

# Energy Consumption & Expenditures

## Consumption and Intensity by: Year Constructed

(10 pages, 62 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><b>Electronic Products and Services</b></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><b>Contact:</b> Martha Johnson, Survey Manager (<a href="mailto:martha.johnson@eia.doe.gov">martha.johnson@eia.doe.gov</a>)</p> <p><b>World Wide Web:</b> <a href="http://www.eia.doe.gov/emeu/consumption">http://www.eia.doe.gov/emeu/consumption</a></p>	

**Table 8. Consumption and Gross Energy Intensity by Year Constructed 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
	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	
	1.1	0.8	1.8	0.8	0.6	1.2	0.9	0.7	1.5	
RSE Column Factor:	1.1	0.8	1.8	0.8	0.6	1.2	0.9	0.7	1.5	
<b>All Buildings</b> .....	1,626	3,208	487	19,680	34,443	4,649	82.6	93.2	104.7	6.88
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	270	347	91	2,477	3,221	640	109.2	107.8	141.4	13.78
5,001 to 10,000 .....	234	341	Q	3,446	3,420	664	67.9	99.6	73.7	22.68
10,001 to 25,000 .....	296	494	34	4,140	7,043	434	71.6	70.1	77.9	14.93
25,001 to 50,000 .....	167	393	70	2,262	4,687	726	74.0	83.8	95.9	10.20
50,001 to 100,000 .....	202	410	86	2,429	4,722	817	83.3	86.9	104.7	12.59
100,001 to 200,000 .....	171	450	66	1,934	4,200	642	88.4	107.2	102.4	15.53
200,001 to 500,000 .....	154	435	48	1,683	3,522	348	91.5	123.4	137.0	15.15
Over 500,000 .....	131	339	45	1,309	3,628	377	100.0	93.3	118.7	19.85
<b>Principal Building Activity</b>										
Education .....	276	301	36	3,522	3,687	531	78.3	81.8	68.7	11.80
Food Sales .....	29	75	Q	145	379	Q	202.4	197.0	Q	27.05
Food Service .....	93	184	Q	460	782	Q	201.6	235.7	Q	25.24
Health Care .....	109	407	45	508	1,600	224	215.1	254.1	199.7	19.84
Lodging .....	124	308	28	986	2,377	255	126.2	129.6	110.4	16.34
Mercantile and Service .....	319	563	91	3,829	7,818	1,081	83.3	72.0	84.5	15.40
Office .....	287	665	66	3,015	6,678	785	95.3	99.6	84.5	11.06
Public Assembly .....	142	251	56	1,584	1,956	408	89.5	128.2	138.2	22.27
Public Order and Safety .....	50	60	Q	417	753	Q	119.5	79.3	Q	33.50
Religious Worship .....	43	56	Q	991	1,643	Q	43.8	34.2	Q	19.22
Warehouse and Storage .....	73	211	Q	2,504	5,250	727	29.0	40.3	55.8	18.80
Other .....	Q	108	Q	296	600	Q	Q	180.3	Q	35.79
Vacant .....	31	19	Q	1,423	919	Q	21.8	20.9	Q	33.69
<b>Floors</b>										
One .....	446	1,171	229	6,437	15,913	2,201	69.3	73.6	104.2	11.95
Two .....	367	658	96	4,860	8,094	1,168	75.5	81.3	82.4	11.19
Three .....	310	328	36	3,830	3,157	348	81.1	103.9	103.9	13.63
Four to Nine .....	385	754	90	3,460	4,643	686	111.2	162.3	131.4	12.60
Ten or More .....	118	298	35	1,094	2,636	245	107.9	113.0	142.0	17.23
<b>Census Region and Division</b>										
Northeast .....	399	544	91	4,963	6,130	789	80.5	88.8	115.7	13.96
New England .....	94	162	Q	1,123	1,813	205	83.7	89.4	Q	23.24
Middle Atlantic .....	305	382	73	3,841	4,317	585	79.5	88.6	125.7	17.32
Midwest .....	603	796	98	6,111	7,115	1,096	98.7	111.9	89.3	12.41
East North Central .....	395	515	76	4,465	4,482	708	88.4	115.0	107.9	14.45
West North Central .....	208	281	22	1,646	2,633	389	126.4	106.5	55.4	21.18
South .....	339	1,143	201	5,415	13,572	1,844	62.7	84.2	109.2	10.75
South Atlantic .....	146	525	101	2,209	6,326	940	66.2	83.0	107.8	15.51
East South Central .....	70	313	34	961	3,515	441	72.6	89.1	77.3	23.66
West South Central .....	123	305	66	2,245	3,730	463	54.9	81.7	142.5	16.12
West .....	285	725	96	3,191	7,626	919	89.2	95.1	104.4	14.81
Mountain .....	140	257	32	1,435	2,127	292	97.3	120.9	109.9	26.53
Pacific .....	145	468	64	1,756	5,499	627	82.5	85.1	101.9	15.49
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	148	303	48	1,693	2,951	453	87.2	102.5	106.9	18.76
5,500-7,000 HDD .....	624	850	117	6,461	7,159	977	96.6	118.7	120.3	13.61
4,000-5,499 HDD .....	475	802	130	5,630	8,185	1,341	84.3	98.0	97.1	15.10
Fewer than 4,000 HDD .....	239	732	107	3,302	9,078	1,111	72.3	80.7	96.3	13.05
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	141	522	83	2,594	7,070	766	54.3	73.9	108.8	15.80

See footnotes at end of table.

**Table 8. Consumption and Gross Energy Intensity by Year Constructed 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
	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	
	1.1	0.8	1.8	0.8	0.6	1.2	0.9	0.7	1.5	
RSE Column Factor:										
<b>Workers (main shift)</b>										
Fewer than 5 .....	308	418	64	6,094	6,674	1,118	50.5	62.6	56.9	16.73
5 to 9 .....	232	254	23	2,834	3,216	240	81.9	78.8	94.4	17.32
10 to 19 .....	163	386	65	2,437	4,179	486	66.9	92.4	133.8	15.95
20 to 49 .....	320	445	103	3,146	5,133	853	101.9	86.6	120.9	12.09
50 to 99 .....	167	401	62	1,812	4,486	633	91.9	89.4	98.5	12.05
100 to 249 .....	173	402	74	1,625	3,720	644	106.4	108.1	114.7	13.68
250 or More .....	263	903	96	1,733	7,036	675	151.9	128.4	142.3	14.57
<b>Weekly Operating Hours</b>										
39 or Fewer .....	101	71	8	2,962	2,776	397	34.0	25.7	20.1	17.58
40 to 48 .....	388	426	65	5,893	6,389	951	65.9	66.6	68.4	13.13
49 to 60 .....	299	550	88	3,971	7,282	989	75.2	75.5	89.4	14.37
61 to 84 .....	218	505	74	2,595	6,762	695	83.8	74.6	106.1	11.35
85 to 167 .....	212	533	86	1,565	4,070	567	135.4	131.0	151.2	17.86
Open Continuously .....	409	1,124	166	2,695	7,163	1,051	151.8	156.9	157.8	11.79
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	1,050	2,505	395	14,721	28,204	3,772	71.3	88.8	104.6	7.48
Owner Occupied .....	907	2,030	349	11,708	20,866	2,999	77.5	97.3	116.4	8.18
Nonowner Occupied .....	136	466	45	2,211	6,733	753	61.3	69.2	60.4	12.57
Unoccupied .....	7	Q	Q	802	605	Q	Q	Q	Q	38.91
Government Owned .....	577	703	92	4,959	6,239	877	116.3	112.7	104.9	12.16
Federal .....	135	116	Q	955	695	Q	141.8	167.1	Q	38.71
State .....	155	254	29	1,083	1,593	174	142.9	159.4	167.7	19.52
Local .....	286	333	49	2,921	3,951	601	98.0	84.3	80.7	15.61
<b>Space in Building Vacant for at Least Three Consecutive Months</b>										
Yes .....	299	729	92	4,864	9,912	1,068	61.4	73.5	86.3	11.09
No .....	1,327	2,480	394	14,816	24,531	3,581	89.6	101.1	110.1	7.78
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	1,621	3,205	486	18,824	33,802	4,449	86.1	94.8	109.2	7.05
Natural Gas .....	1,272	2,309	350	13,673	21,726	2,747	93.0	106.3	127.6	8.02
Fuel Oil .....	458	1,122	153	4,324	8,919	1,178	105.9	125.7	129.5	11.46
District Heat .....	362	603	86	2,359	2,881	418	153.6	209.4	205.7	21.81
District Chilled Water .....	142	357	43	661	1,602	258	215.4	222.6	165.4	24.42
Propane .....	81	271	40	1,195	3,523	626	68.0	76.8	64.2	18.76
Other .....	53	Q	Q	1,007	1,167	Q	52.7	Q	Q	26.04
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating .....	1,614	3,149	484	18,081	31,975	4,291	89.2	98.5	112.8	7.00
Buildings with Cooling .....	1,417	3,037	468	15,405	30,540	3,989	92.0	99.5	117.4	7.28
Buildings with Water Heating .....	1,540	3,102	448	16,692	30,944	3,924	92.2	100.2	114.3	6.95
Buildings with Cooking .....	704	1,541	262	6,005	12,852	1,856	117.2	119.9	140.9	8.97
Buildings with Manufacturing .....	124	162	Q	1,406	2,172	315	88.2	74.7	Q	23.87
Buildings with Electricity Generation .....	369	1,163	173	2,720	9,318	1,328	135.6	124.8	130.6	11.05
<b>Space-Heating Energy Sources (more than one may apply)</b>										
Electricity .....	394	1,289	225	5,262	14,735	2,158	74.9	87.5	104.3	9.74
Natural Gas .....	1,012	1,818	266	11,569	17,715	2,252	87.4	102.6	118.1	8.25
Fuel Oil .....	280	413	29	2,866	3,415	325	97.6	121.0	89.7	18.28
District Heat .....	359	595	82	2,355	2,843	409	152.4	209.4	199.9	18.75
Propane .....	17	102	10	287	1,433	304	59.0	71.1	33.5	28.36
Other .....	16	52	Q	491	457	Q	31.9	113.1	Q	27.79

See footnotes at end of table.

**Table 8. Consumption and Gross Energy Intensity by Year Constructed 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
	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	
	1.1	0.8	1.8	0.8	0.6	1.2	0.9	0.7	1.5	
RSE Column Factor:	1.1	0.8	1.8	0.8	0.6	1.2	0.9	0.7	1.5	
<b>Primary Space-Heating</b>										
<b>Energy Source</b>										
Electricity .....	126	733	146	2,257	9,892	1,351	56.0	74.1	107.9	12.84
Natural Gas .....	959	1,638	241	10,807	15,933	2,068	88.8	102.8	116.8	8.62
Fuel Oil .....	161	132	Q	2,093	1,903	Q	76.8	69.3	Q	17.12
District Heat .....	347	555	75	2,262	2,665	362	153.5	208.1	207.4	19.89
Propane .....	Q	59	Q	163	1,163	Q	Q	50.4	Q	36.22
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
<b>Cooling Energy Sources (more than one may apply)</b>										
Electricity .....	1,310	2,786	437	14,852	29,150	3,759	88.2	95.6	116.2	7.31
Natural Gas .....	Q	128	Q	438	762	Q	172.8	168.6	Q	34.25
District Chilled Water .....	142	357	43	661	1,602	258	215.4	222.6	165.4	24.42
<b>Water-Heating Energy Sources (more than one may apply)</b>										
Electricity .....	405	1,076	177	5,750	15,217	2,089	70.4	70.7	84.6	10.03
Natural Gas .....	914	1,608	248	9,196	13,951	1,712	99.4	115.3	144.6	8.86
Fuel Oil .....	89	108	Q	1,044	993	Q	84.8	108.4	Q	21.78
District Heat .....	226	487	49	1,546	2,169	234	146.3	224.5	208.0	18.42
Propane .....	Q	64	Q	Q	762	Q	Q	84.3	Q	30.95
<b>Cooking Energy Sources (more than one may apply)</b>										
Electricity .....	370	955	171	2,990	8,080	1,178	123.7	118.2	145.4	11.65
Natural Gas .....	467	1,046	186	4,151	7,938	1,106	112.5	131.7	168.0	10.63
Propane .....	Q	103	Q	186	1,159	Q	Q	89.0	Q	34.18
<b>Percent of Floorspace Heated</b>										
Not Heated .....	13	59	3	1,600	2,467	358	7.9	23.9	7.2	26.78
1 to 50 .....	85	148	15	2,430	3,463	334	34.8	42.8	44.1	18.51
51 to 99 .....	219	508	78	3,048	5,126	694	71.8	99.0	112.9	15.85
100 .....	1,310	2,494	391	12,602	23,387	3,263	104.0	106.6	119.8	7.71
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	210	171	18	4,275	3,902	660	49.0	43.8	27.5	16.05
1 to 50 .....	472	520	52	6,441	7,879	707	73.2	66.0	73.2	14.64
51 to 99 .....	385	865	110	3,748	7,830	971	102.9	110.5	112.9	10.40
100 .....	560	1,652	307	5,217	14,831	2,311	107.3	111.4	132.9	10.21
<b>Percent Lit when Open</b>										
Zero .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
1 to 50 .....	163	124	Q	3,136	2,543	329	51.9	48.6	Q	14.79
51 to 99 .....	316	508	59	3,726	5,374	592	84.8	94.6	100.4	12.56
100 .....	1,131	2,567	405	11,516	25,500	3,498	98.2	100.7	115.7	8.01
Building Not in Use/ Electricity Not Used .....	16	9	Q	1,238	924	206	Q	9.8	Q	35.77
<b>Percent Lit when Closed</b>										
Zero .....	313	373	67	5,111	6,944	1,046	61.3	53.7	63.8	13.41
1 to 50 .....	849	1,575	215	10,234	18,325	2,152	83.0	85.9	100.1	9.58
51 to 100 .....	39	130	Q	418	1,230	266	93.5	105.8	Q	30.28
Never Closed .....	409	1,122	165	2,680	7,019	978	152.7	159.8	168.9	13.13
Building Not in Use/ Electricity Not Used .....	Q	Q	Q	1,238	924	Q	Q	Q	Q	31.68

See footnotes at end of table.

**Table 8. Consumption and Gross Energy Intensity by Year Constructed 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
	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	
	RSE Column Factor:	1.1	0.8	1.8	0.8	0.6	1.2	0.9	0.7	1.5
<b>Energy Conservation Features (more than one may apply)</b>										
Any Conservation Features .....	1,603	3,173	484	17,858	32,958	4,472	89.7	96.3	108.3	6.88
Building Shell .....	1,547	3,111	478	17,068	31,771	4,351	90.6	97.9	109.8	6.99
HVAC .....	1,317	2,856	447	13,354	27,489	3,814	98.7	103.9	117.2	7.37
Lighting .....	1,143	2,452	418	11,507	23,449	3,581	99.3	104.6	116.6	7.31

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 14. Electricity Consumption and Conditional Energy Intensity  
by Year Constructed, 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
	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	
	1.2	0.8	1.8	0.9	0.6	1.4	0.9	0.6	1.2	
RSE Column Factor:	1.2	0.8	1.8	0.9	0.6	1.4	0.9	0.6	1.2	
<b>All Buildings</b> .....	175	508	81	18,824	33,802	4,449	9.3	15.0	18.2	6.80
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	28	67	17	2,315	3,088	550	12.0	21.6	31.0	15.36
5,001 to 10,000 .....	22	41	7	3,176	3,302	583	7.1	12.3	11.6	16.92
10,001 to 25,000 .....	34	73	6	4,047	6,829	428	8.3	10.7	13.9	13.12
25,001 to 50,000 .....	17	63	13	2,235	4,673	726	7.8	13.4	17.5	11.67
50,001 to 100,000 .....	21	72	14	2,421	4,675	806	8.6	15.4	16.9	14.05
100,001 to 200,000 .....	19	70	10	1,870	4,098	631	10.0	17.0	16.5	14.46
200,001 to 500,000 .....	17	66	7	1,683	3,519	348	10.0	18.8	20.5	14.93
Over 500,000 .....	17	58	7	1,078	3,620	377	16.2	16.0	19.6	18.67
<b>Principal Building Activity</b>										
Education .....	24	36	5	3,467	3,687	531	6.9	9.6	9.9	11.96
Food Sales .....	7	19	Q	145	379	Q	47.0	49.8	Q	24.77
Food Service .....	10	31	Q	460	782	Q	22.4	39.2	Q	27.59
Health Care .....	10	46	5	508	1,600	224	20.6	28.7	24.4	15.43
Lodging .....	11	41	3	986	2,371	244	11.1	17.2	12.7	15.42
Mercantile and Service .....	32	100	17	3,748	7,817	1,066	8.5	12.8	15.6	14.28
Office .....	41	142	15	3,015	6,666	785	13.7	21.3	18.8	11.60
Public Assembly .....	14	27	9	1,581	1,940	408	8.7	14.1	21.4	19.52
Public Order and Safety .....	4	9	Q	417	753	Q	9.6	11.7	Q	39.16
Religious Worship .....	3	6	Q	991	1,643	Q	2.9	3.7	Q	18.03
Warehouse and Storage .....	11	35	6	2,419	5,026	571	4.5	6.9	10.2	19.78
Other .....	Q	15	Q	Q	597	Q	Q	24.6	Q	34.23
Vacant .....	2	3	Q	791	542	Q	3.0	4.8	Q	33.26
<b>Census Region and Division</b>										
Northeast .....	38	77	13	4,649	6,017	779	8.2	12.8	16.5	15.43
New England .....	7	20	Q	1,085	1,782	Q	6.2	11.5	Q	17.78
Middle Atlantic .....	31	57	11	3,564	4,235	574	8.8	13.4	19.4	19.19
Midwest .....	53	98	13	5,804	7,030	1,053	9.1	13.9	12.6	13.07
East North Central .....	33	62	10	4,287	4,456	679	7.7	13.8	14.3	15.48
West North Central .....	20	36	4	1,516	2,575	374	13.0	14.0	9.4	20.54
South .....	51	212	37	5,209	13,213	1,736	9.8	16.1	21.5	10.13
South Atlantic .....	23	101	18	2,174	6,237	890	10.5	16.3	20.8	14.07
East South Central .....	10	52	0	951	3,339	383	10.6	15.5	21.0	21.95
West South Central .....	18	59	11	2,083	3,636	463	8.8	16.3	23.4	17.78
West .....	33	121	18	3,163	7,543	882	10.5	16.1	20.0	14.74
Mountain .....	16	31	Q	1,423	2,121	277	10.9	14.7	23.4	25.75
Pacific .....	18	90	11	1,740	5,422	605	10.1	16.6	18.4	17.69
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	11	35	6	1,621	2,901	412	6.9	12.1	14.5	20.14
5,500-7,000 HDD .....	52	98	17	6,271	7,125	960	8.4	13.7	18.1	14.04
4,000-5,499 HDD .....	55	129	21	5,265	7,988	1,305	10.5	16.1	15.9	14.16
Fewer than 4,000 HDD .....	33	136	21	3,247	8,942	1,079	10.1	15.2	19.8	13.71
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	23	111	15	2,420	6,847	693	9.6	16.2	22.3	14.28
<b>Workers (main shift)</b>										
Fewer than 5 .....	31	53	12	5,314	6,087	941	5.9	8.7	12.9	14.13
5 to 9 .....	22	40	4	2,831	3,198	240	7.6	12.5	16.5	15.43
10 to 19 .....	17	58	11	2,437	4,179	486	7.0	13.8	22.7	16.05
20 to 49 .....	33	74	17	3,128	5,133	842	10.4	14.4	20.1	12.49
50 to 99 .....	18	64	9	1,756	4,470	633	10.2	14.2	14.8	12.47
100 to 249 .....	19	68	11	1,625	3,718	632	11.9	18.2	17.0	13.85
250 or More .....	35	152	17	1,733	7,017	675	20.5	21.7	25.1	14.71

See footnotes at end of table.

**Table 14. Electricity Consumption and Conditional Energy Intensity  
by Year Constructed, 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
	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	
	1.2	0.8	1.8	0.9	0.6	1.4	0.9	0.6	1.2	
RSE Column Factor:	1.2	0.8	1.8	0.9	0.6	1.4	0.9	0.6	1.2	
<b>Weekly Operating Hours</b>										
39 or Fewer .....	7	10	1	2,220	2,370	341	3.2	4.1	3.8	17.26
40 to 48 .....	39	68	11	5,828	6,368	946	6.7	10.7	12.0	12.44
49 to 60 .....	33	97	16	3,939	7,234	960	8.3	13.5	16.2	14.44
61 to 84 .....	24	90	13	2,592	6,745	684	9.4	13.3	19.2	11.24
85 to 167 .....	26	86	16	1,565	4,054	540	16.6	21.1	29.1	14.34
Open Continuously .....	46	158	24	2,680	7,031	978	17.1	22.4	24.6	12.90
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	119	404	67	14,039	27,599	3,586	8.5	14.7	18.8	7.43
Owner Occupied .....	102	311	58	11,549	20,655	2,907	8.8	15.1	20.1	7.88
Nonowner Occupied .....	17	92	9	2,147	6,695	677	8.0	13.7	13.6	13.10
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
Government Owned .....	56	104	14	4,785	6,203	863	11.6	16.8	15.7	13.10
<b>Space in Building Vacant for at Least Three Consecutive Months</b>										
Yes .....	29	129	16	4,231	9,433	965	6.9	13.7	16.2	9.77
No .....	146	379	65	14,593	24,369	3,484	10.0	15.5	18.8	7.53
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	175	508	81	18,824	33,802	4,449	9.3	15.0	18.2	6.80
Natural Gas .....	125	323	51	13,605	21,679	2,724	9.2	14.9	18.9	8.21
Fuel Oil .....	46	161	21	4,277	8,890	1,178	10.6	18.1	18.1	11.95
District Heat .....	39	58	Q	2,359	2,869	Q	16.5	20.3	Q	20.75
District Chilled Water .....	16	34	4	661	1,598	258	24.8	21.4	17.3	22.54
Propane .....	11	48	7	1,192	3,523	626	9.0	13.7	10.6	19.45
Other .....	7	15	Q	914	1,167	Q	7.2	13.0	Q	26.42
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating .....	173	492	80	17,929	31,913	4,269	9.6	15.4	18.8	6.90
Buildings with Cooling .....	161	485	79	15,328	30,490	3,967	10.5	15.9	19.9	7.17
Buildings with Water Heating .....	166	489	75	16,580	30,882	3,901	10.0	15.8	19.3	6.80
Buildings with Cooking .....	75	246	44	5,949	12,827	1,834	12.5	19.2	24.1	9.57
Buildings with Manufacturing .....	14	28	Q	1,406	2,163	Q	10.2	13.0	Q	28.08
Buildings with Electricity Generation .....	43	182	27	2,720	9,309	1,317	15.7	19.6	20.2	10.96
<b>Space-Heating Energy Source</b>										
Electricity .....	56	257	45	5,262	14,735	2,158	10.6	17.5	20.9	9.65
Electricity Main .....	26	178	34	2,257	9,892	1,351	11.4	18.0	24.8	13.07
Electricity Secondary .....	30	79	12	3,005	4,843	807	10.1	16.3	14.3	12.53
Other Excluding Electricity .....	117	235	35	12,667	17,177	2,110	9.2	13.7	16.7	8.27
Buildings without Space Heating .....	2	16	Q	895	1,890	Q	2.4	8.5	Q	30.01
<b>Primary Space-Heating Energy Source</b>										
Electricity .....	26	178	34	2,257	9,892	1,351	11.4	18.0	24.8	13.07
Natural Gas .....	93	223	35	10,746	15,895	2,046	8.6	14.0	17.0	8.35
Fuel Oil .....	11	14	Q	2,046	1,894	Q	5.5	7.6	Q	18.11
District Heat .....	38	55	8	2,262	2,653	362	16.8	20.6	23.2	19.83
Propane .....	Q	16	Q	160	1,163	Q	Q	13.7	Q	37.85
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99

See footnotes at end of table.

**Table 14. Electricity Consumption and Conditional Energy Intensity  
by Year Constructed, 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
	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	
	1.2	0.8	1.8	0.9	0.6	1.4	0.9	0.6	1.2	
RSE Column Factor:	1.2	0.8	1.8	0.9	0.6	1.4	0.9	0.6	1.2	
<b>Cooling Energy Source</b>										
Electricity .....	148	464	75	14,852	29,150	3,759	9.9	15.9	20.1	7.00
Other Excluding Electricity .....	13	21	Q	476	1,340	Q	28.2	15.7	Q	28.92
Buildings without Cooling .....	14	23	2	3,496	3,313	483	4.0	7.0	4.7	19.15
<b>Water-Heating Energy Source</b>										
Electricity .....	61	235	38	5,750	15,217	2,089	10.5	15.4	18.1	10.82
Other Excluding Electricity .....	106	254	37	10,829	15,665	1,812	9.8	16.2	20.7	7.67
Buildings without Water Heating .....	8	19	6	2,245	2,921	548	3.8	6.5	10.4	21.50
<b>Cooking Energy Source</b>										
Electricity .....	43	170	30	2,990	8,080	1,178	14.3	21.0	25.9	12.44
Other Excluding Electricity .....	32	76	14	2,959	4,747	656	10.7	16.0	21.0	13.24
Buildings without Cooking .....	100	262	37	12,875	20,975	2,615	7.8	12.5	14.1	8.23
<b>Percent of Floorspace Heated</b>										
Not Heated .....	2	16	Q	895	1,890	Q	2.4	8.5	Q	30.01
1 to 50 .....	11	29	3	2,356	3,463	334	4.5	8.3	8.9	18.97
51 to 99 .....	27	88	13	3,048	5,117	694	9.0	17.2	19.4	16.06
100 .....	135	375	64	12,525	23,333	3,241	10.8	16.1	19.7	7.19
<b>Percent of Floorspace Cooled</b>										
Not Cooled .....	14	23	2	3,496	3,313	483	4.0	7.0	4.7	19.15
1 to 50 .....	37	62	6	6,364	7,857	696	5.9	7.9	8.3	11.71
51 to 99 .....	46	148	18	3,748	7,818	971	12.4	19.0	18.9	10.73
100 .....	77	275	55	5,217	14,815	2,300	14.8	18.5	23.8	9.48
<b>Percent Lit when Open</b>										
Zero .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
1 to 50 .....	15	16	Q	3,136	2,543	329	4.9	6.4	Q	15.20
51 to 99 .....	34	78	9	3,726	5,374	592	9.0	14.5	15.5	12.51
100 .....	125	414	67	11,516	25,500	3,498	10.8	16.2	19.2	7.78
Building Not in Use/ Electricity Not Used .....	Q	Q	Q	382	Q	Q	Q	Q	Q	30.13
<b>Percent Lit when Closed</b>										
Zero .....	31	58	11	5,111	6,944	1,046	6.0	8.3	10.4	13.67
1 to 50 .....	94	262	39	10,234	18,325	2,152	9.2	14.3	18.0	7.99
51 to 100 .....	4	30	Q	418	1,230	Q	8.7	24.6	Q	35.68
Never Closed .....	46	158	24	2,680	7,019	978	17.1	22.5	24.6	12.92
Building Not in Use/ Electricity Not Used .....	Q	Q	Q	382	Q	Q	Q	Q	Q	30.13
<b>Annual Consumption (kilowatthours)</b>										
10,000 or Less .....	2	2	Q	1,544	1,319	Q	1.2	1.4	Q	14.99
10,001 to 50,000 .....	17	21	4	4,315	4,684	699	4.0	4.4	5.4	12.26
50,001 to 100,000 .....	17	32	3	2,721	3,918	237	6.4	8.3	11.6	15.31
100,001 to 500,000 .....	55	117	22	5,464	8,303	1,049	10.1	14.1	20.9	11.17
500,001 to 1,000,000 .....	16	60	12	1,355	3,726	621	11.5	16.2	18.9	15.00
1,000,001 to 5,000,000 .....	35	139	25	2,261	6,843	1,074	15.4	20.3	23.7	9.94
Over 5,000,000 .....	33	137	15	1,165	5,009	574	28.1	27.4	26.2	17.38

(\*) = 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 25. Natural Gas Consumption and Conditional Energy Intensity  
by Year Constructed, 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
	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	
	1.1	0.8	2.0	0.9	0.6	1.3	0.8	0.7	1.6	
RSE Column Factor:	1.1	0.8	2.0	0.9	0.6	1.3	0.8	0.7	1.6	
<b>All Buildings</b> .....	717	1,027	150	13,673	21,726	2,747	52.4	47.3	54.7	9.25
<b>Building Floorspace (square feet)</b>										
1,001 to 5,000 .....	126	100	31	1,476	1,318	149	85.2	75.8	208.0	19.16
5,001 to 10,000 .....	138	115	12	2,241	1,951	305	61.4	58.9	38.9	22.31
10,001 to 25,000 .....	130	205	11	3,135	4,158	267	41.5	49.4	42.5	20.11
25,001 to 50,000 .....	72	131	22	1,698	3,076	467	42.4	42.5	46.6	13.28
50,001 to 100,000 .....	93	114	30	1,886	3,115	606	49.5	36.6	48.7	16.39
100,001 to 200,000 .....	72	144	Q	1,484	2,767	Q	48.7	52.2	Q	20.44
200,001 to 500,000 .....	54	137	15	1,159	2,554	228	46.4	53.5	64.2	21.01
Over 500,000 .....	32	81	9	593	2,787	332	54.5	29.1	25.8	23.20
<b>Principal Building Activity</b>										
Education .....	123	102	13	2,905	2,616	279	42.4	39.2	46.2	16.68
Food Sales .....	Q	Q	Q	Q	222	Q	Q	43.6	Q	59.38
Food Service .....	53	73	Q	412	497	Q	128.9	146.2	Q	27.18
Health Care .....	55	185	Q	339	1,300	Q	162.0	142.0	Q	23.17
Lodging .....	64	128	15	727	1,859	242	87.8	68.9	62.0	19.58
Mercantile and Service .....	168	187	29	2,777	5,043	700	60.6	37.1	41.8	23.28
Office .....	93	126	14	2,163	3,879	480	42.9	32.6	28.8	15.11
Public Assembly .....	61	61	16	1,199	1,200	263	51.3	50.9	59.4	22.70
Public Order and Safety .....	Q	18	Q	Q	457	Q	Q	38.5	Q	37.41
Religious Worship .....	26	28	Q	883	1,042	Q	29.1	26.7	Q	23.47
Warehouse and Storage .....	26	68	9	1,434	2,891	270	17.8	23.5	35.0	19.41
Other .....	Q	33	Q	Q	456	Q	Q	73.2	Q	50.45
Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
<b>Census Region and Division</b>										
Northeast .....	123	143	23	2,825	3,796	486	43.4	37.7	47.2	20.04
New England .....	28	41	Q	505	854	Q	55.3	47.9	Q	40.99
Middle Atlantic .....	95	102	Q	2,320	2,943	412	40.8	34.7	49.1	22.41
Midwest .....	332	354	44	4,798	5,375	733	69.1	65.9	60.3	13.91
East North Central .....	217	239	36	3,562	3,443	548	60.8	69.5	65.9	14.23
West North Central .....	115	115	Q	1,236	1,932	Q	93.1	59.4	Q	28.66
South .....	133	328	54	3,654	7,746	891	36.3	42.4	60.1	14.67
South Atlantic .....	53	119	Q	1,397	3,027	379	38.1	39.2	Q	20.76
East South Central .....	30	124	6	726	2,262	175	40.6	54.9	34.6	19.95
West South Central .....	50	86	28	1,531	2,457	337	32.5	34.8	81.6	13.80
West .....	130	202	29	2,396	4,809	636	54.3	41.9	46.3	16.73
Mountain .....	71	65	Q	1,139	1,267	Q	62.5	51.6	41.2	25.62
Pacific .....	59	136	20	1,257	3,541	419	46.8	38.5	48.9	19.23
<b>Climate Zone: 45-Year Average</b>										
Fewer than 2,000 CDD and --										
More than 7,000 HDD .....	78	136	Q	1,127	2,015	Q	68.7	67.5	Q	21.01
5,500-7,000 HDD .....	323	310	41	4,752	5,287	715	67.9	58.6	57.5	15.04
4,000-5,499 HDD .....	165	244	31	3,561	4,838	695	46.4	50.4	44.4	20.88
Fewer than 4,000 HDD .....	100	231	31	2,557	6,259	782	39.0	36.9	39.5	12.82
More than 2,000 CDD and --										
Fewer than 4,000 HDD .....	52	107	27	1,676	3,327	297	30.8	32.1	92.1	20.76
<b>Workers (main shift)</b>										
Fewer than 5 .....	159	121	10	3,430	2,775	376	46.4	43.5	27.7	15.11
5 to 9 .....	133	96	Q	2,231	2,123	129	59.6	45.2	64.0	23.83
10 to 19 .....	66	174	22	1,644	2,760	292	40.2	63.0	77.1	21.08
20 to 49 .....	149	147	39	2,416	3,641	570	61.5	40.3	68.0	15.51
50 to 99 .....	58	134	20	1,399	2,899	464	41.2	46.3	43.8	15.64
100 to 249 .....	69	120	28	1,361	2,483	442	50.4	48.2	62.8	20.77
250 or More .....	84	236	22	1,193	5,045	473	70.5	46.8	46.9	18.35

See footnotes at end of table.

**Table 25. Natural Gas Consumption and Conditional Energy Intensity  
by Year Constructed, 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
	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	
	1.1	0.8	2.0	0.9	0.6	1.3	0.8	0.7	1.6	
RSE Column Factor:	1.1	0.8	2.0	0.9	0.6	1.3	0.8	0.7	1.6	
<b>Weekly Operating Hours</b>										
39 or Fewer .....	56	31	Q	1,438	1,108	Q	38.9	27.9	Q	22.13
40 to 48 .....	200	136	20	4,237	3,839	465	47.1	35.3	43.3	15.82
49 to 60 .....	115	158	19	2,902	4,465	636	39.8	35.5	30.4	15.19
61 to 84 .....	102	147	22	2,068	4,566	414	49.6	32.3	53.4	15.94
85 to 167 .....	86	121	Q	1,105	2,481	380	77.4	48.7	78.9	22.06
Open Continuously .....	158	434	56	1,922	5,267	742	82.2	82.4	74.8	16.46
<b>Ownership and Occupancy</b>										
Nongovernment Owned .....	477	831	125	10,278	17,773	2,205	46.4	46.7	56.6	9.85
Owner Occupied .....	409	690	113	8,586	13,576	1,794	47.7	50.8	62.8	10.66
Nonowner Occupied .....	64	137	12	1,567	4,099	411	40.6	33.4	29.8	16.95
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
Government Owned .....	240	196	25	3,395	3,953	541	70.6	49.7	46.8	15.20
<b>Space in Building Vacant for at Least Three Consecutive Months</b>										
Yes .....	138	239	21	2,859	6,241	624	48.3	38.3	33.4	15.67
No .....	579	788	129	10,813	15,485	2,123	53.5	50.9	60.9	9.69
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	713	1,024	149	13,605	21,679	2,724	52.4	47.3	54.9	9.59
Natural Gas .....	717	1,027	150	13,673	21,726	2,747	52.4	47.3	54.7	9.25
Fuel Oil .....	133	362	Q	2,565	5,981	716	52.0	60.6	63.4	18.98
District Heat .....	Q	81	Q	Q	1,151	Q	Q	70.2	Q	45.06
District Chilled Water .....	40	53	Q	439	725	Q	91.6	73.7	Q	29.82
Propane .....	20	58	Q	423	985	Q	48.4	58.6	Q	27.91
Other .....	17	41	Q	583	804	Q	28.9	50.7	Q	34.20
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating .....	712	1,024	150	13,601	21,612	2,736	52.3	47.4	54.9	9.29
Buildings with Cooling .....	616	973	147	11,824	20,602	2,674	52.1	47.2	55.1	9.85
Buildings with Water Heating .....	686	997	146	12,808	20,904	2,573	53.6	47.7	56.6	9.49
Buildings with Cooking .....	316	546	88	5,104	9,543	1,321	61.8	57.2	66.7	10.87
Buildings with Manufacturing .....	45	56	Q	973	1,388	Q	45.9	40.6	Q	23.72
Buildings with Electricity Generation .....	139	371	52	2,014	7,344	974	69.2	50.5	53.0	16.19
<b>Space-Heating Energy Source</b>										
Natural Gas .....	633	886	122	11,569	17,715	2,252	54.7	50.0	54.2	10.02
Natural Gas Main .....	618	838	116	10,807	15,933	2,068	57.2	52.6	56.0	10.37
Natural Gas Secondary .....	15	48	6	762	1,781	185	20.1	27.1	33.5	25.67
Other Excluding Natural Gas .....	79	138	28	2,033	3,898	484	38.8	35.5	58.1	19.98
Buildings without Space Heating .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
<b>Primary Space-Heating Energy Source</b>										
Electricity .....	34	110	27	911	4,022	494	37.7	27.3	54.7	22.88
Natural Gas .....	618	838	116	10,807	15,933	2,068	57.2	52.6	56.0	10.37
Fuel Oil .....	12	Q	Q	817	Q	Q	Q	Q	Q	33.96
District Heat .....	45	64	Q	919	987	Q	49.1	64.7	Q	29.51
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
<b>Cooling Energy Source</b>										
Natural Gas .....	34	72	Q	438	762	Q	76.9	93.9	Q	32.40
Other Excluding Natural Gas .....	582	901	139	11,386	19,840	2,560	51.1	45.4	54.5	10.15
Buildings without Cooling .....	101	55	Q	1,848	1,124	Q	54.8	48.6	Q	21.30

See footnotes at end of table.

**Table 25. Natural Gas Consumption and Conditional Energy Intensity by Year Constructed, 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
	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	1959 or Before	1960-1989	1990-1995	
	1.1	0.8	2.0	0.9	0.6	1.3	0.8	0.7	1.6	
RSE Column Factor:	1.1	0.8	2.0	0.9	0.6	1.3	0.8	0.7	1.6	
<b>Water-Heating Energy Source</b>										
Natural Gas .....	561	797	115	9,196	13,951	1,712	61.0	57.2	67.1	10.96
Other Excluding Natural Gas .....	125	199	31	3,612	6,952	860	34.6	28.7	35.7	14.18
Buildings without Water Heating .....	31	31	Q	865	822	Q	35.6	37.2	Q	35.17
<b>Cooking Energy Source</b>										
Natural Gas .....	246	460	75	4,151	7,938	1,106	59.2	57.9	67.6	12.32
Other Excluding Natural Gas .....	70	86	Q	953	1,606	Q	73.2	53.7	Q	22.83
Buildings without Cooking .....	401	481	62	8,569	12,182	1,426	46.9	39.5	43.5	12.77
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
1 to 50 .....	35	45	Q	1,601	1,973	Q	22.0	22.6	Q	26.64
51 to 99 .....	86	160	28	2,206	3,529	479	39.0	45.2	58.0	22.18
100 .....	591	820	118	9,795	16,111	2,115	60.3	50.9	56.0	9.76
<b>Annual Consumption (hundred cubic feet)</b>										
1,000 or Less .....	16	18	Q	1,595	2,179	Q	9.8	8.1	Q	19.74
1,001 to 5,000 .....	144	127	13	4,776	5,320	671	30.1	23.8	20.1	11.92
5,001 to 10,000 .....	76	116	9	1,699	2,919	258	44.7	39.8	35.2	16.69
10,001 to 25,000 .....	144	156	37	2,374	4,050	622	60.5	38.6	59.0	14.38
25,001 to 50,000 .....	68	152	29	1,120	2,555	377	60.9	59.5	77.4	15.35
50,001 to 100,000 .....	97	129	21	920	1,771	307	105.9	72.7	68.4	27.40
Over 100,000 .....	172	330	Q	1,188	2,932	415	145.1	112.5	Q	18.67
<b>Gas Transported for the Account of Others</b>										
Used in Building .....	105	159	Q	774	1,156	Q	135.4	137.9	Q	28.07
Not Used in Building .....	612	868	117	12,898	20,570	2,554	47.5	42.2	45.9	9.36

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.