

Energy Consumption & Expenditures

Consumption and Intensity by: Building Size (10 pages, 64 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> <p>Electronic Products and Services</p> <p>Users can view and download selected pages, sections, or entire reports, search for information, download data and analysis applications, and find out about new information products and services.</p> <p>Contact: Martha Johnson, Survey Manager (martha.johnson@eia.doe.gov)</p> <p>World Wide Web: http://www.eia.doe.gov/emeu/consumption</p>	

**Table 7. Consumption and Gross Energy Intensity by Building Size for
Sum of Major Fuels, 1995**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	RSE Column Factor: 1.4	1.0	1.2	1.0	0.8	0.8	1.2	0.8	1.0	
All Buildings	1,332	2,152	1,838	13,869	27,261	17,643	96.0	78.9	104.2	5.80
Principal Building Activity										
Education	71	352	191	654	4,623	2,464	108.1	76.1	77.7	11.73
Food Sales	78	59	Q	367	269	Q	212.6	217.2	Q	17.95
Food Service	265	66	Q	940	406	Q	281.5	161.9	Q	21.21
Health Care	36	82	443	294	556	1,483	122.4	148.2	298.3	16.60
Lodging	53	236	172	419	1,873	1,327	125.5	126.2	129.5	16.29
Mercantile and Service	363	396	214	4,043	5,393	3,292	89.7	73.4	65.1	14.78
Office	172	401	445	1,999	4,416	4,063	86.3	90.8	109.6	9.87
Public Assembly	Q	193	115	1,098	1,924	925	Q	100.0	124.0	16.99
Public Order and Safety	22	63	Q	233	755	283	92.8	83.3	Q	30.58
Religious Worship	41	62	Q	964	1,797	Q	42.3	34.8	Q	16.57
Warehouse and Storage	65	136	123	1,798	3,842	2,842	36.2	35.4	43.4	16.79
Other	Q	84	79	Q	531	308	Q	157.4	256.0	30.87
Vacant	Q	23	Q	896	876	611	Q	26.5	Q	34.34
Year Constructed										
1919 or Before	100	105	Q	1,198	1,750	724	83.2	60.0	120.0	18.55
1920 to 1945	142	209	157	1,836	2,586	2,288	77.2	80.8	68.8	13.78
1946 to 1959	263	352	212	2,890	4,495	1,914	91.0	78.3	110.6	13.47
1960 to 1969	198	447	380	2,021	5,265	3,572	97.8	84.8	106.3	10.80
1970 to 1979	218	402	505	2,432	4,861	4,040	89.5	82.8	125.0	11.31
1980 to 1989	273	448	339	2,189	6,326	3,737	124.6	70.8	90.6	12.07
1990 to 1992	101	91	105	684	1,038	868	147.6	87.8	120.6	18.23
1993 to 1995	39	98	53	620	940	499	62.1	104.2	107.1	22.33
Floors										
One	936	730	180	9,237	11,215	4,099	101.3	65.1	43.9	9.58
Two	263	665	193	3,244	8,009	2,869	81.2	83.1	67.3	10.35
Three	109	360	206	1,100	4,402	1,833	98.8	81.9	112.1	12.49
Four to Nine	23	378	828	284	3,488	5,017	82.8	108.2	165.0	14.56
Ten or More	Q	Q	431	Q	148	3,824	Q	Q	112.8	13.54
Census Region and Division										
Northeast	207	376	452	2,218	4,869	4,796	93.2	77.3	94.3	11.47
New England	48	119	108	566	1,550	1,024	84.0	76.7	105.0	16.86
Middle Atlantic	159	257	345	1,652	3,319	3,771	96.4	77.6	91.4	13.72
Midwest	350	601	546	3,450	6,347	4,525	101.5	94.7	120.6	10.47
East North Central	215	413	359	2,249	4,121	3,285	95.5	100.2	109.2	10.49
West North Central	135	188	187	1,201	2,227	1,241	112.7	84.4	150.7	21.47
South	436	717	531	5,214	10,126	5,491	83.6	70.8	96.7	9.03
South Atlantic	183	294	295	2,124	4,398	2,954	86.4	66.9	99.8	13.17
East South Central	119	211	87	1,348	2,667	902	88.2	79.2	96.4	17.78
West South Central	133	211	150	1,742	3,061	1,635	76.6	69.0	91.4	12.83
West	339	458	309	2,987	5,919	2,831	113.6	77.4	109.0	14.89
Mountain	Q	198	91	924	2,145	786	Q	92.4	115.9	18.80
Pacific	200	260	217	2,063	3,774	2,044	96.7	68.8	106.3	14.89
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	125	217	157	1,525	2,526	1,047	81.8	86.1	149.6	16.06
5,500-7,000 HDD	400	628	564	2,858	6,571	5,168	139.8	95.5	109.1	11.42
4,000-5,499 HDD	308	519	580	3,490	5,999	5,667	88.4	86.5	102.3	13.85
Fewer than 4,000 HDD	290	467	320	3,080	7,121	3,289	94.2	65.6	97.3	12.65
More than 2,000 CDD and --										
Fewer than 4,000 HDD	209	320	217	2,916	5,043	2,472	71.6	63.5	87.8	13.93

See footnotes at end of table.

**Table 7. Consumption and Gross Energy Intensity by Building Size for
Sum of Major Fuels, 1995 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.4	1.0	1.2	1.0	0.8	0.8	1.2	0.8	1.0	
Workers (main shift)										
Fewer than 5	585	193	Q	7,820	5,094	971	74.8	37.9	Q	13.87
5 to 9	304	194	Q	2,810	3,187	294	108.1	60.8	Q	15.40
10 to 19	265	319	30	2,332	4,055	715	113.6	78.8	41.5	16.48
20 to 49	157	628	84	841	7,220	1,071	186.3	86.9	78.6	14.33
50 to 99	Q	401	209	Q	4,320	2,562	Q	92.8	81.8	11.24
100 to 249	Q	315	332	Q	2,540	3,432	Q	123.8	96.7	11.27
250 or More	Q	103	1,160	Q	846	8,598	Q	121.4	134.9	13.33
Weekly Operating Hours										
39 or Fewer	102	68	Q	3,163	2,356	615	32.2	28.9	Q	16.84
40 to 48	308	424	147	3,734	7,139	2,360	82.5	59.4	62.3	13.39
49 to 60	223	440	274	2,972	6,562	2,709	75.0	67.1	101.2	12.04
61 to 84	190	344	262	1,673	4,409	3,970	113.4	78.1	66.0	10.37
85 to 167	332	287	211	1,121	2,761	2,320	296.2	104.1	91.1	14.83
Open Continuously	177	588	933	1,206	4,034	5,669	147.0	145.8	164.6	10.46
Ownership and Occupancy										
Nongovernment Owned	1,137	1,591	1,221	12,315	21,480	12,901	92.4	74.1	94.7	6.27
Owner Occupied	930	1,284	1,073	9,770	15,773	10,030	95.2	81.4	107.0	7.03
Nonowner Occupied	200	302	144	1,976	5,278	2,443	101.4	57.3	59.1	12.22
Unoccupied	Q	Q	Q	569	429	Q	Q	Q	Q	31.89
Government Owned	194	561	616	1,553	5,781	4,742	125.1	97.1	130.0	12.76
Federal	Q	71	173	257	490	1,005	Q	145.5	172.4	32.20
State	36	177	226	239	1,164	1,447	149.2	151.8	155.8	19.96
Local	137	313	217	1,057	4,126	2,290	129.9	75.9	95.0	15.84
Space in Building Vacant for at Least Three Consecutive Months										
Yes	99	434	587	2,166	6,321	7,357	45.7	68.6	79.8	12.21
No	1,233	1,718	1,251	11,703	20,940	10,285	105.3	82.0	121.6	6.68
Energy Sources (more than one may apply)										
Electricity	1,330	2,149	1,833	13,014	26,840	17,222	102.2	80.1	106.4	5.68
Natural Gas	885	1,644	1,402	7,440	18,410	12,296	118.9	89.3	114.0	6.72
Fuel Oil	136	512	1,084	1,625	4,557	8,239	83.7	112.3	131.6	10.11
District Heat	Q	294	627	Q	1,766	3,680	Q	166.6	170.4	14.82
District Chilled Water	Q	120	338	Q	862	1,576	Q	139.1	214.7	18.83
Propane	144	170	79	1,878	2,541	925	76.5	66.9	84.9	16.53
Other	Q	81	66	692	1,055	588	Q	76.5	112.2	24.07
Energy End Uses (more than one may apply)										
Buildings with Space Heating	1,299	2,128	1,820	12,052	25,563	16,732	107.8	83.3	108.8	5.87
Buildings with Cooling	1,137	1,989	1,796	9,908	23,649	16,378	114.8	84.1	109.7	6.13
Buildings with Water Heating	1,177	2,099	1,814	10,269	24,724	16,567	114.6	84.9	109.5	5.97
Buildings with Cooking	414	795	1,297	2,241	8,104	10,368	184.7	98.2	125.1	7.71
Buildings with Manufacturing	32	146	128	564	2,006	1,323	57.6	72.8	97.0	22.07
Buildings with Electricity Generation	77	506	1,121	483	4,056	8,826	159.9	124.8	127.0	10.90
Space-Heating Energy Sources (more than one may apply)										
Electricity	412	793	703	4,269	10,618	7,269	96.6	74.7	96.7	8.63
Natural Gas	757	1,362	975	6,758	15,563	9,214	112.1	87.5	105.9	6.98
Fuel Oil	113	246	363	1,481	2,478	2,647	76.2	99.3	137.2	16.57
District Heat	Q	294	612	212	1,750	3,645	Q	167.9	167.9	15.22
Propane	72	41	Q	953	919	Q	75.9	45.1	Q	24.16
Other	19	29	Q	478	376	Q	40.7	76.7	Q	23.61

See footnotes at end of table.

**Table 7. Consumption and Gross Energy Intensity by Building Size for
Sum of Major Fuels, 1995 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.4	1.0	1.2	1.0	0.8	0.8	1.2	0.8	1.0	
RSE Column Factor:										
Primary Space-Heating Energy Source										
Electricity	275	420	310	2,841	6,724	3,935	96.9	62.5	78.7	11.15
Natural Gas	739	1,241	859	6,583	14,121	8,103	112.2	87.9	106.0	7.45
Fuel Oil	98	137	70	1,297	1,948	963	75.9	70.4	72.4	16.16
District Heat	Q	291	556	212	1,702	3,376	Q	170.7	164.8	15.51
Propane	45	22	Q	799	706	Q	56.9	31.4	Q	29.46
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
Cooling Energy Sources (more than one may apply)										
Electricity	1,034	1,873	1,625	9,707	22,699	15,355	106.5	82.5	105.8	5.77
Natural Gas	24	52	144	162	564	588	Q	93.0	244.2	29.68
District Chilled Water	Q	120	338	Q	862	1,576	Q	139.1	214.7	18.83
Water-Heating Energy Sources (more than one may apply)										
Electricity	425	676	556	4,991	10,744	7,322	85.2	63.0	75.9	8.85
Natural Gas	633	1,217	919	4,648	12,638	7,574	136.2	96.3	121.4	7.96
Fuel Oil	35	74	93	329	973	848	106.5	76.4	109.9	22.43
District Heat	Q	216	466	Q	1,220	2,691	Q	177.4	173.2	14.82
Propane	29	39	Q	308	561	Q	93.8	70.4	Q	31.69
Cooking Energy Sources (more than one may apply)										
Electricity	248	415	833	1,327	4,224	6,698	187.1	98.1	124.4	10.56
Natural Gas	281	525	892	1,257	4,817	7,121	223.8	109.0	125.3	9.61
Propane	43	59	23	299	796	385	142.6	74.7	59.1	28.83
Percent of Floorspace Heated										
Not Heated	33	23	18	1,817	1,698	910	18.0	13.8	19.7	30.06
1 to 50	98	89	60	1,835	2,828	1,564	53.5	31.6	38.3	15.68
51 to 99	195	316	294	1,972	3,847	3,049	98.7	82.2	96.4	15.09
100	1,006	1,723	1,466	8,245	18,888	12,120	122.0	91.2	121.0	6.04
Percent of Floorspace Cooled										
Not Cooled	195	162	42	3,961	3,612	1,265	49.2	45.0	32.9	16.59
1 to 50	239	538	267	2,949	7,810	4,268	80.9	68.9	62.5	12.35
51 to 99	200	458	703	1,720	5,039	5,789	116.0	90.8	121.4	9.34
100	699	994	826	5,239	10,800	6,320	133.4	92.0	130.7	8.56
Percent Lit when Open										
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
1 to 50	139	146	23	2,053	3,207	749	67.6	45.5	31.1	14.77
51 to 99	201	326	358	2,110	4,662	2,919	95.0	69.8	122.5	10.99
100	984	1,669	1,451	8,488	18,590	13,436	115.9	89.8	108.0	7.00
Building Not in Use/ Electricity Not Used	Q	11	Q	1,143	699	526	Q	Q	Q	34.28
Percent Lit when Closed										
Zero	323	345	85	5,087	6,706	1,308	63.4	51.4	64.9	13.80
1 to 50	786	1,146	707	6,335	15,230	9,147	124.1	75.3	77.3	7.25
51 to 100	37	63	107	282	625	1,007	132.9	101.3	106.4	25.01
Never Closed	177	586	933	1,021	4,001	5,654	173.6	146.5	164.9	11.70
Building Not in Use/ Electricity Not Used	Q	Q	Q	1,143	699	Q	Q	Q	Q	29.30

See footnotes at end of table.

**Table 7. Consumption and Gross Energy Intensity by Building Size for
Sum of Major Fuels, 1995 (Continued)**

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)			Total Floorspace of Buildings (million square feet)			Energy Intensity for Sum of Major Fuels (thousand Btu/sq. ft.)			RSE Row Factor	
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet		
	RSE Column Factor:	1.4	1.0	1.2	1.0	0.8	0.8	1.2	0.8		1.0
Energy Conservation Features (more than one may apply)											
Any Conservation Features	1,286	2,138	1,836	12,223	26,087	16,979	105.2	82.0	108.1	5.85	
Building Shell	1,253	2,072	1,809	11,691	25,041	16,458	107.2	82.8	109.9	5.97	
HVAC	962	1,874	1,784	7,270	21,466	15,921	132.4	87.3	112.1	6.32	
Lighting	724	1,584	1,705	6,036	17,367	15,133	119.9	91.2	112.7	6.57	

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • Statistics for the "energy end uses" represent consumption in buildings that have end use, not consumption for a particular fuel for a particular end use. • HVAC = Heating, Ventilation, and Air Conditioning. • Because of rounding, data may not sum to totals.

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

**Table 13. Electricity Consumption and Conditional Energy Intensity
by Building Size, 1995**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.3	1.0	1.3	1.0	0.9	1.0	1.0	0.8	0.9	
RSE Column Factor:										
All Buildings	181	312	271	13,014	26,840	17,222	13.9	11.6	15.8	5.42
Principal Building Activity										
Education	9	36	20	654	4,623	2,408	13.1	7.8	8.3	11.55
Food Sales	21	14	Q	367	269	Q	56.6	51.5	Q	16.33
Food Service	39	10	Q	940	406	Q	41.2	24.4	Q	25.47
Health Care	4	12	46	294	556	1,483	14.4	21.3	30.8	15.34
Lodging	8	28	19	419	1,858	1,324	18.1	15.1	14.6	15.22
Mercantile and Service	44	59	46	3,965	5,384	3,280	11.0	10.9	14.1	12.16
Office	30	76	92	1,999	4,416	4,052	15.1	17.1	22.7	10.92
Public Assembly	7	27	16	1,098	1,909	922	6.8	14.0	17.0	16.68
Public Order and Safety	1	9	Q	233	755	Q	6.2	12.2	Q	32.86
Religious Worship	4	6	Q	964	1,797	Q	3.7	3.2	Q	15.49
Warehouse and Storage	11	22	19	1,408	3,784	2,824	7.5	5.7	6.8	16.55
Other	Q	12	8	Q	531	308	Q	22.4	24.4	27.83
Vacant	Q	2	Q	512	552	Q	3.7	4.1	Q	32.36
Year Constructed										
1919 or Before	10	10	Q	1,118	1,684	724	8.7	5.8	Q	17.63
1920 to 1945	15	19	17	1,608	2,566	2,001	9.1	7.3	8.7	15.44
1946 to 1959	26	43	26	2,764	4,453	1,905	9.4	9.7	13.6	13.25
1960 to 1969	28	64	46	1,985	5,162	3,502	14.0	12.4	13.2	12.26
1970 to 1979	39	60	81	2,421	4,803	4,021	16.2	12.5	20.1	10.87
1980 to 1989	40	83	66	1,984	6,212	3,713	20.2	13.4	17.9	10.59
1990 to 1992	15	16	17	655	1,022	868	22.7	15.6	19.5	14.77
1993 to 1995	9	16	8	479	938	488	18.7	17.4	16.4	23.13
Census Region and Division										
Northeast	29	42	57	2,056	4,835	4,554	13.9	8.8	12.5	10.33
New England	7	11	11	511	1,537	1,024	14.5	6.9	10.6	16.10
Middle Atlantic	21	32	46	1,545	3,298	3,529	13.8	9.6	13.0	12.41
Midwest	32	70	62	3,259	6,250	4,378	9.8	11.2	14.1	10.87
East North Central	20	44	40	2,105	4,103	3,214	9.7	10.8	12.4	12.80
West North Central	12	26	22	1,154	2,147	1,163	10.1	11.9	18.9	18.55
South	77	125	99	4,817	9,869	5,472	16.1	12.6	18.1	8.19
South Atlantic	32	55	55	2,006	4,353	2,943	16.1	12.7	18.8	11.30
East South Central	22	33	15	1,210	2,570	894	17.9	12.8	17.0	16.21
West South Central	24	37	28	1,601	2,946	1,635	14.7	12.4	17.3	13.42
West	43	75	54	2,882	5,886	2,819	15.0	12.7	19.1	13.35
Mountain	10	29	14	898	2,136	786	10.8	13.8	18.0	19.98
Pacific	33	46	40	1,984	3,750	2,033	16.8	12.1	19.6	16.17
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	14	22	16	1,439	2,503	991	10.0	8.8	16.1	18.19
5,500-7,000 HDD	35	70	63	2,728	6,536	5,091	12.9	10.6	12.3	9.90
4,000-5,499 HDD	40	71	94	3,264	5,896	5,399	12.3	12.0	17.4	13.43
Fewer than 4,000 HDD	50	84	56	2,894	7,105	3,269	17.3	11.8	17.0	12.46
More than 2,000 CDD and --										
Fewer than 4,000 HDD	42	65	43	2,688	4,799	2,472	15.4	13.6	17.4	11.57
Workers (main shift)										
Fewer than 5	72	22	Q	6,980	4,708	654	10.4	4.6	Q	11.91
5 to 9	41	24	Q	2,810	3,183	Q	14.7	7.5	Q	12.23
10 to 19	40	43	2	2,332	4,055	715	17.2	10.7	3.5	17.11
20 to 49	26	89	9	826	7,206	1,071	31.4	12.3	8.4	13.46
50 to 99	Q	62	28	Q	4,304	2,506	Q	14.4	11.2	10.32
100 to 249	Q	52	45	Q	2,539	3,420	Q	20.5	13.2	11.40
250 or More	Q	21	184	Q	846	8,579	Q	24.3	21.5	14.16

See footnotes at end of table.

**Table 13. Electricity Consumption and Conditional Energy Intensity
by Building Size, 1995 (Continued)**

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.3	1.0	1.3	1.0	0.9	1.0	1.0	0.8	0.9	
RSE Column Factor:										
Weekly Operating Hours										
39 or Fewer	10	7	Q	2,608	2,026	Q	3.7	3.5	Q	15.31
40 to 48	38	61	19	3,725	7,113	2,304	10.3	8.6	8.2	11.34
49 to 60	33	61	51	2,889	6,562	2,683	11.5	9.4	19.1	13.51
61 to 84	26	51	51	1,671	4,395	3,955	15.4	11.6	12.8	10.38
85 to 167	45	51	32	1,100	2,316	2,316	41.0	18.5	13.6	12.30
Open Continuously	29	80	118	1,021	4,001	5,666	28.8	20.1	20.8	11.36
Ownership and Occupancy										
Nongovernment Owned	162	242	187	11,556	21,126	12,543	14.1	11.5	14.9	5.68
Owner Occupied	128	185	158	9,422	15,666	10,022	13.6	11.8	15.8	6.21
Nonowner Occupied	33	57	28	1,842	5,271	2,405	18.2	10.7	11.7	12.61
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
Government Owned	19	70	85	1,458	5,714	4,679	12.9	12.2	18.1	13.11
Space in Building Vacant for at Least Three Consecutive Months										
Yes	12	62	100	1,673	5,946	7,011	7.1	10.4	14.3	11.26
No	169	250	171	11,341	20,894	10,211	14.9	12.0	16.7	6.42
Energy Sources (more than one may apply)										
Electricity	181	312	271	13,014	26,840	17,222	13.9	11.6	15.8	5.42
Natural Gas	101	211	188	7,436	18,374	12,199	13.5	11.5	15.4	6.95
Fuel Oil	15	62	152	1,570	4,545	8,231	9.3	13.5	18.5	11.57
District Heat	Q	31	70	Q	1,766	3,669	Q	17.5	19.0	19.55
District Chilled Water	Q	12	41	Q	862	1,572	Q	14.2	25.9	17.80
Propane	24	30	11	1,874	2,541	925	12.8	11.9	12.4	16.96
Other	5	12	7	654	1,044	533	8.0	11.5	13.2	25.86
Energy End Uses (more than one may apply)										
Buildings with Space Heating	174	306	266	11,955	25,526	16,629	14.5	12.0	16.0	5.50
Buildings with Cooling	161	297	267	9,893	23,615	16,277	16.3	12.6	16.4	5.50
Buildings with Water Heating	161	303	268	10,210	24,690	16,463	15.8	12.3	16.3	5.58
Buildings with Cooking	62	112	191	2,241	8,077	10,293	27.5	13.9	18.6	8.58
Buildings with Manufacturing	5	21	20	564	2,006	1,315	9.7	10.3	15.1	23.13
Buildings with Electricity Generation	8	78	165	483	4,045	8,818	17.6	19.2	18.8	12.24
Space-Heating Energy Source										
Electricity	82	148	128	4,269	10,618	7,269	19.3	13.9	17.6	8.44
Electricity Main	63	99	76	2,841	6,724	3,935	22.0	14.7	19.2	11.28
Electricity Secondary	20	49	53	1,428	3,894	3,334	13.9	12.5	15.8	12.98
Other Excluding Electricity	91	158	138	7,686	14,909	9,360	11.9	10.6	14.7	6.39
Buildings without Space Heating	8	6	5	1,059	1,314	593	7.2	4.6	8.7	32.36
Primary Space-Heating Energy Source										
Electricity	63	99	76	2,841	6,724	3,935	22.0	14.7	19.2	11.28
Natural Gas	80	156	115	6,583	14,088	8,015	12.1	11.1	14.3	6.98
Fuel Oil	9	10	7	1,241	1,948	963	7.5	5.4	7.5	16.31
District Heat	Q	30	64	Q	1,702	3,364	Q	17.9	19.1	13.60
Propane	13	6	Q	796	706	Q	15.9	8.5	Q	31.47
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99

See footnotes at end of table.

Table 13. Electricity Consumption and Conditional Energy Intensity by Building Size, 1995 (Continued)

Building Characteristics	Total Electricity Consumption (billion kWh)			Total Floorspace of Buildings Using Electricity (million square feet)			Electricity Energy Intensity (kWh/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.3	1.0	1.3	1.0	0.9	1.0	1.0	0.8	0.9	
RSE Column Factor:										
Cooling Energy Source										
Electricity	156	286	245	9,707	22,699	15,355	16.1	12.6	16.0	5.60
Other Excluding Electricity	5	11	22	185	915	923	Q	12.0	23.8	26.07
Buildings without Cooling	20	15	4	3,121	3,225	945	6.5	4.7	4.1	21.18
Water-Heating Energy Source										
Electricity	85	129	119	4,991	10,744	7,322	17.1	12.0	16.3	9.32
Other Excluding Electricity	76	174	148	5,219	13,946	9,141	14.5	12.5	16.2	6.80
Buildings without Water Heating	20	9	4	2,804	2,150	759	7.2	4.3	4.9	19.98
Cooking Energy Source										
Electricity	45	65	133	1,327	4,224	6,698	33.8	15.5	19.9	11.16
Other Excluding Electricity	17	47	58	913	3,853	3,595	18.3	12.1	16.1	12.50
Buildings without Cooking	120	200	80	10,773	18,763	6,929	11.1	10.6	11.6	6.59
Percent of Floorspace Heated										
Not Heated	8	6	5	1,059	1,314	593	7.2	4.6	8.7	32.36
1 to 50	13	15	14	1,766	2,823	1,564	7.6	5.3	9.0	16.66
51 to 99	29	46	54	1,963	3,847	3,049	14.9	11.9	17.7	14.87
100	131	245	198	8,226	18,856	12,016	15.9	13.0	16.5	5.38
Percent of Floorspace Cooled										
Not Cooled	20	15	4	3,121	3,225	945	6.5	4.7	4.1	21.18
1 to 50	25	51	29	2,934	7,789	4,195	8.4	6.6	7.0	9.75
51 to 99	31	72	110	1,720	5,027	5,789	18.1	14.4	18.9	10.83
100	105	173	129	5,239	10,799	6,293	20.1	16.0	20.4	6.90
Percent Lit when Open										
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
1 to 50	17	17	3	2,053	3,207	749	8.2	5.2	3.9	17.70
51 to 99	27	48	45	2,110	4,662	2,919	13.0	10.3	15.5	11.31
100	136	246	223	8,488	18,590	13,436	16.1	13.2	16.6	6.63
Building Not in Use/ Electricity Not Used	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
Percent Lit when Closed										
Zero	43	45	11	5,087	6,706	1,308	8.4	6.8	8.6	13.13
1 to 50	104	173	118	6,335	15,230	9,147	16.4	11.4	12.9	6.42
51 to 100	5	12	Q	282	625	1,007	17.1	19.3	24.2	27.38
Never Closed	29	80	118	1,021	4,001	5,654	28.8	20.1	20.8	11.38
Building Not in Use/ Electricity Not Used	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
Annual Consumption (kilowatthours)										
10,000 or Less	4	(*)	Q	2,572	407	Q	1.5	0.3	Q	15.15
10,001 to 50,000	36	6	Q	5,641	3,900	Q	6.3	1.6	Q	8.59
50,001 to 100,000	36	17	Q	2,405	4,239	Q	14.9	3.9	Q	9.90
100,001 to 500,000	94	97	3	2,298	10,810	1,707	40.8	9.0	1.6	9.01
500,001 to 1,000,000	Q	72	7	Q	3,902	1,717	Q	18.3	4.3	8.96
1,000,001 to 5,000,000	Q	107	90	Q	3,427	6,735	Q	31.1	13.3	7.68
Over 5,000,000	Q	Q	171	Q	Q	6,594	Q	Q	26.0	9.78

(*) = Value rounds to zero in the units displayed.

NF = No applicable RSE row factor.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • Statistics for the "energy end uses" represent consumption in buildings that have end use, not consumption for a particular fuel for a particular end use. • Because of rounding, data may not sum to totals.

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

**Table 24. Natural Gas Consumption and Conditional Energy Intensity
by Building Size, 1995**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.4	1.0	1.2	1.1	0.8	0.9	1.1	0.8	0.9	
RSE Column Factor:										
All Buildings	521	808	565	7,440	18,410	12,296	70.0	43.9	46.0	7.79
Principal Building Activity										
Education	26	143	70	411	3,424	1,965	62.1	41.9	35.5	15.90
Food Sales	6	Q	Q	188	Q	Q	33.0	Q	Q	19.79
Food Service	126	27	Q	698	296	Q	180.0	91.4	Q	23.98
Health Care	Q	26	207	Q	296	1,328	Q	86.7	156.1	19.44
Lodging	22	108	77	259	1,444	1,125	85.9	74.8	68.2	19.44
Mercantile and Service	182	170	33	2,559	3,696	2,265	71.1	45.9	14.6	20.95
Office	51	113	69	1,216	2,943	2,362	42.0	38.5	29.0	13.43
Public Assembly	37	67	34	699	1,325	638	53.6	50.4	53.2	22.15
Public Order and Safety	Q	21	Q	Q	522	Q	Q	40.7	Q	26.65
Religious Worship	24	31	Q	531	1,437	Q	45.7	21.9	Q	19.78
Warehouse and Storage	14	56	33	432	2,189	1,973	31.6	25.5	16.9	18.42
Other	Q	23	Q	Q	370	Q	Q	61.5	Q	47.82
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
Year Constructed										
1919 or Before	56	50	Q	868	1,337	Q	64.9	37.3	Q	16.54
1920 to 1945	64	89	51	1,158	2,057	1,344	55.5	43.5	37.9	18.24
1946 to 1959	143	156	82	1,690	3,325	1,455	84.4	46.9	56.3	18.79
1960 to 1969	85	152	128	1,049	3,557	2,565	80.8	42.6	50.1	14.55
1970 to 1979	75	160	147	1,244	3,182	2,949	60.5	50.4	49.8	16.23
1980 to 1989	55	138	87	976	3,610	2,595	56.0	38.4	33.6	12.80
1990 to 1992	38	31	28	379	681	599	100.9	45.7	47.4	32.33
1993 to 1995	Q	32	16	Q	660	352	Q	47.9	46.0	24.47
Census Region and Division										
Northeast	58	104	126	975	2,923	3,210	60.0	35.7	39.2	15.18
New England	Q	32	35	Q	756	634	Q	42.1	55.7	32.25
Middle Atlantic	54	73	91	932	2,167	2,575	58.0	33.5	35.2	15.28
Midwest	224	288	218	2,442	5,089	3,374	91.8	56.5	64.7	11.69
East North Central	134	211	147	1,662	3,493	2,397	80.6	60.5	61.3	11.85
West North Central	Q	76	71	780	1,596	977	115.8	47.8	73.0	20.81
South	138	243	133	2,277	6,215	3,799	60.5	39.1	35.1	13.84
South Atlantic	47	78	67	628	2,227	1,947	75.5	34.9	34.2	19.52
East South Central	40	94	26	659	1,784	721	60.5	52.9	35.4	31.49
West South Central	51	71	41	990	2,204	1,132	51.0	32.3	36.5	17.23
West	101	173	88	1,746	4,183	1,913	57.6	41.4	45.8	14.12
Mountain	32	88	26	632	1,528	464	50.6	57.6	55.3	24.87
Pacific	69	85	62	1,114	2,654	1,449	61.5	32.1	42.7	17.82
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	60	108	66	759	1,917	723	78.8	56.1	91.3	20.68
5,500-7,000 HDD	171	280	223	1,853	5,076	3,826	92.3	55.2	58.2	13.21
4,000-5,499 HDD	128	179	133	1,729	3,586	3,779	74.0	49.9	35.3	16.01
Fewer than 4,000 HDD	100	160	102	1,823	5,280	2,495	54.6	30.3	40.9	15.10
More than 2,000 CDD and --										
Fewer than 4,000 HDD	63	82	41	1,276	2,551	1,472	49.1	32.1	28.0	19.33
Workers (main shift)										
Fewer than 5	208	82	Q	3,865	2,575	Q	53.7	31.7	Q	11.31
5 to 9	144	92	Q	1,821	2,489	Q	78.9	36.8	Q	20.21
10 to 19	104	147	11	1,178	2,981	537	88.7	49.2	20.8	24.95
20 to 49	62	235	38	532	5,223	872	116.2	44.9	43.3	18.81
50 to 99	Q	130	80	Q	2,797	1,933	Q	46.4	41.3	13.62
100 to 249	Q	108	107	Q	1,822	2,451	Q	59.1	43.8	16.93
250 or More	Q	16	326	Q	523	6,188	Q	31.0	52.7	14.70

See footnotes at end of table.

**Table 24. Natural Gas Consumption and Conditional Energy Intensity
by Building Size, 1995 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.4	1.0	1.2	1.1	0.8	0.9	1.1	0.8	0.9	
RSE Column Factor:										
Weekly Operating Hours										
39 or Fewer	53	34	Q	1,251	1,261	Q	42.3	26.6	Q	17.18
40 to 48	138	179	39	2,130	4,814	1,598	64.6	37.2	24.2	16.44
49 to 60	83	149	62	1,737	4,439	1,826	47.6	33.5	33.7	13.45
61 to 84	88	120	64	1,192	3,037	2,818	74.0	39.6	22.6	13.80
85 to 167	98	91	47	590	1,472	1,472	166.3	47.8	32.1	19.84
Open Continuously	61	236	351	540	2,955	4,436	113.8	79.7	79.0	15.04
Ownership and Occupancy										
Nongovernment Owned	422	606	405	6,625	14,669	8,962	63.7	41.3	45.2	7.95
Owner Occupied	338	506	368	5,352	11,267	7,337	63.1	44.9	50.2	8.83
Nonowner Occupied	80	99	34	1,145	3,372	1,560	69.8	29.3	21.6	16.21
Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
Government Owned	99	202	160	815	3,740	3,334	121.2	54.1	48.1	15.39
Space in Building Vacant for at Least Three Consecutive Months										
Yes	52	185	161	969	3,946	4,810	53.4	47.0	33.4	16.72
No	469	623	404	6,471	14,464	7,486	72.5	43.1	54.0	8.19
Energy Sources (more than one may apply)										
Electricity	521	805	561	7,436	18,374	12,199	70.0	43.8	46.0	8.22
Natural Gas	521	808	565	7,440	18,410	12,296	70.0	43.9	46.0	7.79
Fuel Oil	13	166	362	181	2,812	6,269	74.3	59.0	57.7	18.05
District Heat	Q	Q	109	Q	Q	1,698	Q	Q	64.5	29.99
District Chilled Water	Q	24	74	Q	395	879	Q	60.0	84.6	25.56
Propane	33	37	18	361	752	452	91.3	48.7	39.2	23.25
Other	13	25	25	210	856	419	59.8	29.3	58.9	32.41
Energy End Uses (more than one may apply)										
Buildings with Space Heating	516	806	565	7,359	18,353	12,238	70.0	43.9	46.2	7.83
Buildings with Cooling	435	745	556	6,253	16,907	11,940	69.5	44.1	46.6	8.38
Buildings with Water Heating	473	792	563	6,419	17,686	12,179	73.7	44.8	46.3	8.10
Buildings with Cooking	177	324	449	1,448	6,250	8,271	122.2	51.8	54.3	9.56
Buildings with Manufacturing	12	57	39	180	1,413	949	66.0	40.2	41.3	21.12
Buildings with Electricity Generation	30	166	366	268	3,027	7,037	110.8	54.9	52.0	14.38
Space-Heating Energy Source										
Natural Gas	458	715	468	6,758	15,563	9,214	67.8	46.0	50.7	8.40
Natural Gas Main	453	685	433	6,583	14,121	8,103	68.8	48.5	53.4	8.74
Natural Gas Secondary	5	30	34	175	1,442	1,111	29.2	21.0	31.0	24.69
Other Excluding Natural Gas	57	91	97	601	2,790	3,023	95.5	32.5	32.2	19.29
Buildings without Space Heating	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
Primary Space-Heating Energy Source										
Electricity	56	78	37	594	2,775	2,059	94.5	28.0	18.1	21.83
Natural Gas	453	685	433	6,583	14,121	8,103	68.8	48.5	53.4	8.74
Fuel Oil	Q	Q	Q	Q	791	Q	Q	Q	Q	38.04
District Heat	Q	30	84	Q	543	1,433	Q	56.0	58.3	23.10
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
Cooling Energy Source										
Natural Gas	Q	28	70	Q	564	588	Q	50.3	119.8	26.23
Other Excluding Natural Gas	420	716	486	6,090	16,344	11,352	69.0	43.8	42.8	8.67
Buildings without Cooling	86	64	Q	1,187	1,502	Q	72.7	42.3	Q	17.26

See footnotes at end of table.

**Table 24. Natural Gas Consumption and Conditional Energy Intensity
by Building Size, 1995 (Continued)**

Building Characteristics	Total Natural Gas Consumption (billion cubic feet)			Total Floorspace of Buildings Using Natural Gas (million square feet)			Natural Gas Energy Intensity (cubic feet/sq. ft.)			RSE Row Factor
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
	1.4	1.0	1.2	1.1	0.8	0.9	1.1	0.8	0.9	
RSE Column Factor:										
Water-Heating Energy Source										
Natural Gas	385	638	451	4,648	12,638	7,574	82.8	50.5	59.5	9.49
Other Excluding Natural Gas	88	154	113	1,772	5,047	4,605	49.8	30.5	24.5	12.41
Buildings without Water Heating	48	16	Q	1,021	724	Q	47.0	22.6	Q	25.90
Cooking Energy Source										
Natural Gas	162	262	355	1,257	4,817	7,121	129.2	54.5	49.9	10.42
Other Excluding Natural Gas	15	61	94	190	1,433	1,149	76.1	42.8	81.4	19.89
Buildings without Cooking	344	485	116	5,992	12,160	4,025	57.4	39.9	28.9	10.86
Percent of Floorspace Heated										
Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
1 to 50	41	35	8	799	1,828	1,089	51.1	19.3	7.2	22.98
51 to 99	81	129	64	1,390	2,602	2,221	58.3	49.5	28.6	20.45
100	394	642	493	5,170	13,923	8,927	76.1	46.1	55.3	7.99
Annual Consumption (hundred cubic feet)										
1,000 or Less	30	4	(*)	1,952	1,614	305	15.4	2.4	0.2	18.75
1,001 to 5,000	206	76	1	4,132	5,513	1,122	49.9	13.8	1.3	11.03
5,001 to 10,000	96	103	2	732	3,313	832	131.1	31.1	2.9	14.00
10,001 to 25,000	105	218	13	474	4,556	2,015	222.0	47.9	6.6	12.25
25,001 to 50,000	Q	168	36	Q	2,156	1,810	Q	77.8	19.7	10.15
50,001 to 100,000	Q	146	66	Q	858	2,078	Q	170.4	31.6	15.56
Over 100,000	Q	93	447	Q	400	4,134	Q	233.7	108.1	15.37
Gas Transported for the Account of Others										
Used in Building	Q	74	213	Q	509	1,566	Q	145.0	136.0	23.79
Not Used in Building	511	735	352	7,392	17,901	10,729	69.1	41.0	32.8	8.28

(*) = Value rounds to zero in the units displayed.

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

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • Statistics for the "energy end uses" represent consumption in buildings that have end use, not consumption for a particular fuel for a particular end use. • Because of rounding, data may not sum to totals.

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