

Buildings Characteristics

Conservation Tables

(16 pages, 86 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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<p>World Wide Web:</p>	<p>http://www.eia.doe.gov/emeu/consumption</p>

Table 41. Energy Conservation Features, Number of Buildings and Floorspace, 1995

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Any Conservation Features	Building Shell	HVAC	Lighting	All Buildings	Any Conservation Features	Building Shell	HVAC	Lighting	
	RSE Column Factor:	1.1	1.1	1.1	1.3	1.4	0.8	0.8	0.8	0.9	
All Buildings	4,579	4,075	3,906	2,529	2,084	58,772	55,288	53,190	44,657	38,537	4.0
Building Floorspace (Square Feet)											
1,001 to 5,000	2,399	2,067	1,991	1,086	881	6,338	5,552	5,346	2,978	2,410	6.1
5,001 to 10,000	1,035	917	867	575	496	7,530	6,671	6,344	4,292	3,626	8.4
10,001 to 25,000	745	705	676	527	427	11,617	10,928	10,491	8,139	6,625	7.6
25,001 to 50,000	213	203	195	175	135	7,676	7,311	7,021	6,370	4,936	6.2
50,001 to 100,000	115	113	109	100	83	7,968	7,848	7,530	6,957	5,806	6.4
100,001 to 200,000	48	47	44	41	38	6,776	6,534	6,217	5,787	5,364	7.6
200,001 to 500,000	19	18	18	17	17	5,553	5,427	5,237	5,161	4,912	7.5
Over 500,000	6	6	6	6	5	5,313	5,018	5,005	4,973	4,857	8.8
Principal Building Activity											
Education	309	308	297	241	196	7,740	7,726	7,519	6,918	5,639	9.1
Food Sales	137	130	129	60	57	642	628	609	354	374	15.8
Food Service	285	272	259	191	165	1,353	1,305	1,278	1,030	945	12.6
Health Care	105	102	102	79	45	2,333	2,328	2,328	2,250	1,980	13.1
Lodging	158	157	156	123	70	3,618	3,600	3,556	3,215	2,535	11.7
Mercantile and Service	1,289	1,123	1,055	638	521	12,728	11,888	11,369	9,109	7,962	8.4
Office	705	704	696	529	411	10,478	10,463	10,395	9,619	8,212	7.4
Public Assembly	326	317	294	222	181	3,948	3,908	3,682	3,357	3,009	12.3
Public Order and Safety	87	81	80	56	54	1,271	1,137	1,056	915	747	23.8
Religious Worship	269	265	263	145	134	2,792	2,752	2,720	1,877	1,709	12.3
Warehouse and Storage	580	408	367	174	191	8,481	7,079	6,261	4,677	4,356	13.3
Other	67	61	60	46	37	1,004	979	967	852	721	27.2
Vacant	261	149	148	25	22	2,384	1,494	1,450	485	349	19.5
Year Constructed											
1919 or Before	353	314	296	172	173	3,673	3,470	3,275	2,298	2,328	12.5
1920 to 1945	562	468	443	296	213	6,710	5,582	5,232	4,266	3,495	10.3
1946 to 1959	867	788	751	458	390	9,298	8,806	8,561	6,789	5,683	7.8
1960 to 1969	718	636	590	418	344	10,858	10,188	9,591	8,689	7,246	7.3
1970 to 1979	813	745	725	446	346	11,333	10,978	10,572	8,671	7,639	6.6
1980 to 1989	846	757	748	537	421	12,252	11,791	11,607	10,129	8,564	7.3
1990 to 1992	218	203	196	107	118	2,590	2,533	2,483	2,149	2,023	12.2
1993 to 1995	202	164	158	95	79	2,059	1,939	1,868	1,665	1,558	15.7
Floors											
One	3,018	2,600	2,475	1,490	1,220	24,552	22,001	20,888	15,942	12,843	5.4
Two	1,002	940	911	642	498	14,122	13,756	13,317	11,071	9,372	6.1
Three	399	392	378	271	250	7,335	7,204	6,930	5,908	5,257	10.2
Four to Nine	148	132	129	114	106	8,789	8,451	8,192	7,988	7,443	9.3
Ten or More	12	12	12	11	10	3,975	3,877	3,863	3,748	3,622	11.5
Census Region											
Northeast	725	658	625	493	446	11,883	11,118	10,464	9,854	8,920	9.4
Midwest	1,139	1,030	974	605	486	14,322	13,733	13,162	10,764	9,495	7.8
South	1,750	1,529	1,497	895	654	20,830	19,139	18,757	14,904	12,087	6.3
West	964	858	809	536	498	11,736	11,297	10,806	9,135	8,036	8.5

See footnotes at end of table.

Table 41. Energy Conservation Features, Number of Buildings and Floorspace, 1995 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Any Conservation Features	Building Shell	HVAC	Lighting	All Buildings	Any Conservation Features	Building Shell	HVAC	Lighting	
	1.1	1.1	1.1	1.3	1.4	0.8	0.8	0.8	0.9	0.9	
Workers (main shift)											
Fewer than 5	2,505	2,065	1,956	1,023	894	13,885	11,230	10,568	6,137	5,260	6.9
5 to 9	798	755	731	498	396	6,291	5,966	5,689	4,201	3,397	9.3
10 to 19	625	616	598	456	339	7,102	7,000	6,621	5,287	4,203	8.2
20 to 49	400	392	378	330	263	9,132	8,917	8,524	7,796	6,249	6.9
50 to 99	138	133	130	114	94	6,931	6,747	6,504	6,190	5,368	7.9
100 to 249	71	71	70	67	57	5,988	5,985	5,875	5,735	5,049	7.6
250 or More	43	43	43	42	40	9,443	9,443	9,409	9,312	9,012	10.0
Ownership and Occupancy											
Nongovernment Owned	4,025	3,584	3,437	2,133	1,768	46,696	43,720	42,074	34,095	29,737	4.4
Owner Occupied	3,158	2,868	2,762	1,735	1,481	35,573	33,842	32,739	26,731	24,062	4.7
Nonowner Occupied	698	636	595	390	287	9,697	9,172	8,630	7,253	5,625	8.8
Unoccupied	170	80	80	Q	Q	1,426	706	706	Q	Q	21.2
Government Owned	553	491	469	396	316	12,076	11,569	11,116	10,562	8,800	6.4
Energy Sources (more than one may apply)											
Electricity	4,343	4,002	3,833	2,521	2,084	57,076	54,617	52,520	44,490	38,537	3.9
Natural Gas	2,478	2,366	2,287	1,521	1,266	38,145	37,383	36,114	31,011	27,217	4.5
Fuel Oil	607	566	540	443	372	14,421	14,250	13,875	13,335	12,321	9.0
District Heat	110	109	107	91	68	5,658	5,638	5,502	5,398	4,583	13.2
District Chilled Water	53	53	53	48	25	2,521	2,521	2,501	2,446	1,943	17.3
Propane	589	578	561	398	289	5,344	5,281	5,122	4,397	3,736	12.9
Other	213	192	181	105	95	2,336	2,092	2,014	1,784	1,540	17.4
Energy End Uses (more than one may apply)											
Buildings with Space Heating	4,024	3,839	3,703	2,515	1,996	54,347	53,148	51,383	44,317	37,504	4.1
Buildings with Cooling	3,381	3,281	3,192	2,227	1,692	49,935	49,016	47,666	41,648	35,010	3.9
Buildings with Water Heating	3,486	3,381	3,273	2,294	1,816	51,560	50,745	49,132	42,925	36,656	4.1
Buildings with Cooking	828	805	783	584	472	20,713	20,570	20,126	18,590	16,728	5.1
Buildings with Manufacturing	204	195	186	120	108	3,893	3,812	3,695	2,901	2,688	13.8
Buildings with Electricity Generation	247	246	243	210	193	13,366	13,365	13,232	12,961	12,229	8.4
Percent of Floorspace Heated											
Not Heated	554	236	203	14	88	4,425	2,140	1,807	340	1,033	19.8
1 to 50	555	486	443	278	234	6,227	5,555	5,009	3,644	3,071	12.2
51 to 99	633	602	573	373	384	8,868	8,743	8,471	7,059	6,907	9.3
100	2,836	2,751	2,687	1,864	1,378	39,252	38,850	37,903	33,614	27,526	4.1
Percent of Floorspace Cooled											
Not Cooled	1,198	794	713	302	391	8,837	6,272	5,525	3,009	3,527	12.2
1 to 50	930	870	843	535	471	15,027	14,387	13,623	10,981	9,578	7.9
51 to 99	635	627	611	456	376	12,549	12,502	12,314	11,343	10,329	7.4
100	1,816	1,783	1,737	1,236	845	22,359	22,128	21,729	19,324	15,103	5.0

See footnotes at end of table.

Table 41. Energy Conservation Features, Number of Buildings and Floorspace, 1995 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Any Conservation Features	Building Shell	HVAC	Lighting	All Buildings	Any Conservation Features	Building Shell	HVAC	Lighting	
	RSE Column Factor:	1.1	1.1	1.1	1.3	1.4	0.8	0.8	0.8	0.9	
Percent Lit when Open											
Zero	36	Q	Q	Q	Q	189	Q	Q	Q	Q	35.1
1 to 50	666	582	548	325	278	6,008	5,254	4,875	3,222	3,076	10.1
51 to 99	745	718	697	486	390	9,692	9,526	9,178	7,976	6,935	9.1
100	2,814	2,630	2,516	1,684	1,416	40,514	39,251	37,879	33,095	28,527	4.6
Building Not in Use/ Electricity Not Used	318	136	136	32	Q	2,369	1,196	1,196	358	Q	20.0
Heating Equipment (more than one may apply)											
Heat Pumps	394	394	386	295	203	5,843	5,827	5,771	5,159	4,112	8.7
Furnaces	1,676	1,594	1,533	987	761	14,923	14,346	13,741	10,532	8,827	6.5
Individual Space Heaters	1,188	1,102	1,065	617	575	16,809	16,288	15,673	12,809	11,836	7.9
District Heat	115	114	112	97	73	5,911	5,892	5,752	5,637	4,796	13.2
Boilers	610	607	583	515	409	16,754	16,716	16,177	15,552	13,661	6.7
Packaged Heating Units	1,031	1,002	983	747	582	16,893	16,701	16,335	14,646	12,220	6.0
Other	161	160	159	103	111	6,249	6,220	6,181	5,695	5,573	14.2
Cooling Equipment (more than one may apply)											
Residential-Type Central Air Conditioners	878	866	853	569	424	9,238	9,154	8,885	7,205	6,175	6.8
Heat Pumps	457	456	449	340	240	6,931	6,902	6,832	6,077	4,843	8.4
Individual Air Conditioners	862	825	796	487	379	12,494	12,148	11,642	9,823	8,620	7.1
District Chilled Water	53	53	53	48	25	2,521	2,521	2,501	2,446	1,943	17.3
Central Chillers	109	109	108	105	89	11,065	11,061	10,973	10,879	10,160	8.4
Packaged Air Conditioning Units	1,431	1,381	1,346	1,040	804	26,628	26,208	25,606	23,086	19,779	5.3
Swamp Coolers	186	184	170	128	87	2,451	2,379	2,324	2,122	1,468	18.8
Other	18	18	17	15	13	949	948	945	902	846	19.9
Lighting Equipment Types (more than one may apply)											
Incandescent	2,479	2,306	2,234	1,516	1,225	35,715	34,451	33,382	29,008	25,823	4.2
Standard Fluorescent	3,885	3,665	3,521	2,380	1,991	53,984	52,412	50,521	43,403	37,682	4.0
Compact Fluorescent	364	363	359	295	270	14,273	14,145	13,934	13,499	12,965	7.9
High-Intensity Discharge	393	385	365	311	312	16,259	16,153	15,532	14,969	14,692	7.5
Halogen	302	301	298	224	199	9,665	9,654	9,544	8,903	8,813	9.2
Other	30	17	Q	Q	Q	554	517	512	515	499	46.9
Water-Heating Equipment (more than one may apply)											
Centralized System	2,671	2,575	2,489	1,696	1,339	31,656	31,012	29,845	25,459	21,456	4.7
Distributed System	742	733	711	538	420	16,495	16,324	15,902	14,261	12,124	6.3
Combination of Centralized and Distributed System	73	73	73	60	57	3,409	3,409	3,384	3,205	3,076	12.3

See footnotes at end of table.

Table 41. Energy Conservation Features, Number of Buildings and Floorspace, 1995 (Continued)

Building Characteristics	Number of Buildings (thousand)					Total Floorspace (million square feet)					RSE Row Factor
	All Buildings	Any Conservation Features	Building Shell	HVAC	Lighting	All Buildings	Any Conservation Features	Building Shell	HVAC	Lighting	
	RSE Column Factor:	1.1	1.1	1.1	1.3	1.4	0.8	0.8	0.8	0.9	
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	3,380	3,380	3,380	2,215	1,759	46,355	46,355	46,355	38,639	32,858	4.4
Wall Insulation	2,372	2,372	2,372	1,637	1,289	31,694	31,694	31,694	26,952	22,975	4.9
Storm or Multiple Glazing	1,897	1,897	1,897	1,323	1,043	28,876	28,876	28,876	25,087	21,493	5.0
Tinted, Reflective or Shading Glass	1,202	1,202	1,202	856	651	24,245	24,245	24,245	21,789	19,123	5.6
Exterior or Interior Shading or Awnings	2,271	2,271	2,271	1,543	1,226	37,208	37,208	37,208	31,845	27,125	4.5
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	327	327	324	327	256	13,473	13,473	13,373	13,473	12,220	8.1
Economizer Cycle	461	461	452	461	335	16,550	16,550	16,419	16,550	14,482	6.6
HVAC Maintenance	2,403	2,403	2,319	2,403	1,487	43,134	43,134	41,849	43,134	32,859	4.4
Other Energy Efficient Equipment	198	198	194	198	139	6,453	6,453	6,394	6,453	5,677	10.8
Lighting Conservation Features (more than one may apply)											
Specular Reflectors	749	749	701	580	749	17,868	17,868	17,155	16,167	17,868	6.6
Energy-Efficient Ballasts	1,363	1,363	1,283	1,054	1,363	28,375	28,375	27,430	25,806	28,375	5.5
Natural Lighting Control Sensors	237	237	228	195	237	6,431	6,431	6,296	6,062	6,431	10.4
Occupancy Sensors	131	131	130	112	131	5,958	5,958	5,874	5,723	5,958	12.5
Time Clock	467	467	448	384	467	13,262	13,262	12,966	12,463	13,262	7.9
Manual Dimmer Switches	501	501	491	386	501	13,056	13,056	12,899	12,052	13,056	6.4
Other	79	79	73	67	79	2,836	2,836	2,755	2,708	2,836	16.2
Energy Conservation Features (more than one may apply)											
Any Conservation Features	4,075	4,075	3,906	2,529	2,084	55,288	55,288	53,190	44,657	38,537	4.0
Building Shell	3,906	3,906	3,906	2,443	1,963	53,190	53,190	53,190	43,329	36,922	4.0
HVAC	2,529	2,529	2,443	2,529	1,555	44,657	44,657	43,329	44,657	33,875	4.3
Lighting	2,084	2,084	1,963	1,555	2,084	38,537	38,537	36,922	33,875	38,537	4.5

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 42. Building Shell Conservation Features, Number of Buildings, 1995
(Thousand)

Building Characteristics	Types of Building Shell Conservation Features (more than one may apply)							RSE Row Factor
	All Buildings	Any Building Shell Conservation Features	Roof or Ceiling Insulation	Wall Insulation	Storms or Multiple Glazing	Tinted, Reflective or Shading Glass	Exterior or Interiors Shadings or Awnings	
RSE Column Factor:	0.8	0.9	0.9	1.0	1.1	1.3	1.0	
All Buildings	4,579	3,906	3,380	2,372	1,897	1,202	2,271	4.8
Building Floorspace (Square Feet)								
1,001 to 5,000	2,399	1,991	1,718	1,238	909	514	1,048	6.6
5,001 to 10,000	1,035	867	751	480	430	262	468	9.2
10,001 to 25,000	745	676	595	447	357	246	481	9.2
25,001 to 50,000	213	195	166	108	100	92	137	6.5
50,001 to 100,000	115	109	92	59	60	47	85	7.0
100,001 to 200,000	48	44	39	26	26	24	33	7.9
200,001 to 500,000	19	18	16	10	11	12	15	8.3
Over 500,000	6	6	5	4	3	4	4	9.6
Principal Building Activity								
Education	309	297	236	145	96	99	219	12.0
Food Sales	137	129	128	77	44	54	52	20.1
Food Service	285	259	216	173	128	89	131	13.2
Health Care	105	102	91	65	54	31	80	20.1
Lodging	158	156	134	103	82	22	102	14.9
Mercantile and Service	1,289	1,055	910	607	483	285	529	10.3
Office	705	696	634	519	454	310	561	8.8
Public Assembly	326	294	275	180	142	73	164	16.6
Public Order and Safety	87	80	77	56	50	8	43	28.4
Religious Worship	269	263	229	163	160	111	136	15.3
Warehouse and Storage	580	367	306	191	121	90	160	17.9
Other	67	60	58	40	38	Q	28	36.8
Vacant	261	148	86	54	45	17	67	20.9
Year Constructed								
1919 or Before	353	296	220	112	190	49	202	15.7
1920 to 1945	562	443	325	196	202	102	242	14.5
1946 to 1959	867	751	632	373	368	197	441	9.0
1960 to 1969	718	590	527	321	191	140	333	9.9
1970 to 1979	813	725	673	476	297	256	418	8.5
1980 to 1989	846	748	688	603	420	328	440	8.9
1990 to 1992	218	196	176	165	126	84	109	16.3
1993 to 1995	202	158	138	125	104	46	85	22.0
Floors								
One	3,018	2,475	2,169	1,521	1,017	780	1,292	6.3
Two	1,002	911	801	583	512	278	575	7.7
Three	399	378	301	194	268	81	286	12.5
Four to Nine	148	129	101	67	93	55	107	14.3
Ten or More	12	12	9	7	7	8	10	12.5
Census Region								
Northeast	725	625	552	391	407	109	331	13.2
Midwest	1,139	974	848	605	675	268	499	10.3
South	1,750	1,497	1,343	955	541	472	890	6.9
West	964	809	637	421	273	353	551	11.2

See footnotes at end of table.

Table 42. Building Shell Conservation Features, Number of Buildings, 1995
(Continued)
(Thousand)

Building Characteristics	Types of Building Shell Conservation Features (more than one may apply)							RSE Row Factor
	All Buildings	Any Building Shell Conservation Features	Roof or Ceiling Insulation	Wall Insulation	Storms or Multiple Glazing	Tinted, Reflective or Shading Glass	Exterior or Interior Shadings or Awnings	
	0.8	0.9	0.9	1.0	1.1	1.3	1.0	
Workers (main shift)								
Fewer than 5	2,505	1,956	1,642	1,120	863	493	962	7.3
5 to 9	798	731	642	469	380	228	423	10.7
10 to 19	625	598	550	378	312	184	410	10.1
20 to 49	400	378	331	258	212	153	292	8.9
50 to 99	138	130	112	76	60	69	95	9.2
100 to 249	71	70	64	43	41	43	57	9.4
250 or More	43	43	39	28	29	32	32	16.8
Weekly Operating Hours								
39 or Fewer	899	645	536	380	252	131	259	12.0
40 to 48	1,257	1,150	980	712	572	402	731	7.5
49 to 60	969	845	734	577	463	270	553	8.8
61 to 84	567	510	443	267	209	159	301	11.0
85 to 167	420	360	341	205	168	117	175	10.8
Open Continuously	466	394	347	231	231	123	252	11.1
Ownership and Occupancy								
Nongovernment Owned	4,025	3,437	2,975	2,123	1,703	1,070	1,976	5.1
Owner Occupied	3,158	2,762	2,434	1,785	1,466	856	1,563	5.7
Nonowner Occupied	698	595	494	304	212	208	395	10.9
Unoccupied	170	80	47	34	25	6	19	28.5
Government Owned	553	469	406	249	194	132	295	9.4
Energy Sources (more than one may apply)								
Electricity	4,343	3,833	3,333	2,355	1,869	1,200	2,265	4.7
Natural Gas	2,478	2,287	1,959	1,335	1,130	804	1,383	5.5
Fuel Oil	607	540	472	325	345	110	346	14.9
District Heat	110	107	93	57	45	40	69	19.8
District Chilled Water	53	53	46	32	24	27	32	29.3
Propane	589	561	496	386	324	132	297	14.4
Other	213	181	150	115	83	28	103	23.3
Primary Space-Heating Energy Source								
Electricity	1,007	941	845	672	406	305	651	10.0
Natural Gas	2,106	1,937	1,657	1,138	981	682	1,126	5.9
Fuel Oil	439	374	323	211	233	51	236	18.3
District Heat	107	105	91	56	44	38	68	20.2
Propane	260	254	230	177	156	77	115	18.8
Other	61	49	36	35	Q	Q	Q	40.5
Cooling Energy Sources (more than one may apply)								
Electricity	3,293	3,105	2,729	1,998	1,564	1,070	1,993	4.6
Natural Gas	65	64	49	41	38	16	47	27.8
District Chilled Water	53	53	46	32	24	27	32	29.3

See footnotes at end of table.

**Table 42. Building Shell Conservation Features, Number of Buildings, 1995
(Continued)
(Thousand)**

Building Characteristics	Types of Building Shell Conservation Features (more than one may apply)							RSE Row Factor
	All Buildings	Any Building Shell Conservation Features	Roof or Ceiling Insulation	Wall Insulation	Storms or Multiple Glazing	Tinted, Reflective or Shading Glass	Exterior or Interior Shadings or Awnings	
	0.8	0.9	0.9	1.0	1.1	1.3	1.0	
RSE Column Factor:								
Water-Heating Energy Sources (more than one may apply)								
Electricity	1,684	1,578	1,439	1,112	849	564	1,031	7.4
Natural Gas	1,577	1,482	1,242	814	717	501	899	7.5
Fuel Oil	120	118	105	74	84	17	62	30.5
District Heat	54	52	48	35	22	21	32	18.8
Propane	110	103	98	58	58	16	63	27.2
Cooking Energy Sources (more than one may apply)								
Electricity	487	464	414	317	248	172	285	10.9
Natural Gas	448	427	361	236	192	153	278	9.6
Propane	123	108	96	83	71	28	56	25.9
Energy End Uses (more than one may apply)								
Buildings with Space Heating	4,024	3,703	3,226	2,315	1,853	1,171	2,234	4.9
Buildings with Cooling	3,381	3,192	2,805	2,057	1,619	1,104	2,049	4.5
Buildings with Water Heating	3,486	3,273	2,881	2,043	1,688	1,086	2,037	5.1
Buildings with Cooking	828	783	671	483	390	276	499	7.1
Buildings with Manufacturing	204	186	157	126	80	42	108	19.7
Buildings with Electricity Generation	247	243	222	151	148	87	178	13.7
Percent of Floorspace Heated								
Not Heated	554	203	155	57	44	31	37	23.1
1 to 50	555	443	350	232	168	134	266	14.9
51 to 99	633	573	497	391	318	211	392	10.8
100	2,836	2,687	2,379	1,693	1,367	826	1,576	5.0
Percent of Floorspace Cooled								
Not Cooled	1,198	713	576	315	278	98	223	16.1
1 to 50	930	843	703	448	418	237	521	10.3
51 to 99	635	611	537	405	362	240	436	10.1
100	1,816	1,737	1,565	1,204	839	627	1,092	5.5
Percent Lit when Open								
Zero	36	Q	Q	Q	Q	Q	Q	46.9
1 to 50	666	548	443	315	287	183	330	11.4
51 to 99	745	697	614	439	329	231	457	12.3
100	2,814	2,516	2,226	1,560	1,236	774	1,445	5.8
Building Not in Use/ Electricity Not Used	318	136	90	56	43	7	39	23.9

See footnotes at end of table.

**Table 42. Building Shell Conservation Features, Number of Buildings, 1995
(Continued)**
(Thousand)

Building Characteristics	Types of Building Shell Conservation Features (more than one may apply)							RSE Row Factor
	All Buildings	Any Building Shell Conservation Features	Roof or Ceiling Insulation	Wall Insulation	Storms or Multiple Glazing	Tinted, Reflective or Shading Glass	Exterior or Interior Shadings or Awnings	
	0.8	0.9	0.9	1.0	1.1	1.3	1.0	
Percent Lit when Closed								
Zero	1,644	1,389	1,206	841	576	356	749	9.6
1 to 50	2,109	1,917	1,678	1,203	1,016	692	1,195	5.9
51 to 100	87	80	70	41	33	24	37	26.5
Never Closed	421	384	337	231	228	123	251	10.9
Building Not in Use/ Electricity Not Used	318	136	90	56	43	7	39	23.9
Building Shell Conservation Features (more than one may apply)								
Roof or Ceiling Insulation	3,380	3,380	3,380	2,232	1,688	1,048	1,913	5.0
Wall Insulation	2,372	2,372	2,232	2,372	1,398	775	1,393	5.3
Storm or Multiple Glazing	1,897	1,897	1,688	1,398	1,897	733	1,231	6.2
Tinted, Reflective or Shading Glass	1,202	1,202	1,048	775	733	1,202	859	6.7
Exterior or Interior Shading or Awnings	2,271	2,271	1,913	1,393	1,231	859	2,271	5.5
HVAC Conservation Features (more than one may apply)								
Variable Air-Volume System	327	324	295	241	239	179	223	12.5
Economizer Cycle	461	452	405	310	302	222	296	9.6
HVAC Maintenance	2,403	2,319	2,111	1,545	1,260	812	1,482	5.8
Other Energy Efficient Equipment	198	194	171	141	98	74	114	18.0

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 43. Building Shell Conservation Features, Floorspace, 1995
(Million Square Feet)

Building Characteristics	Types of Building Shell Conservation Features (more than one may apply)							RSE Row Factor
	All Buildings	Any Building Shell Conservation Features	Roof or Ceiling Insulation	Wall Insulation	Storms or Multiple Glazing	Tinted, Reflective or Shading Glass	Exterior or Interior Shadings or Awnings	
	0.9	0.9	1.0	1.1	1.1	1.1	1.0	
RSE Column Factor:	0.9	0.9	1.0	1.1	1.1	1.1	1.0	
All Buildings	58,772	53,190	46,355	31,694	28,876	24,245	37,208	3.9
Building Floorspace (Square Feet)								
1,001 to 5,000	6,338	5,346	4,631	3,384	2,475	1,353	2,806	6.4
5,001 to 10,000	7,530	6,344	5,487	3,503	3,220	1,869	3,470	9.2
10,001 to 25,000	11,617	10,491	9,236	6,846	5,550	3,836	7,514	8.6
25,001 to 50,000	7,676	7,021	5,961	3,906	3,638	3,365	4,934	6.8
50,001 to 100,000	7,968	7,530	6,400	4,090	4,235	3,366	5,864	6.7
100,001 to 200,000	6,776	6,217	5,529	3,633	3,598	3,372	4,700	8.0
200,001 to 500,000	5,553	5,237	4,684	3,120	3,345	3,486	4,454	8.8
Over 500,000	5,313	5,005	4,425	3,211	2,815	3,598	3,467	9.5
Principal Building Activity								
Education	7,740	7,519	6,409	3,637	3,588	2,778	6,010	8.2
Food Sales	642	609	591	359	218	237	284	15.8
Food Service	1,353	1,278	1,004	842	733	501	784	14.3
Health Care	2,333	2,328	2,199	1,701	1,782	1,661	2,106	9.7
Lodging	3,618	3,556	3,010	2,444	2,433	1,253	2,520	11.2
Mercantile and Service	12,728	11,369	10,088	6,664	5,156	4,713	6,335	8.5
Office	10,478	10,395	9,182	7,021	6,867	6,831	9,229	6.5
Public Assembly	3,948	3,682	3,226	2,041	1,944	1,663	2,448	11.4
Public Order and Safety	1,271	1,056	1,021	602	653	371	650	20.7
Religious Worship	2,792	2,720	2,397	1,724	1,954	1,166	1,686	12.6
Warehouse and Storage	8,481	6,261	5,382	3,371	2,424	2,337	3,716	13.3
Other	1,004	967	895	656	606	424	675	24.5
Vacant	2,384	1,450	952	631	518	309	765	17.5
Year Constructed								
1919 or Before	3,673	3,275	2,435	1,326	2,134	806	2,430	11.8
1920 to 1945	6,710	5,232	3,801	1,944	2,484	1,513	3,571	11.2
1946 to 1959	9,298	8,561	7,382	4,133	4,085	2,922	5,965	8.8
1960 to 1969	10,858	9,591	8,387	4,829	3,913	3,757	6,504	6.9
1970 to 1979	11,333	10,572	9,678	6,740	5,191	5,540	7,194	6.0
1980 to 1989	12,252	11,607	10,589	9,116	7,507	6,964	8,492	6.9
1990 to 1992	2,590	2,483	2,339	2,098	2,001	1,651	1,732	10.2
1993 to 1995	2,059	1,868	1,745	1,508	1,562	1,093	1,321	12.6
Floors								
One	24,552	20,888	18,412	12,718	9,077	8,007	12,524	6.3
Two	14,122	13,317	11,936	8,067	6,920	5,768	8,975	6.1
Three	7,335	6,930	5,810	3,775	4,652	2,785	5,510	9.3
Four to Nine	8,789	8,192	7,002	4,780	5,840	4,996	6,976	6.8
Ten or More	3,975	3,863	3,195	2,353	2,387	2,689	3,223	9.9
Census Region								
Northeast	11,883	10,464	9,040	5,927	6,442	3,585	7,033	8.8
Midwest	14,322	13,162	11,620	8,467	9,464	5,474	8,698	7.1
South	20,830	18,757	16,743	11,878	8,475	8,976	13,138	6.5
West	11,736	10,806	8,952	5,422	4,495	6,210	8,339	8.6

See footnotes at end of table.

Table 43. Building Shell Conservation Features, Floorspace, 1995 (Continued)
(Million Square Feet)

Building Characteristics	Types of Building Shell Conservation Features (more than one may apply)							RSE Row Factor
	All Buildings	Any Building Shell Conservation Features	Roof or Ceiling Insulation	Wall Insulation	Storms or Multiple Glazing	Tinted, Reflective or Shading Glass	Exterior or Interior Shadings or Awnings	
RSE Column Factor:	0.9	0.9	1.0	1.1	1.1	1.1	1.0	
Workers (main shift)								
Fewer than 5	13,885	10,568	8,643	5,737	5,013	2,932	5,326	8.4
5 to 9	6,291	5,689	4,861	3,423	2,873	1,739	3,420	10.9
10 to 19	7,102	6,621	5,899	3,939	3,180	2,237	4,582	7.9
20 to 49	9,132	8,524	7,531	5,414	4,557	3,369	6,605	6.5
50 to 99	6,931	6,504	5,603	3,688	3,819	3,307	5,025	7.6
100 to 249	5,988	5,875	5,362	3,485	3,428	3,694	4,779	7.9
250 or More	9,443	9,409	8,456	6,008	6,006	6,968	7,472	6.9
Weekly Operating Hours								
39 or Fewer	6,134	4,482	3,616	2,398	1,889	1,090	1,979	10.2
40 to 48	13,233	11,977	10,340	6,798	6,484	5,266	8,796	8.1
49 to 60	12,242	11,170	9,621	7,118	6,051	5,255	8,379	6.4
61 to 84	10,052	9,590	8,510	5,355	4,830	4,637	6,318	7.6
85 to 167	6,202	5,560	5,074	3,042	2,740	2,595	3,719	8.9
Open Continuously	10,908	10,411	9,194	6,982	6,883	5,402	8,016	6.2
Ownership and Occupancy								
Nongovernment Owned	46,696	42,074	36,498	26,016	23,322	19,496	28,878	4.4
Owner Occupied	35,573	32,739	28,681	20,899	19,243	15,089	22,376	4.6
Nonowner Occupied	9,697	8,630	7,379	4,823	3,860	4,271	6,194	8.9
Unoccupied	1,426	706	439	293	219	137	309	26.3
Government Owned	12,076	11,116	9,856	5,678	5,554	4,749	8,330	6.2
Energy Sources (more than one may apply)								
Electricity	57,076	52,520	45,886	31,505	28,606	24,184	37,011	3.9
Natural Gas	38,145	36,114	31,323	21,272	20,125	16,871	25,919	4.6
Fuel Oil	14,421	13,875	12,325	8,690	9,453	7,670	10,705	6.7
District Heat	5,658	5,502	4,820	2,972	3,016	2,876	4,144	9.5
District Chilled Water	2,521	2,501	2,215	1,470	1,560	1,692	1,991	11.5
Propane	5,344	5,122	4,474	3,648	3,252	1,835	3,378	13.4
Other	2,336	2,014	1,735	1,204	1,302	878	1,675	15.9
Primary Space-Heating Energy Source								
Electricity	13,500	12,858	11,636	8,959	6,688	7,118	9,796	7.3
Natural Gas	28,808	27,193	23,631	15,840	15,265	12,152	18,696	4.9
Fuel Oil	4,207	3,779	3,164	1,872	2,256	993	2,744	14.1
District Heat	5,289	5,132	4,484	2,763	2,755	2,651	3,882	9.4
Propane	1,545	1,497	1,272	1,086	941	468	813	21.8
Other	514	441	321	302	Q	Q	Q	32.5
Cooling Energy Sources (more than one may apply)								
Electricity	47,761	45,507	40,331	28,314	25,484	22,022	32,991	4.0
Natural Gas	1,314	1,301	1,088	831	836	681	1,112	17.3
District Chilled Water	2,521	2,501	2,215	1,470	1,560	1,692	1,991	11.5

See footnotes at end of table.

Table 43. Building Shell Conservation Features, Floorspace, 1995 (Continued)
(Million Square Feet)

Building Characteristics	Types of Building Shell Conservation Features (more than one may apply)							RSE Row Factor
	All Buildings	Any Building Shell Conservation Features	Roof or Ceiling Insulation	Wall Insulation	Storms or Multiple Glazing	Tinted, Reflective or Shading Glass	Exterior or Interior Shadings or Awnings	
RSE Column Factor:	0.9	0.9	1.0	1.1	1.1	1.1	1.0	
Water-Heating Energy Sources (more than one may apply)								
Electricity	23,056	21,832	19,830	14,748	12,417	11,165	15,461	6.7
Natural Gas	24,859	23,753	20,307	13,431	13,186	10,986	17,382	5.0
Fuel Oil	2,151	2,089	1,845	1,016	1,177	548	1,638	16.1
District Heat	3,949	3,873	3,418	2,046	2,001	2,033	2,924	11.1
Propane	1,020	992	850	635	540	317	758	20.6
Cooking Energy Sources (more than one may apply)								
Electricity	12,249	12,003	10,824	7,758	6,895	6,899	8,719	6.9
Natural Gas	13,195	12,831	11,257	7,567	7,552	6,749	9,603	5.9
Propane	1,480	1,358	1,142	986	859	477	1,001	21.4
Energy End Uses (more than one may apply)								
Buildings with Space Heating	54,347	51,383	44,941	31,112	28,454	23,686	36,667	4.0
Buildings with Cooling	49,935	47,666	42,198	29,545	26,701	23,202	34,641	4.0
Buildings with Water Heating	51,560	49,132	43,107	29,797	27,490	23,268	35,510	4.0
Buildings with Cooking	20,713	20,126	17,680	12,352	11,768	10,663	15,086	4.8
Buildings with Manufacturing	3,893	3,695	3,321	2,272	1,596	1,557	2,726	11.7
Buildings with Electricity Generation	13,366	13,232	11,939	8,557	8,752	8,385	10,537	6.1
Percent of Floorspace Heated								
Not Heated	4,425	1,807	1,414	582	422	559	541	23.3
1 to 50	6,227	5,009	3,953	2,612	2,048	2,040	3,348	13.7
51 to 99	8,868	8,471	7,499	5,494	4,642	4,188	6,279	9.0
100	39,252	37,903	33,488	23,006	21,765	17,458	27,040	4.1
Percent of Floorspace Cooled								
Not Cooled	8,837	5,525	4,157	2,148	2,175	1,043	2,567	13.2
1 to 50	15,027	13,623	11,596	7,053	6,949	4,903	9,387	8.0
51 to 99	12,549	12,314	10,941	7,915	7,579	6,891	9,573	6.6
100	22,359	21,729	19,662	14,577	12,173	11,408	15,681	5.2
Percent Lit when Open								
Zero	189	Q	Q	Q	Q	Q	Q	32.2
1 to 50	6,008	4,875	3,762	2,685	2,553	1,791	3,303	9.8
51 to 99	9,692	9,178	8,106	5,834	5,066	4,133	7,081	8.1
100	40,514	37,879	33,635	22,646	20,827	18,148	26,322	4.3
Building Not in Use/ Electricity Not Used	2,369	1,196	801	508	419	144	496	19.5

See footnotes at end of table.

Table 43. Building Shell Conservation Features, Floorspace, 1995 (Continued)
(Million Square Feet)

Building Characteristics	Types of Building Shell Conservation Features (more than one may apply)							RSE Row Factor
	All Buildings	Any Building Shell Conservation Features	Roof or Ceiling Insulation	Wall Insulation	Storms or Multiple Glazing	Tinted, Reflective or Shading Glass	Exterior or Interior Shadings or Awnings	
RSE Column Factor:	0.9	0.9	1.0	1.1	1.1	1.1	1.0	
Building Shell Conservation Features (more than one may apply)								
Roof or Ceiling Insulation	46,355	46,355	46,355	29,919	25,882	21,522	32,169	4.2
Wall Insulation	31,694	31,694	29,919	31,694	20,737	15,475	22,463	4.7
Storm or Multiple Glazing	28,876	28,876	25,882	20,737	28,876	16,231	22,098	4.4
Tinted, Reflective or Shading Glass	24,245	24,245	21,522	15,475	16,231	24,245	19,355	4.4
Exterior or Interior Shading or Awnings	37,208	37,208	32,169	22,463	22,098	19,355	37,208	4.0
HVAC Conservation Features (more than one may apply)								
Variable Air-Volume System	13,473	13,373	12,310	9,373	9,347	9,407	10,782	6.3
Economizer Cycle	16,550	16,419	14,913	10,897	11,264	10,566	12,904	5.6
HVAC Maintenance	43,134	41,849	37,489	26,005	24,403	21,177	31,019	4.3
Other Energy Efficient Equipment	6,453	6,394	5,692	4,156	4,150	4,194	5,059	7.8

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 44. Reduction in Equipment Use During Off Hours, Number of Buildings and Floorspace, 1995

Building Characteristics	Number of Buildings (thousand)				Total Floorspace (million square feet)				RSE Row Factor
	All Buildings	Off-Hour Equipment Reduction (more than one may apply)			All Buildings	Off-Hour Equipment Reduction (more than one may apply)			
		Heating	Cooling	Lighting		Heating	Cooling	Lighting	
		1.0	1.2	1.2		1.1	0.8	1.0	
RSE Column Factor:	1.0	1.2	1.2	1.1	0.8	1.0	1.0	0.9	
All Buildings	4,579	3,211	2,707	3,753	58,772	38,326	35,605	44,937	4.0
Building Floorspace (Square Feet)									
1,001 to 5,000	2,399	1,707	1,353	1,975	6,338	4,531	3,582	5,235	5.2
5,001 to 10,000	1,035	715	622	851	7,530	5,283	4,620	6,242	8.3
10,001 to 25,000	745	518	474	610	11,617	8,095	7,442	9,499	8.1
25,001 to 50,000	213	149	143	176	7,676	5,363	5,160	6,356	6.6
50,001 to 100,000	115	78	73	91	7,968	5,312	5,048	6,266	6.3
100,001 to 200,000	48	32	30	36	6,776	4,460	4,251	5,051	7.9
200,001 to 500,000	19	9	9	12	5,553	2,721	2,692	3,436	8.9
Over 500,000	6	3	3	3	5,313	2,561	2,809	2,851	12.1
Principal Building Activity									
Education	309	278	228	303	7,740	7,059	6,116	7,378	9.0
Food Sales	137	69	74	103	642	272	297	442	15.6
Food Service	285	246	240	272	1,353	1,055	1,057	1,225	12.0
Health Care	105	68	68	80	2,333	516	534	600	19.3
Lodging	158	20	14	15	3,618	225	209	234	27.5
Mercantile and Service	1,289	1,060	809	1,186	12,728	10,118	9,399	11,525	7.8
Office	705	580	574	662	10,478	7,758	7,881	8,945	7.2
Public Assembly	326	259	203	311	3,948	2,892	2,482	3,385	12.0
Public Order and Safety	87	44	7	54	1,271	463	247	628	27.7
Religious Worship	269	239	195	242	2,792	2,578	2,228	2,605	11.9
Warehouse and Storage	580	277	230	418	8,481	4,583	4,336	6,666	13.0
Other	67	19	25	51	1,004	384	410	757	27.5
Vacant	261	52	41	56	2,384	423	410	548	20.3
Year Constructed									
1919 or Before	353	256	222	297	3,673	2,497	2,187	2,991	13.2
1920 to 1945	562	371	278	439	6,710	4,158	3,547	4,898	9.8
1946 to 1959	867	652	527	729	9,298	6,632	5,759	7,599	8.3
1960 to 1969	718	513	397	591	10,858	6,680	6,105	8,052	8.2
1970 to 1979	813	572	552	700	11,333	7,537	7,542	8,760	6.7
1980 to 1989	846	606	536	674	12,252	7,954	7,819	9,248	8.0
1990 to 1992	218	149	120	180	2,590	1,749	1,621	1,984	12.8
1993 to 1995	202	92	76	143	2,059	1,119	1,024	1,404	18.6
Floors									
One	3,018	2,088	1,731	2,472	24,552	16,656	15,123	20,143	5.4
Two	1,002	745	625	826	14,122	9,902	9,198	11,389	6.2
Three	399	297	264	349	7,335	5,297	4,866	6,062	10.0
Four to Nine	148	74	80	99	8,789	4,478	4,402	5,273	11.5
Ten or More	12	7	7	7	3,975	1,992	2,015	2,070	14.9
Census Region									
Northeast	725	541	369	603	11,883	7,907	6,730	8,675	9.9
Midwest	1,139	769	629	938	14,322	9,066	8,142	11,152	8.2
South	1,750	1,230	1,142	1,424	20,830	13,370	13,423	15,899	5.9
West	964	671	567	788	11,736	7,983	7,310	9,211	9.8

See footnotes at end of table.

Table 44. Reduction in Equipment Use During Off Hours, Number of Buildings and Floorspace, 1995 (Continued)

Building Characteristics	Number of Buildings (thousand)				Total Floorspace (million square feet)				RSE Row Factor
	All Buildings	Off-Hour Equipment Reduction (more than one may apply)			All Buildings	Off-Hour Equipment Reduction (more than one may apply)			
		Heating	Cooling	Lighting		Heating	Cooling	Lighting	
		1.0	1.2	1.2		1.1	0.8	1.0	
RSE Column Factor:									
Workers (main shift)									
Fewer than 5	2,505	1,590	1,219	1,890	13,885	8,134	6,484	9,874	7.0
5 to 9	798	640	570	735	6,291	4,759	4,270	5,472	9.2
10 to 19	625	527	480	573	7,102	5,562	5,250	6,277	8.1
20 to 49	400	279	265	351	9,132	6,343	6,013	7,631	7.7
50 to 99	138	98	98	118	6,931	4,582	4,316	5,493	8.5
100 to 249	71	47	48	55	5,988	3,893	3,971	4,499	8.2
250 or More	43	29	28	32	9,443	5,054	5,301	5,690	12.6
Weekly Operating Hours									
39 or Fewer	899	517	345	654	6,134	3,340	2,448	4,123	10.3
40 to 48	1,257	1,093	954	1,229	13,233	11,083	10,156	12,953	6.6
49 to 60	969	824	725	924	12,242	10,592	10,068	11,939	7.2
61 to 84	567	474	396	555	10,052	8,293	8,063	9,951	8.0
85 to 167	420	303	286	391	6,202	5,017	4,871	5,970	7.9
Open Continuously	466	--	--	--	10,908	--	--	--	8.6
Ownership and Occupancy									
Nongovernment Owned	4,025	2,846	2,438	3,307	46,696	30,267	28,437	35,675	4.4
Owner Occupied	3,158	2,292	1,932	2,669	35,573	22,943	21,348	27,042	4.7
Nonowner Occupied	698	539	498	630	9,697	7,235	7,017	8,557	8.8
Unoccupied	170	Q	Q	Q	1,426	Q	Q	Q	22.4
Government Owned	553	365	269	446	12,076	8,059	7,168	9,262	7.2
Energy Sources (more than one may apply)									
Electricity	4,343	3,200	2,706	3,753	57,076	38,172	35,500	44,937	4.0
Natural Gas	2,478	1,973	1,729	2,165	38,145	26,496	24,583	29,458	4.7
Fuel Oil	607	467	280	508	14,421	8,558	7,639	9,550	9.8
District Heat	110	62	58	77	5,658	2,748	2,610	3,306	15.8
District Chilled Water	53	38	38	41	2,521	1,454	1,482	1,595	21.3
Propane	589	470	337	507	5,344	4,049	3,317	4,362	13.6
Other	213	160	88	184	2,336	1,752	1,485	1,870	17.6
Primary Space-Heating Energy Source									
Electricity	1,007	755	687	862	13,500	9,286	9,182	10,796	8.9
Natural Gas	2,106	1,732	1,530	1,884	28,808	21,051	19,368	23,170	5.0
Fuel Oil	439	355	201	381	4,207	3,292	2,405	3,484	14.1
District Heat	107	60	56	75	5,289	2,619	2,464	3,160	16.1
Propane	260	219	142	229	1,545	1,341	982	1,378	19.2
Other	61	54	Q	55	514	462	Q	474	30.2
Cooling Energy Sources (more than one may apply)									
Electricity	3,293	2,566	2,642	2,898	47,761	33,066	34,193	37,851	4.0
Natural Gas	65	57	58	59	1,314	763	794	865	21.5
District Chilled Water	53	38	38	41	2,521	1,454	1,482	1,595	21.3

See footnotes at end of table.

Table 44. Reduction in Equipment Use During Off Hours, Number of Buildings and Floorspace, 1995 (Continued)

Building Characteristics	Number of Buildings (thousand)				Total Floorspace (million square feet)				RSE Row Factor
	All Buildings	Off-Hour Equipment Reduction (more than one may apply)			All Buildings	Off-Hour Equipment Reduction (more than one may apply)			
		Heating	Cooling	Lighting		Heating	Cooling	Lighting	
		1.0	1.2	1.2		1.1	0.8	1.0	
RSE Column Factor:	1.0	1.2	1.2	1.1	0.8	1.0	1.0	0.9	
Cooking Energy Sources (more than one may apply)									
Electricity	487	386	337	433	12,249	8,043	7,885	8,985	8.0
Natural Gas	448	333	309	375	13,195	8,048	7,515	8,731	7.8
Propane	123	101	90	114	1,480	1,177	1,020	1,232	20.5
Energy End Uses (more than one may apply)									
Buildings with Space Heating	4,024	3,211	2,654	3,522	54,347	38,326	34,890	42,747	4.2
Buildings with Cooling	3,381	2,630	2,707	2,964	49,935	34,434	35,605	39,237	4.0
Buildings with Water Heating	3,486	2,702	2,343	3,021	51,560	35,438	33,195	40,160	4.3
Buildings with Cooking	828	635	569	716	20,713	13,458	12,781	14,863	5.6
Buildings with Manufacturing	204	133	124	186	3,893	2,576	2,501	3,153	14.0
Buildings with Electricity Generation	247	136	106	160	13,366	6,910	6,969	7,919	10.8
Percent of Floorspace Heated									
Not Heated	554	--	53	231	4,425	--	716	2,189	18.7
1 to 50	555	452	334	491	6,227	4,883	4,186	5,268	11.7
51 to 99	633	488	414	540	8,868	5,972	5,640	6,754	9.9
100	2,836	2,271	1,907	2,491	39,252	27,471	25,064	30,725	4.3
Percent of Floorspace Cooled									
Not Cooled	1,198	581	--	789	8,837	3,892	--	5,700	11.6
1 to 50	930	768	804	860	15,027	11,407	11,744	12,876	7.7
51 to 99	635	469	471	531	12,549	8,027	8,321	9,058	7.5
100	1,816	1,393	1,433	1,572	22,359	15,000	15,540	17,303	5.0
Percent Lit when Open									
Zero	36	Q	Q	--	189	Q	Q	--	37.2
1 to 50	666	458	407	561	6,008	4,169	3,850	5,052	9.6
51 to 99	745	614	503	677	9,692	7,073	6,339	8,017	9.7
100	2,814	2,121	1,795	2,515	40,514	26,896	25,291	31,867	4.7
Building Not in Use/ Electricity Not Used	318	Q	Q	--	2,369	Q	Q	--	18.0
Percent Lit when Closed									
Zero	1,644	1,330	1,005	1,620	13,101	10,600	8,918	12,947	7.8
1 to 50	2,109	1,806	1,640	2,083	30,711	26,033	25,054	30,513	4.7
51 to 100	87	64	61	50	1,914	1,534	1,524	1,477	19.7
Never Closed	421	--	--	--	10,677	--	--	--	8.3
Building Not in Use/ Electricity Not Used	318	Q	Q	--	2,369	Q	Q	--	18.0
Heating Equipment (more than one may apply)									
Heat Pumps	394	286	286	350	5,843	3,544	3,608	4,348	8.3
Furnaces	1,676	1,442	1,121	1,511	14,923	11,429	9,871	12,420	6.9
Individual Space Heaters	1,188	955	711	1,018	16,809	11,642	10,422	12,996	8.0
District Heat	115	65	61	81	5,911	2,890	2,684	3,456	15.5
Boilers	610	433	333	484	16,754	11,213	10,137	12,354	7.1
Packaged Heating Units	1,031	818	807	904	16,893	11,739	11,643	13,279	6.2
Other	161	122	92	150	6,249	4,135	3,906	4,444	16.1

See footnotes at end of table.

Table 44. Reduction in Equipment Use During Off Hours, Number of Buildings and Floorspace, 1995 (Continued)

Building Characteristics	Number of Buildings (thousand)				Total Floorspace (million square feet)				RSE Row Factor
	All Buildings	Off-Hour Equipment Reduction (more than one may apply)			All Buildings	Off-Hour Equipment Reduction (more than one may apply)			
		Heating	Cooling	Lighting		Heating	Cooling	Lighting	
		1.0	1.2	1.2		1.1	0.8	1.0	
RSE Column Factor:	1.0	1.2	1.2	1.1	0.8	1.0	1.0	0.9	
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	878	708	720	790	9,238	6,403	6,598	7,189	7.2
Heat Pumps	457	330	330	392	6,931	4,277	4,372	5,115	7.9
Individual Air Conditioners	862	648	690	726	12,494	7,812	8,204	8,828	7.1
District Chilled Water	53	38	38	41	2,521	1,454	1,482	1,595	21.3
Central Chillers	109	66	68	79	11,065	6,226	6,477	7,092	9.5
Packaged Air Conditioning Units	1,431	1,122	1,152	1,244	26,628	18,360	18,870	20,799	5.6
Swamp Coolers	186	153	154	165	2,451	1,569	1,599	1,706	20.9
Other	18	13	13	12	949	612	602	601	19.6
Lighting Equipment Types (more than one may apply)									
Incandescent	2,479	1,886	1,674	2,160	35,715	23,405	22,292	27,345	4.5
Standard Fluorescent	3,885	2,987	2,546	3,464	53,984	37,086	34,745	43,074	4.0
Compact Fluorescent	364	253	248	289	14,273	8,648	8,639	9,705	9.2
High-Intensity Discharge	393	290	254	337	16,259	10,305	9,685	11,851	8.3
Halogen	302	226	217	244	9,665	6,062	6,133	6,767	10.0
Other	30	Q	Q	Q	554	Q	Q	Q	46.2
Energy Conservation Features (more than one may apply)									
Any Conservation Features	4,075	3,068	2,613	3,502	55,288	37,396	34,804	43,066	4.0
Building Shell	3,906	2,949	2,536	3,342	53,190	36,006	33,692	41,174	4.1
HVAC	2,529	1,978	1,736	2,186	44,657	30,509	28,838	34,326	4.8
Lighting	2,084	1,590	1,351	1,855	38,537	25,770	24,224	29,856	4.8
Off-Hour Equipment Reduction (more than one may apply)									
Heating	3,211	3,211	2,597	3,168	38,326	38,326	33,968	37,919	4.3
Cooling	2,707	2,597	2,707	2,681	35,605	33,968	35,605	35,259	4.2
Lighting	3,753	3,168	2,681	3,753	44,937	37,919	35,259	44,937	4.2

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

-- = Data not applicable.

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

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