,828	982	6,960	11,428	1,056	380	8.5
Computer Room .....	12,890	12,890	1,997	1,927	3,812	1,226	5,715	7,906	584	474	9.6
Activities with Large Amounts of Hot Water .....	6,753	6,354	1,008	1,050	2,746	344	2,193	3,146	623	Q	14.4

See footnotes at end of table.



**Table 36. Cooling Equipment, Floorspace, 1995 (Continued)**  
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Cooled Buildings	Cooling Equipment (more than one may apply)								RSE Row Factor
			Residential-Type Central Air Conditioners	Heat Pumps	Individual Air Conditioners	District Chilled Water	Central Chillers	Packaged Air Conditioning Units	Swamp Coolers	Other	
RSE Column Factor:	0.5	0.5	1.0	1.0	0.9	1.5	0.9	0.7	2.1	2.3	
<b>Building Shell Conservation Features (more than one may apply)</b>											
Roof or Ceiling Insulation .....	46,355	42,198	7,989	6,041	9,997	2,215	9,981	22,839	1,978	822	7.5
Wall Insulation .....	31,694	29,545	5,765	4,952	6,533	1,470	6,745	16,015	1,131	673	8.4
Storm or Multiple Glazing .....	28,876	26,701	5,591	4,104	6,304	1,560	6,805	14,393	1,129	596	8.8
Tinted, Reflective or Shading Glass .....	24,245	23,202	4,549	3,684	3,967	1,692	7,290	13,429	1,218	611	8.5
Exterior or Interior Shading or Awnings .....	37,208	34,641	6,119	5,417	8,289	1,991	8,899	18,634	1,742	819	7.5
<b>HVAC Conservation Features (more than one may apply)</b>											
Variable Air-Volume System .....	13,473	13,150	1,832	1,485	2,309	1,534	6,502	7,143	602	535	10.3
Economizer Cycle .....	16,550	16,550	2,319	2,173	3,103	1,340	7,057	10,468	969	518	9.4
HVAC Maintenance .....	43,134	40,151	6,981	5,919	9,581	2,394	10,620	22,272	1,962	883	7.4
Other Energy Efficient Equipment .....	6,453	6,092	951	919	1,501	626	2,406	3,564	301	179	13.4
<b>Off-Hour Equipment Reduction (more than one may apply)</b>											
Heating .....	38,326	34,434	6,403	4,277	7,812	1,454	6,226	18,360	1,569	612	8.3
Cooling .....	35,605	35,605	6,598	4,372	8,204	1,482	6,477	18,870	1,599	602	8.2
Lighting .....	44,937	39,237	7,189	5,115	8,828	1,595	7,092	20,799	1,706	601	7.9

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 37. Refrigeration Equipment, Number of Buildings and Floorspace, 1995**

Building Characteristics	Number of Buildings (thousand)						Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	All Buildings with Refrigeration Equipment	Types of Equipment (more than one may apply)				All Buildings	All Buildings with Refrigeration Equipment	Types of Equipment (more than one may apply)				
			Walk-in	Open Cases or Cabinets	Closed Cases or Cabinets	Type Unspecified			Walk-in	Open Cases or Cabinets	Closed Cases or Cabinets	Type Unspecified	
RSE Column Factor:	0.5	0.8	1.0	1.4	0.9	5.0	0.4	0.6	0.7	1.0	0.7	3.5	
<b>All Buildings</b> .....	4,579	1,000	568	227	799	39	58,772	22,179	16,240	7,931	17,203	482	7.2
<b>Building Floorspace (Square Feet)</b>													
1,001 to 5,000 .....	2,399	512	280	98	420	Q	6,338	1,319	752	249	1,050	Q	12.2
5,001 to 10,000 .....	1,035	165	102	32	127	Q	7,530	1,249	776	255	937	Q	24.0
10,001 to 25,000 .....	745	164	78	44	132	Q	11,617	2,617	1,226	752	2,133	Q	18.7
25,001 to 50,000 .....	213	70	42	20	53	Q	7,676	2,606	1,570	767	1,990	Q	13.8
50,001 to 100,000 .....	115	49	32	16	36	Q	7,968	3,417	2,291	1,150	2,499	Q	12.3
100,001 to 200,000 .....	48	23	19	9	17	Q	6,776	3,265	2,696	1,194	2,402	Q	12.6
200,001 to 500,000 .....	19	13	11	5	10	Q	5,553	3,686	3,219	1,641	2,931	Q	12.4
Over 500,000 .....	6	4	4	2	3	Q	5,313	4,021	3,711	1,923	3,261	Q	15.3
<b>Principal Building Activity</b>													
Education .....	309	97	41	25	78	Q	7,740	4,861	3,357	1,649	3,591	Q	14.8
Food Sales .....	137	136	102	47	125	Q	642	635	508	354	521	Q	20.7
Food Service .....	285	272	194	64	212	Q	1,353	1,318	1,118	309	1,012	Q	18.2
Health Care .....	105	15	7	3	13	Q	2,333	1,653	1,461	661	1,368	Q	19.4
Lodging .....	158	36	21	12	30	Q	3,618	2,091	1,662	692	1,704	Q	22.1
Mercantile and Service .....	1,289	249	124	63	202	Q	12,728	5,230	4,024	2,696	4,431	Q	14.8
Office .....	705	26	11	5	23	Q	10,478	2,699	1,885	1,045	2,168	Q	16.2
Public Assembly .....	326	86	28	4	65	Q	3,948	1,646	894	285	1,390	Q	25.1
Public Order and Safety .....	87	4	3	Q	Q	Q	1,271	206	158	Q	Q	Q	42.7
Religious Worship .....	269	21	Q	Q	13	Q	2,792	288	Q	Q	257	Q	38.0
Warehouse and Storage .....	580	39	27	Q	24	Q	8,481	1,037	807	Q	285	Q	32.5
Other .....	67	7	3	Q	Q	Q	1,004	355	226	Q	239	Q	47.1
Vacant .....	261	Q	Q	Q	Q	Q	2,384	Q	Q	Q	Q	Q	30.3
<b>Year Constructed</b>													
1919 or Before .....	353	79	40	29	52	Q	3,673	1,210	695	485	779	Q	29.3
1920 to 1945 .....	562	119	65	19	102	Q	6,710	1,961	1,264	331	1,669	Q	22.8
1946 to 1959 .....	867	161	78	30	113	Q	9,298	3,270	2,079	1,166	2,530	Q	17.4
1960 to 1969 .....	718	178	78	41	143	Q	10,858	4,463	3,144	1,262	3,459	Q	16.4
1970 to 1979 .....	813	200	115	34	168	Q	11,333	4,728	3,786	1,695	3,705	Q	13.5
1980 to 1989 .....	846	190	132	58	164	Q	12,252	4,676	3,801	2,209	3,594	Q	16.0
1990 to 1992 .....	218	42	38	Q	33	Q	2,590	1,060	819	455	877	Q	25.7
1993 to 1995 .....	202	30	21	4	23	Q	2,059	809	652	328	590	Q	28.6
<b>Census Region</b>													
Northeast .....	725	175	95	31	133	Q	11,883	4,984	3,661	1,856	3,804	Q	15.4
Midwest .....	1,139	242	134	44	187	Q	14,322	5,363	3,920	1,462	4,093	Q	16.1
South .....	1,750	383	216	98	321	Q	20,830	7,937	5,790	3,285	6,270	Q	12.8
West .....	964	200	122	54	159	Q	11,736	3,895	2,869	1,329	3,036	Q	16.6
<b>Workers (main shift)</b>													
Fewer than 5 .....	2,505	455	198	80	367	Q	13,885	1,950	827	329	1,432	Q	17.4
5 to 9 .....	798	145	108	17	122	Q	6,291	1,133	748	117	938	Q	20.4
10 to 19 .....	625	167	109	56	131	Q	7,102	1,889	1,117	653	1,502	Q	20.7
20 to 49 .....	400	137	79	35	106	Q	9,132	3,825	2,192	931	2,866	Q	14.3
50 to 99 .....	138	51	40	22	39	Q	6,931	3,714	3,114	1,628	2,847	Q	13.5
100 to 249 .....	71	25	19	10	19	Q	5,988	3,010	2,571	1,307	2,288	Q	14.6
250 or More .....	43	20	14	8	15	Q	9,443	6,657	5,671	2,968	5,329	Q	13.8

See footnotes at end of table.

**Table 37. Refrigeration Equipment, Number of Buildings and Floorspace, 1995 (Continued)**

Building Characteristics	Number of Buildings (thousand)						Total Floorspace (million square feet)						RSE Row Factor
	All Buildings	All Buildings with Refrigeration Equipment	Types of Equipment (more than one may apply)				All Buildings	All Buildings with Refrigeration Equipment	Types of Equipment (more than one may apply)				
			Walk-in	Open Cases or Cabinets	Closed Cases or Cabinets	Type Unspecified			Walk-in	Open Cases or Cabinets	Closed Cases or Cabinets	Type Unspecified	
RSE Column Factor:	0.5	0.8	1.0	1.4	0.9	5.0	0.4	0.6	0.7	1.0	0.7	3.5	
<b>Weekly Operating Hours</b>													
39 or Fewer .....	899	70	15	Q	48	Q	6,134	718	305	Q	477	Q	26.3
40 to 48 .....	1,257	124	38	18	92	Q	13,233	2,596	1,523	594	1,995	Q	18.4
49 to 60 .....	969	153	75	23	108	Q	12,242	3,533	2,300	1,064	2,715	Q	18.0
61 to 84 .....	567	225	124	54	203	Q	10,052	5,434	4,008	2,429	4,488	Q	16.1
85 to 167 .....	420	297	223	93	236	Q	6,202	3,642	2,864	1,496	2,655	Q	14.1
Open Continuously .....	466	130	92	36	110	Q	10,908	6,255	5,240	2,175	4,874	Q	14.6
<b>Multibuilding Facility</b>													
Part of Multibuilding Facility .....	1,480	214	113	46	175	Q	24,352	9,064	6,782	3,129	7,221	Q	11.8
Not on Multibuilding Facility .....	3,099	786	455	181	624	33	34,420	13,115	9,458	4,802	9,982	344	8.2
<b>Energy Sources (more than one may apply)</b>													
Electricity .....	4,343	996	567	227	795	39	57,076	22,071	16,151	7,918	17,095	482	7.1
Natural Gas .....	2,478	616	365	136	481	21	38,145	16,688	12,467	5,982	12,905	337	8.8
Fuel Oil .....	607	141	59	24	112	Q	14,421	8,420	6,539	3,155	6,408	Q	15.0
District Heat .....	110	23	9	5	20	Q	5,658	2,431	1,836	758	1,953	Q	26.2
District Chilled Water .....	53	Q	4	3	Q	Q	2,521	1,258	830	432	970	Q	27.4
Propane .....	589	175	97	27	144	Q	5,344	2,462	1,738	787	1,896	Q	24.3
Other .....	213	38	14	Q	27	Q	2,336	866	656	336	782	Q	30.5
<b>Energy End Uses (more than one may apply)</b>													
Buildings with Space Heating ....	4,024	961	540	215	768	35	54,347	21,716	15,838	7,799	16,864	446	7.4
Buildings with Cooling .....	3,381	921	540	220	736	31	49,935	21,094	15,651	7,796	16,384	421	7.5
Buildings with Water Heating .....	3,486	942	542	222	756	39	51,560	21,776	15,999	7,870	16,941	462	7.1
Buildings with Cooking .....	828	625	409	165	508	17	20,713	17,895	14,194	7,136	14,403	229	8.3
Buildings with Manufacturing ....	204	49	18	3	46	Q	3,893	1,408	923	360	1,118	Q	30.9
Buildings with Electricity Generation .....	247	73	46	28	56	Q	13,366	8,781	7,261	3,863	6,838	Q	12.3
<b>Energy-Related Space Functions (more than one may apply)</b>													
Commercial Food Preparation ...	828	625	409	165	508	17	20,713	17,895	14,194	7,136	14,403	229	8.3
Computer Room .....	234	68	38	27	56	Q	12,890	7,206	5,816	2,947	5,457	Q	11.8
Activities with Large Amounts of Hot Water .....	243	105	64	38	92	Q	6,753	4,961	4,145	2,085	4,012	Q	17.5

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 38. Water-Heating Equipment, Number of Buildings and Floorspace, 1995**

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	All Buildings with Water Heating	Water Heating Equipment			All Buildings	All Buildings with Water Heating	Water Heating Equipment			
			Centralized System	Distributed System	Combination of Centralized and Distributed Systems			Centralized System	Distributed System	Combination of Centralized and Distributed Systems	
<b>All Buildings</b> .....	4,579	3,486	2,671	742	73	58,772	51,560	31,656	16,495	3,409	5.4
<b>Building Floorspace (Square Feet)</b>											
1,001 to 5,000 .....	2,399	1,689	1,431	255	Q	6,338	4,617	3,889	718	Q	8.0
5,001 to 10,000 .....	1,035	780	589	155	Q	7,530	5,652	4,221	1,160	Q	11.7
10,001 to 25,000 .....	745	644	435	201	8	11,617	10,053	6,712	3,195	145	10.5
25,001 to 50,000 .....	213	195	113	70	12	7,676	7,060	4,039	2,544	477	8.3
50,001 to 100,000 .....	115	110	64	38	8	7,968	7,611	4,404	2,675	532	8.7
100,001 to 200,000 .....	48	45	27	14	3	6,776	6,269	3,813	1,968	488	10.4
200,001 to 500,000 .....	19	18	10	6	2	5,553	5,303	2,924	1,602	777	11.0
Over 500,000 .....	6	6	2	3	1	5,313	4,995	1,652	2,633	710	12.5
<b>Principal Building Activity</b>											
Education .....	309	258	185	62	11	7,740	7,515	5,203	1,424	888	11.6
Food Sales .....	137	125	104	Q	Q	642	599	443	Q	Q	19.0
Food Service .....	285	279	232	43	Q	1,353	1,342	1,058	231	Q	17.1
Health Care .....	105	105	87	17	1	2,333	2,327	1,635	413	279	18.4
Lodging .....	158	158	98	55	5	3,618	3,609	2,497	811	301	15.6
Mercantile and Service .....	1,289	916	707	201	Q	12,728	10,925	5,248	5,411	266	11.4
Office .....	705	678	519	145	15	10,478	10,278	6,076	3,403	799	10.7
Public Assembly .....	326	276	217	50	Q	3,948	3,632	2,547	831	Q	17.0
Public Order and Safety .....	87	69	63	Q	Q	1,271	1,018	833	Q	Q	31.0
Religious Worship .....	269	248	172	66	Q	2,792	2,685	1,482	1,061	Q	17.8
Warehouse and Storage .....	580	251	185	65	Q	8,481	5,845	3,428	2,251	Q	17.7
Other .....	67	43	39	4	Q	1,004	893	625	222	Q	34.1
Vacant .....	261	81	63	11	Q	2,384	892	581	183	Q	24.8
<b>Year Constructed</b>											
1919 or Before .....	353	287	229	56	Q	3,673	3,206	2,418	623	Q	16.6
1920 to 1945 .....	562	429	350	68	Q	6,710	5,349	3,836	1,225	288	14.8
1946 to 1959 .....	867	656	534	109	Q	9,298	8,136	5,468	2,041	628	11.8
1960 to 1969 .....	718	562	417	129	16	10,858	9,722	6,562	2,530	630	10.6
1970 to 1979 .....	813	632	508	109	14	11,333	10,117	6,191	3,229	698	9.5
1980 to 1989 .....	846	667	447	205	14	12,252	11,105	5,202	5,163	740	11.1
1990 to 1992 .....	218	145	99	45	Q	2,590	2,263	1,200	941	Q	17.5
1993 to 1995 .....	202	108	86	20	Q	2,059	1,661	780	744	Q	21.9
<b>Census Region</b>											
Northeast .....	725	602	498	90	13	11,883	10,778	6,906	3,056	815	12.5
Midwest .....	1,139	849	661	174	14	14,322	12,517	7,752	3,787	978	11.1
South .....	1,750	1,250	937	295	18	20,830	17,511	10,135	6,602	775	9.1
West .....	964	785	574	182	28	11,736	10,754	6,863	3,050	841	11.0

See footnotes at end of table.

**Table 38. Water-Heating Equipment, Number of Buildings and Floorspace, 1995 (Continued)**

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	All Buildings with Water Heating	Water Heating Equipment			All Buildings	All Buildings with Water Heating	Water Heating Equipment			
			Centralized System	Distributed System	Combination of Centralized and Distributed Systems			Centralized System	Distributed System	Combination of Centralized and Distributed Systems	
RSE Column Factor:	0.8	0.8	0.9	1.4	2.7	0.6	0.6	0.7	1.0	1.6	
<b>Workers (main shift)</b>											
Fewer than 5 .....	2,505	1,587	1,301	270	Q	13,885	8,772	6,640	1,900	Q	9.5
5 to 9 .....	798	705	559	132	Q	6,291	5,610	4,337	1,137	Q	12.6
10 to 19 .....	625	580	438	127	Q	7,102	6,566	4,583	1,802	Q	11.3
20 to 49 .....	400	377	241	123	13	9,132	8,763	5,061	3,193	508	9.8
50 to 99 .....	138	127	72	46	8	6,931	6,622	3,565	2,400	658	10.3
100 to 249 .....	71	69	39	25	5	5,988	5,903	3,009	2,269	625	10.4
250 or More .....	43	42	21	18	3	9,443	9,324	4,460	3,795	1,069	12.8
<b>Weekly Operating Hours</b>											
39 or Fewer .....	899	466	404	58	Q	6,134	3,290	2,476	634	Q	14.7
40 to 48 .....	1,257	1,035	759	243	32	13,233	11,585	7,429	3,552	604	10.7
49 to 60 .....	969	742	568	165	9	12,242	10,765	6,809	3,408	548	10.1
61 to 84 .....	567	494	387	100	7	10,052	9,535	4,980	4,113	442	11.2
85 to 167 .....	420	375	287	74	14	6,202	5,928	3,314	1,990	624	13.0
Open Continuously .....	466	375	266	100	8	10,908	10,457	6,648	2,798	1,011	9.8
<b>Multibuilding Facility</b>											
Part of Multibuilding Facility .....	1,480	1,036	700	304	32	24,352	21,003	12,483	7,040	1,479	7.8
Not on Multibuilding Facility .....	3,099	2,450	1,971	438	41	34,420	30,557	19,172	9,455	1,929	6.5
<b>Energy Sources (more than one may apply)</b>											
Electricity .....	4,343	3,472	2,660	738	73	57,076	51,363	31,506	16,448	3,409	5.4
Natural Gas .....	2,478	2,201	1,712	434	55	38,145	36,284	22,624	11,064	2,596	6.2
Fuel Oil .....	607	504	408	74	22	14,421	13,959	8,566	3,923	1,471	12.2
District Heat .....	110	96	74	17	5	5,658	5,424	3,775	1,020	629	17.7
District Chilled Water .....	53	49	35	Q	2	2,521	2,442	1,690	540	212	22.1
Propane .....	589	477	354	121	Q	5,344	4,934	2,761	2,002	Q	17.0
Other .....	213	158	146	10	Q	2,336	2,024	1,502	283	Q	23.2
<b>Water-Heating Energy Sources (more than one may apply)</b>											
Electricity .....	1,684	1,684	1,195	469	19	23,056	23,056	10,941	11,036	1,079	8.8
Natural Gas .....	1,577	1,577	1,245	285	47	24,859	24,859	16,401	6,316	2,143	7.5
Fuel Oil .....	120	120	98	Q	Q	2,151	2,151	1,618	293	Q	27.1
District Heat .....	54	54	47	3	4	3,949	3,949	2,963	458	528	20.4
Propane .....	110	110	89	21	Q	1,020	1,020	612	383	Q	27.2
<b>Energy End Uses (more than one may apply)</b>											
Buildings with Space Heating .....	4,024	3,418	2,618	726	73	54,347	50,796	31,230	16,171	3,395	5.5
Buildings with Cooling .....	3,381	2,968	2,210	687	70	49,935	47,249	28,135	15,841	3,274	5.5
Buildings with Water Heating .....	3,486	3,486	2,671	742	73	51,560	51,560	31,656	16,495	3,409	5.5
Buildings with Cooking .....	828	816	581	201	34	20,713	20,632	10,898	7,484	2,251	6.7
Buildings with Manufacturing .....	204	169	116	51	Q	3,893	3,666	1,892	1,559	Q	17.9
Buildings with Electricity Generation .....	247	238	178	43	17	13,366	13,239	7,186	4,370	1,684	11.7

See footnotes at end of table.

**Table 38. Water-Heating Equipment, Number of Buildings and Floorspace, 1995 (Continued)**

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	All Buildings with Water Heating	Water Heating Equipment			All Buildings	All Buildings with Water Heating	Water Heating Equipment			
			Centralized System	Distributed System	Combination of Centralized and Distributed Systems			Centralized System	Distributed System	Combination of Centralized and Distributed Systems	
RSE Column Factor:	0.8	0.8	0.9	1.4	2.7	0.6	0.6	0.7	1.0	1.6	
<b>Energy-Related Space Functions (more than one may apply)</b>											
Commercial Food Preparation ...	828	816	581	201	34	20,713	20,632	10,898	7,484	2,251	6.7
Computer Room .....	234	230	157	55	19	12,890	12,726	7,020	4,028	1,678	10.4
Activities with Large Amounts of Hot Water .....	243	243	156	78	9	6,753	6,753	4,014	1,843	896	14.0

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 39. Lighting Equipment, Number of Buildings, 1995**  
(Thousand)

Building Characteristics	All Buildings	All Lit Buildings	Lighting Equipment Types (more than one may apply)					RSE Row Factor
			Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Halogen	
RSE Column Factor:	0.7	0.7	0.8	0.7	1.4	1.4	1.7	
<b>All Buildings</b> .....	4,579	4,237	2,479	3,885	364	393	302	5.9
<b>Building Floorspace (Square Feet)</b>								
1,001 to 5,000 .....	2,399	2,185	1,205	1,952	101	79	100	9.4
5,001 to 10,000 .....	1,035	948	613	868	75	93	85	12.2
10,001 to 25,000 .....	745	712	431	684	89	107	58	11.5
25,001 to 50,000 .....	213	208	115	200	41	46	23	7.8
50,001 to 100,000 .....	115	113	69	111	30	34	17	8.3
100,001 to 200,000 .....	48	46	29	45	15	20	11	8.7
200,001 to 500,000 .....	19	19	14	18	10	10	6	9.2
Over 500,000 .....	6	6	5	6	3	4	3	10.2
<b>Principal Building Activity</b>								
Education .....	309	308	149	294	33	42	23	14.6
Food Sales .....	137	137	50	137	Q	Q	Q	22.2
Food Service .....	285	285	210	260	50	Q	Q	14.7
Health Care .....	105	105	81	99	27	Q	Q	25.6
Lodging .....	158	158	147	134	32	11	28	16.0
Mercantile and Service .....	1,289	1,268	586	1,202	67	84	79	12.5
Office .....	705	696	416	695	79	73	41	13.1
Public Assembly .....	326	326	237	297	26	31	17	19.4
Public Order and Safety .....	87	87	37	80	4	3	Q	29.6
Religious Worship .....	269	269	247	193	Q	28	27	19.5
Warehouse and Storage .....	580	461	226	376	14	56	28	20.4
Other .....	67	66	35	66	Q	Q	Q	41.3
Vacant .....	261	71	58	52	Q	Q	Q	31.9
<b>Year Constructed</b>								
1919 or Before .....	353	328	250	304	29	28	35	18.1
1920 to 1945 .....	562	487	319	454	28	37	31	15.6
1946 to 1959 .....	867	804	503	726	57	75	60	12.7
1960 to 1969 .....	718	686	394	610	54	72	38	12.5
1970 to 1979 .....	813	799	439	739	72	67	47	11.7
1980 to 1989 .....	846	777	392	734	91	65	67	12.5
1990 to 1992 .....	218	197	110	184	19	18	14	20.1
1993 to 1995 .....	202	159	74	134	14	29	9	28.5
<b>Census Region</b>								
Northeast .....	725	694	390	646	96	102	52	14.0
Midwest .....	1,139	1,038	661	941	94	116	69	13.3
South .....	1,750	1,604	857	1,468	82	101	104	9.4
West .....	964	901	572	831	92	74	76	13.7
<b>Workers (main shift)</b>								
Fewer than 5 .....	2,505	2,168	1,252	1,873	77	115	117	10.2
5 to 9 .....	798	797	524	771	37	57	55	14.5
10 to 19 .....	625	625	323	609	114	83	48	13.2
20 to 49 .....	400	397	232	388	71	76	39	11.0
50 to 99 .....	138	137	76	133	25	28	14	9.9
100 to 249 .....	71	71	41	69	22	21	12	10.2
250 or More .....	43	43	31	43	20	14	17	15.5

See footnotes at end of table.

**Table 39. Lighting Equipment, Number of Buildings, 1995 (Continued)**  
(Thousand)

Building Characteristics	All Buildings	All Lit Buildings	Lighting Equipment Types (more than one may apply)					RSE Row Factor
			Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Halogen	
RSE Column Factor:	0.7	0.7	0.8	0.7	1.4	1.4	1.7	
<b>Weekly Operating Hours</b>								
39 or Fewer .....	899	661	424	506	10	27	25	18.4
40 to 48 .....	1,257	1,246	699	1,188	72	121	78	10.7
49 to 60 .....	969	950	523	890	84	91	61	12.1
61 to 84 .....	567	559	333	533	71	62	45	14.1
85 to 167 .....	420	401	214	392	63	39	39	14.1
Open Continuously .....	466	421	287	376	64	52	54	13.0
<b>Multibuilding Facility</b>								
Part of Multibuilding Facility .....	1,480	1,315	736	1,194	126	107	79	8.8
Not on Multibuilding Facility .....	3,099	2,922	1,744	2,691	238	286	223	7.1
<b>Energy Sources (more than one may apply)</b>								
Electricity .....	4,343	4,237	2,479	3,885	364	393	302	5.8
Natural Gas .....	2,478	2,440	1,500	2,309	247	273	197	6.9
Fuel Oil .....	607	586	341	560	66	75	48	16.2
District Heat .....	110	110	71	109	26	12	7	18.0
District Chilled Water .....	53	53	32	53	12	5	4	26.8
Propane .....	589	584	317	519	58	69	39	18.0
Other .....	213	200	116	183	19	17	Q	27.7
<b>Energy End Uses (more than one may apply)</b>								
Buildings with Space Heating .....	4,024	3,948	2,329	3,699	357	378	293	6.1
Buildings with Cooling .....	3,381	3,346	2,056	3,158	339	335	277	6.0
Buildings with Water Heating .....	3,486	3,431	2,096	3,229	343	373	289	6.5
Buildings with Cooking .....	828	819	582	793	125	111	75	8.2
Buildings with Manufacturing .....	204	198	118	184	22	31	18	24.1
Buildings with Electricity Generation .....	247	246	150	243	54	61	35	15.4
<b>Percent Lit when Open</b>								
Zero .....	36	Q	Q	Q	Q	Q	Q	55.3
1 to 50 .....	666	666	446	569	42	36	37	15.1
51 to 99 .....	745	745	498	699	48	91	66	14.7
100 .....	2,814	2,814	1,529	2,618	275	266	198	7.2
Building Not in Use/ Electricity Not Used .....	318	--	--	--	--	--	--	21.4
<b>Percent Lit when Closed</b>								
Zero .....	1,644	1,620	917	1,397	46	100	39	12.8
1 to 50 .....	2,109	2,109	1,229	2,026	238	228	198	7.3
51 to 100 .....	87	87	46	86	16	13	11	28.3
Never Closed .....	421	421	287	376	64	52	54	12.9
Building Not in Use/ Electricity Not Used .....	318	--	--	--	--	--	--	21.4
<b>Lighting Equipment Types (more than one may apply)</b>								
Incandescent .....	2,479	2,479	2,479	2,150	240	239	222	6.7
Standard Fluorescent .....	3,885	3,885	2,150	3,885	356	379	300	5.9
Compact Fluorescent .....	364	364	240	356	364	93	57	10.9
High-Intensity Discharge .....	393	393	239	379	93	393	98	11.6
Halogen .....	302	302	222	300	57	98	302	13.4
Other .....	30	30	Q	Q	3	3	2	34.4

See footnotes at end of table.



**Table 39. Lighting Equipment, Number of Buildings, 1995 (Continued)**  
(Thousand)

Building Characteristics	All Buildings	All Lit Buildings	Lighting Equipment Types (more than one may apply)					RSE Row Factor
			Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Halogen	
RSE Column Factor:	0.7	0.7	0.8	0.7	1.4	1.4	1.7	
<b>Energy-Related Space Functions (more than one may apply)</b>								
Commercial Food Preparation .....	828	819	582	793	125	111	75	8.2
Computer Room .....	234	234	153	233	50	67	38	13.1
Activities with Large Amounts of Hot Water .....	243	243	155	225	39	49	38	18.1
<b>Lighting Conservation Features (more than one may apply)</b>								
Specular Reflectors .....	749	749	409	714	111	173	90	11.3
Energy-Efficient Ballasts .....	1,363	1,363	706	1,336	212	219	116	8.9
Natural Lighting Control Sensors .....	237	237	158	229	45	74	59	17.3
Occupancy Sensors .....	131	131	73	119	38	56	11	19.2
Time Clock .....	467	467	308	445	78	107	76	14.2
Manual Dimmer Switches .....	501	501	438	468	96	92	88	10.7
Other .....	79	79	43	78	12	22	5	24.0
<b>Off-Hour Equipment Reduction (more than one may apply)</b>								
Heating .....	3,211	3,192	1,886	2,987	253	290	226	7.0
Cooling .....	2,707	2,706	1,674	2,546	248	254	217	7.0
Lighting .....	3,753	3,753	2,160	3,464	289	337	244	6.6

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 40. Lighting Equipment, Floorspace, 1995**  
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Lit Buildings	Lighting Equipment Types (more than one may apply)					RSE Row Factor
			Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Halogen	
			0.9	0.8	1.4	1.2	1.5	
RSE Column Factor:	0.8	0.8	0.9	0.8	1.4	1.2	1.5	RSE Row Factor
<b>All Buildings</b> .....	58,772	56,261	35,715	53,984	14,273	16,259	9,665	4.4
<b>Building Floorspace (Square Feet)</b>								
1,001 to 5,000 .....	6,338	5,785	3,168	5,184	324	233	268	9.6
5,001 to 10,000 .....	7,530	6,898	4,523	6,317	552	704	611	12.5
10,001 to 25,000 .....	11,617	11,136	6,648	10,699	1,359	1,655	872	10.8
25,001 to 50,000 .....	7,676	7,528	4,177	7,237	1,522	1,704	844	8.0
50,001 to 100,000 .....	7,968	7,809	4,718	7,700	2,155	2,420	1,239	8.0
100,001 to 200,000 .....	6,776	6,557	4,169	6,383	2,196	2,911	1,553	8.9
200,001 to 500,000 .....	5,553	5,504	4,135	5,432	2,962	3,094	1,875	9.3
Over 500,000 .....	5,313	5,043	4,177	5,031	3,203	3,537	2,403	10.5
<b>Principal Building Activity</b>								
Education .....	7,740	7,672	4,727	7,609	1,896	3,112	1,174	9.8
Food Sales .....	642	642	292	642	Q	Q	Q	17.4
Food Service .....	1,353	1,353	1,034	1,292	368	Q	Q	16.6
Health Care .....	2,333	2,333	1,852	2,317	1,387	756	791	10.5
Lodging .....	3,618	3,601	3,293	3,415	1,529	1,027	953	12.5
Mercantile and Service .....	12,728	12,621	6,693	12,384	2,500	2,955	2,037	10.5
Office .....	10,478	10,451	6,800	10,418	4,143	2,761	2,289	7.3
Public Assembly .....	3,948	3,927	3,071	3,694	1,009	1,339	701	12.1
Public Order and Safety .....	1,271	1,271	697	1,131	299	224	Q	24.6
Religious Worship .....	2,792	2,792	2,576	2,358	212	319	334	15.6
Warehouse and Storage .....	8,481	7,894	3,575	7,078	581	2,925	855	14.1
Other .....	1,004	988	654	982	175	455	Q	26.8
Vacant .....	2,384	715	452	665	Q	Q	Q	21.5
<b>Year Constructed</b>								
1919 or Before .....	3,673	3,469	2,807	3,278	540	597	434	14.2
1920 to 1945 .....	6,710	6,024	4,191	5,786	1,437	1,615	727	12.1
1946 to 1959 .....	9,298	8,897	5,880	8,502	1,571	2,334	1,267	11.0
1960 to 1969 .....	10,858	10,555	6,604	9,846	2,505	2,942	1,521	8.8
1970 to 1979 .....	11,333	11,120	6,739	10,870	3,403	3,473	2,362	7.2
1980 to 1989 .....	12,252	11,769	7,077	11,481	3,403	3,538	2,475	8.3
1990 to 1992 .....	2,590	2,529	1,339	2,432	777	943	479	11.2
1993 to 1995 .....	2,059	1,898	1,079	1,789	637	816	401	14.9
<b>Census Region</b>								
Northeast .....	11,883	11,346	7,796	10,982	3,947	4,557	2,308	9.1
Midwest .....	14,322	13,719	9,376	13,116	3,273	4,717	2,098	8.0
South .....	20,830	19,827	11,678	18,969	4,189	4,654	3,405	8.1
West .....	11,736	11,370	6,865	10,916	2,864	2,331	1,854	9.5
<b>Workers (main shift)</b>								
Fewer than 5 .....	13,885	11,533	7,242	10,102	688	1,155	784	11.1
5 to 9 .....	6,291	6,264	3,969	6,041	424	762	438	13.3
10 to 19 .....	7,102	7,102	3,552	6,990	1,286	1,464	489	10.5
20 to 49 .....	9,132	9,103	5,524	8,910	1,997	2,648	1,319	8.1
50 to 99 .....	6,931	6,860	4,203	6,624	1,740	2,516	1,389	8.7
100 to 249 .....	5,988	5,975	3,880	5,909	2,017	2,735	1,244	9.3
250 or More .....	9,443	9,425	7,345	9,409	6,121	4,980	4,001	7.4

See footnotes at end of table.

**Table 40. Lighting Equipment, Floorspace, 1995 (Continued)**  
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Lit Buildings	Lighting Equipment Types (more than one may apply)					RSE Row Factor
			Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Halogen	
			0.9	0.8	1.4	1.2	1.5	
RSE Column Factor:	0.8	0.8	0.9	0.8	1.4	1.2	1.5	RSE Row Factor
<b>Weekly Operating Hours</b>								
39 or Fewer .....	6,134	4,224	2,795	3,358	171	432	280	14.7
40 to 48 .....	13,233	13,079	7,377	12,651	1,650	2,961	1,216	9.8
49 to 60 .....	12,242	12,134	7,053	11,712	2,764	3,000	1,597	8.0
61 to 84 .....	10,052	9,992	6,664	9,851	3,516	3,521	2,546	9.1
85 to 167 .....	6,202	6,145	3,776	6,081	1,709	2,052	1,200	10.6
Open Continuously .....	10,908	10,688	8,049	10,332	4,464	4,293	2,827	7.2
<b>Multibuilding Facility</b>								
Part of Multibuilding Facility .....	24,352	23,179	14,466	22,084	6,388	6,570	3,682	5.5
Not on Multibuilding Facility .....	34,420	33,081	21,248	31,900	7,885	9,688	5,983	5.5
<b>Energy Sources (more than one may apply)</b>								
Electricity .....	57,076	56,261	35,715	53,984	14,273	16,259	9,665	4.3
Natural Gas .....	38,145	37,723	24,959	36,817	10,118	12,180	7,243	5.2
Fuel Oil .....	14,421	14,279	10,614	14,187	6,447	6,481	4,305	6.7
District Heat .....	5,658	5,638	4,052	5,553	2,674	2,141	1,248	11.5
District Chilled Water .....	2,521	2,517	1,690	2,517	1,135	834	554	13.4
Propane .....	5,344	5,304	3,008	5,017	1,114	1,610	751	15.1
Other .....	2,336	2,216	1,423	2,135	602	651	405	16.9
<b>Energy End Uses (more than one may apply)</b>								
Buildings with Space Heating .....	54,347	53,686	34,309	52,204	13,979	15,915	9,518	4.6
Buildings with Cooling .....	49,935	49,547	32,066	48,495	13,653	15,123	9,316	4.5
Buildings with Water Heating .....	51,560	51,016	33,008	49,850	13,897	15,775	9,436	4.5
Buildings with Cooking .....	20,713	20,550	15,406	20,404	8,274	8,618	5,648	5.4
Buildings with Manufacturing .....	3,893	3,856	2,146	3,763	837	1,517	605	14.0
Buildings with Electricity Generation .....	13,366	13,319	10,098	13,209	7,096	6,829	4,675	6.5
<b>Percent Lit when Open</b>								
Zero .....	189	Q	Q	Q	Q	Q	Q	36.9
1 to 50 .....	6,008	6,008	3,971	5,533	801	763	513	12.2
51 to 99 .....	9,692	9,692	6,850	9,508	2,615	2,796	1,801	8.7
100 .....	40,514	40,514	24,873	38,934	10,857	12,700	7,346	4.8
Building Not in Use/ Electricity Not Used .....	2,369	--	--	--	--	--	--	22.3
<b>Percent Lit when Closed</b>								
Zero .....	13,101	12,958	7,146	11,619	1,142	2,190	742	11.2
1 to 50 .....	30,711	30,711	19,338	30,162	7,819	8,908	5,527	5.4
51 to 100 .....	1,914	1,914	1,193	1,883	860	868	580	22.0
Never Closed .....	10,677	10,677	8,037	10,320	4,452	4,293	2,815	7.2
Building Not in Use/ Electricity Not Used .....	2,369	--	--	--	--	--	--	22.3
<b>Lighting Equipment Types (more than one may apply)</b>								
Incandescent .....	35,715	35,715	35,715	33,733	10,835	11,370	8,029	4.4
Standard Fluorescent .....	53,984	53,984	33,733	53,984	14,142	15,898	9,574	4.4
Compact Fluorescent .....	14,273	14,273	10,835	14,142	14,273	7,216	5,564	6.9
High-Intensity Discharge .....	16,259	16,259	11,370	15,898	7,216	16,259	5,594	6.3
Halogen .....	9,665	9,665	8,029	9,574	5,564	5,594	9,665	7.2
Other .....	554	554	471	508	429	Q	Q	48.6

See footnotes at end of table.

**Table 40. Lighting Equipment, Floorspace, 1995 (Continued)**  
(Million Square Feet)

Building Characteristics	Total Floorspace of All Buildings	Total Floorspace of All Lit Buildings	Lighting Equipment Types (more than one may apply)					RSE Row Factor
			Incandescent	Standard Fluorescent	Compact Fluorescent	High-Intensity Discharge	Halogen	
RSE Column Factor:	0.8	0.8	0.9	0.8	1.4	1.2	1.5	
<b>Energy-Related Space Functions (more than one may apply)</b>								
Commercial Food Preparation .....	20,713	20,550	15,406	20,404	8,274	8,618	5,648	5.4
Computer Room .....	12,890	12,821	8,902	12,772	6,192	6,113	4,019	5.9
Activities with Large Amounts of Hot Water .....	6,753	6,737	5,404	6,621	2,824	3,171	2,164	8.3
<b>Lighting Conservation Features (more than one may apply)</b>								
Specular Reflectors .....	17,868	17,868	11,976	17,474	7,328	8,987	4,898	6.2
Energy-Efficient Ballasts .....	28,375	28,375	18,441	27,990	11,155	11,460	7,046	5.1
Natural Lighting Control Sensors .....	6,431	6,431	5,063	6,317	3,156	3,623	2,578	9.3
Occupancy Sensors .....	5,958	5,958	3,931	5,835	3,394	3,095	1,949	10.8
Time Clock .....	13,262	13,262	9,560	13,112	6,259	6,299	4,534	6.5
Manual Dimmer Switches .....	13,056	13,056	11,162	12,748	6,446	5,635	5,139	6.3
Other .....	2,836	2,836	1,881	2,828	1,526	1,460	879	14.1
<b>Off-Hour Equipment Reduction (more than one may apply)</b>								
Heating .....	38,326	38,138	23,405	37,086	8,648	10,305	6,062	5.6
Cooling .....	35,605	35,481	22,292	34,745	8,639	9,685	6,133	5.4
Lighting .....	44,937	44,937	27,345	43,074	9,705	11,851	6,767	5.1

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.