

**Table C1.89. Commercial Building Characteristics, 1989**

Building Characteristics	Total Floorspace (million square feet)	Buildings (thousand)	Floorspace per Building (square feet)	RSE Row Factors
	1.2	1.1	0.8	
RSE Column Factors:				
<b>All Buildings</b> .....	63,184	4,528	13,955	3.4
<b>Census Region</b>				
Northeast .....	13,569	783	17,320	8.3
Midwest .....	15,955	1,046	15,255	7.8
South .....	22,039	1,847	11,932	5.9
West .....	11,620	851	13,651	7.3
<b>Census Division</b>				
New England .....	3,173	184	17,203	12.5
Middle Atlantic .....	10,395	599	17,356	10.1
East North Central .....	10,681	686	15,579	10.0
West North Central .....	5,275	360	14,640	17.2
South Atlantic .....	10,090	737	13,685	11.0
East South Central .....	4,296	397	10,809	16.8
West South Central .....	7,653	712	10,744	8.6
Mountain .....	4,388	322	13,633	18.2
Pacific .....	7,232	529	13,662	8.3
<b>Principal Building Activity</b>				
Assembly .....	6,909	617	11,193	8.1
Education .....	8,076	282	28,645	8.1
Food Sales and Service .....	1,958	343	5,708	9.8
Health Care .....	2,054	80	25,721	15.6
Lodging .....	3,476	140	24,847	10.2
Mercantile and Service .....	12,365	1,278	9,672	4.6
Office .....	11,802	679	17,380	6.8
Warehouse .....	9,253	618	14,970	8.7
Other .....	3,129	157	19,970	13.0
Vacant .....	4,161	333	12,482	15.1
<b>Building Floorspace (square feet)</b>				
1,001 to 2,000 .....	1,535	1,012	1,517	3.1
2,001 to 5,000 .....	5,254	1,517	3,463	2.7
5,001 to 10,000 .....	6,532	890	7,340	2.8
10,001 to 25,000 .....	10,393	644	16,145	3.5
25,001 to 50,000 .....	8,801	247	35,674	3.5
50,001 to 100,000 .....	9,130	127	71,719	4.0
100,001 to 200,000 .....	8,277	61	136,606	5.1
200,001 to 500,000 .....	7,022	23	301,540	9.0
Over 500,000 .....	6,239	7	866,789	10.3
<b>Year Constructed</b>				
1899 or Before .....	1,654	172	9,620	13.5
1900 to 1919 .....	4,245	242	17,526	16.9
1920 to 1945 .....	8,098	680	11,908	7.7
1946 to 1959 .....	10,511	868	12,113	6.8
1960 to 1969 .....	12,167	821	14,817	5.6
1970 to 1979 .....	13,329	884	15,085	6.0
1980 to 1989 .....	13,180	861	15,308	6.0

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.  
 • See "Glossary" for definition of terms used in this report.  
 Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871 of the 1989 Nonresidential Buildings Energy Consumption Survey.

**Table C2A. Energy Sources Used for All End Uses in Commercial Buildings, Number of Buildings and Total Floorspace, 1989**

Building Characteristics	All Buildings		Energy Sources						RSE Row Factors
			Any Energy Source		Electricity		Natural Gas		
	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	
	0.9	1.0	0.9	1.0	0.9	1.0	1.1	1.2	
RSE Column Factors:	0.9	1.0	0.9	1.0	0.9	1.0	1.1	1.2	
All Buildings . . . . .	4,528	63,184	4,299	61,618	4,294	61,563	2,420	41,143	3.4
Census Region									
Northeast . . . . .	783	13,569	754	13,355	751	13,326	355	8,517	8.7
Midwest . . . . .	1,046	15,955	1,003	15,718	1,001	15,704	734	12,815	7.3
South . . . . .	1,847	22,039	1,724	21,228	1,723	21,215	806	11,660	6.6
West . . . . .	851	11,620	819	11,318	819	11,318	525	8,151	7.1
Census Division									
New England . . . . .	184	3,173	177	3,149	177	3,127	53	1,236	13.0
Middle Atlantic . . . . .	599	10,395	576	10,206	574	10,199	302	7,281	10.4
East North Central . . . . .	686	10,681	657	10,529	656	10,527	499	8,797	10.0
West North Central . . . . .	360	5,275	345	5,188	345	5,177	236	4,018	15.6
South Atlantic . . . . .	737	10,090	692	9,641	692	9,628	187	4,235	12.4
East South Central . . . . .	397	4,296	381	4,218	381	4,218	168	2,034	19.5
West South Central . . . . .	712	7,653	651	7,369	651	7,369	451	5,391	9.9
Mountain . . . . .	322	4,388	300	4,172	300	4,172	204	3,121	16.6
Pacific . . . . .	529	7,232	519	7,146	519	7,146	320	5,030	9.2
Principal Building Activity									
Assembly . . . . .	617	6,909	615	6,856	614	6,851	345	4,304	8.6
Education . . . . .	282	8,076	282	8,076	282	8,070	199	6,640	8.6
Food Sales and Service . . . . .	343	1,958	343	1,958	343	1,958	248	1,366	10.0
Health Care . . . . .	80	2,054	80	2,054	80	2,054	40	1,602	15.8
Lodging . . . . .	140	3,476	140	3,476	140	3,476	101	2,541	10.4
Mercantile and Service . . . . .	1,278	12,365	1,278	12,363	1,276	12,361	732	8,790	5.0
Office . . . . .	679	11,802	679	11,802	679	11,796	394	7,220	6.6
Warehouse . . . . .	618	9,253	544	8,852	543	8,850	207	5,135	9.8
Other . . . . .	157	3,129	156	3,120	156	3,120	71	1,654	13.5
Vacant . . . . .	333	4,161	183	3,061	182	3,027	84	1,891	17.6
Building Floorspace (square feet)									
1,001 to 2,000 . . . . .	1,012	1,535	921	1,399	919	1,397	437	671	7.2
2,001 to 5,000 . . . . .	1,517	5,254	1,443	5,019	1,441	5,012	788	2,752	4.9
5,001 to 10,000 . . . . .	890	6,532	855	6,297	855	6,297	532	3,955	5.8
10,001 to 25,000 . . . . .	644	10,393	622	10,001	622	9,989	355	5,752	5.9
25,001 to 50,000 . . . . .	247	8,801	243	8,671	243	8,671	153	5,451	6.2
50,001 to 100,000 . . . . .	127	9,130	125	8,939	125	8,918	88	6,207	7.5
100,001 to 200,000 . . . . .	61	8,277	60	8,222	60	8,222	45	6,018	9.4
200,001 to 500,000 . . . . .	23	7,022	23	7,002	23	6,996	17	5,054	16.7
Over 500,000 . . . . .	7	6,239	7	6,067	7	6,062	6	5,284	14.7
Year Constructed									
1899 or Before . . . . .	172	1,654	163	1,574	162	1,568	98	1,004	15.3
1900 to 1919 . . . . .	242	4,245	223	3,871	223	3,849	152	3,068	15.7
1920 to 1945 . . . . .	680	8,098	631	7,880	631	7,880	396	5,741	8.2
1946 to 1959 . . . . .	868	10,511	823	10,198	823	10,185	512	7,238	7.2
1960 to 1969 . . . . .	821	12,167	777	11,929	775	11,921	454	8,467	5.6
1970 to 1979 . . . . .	884	13,329	855	13,177	855	13,172	420	8,103	6.4
1980 to 1989 . . . . .	861	13,180	827	12,990	827	12,987	388	7,522	6.4

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding column and row factors. • Because of rounding, data may not sum to totals.  
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 Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871 of the 1989 Nonresidential Buildings Energy Consumption Survey.

**Table C2B. Energy Sources Used for All End Uses in Commercial Buildings, Number of Buildings and Total Floorspace, 1989 (Continued)**

Building Characteristics	Energy Sources								RSE Row Factors
	Fuel Oil		District Heat		District Chilled Water		Propane		
	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	
	0.8	0.6	1.1	1.2	1.2	1.2	1.0	1.0	
RSE Column Factors:	0.8	0.6	1.1	1.2	1.2	1.2	1.0	1.0	
All Buildings	581	12,600	98	6,578	24	1,927	348	4,695	13.2
Census Region									
Northeast	305	5,127	29	2,236	Q	321	85	1,073	24.3
Midwest	87	3,197	16	1,509	3	295	76	1,061	23.2
South	156	2,844	31	1,583	13	855	146	1,738	24.6
West	33	1,432	23	1,250	7	456	42	Q	24.9
Census Division									
New England	104	1,892	7	370	Q	Q	25	424	27.2
Middle Atlantic	201	3,235	21	1,866	Q	151	60	649	29.4
East North Central	56	1,948	9	845	Q	Q	39	707	22.6
West North Central	32	1,249	7	664	Q	Q	37	354	34.5
South Atlantic	123	2,037	4	169	7	146	97	1,264	25.1
East South Central	25	341	Q	Q	Q	Q	Q	Q	39.8
West South Central	Q	466	15	785	6	628	13	183	34.9
Mountain	9	309	11	Q	Q	99	8	Q	36.0
Pacific	23	1,123	12	517	5	356	34	336	26.4
Principal Building Activity									
Assembly	98	1,069	15	828	Q	Q	99	551	24.9
Education	38	2,209	16	1,128	9	338	22	1,143	25.5
Food Sales and Service	36	350	Q	Q	Q	Q	42	325	46.0
Health Care	13	1,397	4	680	Q	139	Q	75	30.4
Lodging	15	573	13	693	Q	53	19	468	30.4
Mercantile and Service	219	1,616	2	114	Q	Q	101	910	21.4
Office	67	2,909	23	2,316	5	646	12	124	23.5
Warehouse	49	1,429	7	191	*	*	28	789	27.4
Other	32	737	10	450	3	223	14	242	31.9
Vacant	14	310	Q	131	Q	Q	Q	69	34.6
Building Floorspace (square feet)									
1,001 to 2,000	117	179	Q	Q	*	*	81	124	23.9
2,001 to 5,000	185	642	7	29	Q	Q	124	463	24.6
5,001 to 10,000	97	698	15	112	4	32	65	454	21.1
10,001 to 25,000	95	1,495	30	540	5	75	49	738	22.3
25,001 to 50,000	36	1,319	13	498	5	161	13	461	21.0
50,001 to 100,000	23	1,675	11	838	4	281	10	748	20.9
100,001 to 200,000	17	2,228	8	1,179	4	656	4	540	28.6
200,001 to 500,000	6	1,798	5	1,264	1	202	1	468	28.9
Over 500,000	3	2,566	2	2,111	1	514	Q	Q	25.7
Year Constructed									
1899 or Before	31	406	Q	163	Q	Q	24	143	37.1
1900 to 1919	35	809	8	264	Q	Q	14	172	35.1
1920 to 1945	137	2,460	21	1,276	2	Q	44	515	23.2
1946 to 1959	141	2,068	18	1,579	4	211	59	960	27.9
1960 to 1969	95	2,275	22	1,214	9	440	57	831	19.4
1970 to 1979	90	2,399	11	1,227	5	781	82	1,020	21.4
1980 to 1989	52	2,182	14	855	4	189	68	1,054	27.5

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

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 corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871 of the 1989 Nonresidential Buildings Energy Consumption Survey.

**Table C3.89. Energy Sources Used for Space Heating in Commercial Buildings, Number of Buildings and Total Floorspace, 1989**

Building Characteristics	Energy Sources												RSE Row Fac- tors
	Any Energy Source		Electricity		Natural Gas		Fuel Oil		District Heat		Propane		
	Build- ings (thou- sand)	Floor- space (million sq.ft.)	Build- ings (thou- sand)	Floor- space (million sq.ft.)	Build- ings (thou- sand)	Floor- space (million sq.ft.)	Build- ings (thou- sand)	Floor- space (million sq.ft.)	Build- ings (thou- sand)	Floor- space (million sq.ft.)	Build- ings (thou- sand)	Floor- space (million sq.ft.)	
	0.5	0.5	0.8	0.8	0.6	0.7	1.2	1.0	1.8	1.9	1.8	1.9	
RSE Column Factors:	0.5	0.5	0.8	0.8	0.6	0.7	1.2	1.0	1.8	1.9	1.8	1.9	
All Buildings	3,876	57,868	1,283	18,702	2,158	33,017	555	10,526	94	6,065	238	1,767	7.8
Census Region													
Northeast	711	12,969	136	2,558	300	5,970	298	4,772	28	2,202	32	324	14.0
Midwest	920	15,067	159	2,808	705	11,709	86	2,746	13	1,137	62	435	13.8
South	1,512	19,170	703	8,956	690	9,098	150	2,314	30	1,533	114	887	14.5
West	734	10,662	284	4,379	462	6,241	22	694	23	1,192	Q	121	16.8
Census Division													
New England	168	3,043	22	629	43	804	103	1,838	7	362	9	171	22.7
Middle Atlantic	543	9,927	115	1,929	257	5,166	195	2,934	21	1,840	23	153	16.7
East North Central	605	10,095	104	1,773	480	8,039	55	1,626	8	761	30	280	17.3
West North Central	315	4,972	55	1,036	226	3,670	31	1,120	5	376	32	155	23.6
South Atlantic	575	8,382	295	4,700	154	2,982	119	1,754	4	153	72	574	21.0
East South Central	341	3,777	174	1,566	146	1,837	25	319	Q	Q	33	250	27.9
West South Central	596	7,011	235	2,690	390	4,279	Q	Q	15	751	10	63	20.7
Mountain	282	4,098	106	1,578	184	2,218	9	219	11	Q	6	Q	26.6
Pacific	451	6,564	177	2,802	279	4,023	13	476	11	460	Q	Q	19.1
Principal Building Activity													
Assembly	591	6,680	187	1,877	311	3,837	98	1,022	15	815	71	366	16.1
Education	277	8,016	54	1,119	182	5,082	36	2,152	15	1,030	12	158	16.6
Food Sales and Service	317	1,810	104	631	186	1,078	36	350	Q	Q	18	118	21.1
Health Care	75	2,028	37	422	36	1,337	12	1,198	3	376	Q	Q	25.5
Lodging	134	3,293	64	1,338	66	1,610	11	404	12	668	11	149	20.9
Mercantile and Service	1,219	12,040	351	4,530	687	7,427	216	1,444	2	113	74	510	12.5
Office	663	11,682	283	4,545	356	4,990	58	1,819	23	2,292	11	26	13.8
Warehouse	340	7,296	112	2,499	195	4,540	48	1,342	7	189	23	367	19.4
Other	124	2,521	41	1,020	65	1,398	28	484	9	406	10	46	24.6
Vacant	137	2,503	49	721	76	1,720	14	310	Q	131	Q	Q	30.1
Building Floorspace (square feet)													
1,001 to 2,000	803	1,216	251	372	397	612	117	179	Q	Q	73	110	14.2
2,001 to 5,000	1,297	4,543	415	1,443	715	2,499	180	623	7	29	94	353	12.6
5,001 to 10,000	760	5,620	228	1,698	485	3,601	95	682	15	112	37	266	14.5
10,001 to 25,000	588	9,434	239	3,817	303	4,886	89	1,380	29	506	22	325	12.1
25,001 to 50,000	224	7,994	85	3,013	134	4,820	33	1,216	13	481	6	206	15.2
50,001 to 100,000	118	8,420	39	2,766	75	5,302	21	1,450	10	748	5	392	14.7
100,001 to 200,000	58	7,902	17	2,341	32	4,406	14	1,816	8	1,123	Q	Q	16.8
200,001 to 500,000	22	6,763	6	1,781	14	4,303	4	1,290	5	1,234	*	40	24.4
Over 500,000	7	5,977	2	1,470	3	2,588	3	1,891	2	1,825	*	*	25.7
Year Constructed													
1899 or Before	154	1,536	41	379	88	889	31	406	Q	163	19	89	26.2
1900 to 1919	204	3,674	45	601	141	2,602	33	794	8	250	11	Q	26.0
1920 to 1945	585	7,489	117	1,323	345	4,314	137	2,398	21	1,017	26	160	16.5
1946 to 1959	758	9,793	179	2,106	473	5,984	136	1,868	16	1,495	35	139	14.7
1960 to 1969	686	11,183	218	3,292	409	7,092	88	2,051	21	1,091	41	390	12.5
1970 to 1979	771	12,373	333	5,014	364	6,563	85	1,640	11	1,201	56	431	12.6
1980 to 1989	718	11,821	350	5,986	338	5,573	45	1,368	14	847	50	447	14.2

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

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 corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871 of the 1989 Nonresidential Buildings Energy Consumption Survey.

**Table C4.89. Energy Sources Used for Cooling in Commercial Buildings, Number of Buildings and Total Floorspace, 1989**

Building Characteristics	Energy Sources								RSE Row Factors
	Any Energy Source		Electricity		Natural Gas		District Chilled Water		
	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	
	0.5	0.6	0.5	0.6	1.8	1.7	1.9	1.9	
All Buildings . . . . .	3,184	51,770	3,072	47,905	97	1,976	24	1,906	7.6
Census Region									
Northeast . . . . .	476	10,334	448	9,308	29	517	Q	321	17.7
Midwest . . . . .	706	13,159	678	12,292	28	673	Q	274	16.0
South . . . . .	1,426	18,957	1,394	18,062	21	445	13	855	13.4
West . . . . .	576	9,320	551	8,243	18	340	7	456	14.3
Census Division									
New England . . . . .	106	2,085	98	1,773	7	115	Q	Q	25.0
Middle Atlantic . . . . .	371	8,250	350	7,534	22	401	Q	151	19.5
East North Central . . . . .	452	8,735	430	8,120	21	538	Q	139	21.1
West North Central . . . . .	254	4,423	248	4,172	7	135	Q	Q	25.6
South Atlantic . . . . .	575	8,553	558	8,201	12	274	7	146	17.9
East South Central . . . . .	301	3,587	297	3,501	Q	59	Q	Q	30.5
West South Central . . . . .	551	6,818	540	6,360	Q	Q	6	628	21.5
Mountain . . . . .	217	3,415	208	2,830	9	103	Q	99	29.6
Pacific . . . . .	359	5,905	343	5,413	9	237	5	356	16.7
Principal Building Activity									
Assembly . . . . .	432	5,354	418	4,961	10	236	Q	Q	17.9
Education . . . . .	211	6,499	201	5,439	3	348	9	338	17.6
Food Sales and Service . . . . .	300	1,806	283	1,750	18	Q	Q	Q	18.6
Health Care . . . . .	77	2,018	73	1,804	Q	100	Q	139	22.7
Lodging . . . . .	113	2,964	108	2,722	5	Q	Q	53	20.2
Mercantile and Service . . . . .	929	10,803	907	10,448	23	339	Q	Q	11.2
Office . . . . .	655	11,635	632	10,595	22	283	5	639	13.0
Warehouse . . . . .	264	6,111	257	5,845	6	282	*	*	21.7
Other . . . . .	93	2,443	87	2,229	Q	116	3	223	26.1
Vacant . . . . .	110	2,137	106	2,112	Q	Q	Q	Q	42.3
Building Floorspace (square feet)									
1,001 to 2,000 . . . . .	604	914	593	898	11	19	*	*	15.5
2,001 to 5,000 . . . . .	1,048	3,651	1,016	3,544	32	102	Q	Q	10.5
5,001 to 10,000 . . . . .	647	4,809	619	4,617	21	156	4	32	10.8
10,001 to 25,000 . . . . .	494	8,010	477	7,739	17	248	5	75	13.9
25,001 to 50,000 . . . . .	205	7,271	195	6,914	7	254	4	148	14.2
50,001 to 100,000 . . . . .	108	7,764	101	7,214	6	457	4	281	14.5
100,001 to 200,000 . . . . .	50	6,916	46	6,297	2	259	4	656	21.1
200,001 to 500,000 . . . . .	22	6,460	20	5,883	1	321	1	195	24.4
Over 500,000 . . . . .	7	5,976	6	4,800	*	159	1	514	22.4
Year Constructed									
1899 or Before . . . . .	115	1,223	108	1,188	Q	Q	Q	Q	35.0
1900 to 1919 . . . . .	137	3,075	134	3,011	3	Q	Q	Q	33.1
1920 to 1945 . . . . .	441	5,844	425	5,403	17	228	2	Q	16.8
1946 to 1959 . . . . .	572	8,285	557	7,370	9	243	4	198	15.8
1960 to 1969 . . . . .	586	10,056	567	9,032	16	663	9	440	12.5
1970 to 1979 . . . . .	665	11,616	641	10,746	17	348	5	781	14.1
1980 to 1989 . . . . .	667	11,671	639	11,155	30	420	4	189	14.9

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

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 corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871 of the 1989 Nonresidential Buildings Energy Consumption Survey.

**Table C5.89. End Uses for All Energy Sources in Commercial Buildings, Number of Buildings and Total Floorspace, 1989**

Building Characteristics	All Buildings		End Uses										RSE Row Fac- tors
			Space Heating		Water Heating		Cooling		Cooking		Manufacturing		
	Build- ings (thou- sand)	Floor- space (million sq.ft.)	Build- ings (thou- sand)	Floor- space (million sq.ft.)	Build- ings (thou- sand)	Floor- space (million sq.ft.)	Build- ings (thou- sand)	Floor- space (million sq.ft.)	Build- ings (thou- sand)	Floor- space (million sq.ft.)	Build- ings (thou- sand)	Floor- space (million sq.ft.)	
	0.7	0.7	0.7	0.8	0.7	0.8	0.8	0.9	1.2	1.2	2.2	2.6	
RSE Column Factors:	0.7	0.7	0.7	0.8	0.7	0.8	0.8	0.9	1.2	1.2	2.2	2.6	
All Buildings	4,528	63,184	3,876	57,868	3,183	53,584	3,184	51,770	864	23,668	205	5,601	4.7
Census Region													
Northeast	783	13,569	711	12,969	620	12,447	476	10,334	190	5,870	51	1,026	11.1
Midwest	1,046	15,955	920	15,067	786	14,211	706	13,159	180	6,490	43	1,538	9.7
South	1,847	22,039	1,512	19,170	1,149	16,925	1,426	18,957	311	7,194	64	1,732	8.9
West	851	11,620	734	10,662	629	10,002	576	9,320	183	4,114	47	1,304	10.0
Census Division													
New England	184	3,173	168	3,043	147	2,921	106	2,085	41	1,151	8	Q	16.0
Middle Atlantic	599	10,395	543	9,927	472	9,526	371	8,250	150	4,719	43	937	13.1
East North Central	686	10,681	605	10,095	521	9,656	452	8,735	122	4,316	33	1,209	13.2
West North Central	360	5,275	315	4,972	264	4,555	254	4,423	58	2,174	11	329	18.4
South Atlantic	737	10,090	575	8,382	436	7,556	575	8,553	122	3,119	28	746	12.6
East South Central	397	4,296	341	3,777	256	3,134	301	3,587	70	1,363	Q	Q	24.4
West South Central	712	7,653	596	7,011	456	6,235	551	6,818	119	2,712	26	395	13.9
Mountain	322	4,388	282	4,098	230	3,775	217	3,415	58	1,778	16	Q	21.6
Pacific	529	7,232	451	6,564	399	6,227	359	5,905	126	2,336	31	602	11.3
Principal Building Activity													
Assembly	617	6,909	591	6,680	481	6,155	432	5,354	178	2,965	Q	Q	11.2
Education	282	8,076	277	8,016	214	7,622	211	6,499	98	5,288	12	Q	10.9
Food Sales and Service	343	1,958	317	1,810	331	1,925	300	1,806	271	1,551	Q	Q	11.9
Health Care	80	2,054	75	2,028	73	2,040	77	2,018	18	1,576	Q	92	19.4
Lodging	140	3,476	134	3,293	138	3,462	113	2,964	62	2,131	Q	Q	12.9
Mercantile and Service	1,278	12,365	1,219	12,040	863	10,163	929	10,803	122	4,035	78	853	7.0
Office	679	11,802	663	11,682	609	11,195	655	11,635	47	3,917	23	968	10.1
Warehouse	618	9,253	340	7,296	261	6,427	264	6,111	28	636	55	1,825	14.5
Other	157	3,129	124	2,521	102	2,412	93	2,443	23	637	23	617	17.7
Vacant	333	4,161	137	2,503	111	2,182	110	2,137	17	Q	2	Q	23.1
Building Floorspace (square feet)													
1,001 to 2,000	1,012	1,535	803	1,216	583	886	604	914	135	203	22	30	10.1
2,001 to 5,000	1,517	5,254	1,297	4,543	1,010	3,510	1,048	3,651	277	966	54	193	6.9
5,001 to 10,000	890	6,532	760	5,620	658	4,882	647	4,809	152	1,138	37	265	8.2
10,001 to 25,000	644	10,393	588	9,434	527	8,521	494	8,010	130	2,139	48	806	8.1
25,001 to 50,000	247	8,801	224	7,994	206	7,400	205	7,271	75	2,758	20	710	8.7
50,001 to 100,000	127	9,130	118	8,420	115	8,181	108	7,764	48	3,366	14	1,077	9.6
100,001 to 200,000	61	8,277	58	7,902	56	7,644	50	6,916	28	4,015	5	753	10.7
200,001 to 500,000	23	7,022	22	6,763	22	6,630	22	6,460	15	4,403	Q	Q	20.8
Over 500,000	7	6,239	7	5,977	7	5,932	7	5,976	5	4,680	1	Q	18.3
Year Constructed													
1899 or Before	172	1,654	154	1,536	114	1,254	115	1,223	41	441	Q	Q	21.3
1900 to 1919	242	4,245	204	3,674	165	3,322	137	3,075	43	1,614	Q	Q	21.9
1920 to 1945	680	8,098	585	7,489	465	6,771	441	5,844	127	2,544	31	635	10.6
1946 to 1959	868	10,511	758	9,793	617	9,074	572	8,285	176	4,777	47	1,626	9.6
1960 to 1969	821	12,167	686	11,183	560	10,476	586	10,056	140	4,733	33	786	7.8
1970 to 1979	884	13,329	771	12,373	633	11,304	665	11,616	173	5,213	41	1,085	8.2
1980 to 1989	861	13,180	718	11,821	629	11,383	667	11,671	165	4,346	45	1,078	8.7

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 corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871 of the 1989 Nonresidential Buildings Energy Consumption Survey.

**Table C6.89. End Uses for Electricity Energy Sources in Commercial Buildings, Number of Buildings and Total Floorspace, 1989**

Building Characteristics	End Uses								RSE Row Factors
	Space Heating		Water Heating		Cooling		Cooking		
	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	
	1.0	1.0	0.9	1.0	0.7	0.8	1.4	1.5	
RSE Column Factors:	1.0	1.0	0.9	1.0	0.7	0.8	1.4	1.5	
All Buildings . . . . .	1,283	18,702	1,554	21,493	3,072	47,905	387	10,850	5.5
Census Region									
Northeast . . . . .	136	2,558	252	4,029	448	9,308	62	2,705	10.8
Midwest . . . . .	159	2,808	317	4,384	678	12,292	77	2,923	11.1
South . . . . .	703	8,956	695	9,136	1,394	18,062	162	3,666	10.0
West . . . . .	284	4,379	290	3,945	551	8,243	87	1,555	11.9
Census Division									
New England . . . . .	22	629	61	1,091	98	1,773	14	489	19.9
Middle Atlantic . . . . .	115	1,929	190	2,938	350	7,534	47	2,216	12.2
East North Central . . . . .	104	1,773	203	2,795	430	8,120	47	1,663	15.4
West North Central . . . . .	55	1,036	115	1,588	248	4,172	30	1,261	18.2
South Atlantic . . . . .	295	4,700	313	4,673	558	8,201	72	1,575	13.3
East South Central . . . . .	174	1,566	169	1,957	297	3,501	38	1,059	21.3
West South Central . . . . .	235	2,690	213	2,506	540	6,360	52	1,033	17.7
Mountain . . . . .	106	1,578	110	1,501	208	2,830	31	657	25.4
Pacific . . . . .	177	2,802	180	2,444	343	5,413	56	898	12.9
Principal Building Activity									
Assembly . . . . .	187	1,877	219	1,889	418	4,961	74	1,559	13.8
Education . . . . .	54	1,119	73	1,495	201	5,439	51	2,534	12.2
Food Sales and Service . . . . .	104	631	102	815	283	1,750	92	557	14.6
Health Care . . . . .	37	422	42	354	73	1,804	12	1,030	21.7
Lodging . . . . .	64	1,338	24	549	108	2,722	34	983	16.0
Mercantile and Service . . . . .	351	4,530	501	5,785	907	10,448	58	1,537	9.0
Office . . . . .	283	4,545	331	5,522	632	10,595	30	1,690	11.2
Warehouse . . . . .	112	2,499	152	3,172	257	5,845	Q	493	18.8
Other . . . . .	41	1,020	57	1,095	87	2,229	9	347	23.2
Vacant . . . . .	49	721	54	819	106	2,112	6	Q	25.8
Building Floorspace (square feet)									
1,001 to 2,000 . . . . .	251	372	317	479	593	898	62	96	10.7
2,001 to 5,000 . . . . .	415	1,443	519	1,792	1,016	3,544	130	436	8.7
5,001 to 10,000 . . . . .	228	1,698	314	2,352	619	4,617	56	423	9.7
10,001 to 25,000 . . . . .	239	3,817	254	4,041	477	7,739	62	1,072	9.0
25,001 to 50,000 . . . . .	85	3,013	82	2,946	195	6,914	33	1,210	11.6
50,001 to 100,000 . . . . .	39	2,766	40	2,904	101	7,214	23	1,717	11.5
100,001 to 200,000 . . . . .	17	2,341	17	2,358	46	6,297	12	1,694	13.1
200,001 to 500,000 . . . . .	6	1,781	9	2,598	20	5,883	8	2,223	20.0
Over 500,000 . . . . .	2	1,470	2	2,023	6	4,800	2	1,978	22.5
Year Constructed									
1899 or Before . . . . .	41	379	46	427	108	1,188	17	139	25.4
1900 to 1919 . . . . .	45	601	68	812	134	3,011	17	410	24.5
1920 to 1945 . . . . .	117	1,323	197	2,112	425	5,403	45	1,225	13.9
1946 to 1959 . . . . .	179	2,106	245	2,771	557	7,370	74	2,325	11.4
1960 to 1969 . . . . .	218	3,292	243	3,408	567	9,032	65	2,274	9.1
1970 to 1979 . . . . .	333	5,014	367	5,661	641	10,746	88	2,753	9.0
1980 to 1989 . . . . .	350	5,986	388	6,302	639	11,155	81	1,724	9.1

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 corresponding column and row factors. • Because of rounding, data may not sum to totals.  
• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871 of the 1989 Nonresidential Buildings Energy Consumption Survey.

**Table C7.89. End Uses for Natural Gas Energy Sources in Commercial Buildings, Number of Buildings and Total Floorspace, 1989**

Building Characteristics	End Uses								RSE Row Factors
	Space Heating		Water Heating		Cooling		Cooking		
	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	
	0.7	0.7	0.7	0.8	2.0	1.9	0.9	1.0	
RSE Column Factors:	0.7	0.7	0.7	0.8	2.0	1.9	0.9	1.0	
All Buildings . . . . .	2,158	33,017	1,391	25,923	97	1,976	462	14,766	6.5
Census Region									
Northeast . . . . .	300	5,970	229	5,414	29	517	95	3,426	13.6
Midwest . . . . .	705	11,709	441	8,834	28	673	115	4,587	12.1
South . . . . .	690	9,098	408	6,468	21	445	149	3,845	12.5
West . . . . .	462	6,241	313	5,206	18	340	103	2,909	13.7
Census Division									
New England . . . . .	43	804	31	863	7	115	16	597	26.8
Middle Atlantic . . . . .	257	5,166	198	4,551	22	401	79	2,829	15.7
East North Central . . . . .	480	8,039	307	6,481	21	538	83	3,353	15.6
West North Central . . . . .	226	3,670	134	2,354	7	135	33	1,234	20.9
South Atlantic . . . . .	154	2,982	91	2,270	12	274	39	1,605	20.2
East South Central . . . . .	146	1,837	80	975	Q	59	30	367	24.8
West South Central . . . . .	390	4,279	237	3,223	Q	Q	80	1,873	16.8
Mountain . . . . .	184	2,218	114	1,687	9	103	35	1,302	20.6
Pacific . . . . .	279	4,023	199	3,520	9	237	68	1,606	17.8
Principal Building Activity									
Assembly . . . . .	311	3,837	206	3,164	10	236	79	1,319	14.8
Education . . . . .	182	5,082	127	4,963	3	348	54	3,390	15.4
Food Sales and Service . . . . .	186	1,078	196	886	18	Q	191	978	14.4
Health Care . . . . .	36	1,337	25	980	Q	100	7	867	24.2
Lodging . . . . .	66	1,610	90	2,011	5	Q	34	1,588	20.3
Mercantile and Service . . . . .	687	7,427	325	4,553	23	339	54	2,954	12.1
Office . . . . .	356	4,990	239	4,110	22	283	18	2,384	12.8
Warehouse . . . . .	195	4,540	101	3,056	6	282	Q	Q	17.3
Other . . . . .	65	1,398	37	918	Q	116	10	293	27.5
Vacant . . . . .	76	1,720	46	1,282	Q	Q	10	Q	38.0
Building Floorspace (square feet)									
1,001 to 2,000 . . . . .	397	612	216	332	11	19	73	107	15.5
2,001 to 5,000 . . . . .	715	2,499	424	1,482	32	102	136	474	11.2
5,001 to 10,000 . . . . .	485	3,601	309	2,289	21	156	88	672	11.5
10,001 to 25,000 . . . . .	303	4,886	228	3,737	17	248	62	990	11.8
25,001 to 50,000 . . . . .	134	4,820	105	3,727	7	254	41	1,517	11.5
50,001 to 100,000 . . . . .	75	5,302	62	4,313	6	457	31	2,086	12.3
100,001 to 200,000 . . . . .	32	4,406	33	4,334	2	259	19	2,663	17.6
200,001 to 500,000 . . . . .	14	4,303	12	3,723	1	321	9	2,848	25.1
Over 500,000 . . . . .	3	2,588	3	1,987	*	159	4	3,408	23.8
Year Constructed									
1899 or Before . . . . .	88	889	50	516	Q	Q	25	301	26.8
1900 to 1919 . . . . .	141	2,602	80	2,161	3	Q	25	Q	26.3
1920 to 1945 . . . . .	345	4,314	219	3,670	17	228	73	1,595	16.5
1946 to 1959 . . . . .	473	5,984	327	5,116	9	243	95	2,762	13.5
1960 to 1969 . . . . .	409	7,092	274	5,798	16	663	71	2,923	11.7
1970 to 1979 . . . . .	364	6,563	227	4,488	17	348	92	2,973	13.8
1980 to 1989 . . . . .	338	5,573	213	4,174	30	420	81	3,006	12.3

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

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 corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871 of the 1989 Nonresidential Buildings Energy Consumption Survey.



**Table C8.89. End Uses for Fuel Oil and District Heat Energy Sources in Commercial Buildings, Number of Building and Total Floorspace, 1989**

Building Characteristics	Fuel Oil End Uses				District Heat End Uses				RSE Row Factors
	Space Heating		Water Heating		Space Heating		Water Heating		
	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	Buildings (thousand)	Floorspace (million sq.ft.)	
	0.7	0.6	1.2	1.1	1.1	1.1	1.1	1.2	
RSE Column Factors:	0.7	0.6	1.2	1.1	1.1	1.1	1.1	1.2	
All Buildings	555	10,526	126	2,284	94	6,065	48	4,686	14.7
Census Region									
Northeast	298	4,772	105	1,747	28	2,202	17	1,774	22.8
Midwest	86	2,746	7	185	13	1,137	9	1,229	25.2
South	150	2,314	12	273	30	1,533	12	834	26.9
West	22	694	Q	Q	23	1,192	10	Q	31.5
Census Division									
New England	103	1,838	47	715	7	362	5	306	29.6
Middle Atlantic	195	2,934	57	1,032	21	1,840	12	1,468	29.6
East North Central	55	1,626	Q	Q	8	761	5	646	27.0
West North Central	31	1,120	Q	Q	5	376	5	583	35.2
South Atlantic	119	1,754	12	247	4	153	2	122	26.7
East South Central	25	319	Q	Q	Q	Q	Q	Q	41.3
West South Central	Q	Q	*	*	15	751	5	602	36.1
Mountain	9	219	*	*	11	Q	6	Q	38.9
Pacific	13	476	Q	Q	11	460	4	184	33.5
Principal Building Activity									
Assembly	98	1,022	20	356	15	815	6	645	31.2
Education	36	2,152	10	663	15	1,030	7	989	24.3
Food Sales and Service	36	350	10	Q	Q	Q	Q	Q	49.8
Health Care	12	1,198	Q	134	3	376	3	598	33.7
Lodging	11	404	8	170	12	668	10	625	31.7
Mercantile and Service	216	1,444	37	269	2	113	1	103	24.4
Office	58	1,819	23	328	23	2,292	10	1,371	23.3
Warehouse	48	1,342	5	107	7	189	Q	Q	33.5
Other	28	484	8	189	9	406	4	217	37.4
Vacant	14	310	Q	Q	Q	131	Q	Q	39.3
Building Floorspace (square feet)									
1,001 to 2,000	117	179	23	36	Q	Q	Q	Q	30.8
2,001 to 5,000	180	623	39	136	7	29	Q	Q	26.5
5,001 to 10,000	95	682	17	125	15	112	Q	Q	34.5
10,001 to 25,000	89	1,380	27	409	29	506	13	236	23.2
25,001 to 50,000	33	1,216	12	456	13	481	8	283	23.7
50,001 to 100,000	21	1,450	5	317	10	748	8	598	22.3
100,001 to 200,000	14	1,816	2	384	8	1,123	6	945	28.9
200,001 to 500,000	4	1,290	1	273	5	1,234	2	640	31.4
Over 500,000	3	1,891	*	148	2	1,825	2	1,924	28.3
Year Constructed									
1899 or Before	31	406	11	137	Q	163	Q	Q	41.4
1900 to 1919	33	794	11	225	8	250	3	170	37.0
1920 to 1945	137	2,398	33	340	21	1,017	7	817	23.1
1946 to 1959	136	1,868	27	514	16	1,495	11	Q	26.4
1960 to 1969	88	2,051	23	532	21	1,091	10	975	22.7
1970 to 1979	85	1,640	15	324	11	1,201	9	1,056	24.1
1980 to 1989	45	1,368	7	212	14	847	Q	Q	35.4

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

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 corresponding column and row factors. • Because of rounding, data may not sum to totals.

• See "Glossary" for definition of terms used in this report.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871 of the 1989 Nonresidential Buildings Energy Consumption Survey.