Table 1. Sum of Major Fuel Consumption by End Use, 1995

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
All Buildings	5,321	1,703	350	162	811	1,202	217	182	334	359	4.35
Building Floorspace (square feet)											
1,001 to 5,000	708	251	45	19	62	144	57	66	34	32	7.44
5,001 to 10,000	624	290	33	13	84	102	33	19	28	22	19.26
10,001 to 25,000	824	319	56	20	106	171	31	30	50	43	8.84
25,001 to 50,000	630	217	51	16	89	142	16	19	38	40	7.58
50,001 to 100,000	698	215	55	25	103	170	16	17	49	48	7.47
100,001 to 200,000	687	180	42	23	133	169	21	10	49	61	9.75
200,001 to 500,000	636	134	37	25	140	152	26	9	47	66	10.57
Over 500,000	514	98	32	21	95	152	19	12	37	48	12.32
Principal Building Activity											
Education	614	254	37	13	134	122	11	8	11	22	7.84
Food Sales	137	18	9	3	6	22	4	71	1	5	13.65
Food Service	332	42	26	7	37	50	105	43	3	18	17.57
Health Care	561	129	23	17	147	92	26	11	36	80	11.15
Lodging	461	82	29	6	186	84	24	8	14	27	11.28
Mercantile and Service	973	390	74	31	65	298	20	11	37	48	10.17
Office	1,019	255	95	54	91	294	11	5	159	55	8.80
Public Assembly	449	212	25	14	69	86	11	7	10	15	21.90
Public Order and Safety	124	35	8	3	30	21	Q	(*)	7	16	21.52
Religious Worship	104	66	5	3	9	14	1	2	1	3	12.40
Warehouse and Storage	325	133	8	3	17	83	(*)	14	37	28	12.71
Other	173	60	9	8	15	27	Q	1	15	36	25.71
Vacant	51	28	1	1	6	9	Q	1	1	5	26.18
Year Constructed											
1919 or Before	292	126	10	6	37	55	15	5	12	28	14.81
1920 to 1945	508	248	23	11	72	82	12	11	22	27	10.01
1946 to 1959	826	346	41	19	131	144	28	25	43	48	12.14
1960 to 1969	1,024	328	62	30	182	221	44	32	58	66	7.82
1970 to 1979	1,125	295	82	41	180	290	36	42	76	84	7.29
1980 to 1989	1,059	242	96	39	140	288	51	37	93	72	11.13
1990 to 1992	297	69	22	9	45	74	24	14	21	19	17.48
1993 to 1995	190	50	16	7	24	47	7	15	10	14	16.24
Floors											
One	1,846	637	138	51	195	418	105	112	100	91	7.96
Two	1,122	398	80	29	154	258	34	38	65	64	8.21
Three	675	256	37	17	110	136	21	10	38	49	7.54
Four to Nine	1,229	321	66	42	265	272	41	16	88	116	8.63
Ten or More	451	92	29	22	87	118	16	6	43	38	9.15
Census Region and Division											
Northeast	1,035	385	48	24	169	211	32	36	54	76	7.71
New England	274	118	10	5	48	50	6	6	13	17	14.24
Middle Atlantic	761	266	38	19	121	161	26	30	41	59	9.49
Midwest	1,497	668	62	35	224	270	51	34	73	80	8.22
East North Central	987	439	41	22	155	168	42	24	45	50	7.95
West North Central	510	229	20	14	69	102	8	10	29	30	19.78
South	1,684	376	176	66	219	444	84	72	122	126	6.88
South Atlantic	772	164	83	31	88	211	44	29	62	60	9.26
East South Central	417	120	37	13	57	104	11	18	26	30	16.49
West South Central	494	92	56	21	74	129	29	25	34	35	11.94
West	1,106	275	65	37	199	277	51	40	85	77	12.72
Mountain	429	157	23	13	83	84	11	12	26	21	28.29
Pacific	677	117	42	24	117	193	40	28	59	56	8.71

See footnotes at end of table.

Table 1. Sum of Major Fuel Consumption by End Use, 1995 (Continued)

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
Climate Zone: 45-Year Average											
Fewer than 2,000 CDD and --											
More than 7,000 HDD	499	241	16	9	72	90	11	12	23	24	13.87
5,500-7,000 HDD	1,591	706	59	35	266	271	50	43	76	85	10.06
4,000-5,499 HDD	1,407	447	82	44	202	337	49	39	94	112	10.32
Fewer than 4,000 HDD	1,078	214	92	39	165	292	60	50	83	83	10.26
More than 2,000 CDD and --											
Fewer than 4,000 HDD	746	95	101	35	106	212	47	37	57	56	12.01
Workers (main shift)											
Fewer than 5	789	373	35	18	112	131	13	47	27	31	14.26
5 to 9	509	227	29	12	55	96	17	25	22	26	13.02
10 to 19	614	227	42	14	71	127	50	25	34	24	12.46
20 to 49	868	279	62	20	118	188	56	39	50	56	7.95
50 to 99	630	191	47	16	113	154	20	16	37	36	7.39
100 to 249	649	164	51	22	121	160	18	9	49	55	10.25
250 or More	1,262	243	84	60	222	345	43	20	116	129	10.08
Weekly Operating Hours											
39 or Fewer	180	103	10	4	19	22	3	3	6	9	13.05
40 to 48	879	418	57	25	71	164	14	11	81	38	9.02
49 to 60	937	360	63	36	82	224	10	14	92	56	9.98
61 to 84	796	248	63	27	86	219	42	26	41	44	7.22
85 to 167	831	211	55	22	127	198	73	73	29	42	14.55
Open Continuously	1,698	363	103	48	426	374	75	54	86	169	7.82
Ownership and Occupancy											
Nongovernment Owned	3,950	1,206	275	120	572	908	189	160	256	264	4.83
Owner Occupied	3,287	1,023	218	97	514	718	161	136	198	220	5.38
Nonowner Occupied	647	176	57	22	55	186	28	24	57	42	8.98
Unoccupied	16	7	Q	(*)	Q	Q	Q	(*)	(*)	2	44.78
Government Owned	1,372	498	75	42	239	294	28	22	78	94	9.53
Federal	266	77	13	12	34	72	3	3	26	25	26.79
State	438	135	24	14	93	96	9	6	25	35	17.00
Local	668	286	38	16	112	126	16	13	27	34	12.58
Space in Building Vacant for at Least Three Consecutive Months											
Yes	1,120	325	84	41	143	290	36	19	86	95	9.94
No	4,202	1,378	267	120	668	911	181	162	248	264	5.11
Energy Sources (more than one may apply)											
Electricity	5,312	1,696	350	162	809	1,202	217	182	334	358	4.37
Natural Gas	3,931	1,314	238	109	631	816	209	117	215	282	4.65
Fuel Oil	1,732	488	98	60	334	379	59	28	116	169	6.63
District Heat	1,051	364	28	31	235	189	21	12	62	108	17.05
District Chilled Water	542	172	4	20	119	102	12	6	33	73	21.54
Propane	392	107	30	13	58	94	10	25	20	36	12.76
Other	259	106	11	5	Q	42	7	4	10	Q	40.79
Space-Heating Energy Sources (more than one may apply)											
Electricity	1,908	431	177	68	260	518	94	78	147	135	5.99
Natural Gas	3,095	1,162	187	84	459	643	131	93	174	161	4.97
Fuel Oil	722	287	31	18	137	134	17	11	37	50	14.19
District Heat	1,036	364	28	31	231	187	20	12	61	101	12.91
Propane	129	20	11	5	17	37	3	16	8	13	18.99
Other	77	20	5	2	11	16	3	2	3	Q	16.02

See footnotes at end of table.

Table 1. Sum of Major Fuel Consumption by End Use, 1995 (Continued)

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
Primary Space-Heating Energy Source											
Electricity	1,006	115	128	43	117	318	64	54	93	73	7.38
Natural Gas	2,839	1,094	165	76	411	584	122	87	156	145	5.55
Fuel Oil	305	151	12	5	55	46	5	5	11	15	11.86
District Heat	977	339	27	30	216	179	17	11	59	98	14.08
Propane	71	2	8	3	3	26	Q	13	5	9	27.39
Other	16	3	Q	1	2	5	(*)	Q	1	1	28.43
Cooling Energy Sources (more than one may apply)											
Electricity	4,532	1,345	345	144	673	1,059	207	164	295	297	4.22
Natural Gas	220	68	11	7	33	47	8	4	12	30	31.72
District Chilled Water	542	172	4	20	119	102	12	6	33	73	21.54
Water-Heating Energy Sources (more than one may apply)											
Electricity	1,657	483	158	66	73	500	54	70	144	109	6.42
Natural Gas	2,769	901	168	71	539	551	152	95	137	155	5.46
Fuel Oil	203	70	10	3	66	28	3	4	7	12	14.83
District Heat	762	232	21	22	204	130	17	9	42	83	14.12
Propane	75	12	9	3	5	24	Q	Q	3	8	22.04
Cooking Energy Sources (more than one may apply)											
Electricity	1,496	324	109	50	253	387	108	80	79	107	6.75
Natural Gas	1,698	375	107	46	351	348	206	73	68	124	6.11
Propane	125	25	14	5	14	35	4	15	4	10	22.10
Percent of Floorspace Heated											
Not Heated	74	0	7	2	5	31	Q	8	7	10	19.70
1 to 50	247	86	16	7	15	63	9	14	20	18	11.59
51 to 99	805	235	60	27	110	207	34	31	53	45	10.17
100	4,195	1,382	267	125	681	900	171	128	254	286	4.42
Percent of Floorspace Cooled											
Not Cooled	399	212	0	4	60	70	5	10	17	20	13.13
1 to 50	1,044	528	42	15	140	177	15	23	45	59	9.62
51 to 99	1,360	337	102	50	225	348	63	44	92	100	6.15
100	2,519	627	206	93	387	607	134	105	180	179	7.08
Percent Lit when Open											
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
1 to 50	308	149	15	7	39	43	6	13	15	21	8.84
51 to 99	884	287	53	27	144	186	33	26	59	70	7.15
100	4,103	1,249	281	129	625	972	178	143	259	266	5.13
Building Not in Use/ Electricity Not Used	26	18	Q	(*)	3	(*)	Q	Q	1	2	34.18
Percent Lit when Closed											
Zero	753	366	41	21	59	140	10	19	50	46	9.36
1 to 50	2,639	924	186	84	298	611	122	96	186	131	6.42
51 to 100	208	33	19	9	26	76	10	13	Q	12	21.04
Never Closed	1,696	362	103	48	425	374	75	54	86	169	8.55
Building Not in Use/ Electricity Not Used	26	18	Q	(*)	Q	(*)	Q	Q	1	2	41.64
Heating Equipment (more than one may apply)											
Heat Pumps	500	87	53	17	93	135	18	14	43	40	7.83
Furnaces	1,151	480	68	30	110	242	47	64	56	53	7.41
Individual Space Heaters	1,469	521	91	42	199	339	37	49	96	95	8.21
District Heat	1,063	364	29	32	232	197	23	13	64	108	12.73
Boilers	1,891	673	108	51	370	376	60	26	107	119	5.84
Packaged Heating Units	1,464	341	136	47	184	392	103	74	100	86	5.44
Other	670	136	52	30	99	202	22	15	58	56	11.56

See footnotes at end of table.

Table 1. Sum of Major Fuel Consumption by End Use, 1995 (Continued)

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
Cooling Equipment (more than one may apply)											
Residential-Type Central A/C	946	314	67	26	141	192	53	42	50	59	10.36
Heat Pumps	599	112	62	21	101	162	22	20	53	46	8.23
Individual A/C	1,200	450	68	21	244	206	49	30	49	82	8.01
District Chilled Water	542	172	4	20	119	102	12	6	33	73	21.54
Central Chillers	1,473	320	110	63	290	376	50	21	116	124	7.35
Packaged A/C Units	2,584	692	209	85	344	656	137	110	179	171	5.09
Swamp Coolers	252	53	16	8	53	56	21	13	16	17	15.64
Other	105	27	6	4	13	30	4	5	9	8	20.45
Lighting Equipment Types (more than one may apply)											
Incandescent	3,513	1,081	226	104	630	771	166	105	196	233	5.03
Standard Fluorescent	5,202	1,647	344	160	795	1,180	215	178	330	352	4.34
Compact Fluorescent	1,746	427	119	61	325	424	81	44	118	147	7.76
High-Intensity Discharge	1,673	502	105	52	284	412	58	40	102	119	6.73
Halogen	1,097	323	68	36	198	255	43	24	68	80	11.17
Other	48	7	5	3	6	17	1	Q	3	5	32.02
Water-Heating Equipment (more than one may apply)											
Centralized System	3,445	1,134	205	99	595	702	152	130	200	226	5.37
Distributed System	1,233	335	109	44	124	352	48	35	94	93	5.36
Combination of Centralized and Distributed System	412	112	23	13	92	95	17	9	24	27	12.04
Personal Computers and/or Computer Terminals											
None	666	300	33	15	92	107	32	34	17	37	11.25
1 to 4	922	342	56	22	107	181	69	66	32	48	5.55
5 to 9	522	195	37	11	64	111	27	24	26	27	14.30
10 to 19	560	194	37	12	100	123	15	14	36	28	17.56
20 to 49	646	201	50	17	107	152	18	15	42	43	8.50
50 to 99	486	138	38	14	79	122	13	7	36	40	9.74
100 to 249	585	145	42	23	109	151	16	12	43	45	9.14
250 or More	934	188	59	48	154	255	27	11	102	92	12.76
Commercial Refrigeration Equipment (more than one may apply)											
Any Equipment	2,706	604	191	85	473	642	210	155	132	214	4.44
Walk-in Units	2,172	427	156	69	387	526	187	138	106	176	5.25
Cases and Cabinets	2,372	526	170	75	417	563	191	136	109	184	4.99
None	2,615	1,099	160	76	338	560	8	26	202	144	6.80
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	4,578	1,416	307	141	720	1,040	189	160	295	309	4.94
Wall Insulation	3,085	852	221	98	510	719	138	112	215	218	5.63
Storm or Multiple Glazing	3,074	949	191	91	521	673	147	91	199	210	5.26
Tinted, Reflective or Shading Glass	2,590	658	188	98	409	642	123	76	201	195	7.07
Exterior or Interior Shading or Awnings	3,772	1,110	254	122	615	862	164	96	265	283	5.09
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	1,726	380	114	71	325	437	78	36	139	146	7.75
Economizer Cycle	2,110	549	140	75	381	494	98	52	155	167	7.24
HVAC Maintenance	4,512	1,367	303	141	734	1,033	188	130	297	319	4.53
Other Energy Efficient Equipment	776	191	52	29	139	186	32	20	58	68	8.64

See footnotes at end of table.

Table 1. Sum of Major Fuel Consumption by End Use, 1995 (Continued)

Building Characteristics	Sum of Major Fuel Consumption (trillion Btu)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
Lighting Conservation Features (more than one may apply)											
Specular Reflectors	1,934	566	127	63	310	467	82	53	127	140	8.31
Energy-Efficient Ballasts	3,120	871	213	106	507	754	125	97	221	226	5.06
Natural Lighting Control Sensors	753	223	53	22	130	180	28	22	40	55	14.14
Occupancy Sensors	722	175	44	26	131	169	34	19	58	65	9.29
Time Clock	1,366	296	113	54	219	386	55	41	105	97	7.61
Manual Dimmer Switches	1,642	431	110	60	290	383	94	33	115	125	7.63
Other	332	86	24	12	52	87	9	9	28	24	12.64
Off-Hour Equipment Reduction (more than one may apply)											
Heating	3,023	1,138	203	95	339	682	123	88	201	153	5.84
Cooling	2,851	1,007	212	95	314	666	122	87	200	147	6.36
Lighting	3,550	1,312	243	112	376	815	140	120	246	185	5.55

(*) = Value rounds to zero in the units displayed.
NF = No applicable RSE row/column 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 types of equipment represent consumption in buildings which have the equipment, not the consumption by the specific piece of equipment. • 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 2. Energy End-Use Intensities for Sum of Major Fuels, 1995

Building Characteristics	Energy Intensity for Sum of Major Fuels (thousand Btu per sq. ft.)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
All Buildings	90.5	29.0	6.0	2.8	13.8	20.4	3.7	3.1	5.7	6.1	3.79
Building Floorspace (square feet)											
1,001 to 5,000	111.7	39.5	7.0	2.9	9.7	22.7	8.9	10.4	5.4	5.1	7.03
5,001 to 10,000	82.8	38.5	4.4	1.7	11.1	13.6	4.3	2.5	3.8	2.9	17.60
10,001 to 25,000	70.9	27.4	4.8	1.7	9.1	14.7	2.6	2.5	4.3	3.7	9.50
25,001 to 50,000	82.0	28.2	6.7	2.1	11.6	18.5	2.1	2.5	5.0	5.2	4.89
50,001 to 100,000	87.6	27.0	7.0	3.2	12.9	21.3	2.0	2.1	6.1	6.0	5.96
100,001 to 200,000	101.4	26.6	6.2	3.3	19.6	25.0	3.1	1.4	7.2	8.9	8.53
200,001 to 500,000	114.6	24.0	6.7	4.5	25.2	27.4	4.6	1.6	8.5	11.9	8.15
Over 500,000	96.8	18.5	6.0	3.9	18.0	28.6	3.5	2.2	7.0	9.1	12.38
Principal Building Activity											
Education	79.3	32.8	4.8	1.6	17.4	15.8	1.4	1.0	1.5	2.9	5.72
Food Sales	213.5	27.5	13.4	4.4	9.1	33.9	5.6	110.9	1.3	7.4	10.26
Food Service	245.5	30.9	19.5	5.3	27.5	37.0	77.5	31.6	2.6	13.7	13.47
Health Care	240.4	55.2	9.9	7.2	63.0	39.3	11.2	4.7	15.5	34.4	10.08
Lodging	127.3	22.7	8.1	1.7	51.4	23.2	6.6	2.3	3.8	7.5	7.33
Mercantile and Service	76.4	30.6	5.8	2.5	5.1	23.4	1.5	0.9	2.9	3.7	10.17
Office	97.2	24.3	9.1	5.2	8.7	28.1	1.1	0.4	15.1	5.2	6.03
Public Assembly	113.7	53.6	6.3	3.5	17.5	21.9	2.8	1.8	2.4	3.8	20.97
Public Order and Safety	97.2	27.8	6.1	2.3	23.4	16.4	Q	0.2	5.8	12.7	18.20
Religious Worship	37.4	23.7	1.9	0.9	3.2	5.0	0.5	0.6	0.4	1.1	12.45
Warehouse and Storage	38.3	15.7	0.9	0.3	2.0	9.8	(*)	1.7	4.4	3.4	8.57
Other	172.2	59.6	9.3	8.3	15.3	26.7	Q	0.7	15.2	35.9	15.83
Vacant	21.5	11.9	0.6	0.3	2.4	3.6	Q	0.2	0.5	1.9	28.33
Year Constructed											
1919 or Before	79.4	34.2	2.6	1.6	10.0	14.9	4.0	1.3	3.2	7.5	15.88
1920 to 1945	75.7	37.0	3.4	1.6	10.7	12.3	1.8	1.6	3.3	4.1	8.58
1946 to 1959	88.9	37.2	4.4	2.1	14.1	15.5	3.0	2.7	4.6	5.2	9.11
1960 to 1969	94.3	30.2	5.7	2.7	16.8	20.4	4.0	3.0	5.3	6.1	6.17
1970 to 1979	99.3	26.0	7.2	3.6	15.8	25.6	3.2	3.7	6.7	7.5	8.05
1980 to 1989	86.5	19.8	7.8	3.2	11.5	23.5	4.2	3.0	7.6	5.9	9.10
1990 to 1992	114.6	26.6	8.4	3.5	17.2	28.7	9.3	5.6	7.9	7.4	13.76
1993 to 1995	92.2	24.3	7.9	3.2	11.7	22.7	3.3	7.4	4.9	6.8	14.86
Floors											
One	75.2	26.0	5.6	2.1	7.9	17.0	4.3	4.6	4.1	3.7	7.30
Two	79.4	28.2	5.7	2.1	10.9	18.3	2.4	2.7	4.6	4.6	6.38
Three	92.0	34.8	5.1	2.3	15.0	18.6	2.8	1.4	5.2	6.7	6.72
Four to Nine	139.8	36.5	7.5	4.8	30.2	31.0	4.7	1.8	10.0	13.2	7.24
Ten or More	113.4	23.1	7.3	5.6	21.8	29.6	4.1	1.4	10.8	9.6	10.06
Census Region and Division											
Northeast	87.1	32.4	4.0	2.0	14.2	17.7	2.7	3.0	4.5	6.4	8.44
New England	87.3	37.7	3.3	1.6	15.2	16.0	1.9	1.9	4.1	5.5	10.89
Middle Atlantic	87.1	30.4	4.3	2.1	13.9	18.4	3.0	3.4	4.6	6.7	9.46
Midwest	104.5	46.7	4.3	2.5	15.6	18.8	3.5	2.4	5.1	5.6	7.54
East North Central	102.2	45.5	4.3	2.2	16.0	17.4	4.4	2.5	4.6	5.2	7.07
West North Central	109.3	49.1	4.3	3.0	14.8	21.8	1.8	2.1	6.1	6.3	17.03
South	80.8	18.0	8.4	3.2	10.5	21.3	4.0	3.4	5.9	6.0	5.47
South Atlantic	81.5	17.3	8.8	3.3	9.3	22.2	4.6	3.0	6.6	6.4	6.80
East South Central	84.8	24.4	7.5	2.7	11.7	21.2	2.2	3.7	5.3	6.2	15.33
West South Central	76.7	14.2	8.7	3.3	11.4	20.1	4.5	3.8	5.2	5.4	10.64
West	94.2	23.4	5.5	3.1	17.0	23.6	4.3	3.4	7.2	6.5	11.61
Mountain	111.3	40.8	5.9	3.3	21.4	21.7	2.8	3.2	6.8	5.4	21.62
Pacific	85.9	14.9	5.4	3.1	14.8	24.5	5.1	3.6	7.5	7.1	10.86

See footnotes at end of table.

Table 2. Energy End-Use Intensities for Sum of Major Fuels, 1995 (Continued)

Building Characteristics	Energy Intensity for Sum of Major Fuels (thousand Btu per sq. ft.)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
Climate Zone: 45-Year Average											
Fewer than 2,000 CDD and --											
More than 7,000 HDD	97.8	47.3	3.1	1.8	14.2	17.7	2.2	2.3	4.6	4.6	10.85
5,500-7,000 HDD	109.0	48.4	4.1	2.4	18.2	18.6	3.4	3.0	5.2	5.8	8.23
4,000-5,499 HDD	92.8	29.5	5.4	2.9	13.3	22.2	3.3	2.6	6.2	7.4	8.87
Fewer than 4,000 HDD	79.9	15.9	6.8	2.9	12.3	21.6	4.4	3.7	6.2	6.1	6.26
More than 2,000 CDD and --											
Fewer than 4,000 HDD	71.6	9.1	9.7	3.3	10.2	20.3	4.6	3.6	5.5	5.3	10.61
Workers (main shift)											
Fewer than 5	56.8	26.9	2.5	1.3	8.1	9.5	0.9	3.4	1.9	2.3	13.20
5 to 9	80.8	36.1	4.6	1.8	8.8	15.3	2.8	3.9	3.5	4.1	11.91
10 to 19	86.5	31.9	5.9	2.0	9.9	17.9	7.0	3.5	4.7	3.4	12.16
20 to 49	95.1	30.5	6.8	2.2	12.9	20.6	6.1	4.3	5.4	6.2	6.91
50 to 99	90.9	27.6	6.8	2.3	16.2	22.3	2.9	2.3	5.3	5.2	6.35
100 to 249	108.3	27.4	8.5	3.6	20.2	26.7	3.0	1.5	8.1	9.2	6.37
250 or More	133.7	25.7	8.9	6.3	23.5	36.5	4.6	2.2	12.3	13.7	8.52
Weekly Operating Hours											
39 or Fewer	29.3	16.8	1.6	0.7	3.0	3.6	0.4	0.5	0.9	1.5	12.10
40 to 48	66.4	31.6	4.3	1.9	5.3	12.4	1.1	0.9	6.1	2.9	8.20
49 to 60	76.6	29.4	5.1	2.9	6.7	18.3	0.8	1.1	7.5	4.6	7.91
61 to 84	79.2	24.7	6.3	2.7	8.6	21.8	4.1	2.6	4.1	4.3	5.45
85 to 167	134.0	34.0	8.9	3.6	20.5	32.0	11.8	11.8	4.6	6.8	15.03
Open Continuously	155.7	33.2	9.5	4.4	39.1	34.3	6.9	4.9	7.9	15.5	5.89
Ownership and Occupancy											
Nongovernment Owned	84.6	25.8	5.9	2.6	12.2	19.4	4.0	3.4	5.5	5.7	3.57
Owner Occupied	92.4	28.7	6.1	2.7	14.5	20.2	4.5	3.8	5.6	6.2	4.30
Nonowner Occupied	66.7	18.1	5.9	2.3	5.7	19.2	2.9	2.5	5.9	4.4	6.70
Unoccupied	11.0	5.2	Q	0.1	Q	Q	Q	0.1	0.2	1.1	48.88
Government Owned	113.6	41.2	6.2	3.5	19.8	24.3	2.3	1.8	6.5	7.8	10.17
Federal	151.8	43.9	7.4	6.9	19.5	41.2	1.7	1.7	14.9	14.5	23.55
State	153.6	47.3	8.5	4.9	32.6	33.7	3.3	2.0	8.6	12.2	12.54
Local	89.4	38.2	5.1	2.2	15.0	16.8	2.1	1.8	3.7	4.6	11.30
Space in Building Vacant for at Least Three Consecutive Months											
Yes	70.7	20.5	5.3	2.6	9.0	18.3	2.3	1.2	5.4	6.0	7.76
No	97.9	32.1	6.2	2.8	15.6	21.2	4.2	3.8	5.8	6.1	4.40
Energy Sources (more than one may apply)											
Electricity	93.1	29.7	6.1	2.8	14.2	21.1	3.8	3.2	5.8	6.3	3.81
Natural Gas	103.0	34.5	6.2	2.9	16.5	21.4	5.5	3.1	5.6	7.4	3.82
Fuel Oil	120.1	33.9	6.8	4.1	23.1	26.3	4.1	2.0	8.1	11.7	4.90
District Heat	185.8	64.4	5.0	5.6	41.6	33.4	3.6	2.1	10.9	19.1	18.90
District Chilled Water	214.8	68.0	1.6	7.9	47.4	40.3	4.8	2.5	13.3	29.1	18.65
Propane	73.4	20.0	5.7	2.4	10.9	17.5	1.9	4.6	3.8	6.7	9.70
Other	110.7	45.5	4.8	2.3	Q	18.0	2.9	1.6	4.2	Q	39.41
Space-Heating Energy Sources (more than one may apply)											
Electricity	86.1	19.5	8.0	3.1	11.7	23.4	4.3	3.5	6.6	6.1	5.43
Natural Gas	98.2	36.8	5.9	2.7	14.5	20.4	4.2	3.0	5.5	5.1	4.17
Fuel Oil	109.3	43.4	4.7	2.7	20.7	20.3	2.6	1.6	5.6	7.6	11.72
District Heat	184.8	64.9	5.0	5.6	41.1	33.4	3.5	2.1	10.9	18.1	13.55
Propane	63.8	9.7	5.6	2.3	8.6	18.2	1.5	7.7	3.8	6.5	17.87
Other	72.9	19.3	4.3	2.1	10.8	15.2	2.6	2.2	3.3	Q	11.81

See footnotes at end of table.

Table 2. Energy End-Use Intensities for Sum of Major Fuels, 1995 (Continued)

Building Characteristics	Energy Intensity for Sum of Major Fuels (thousand Btu per sq. ft.)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
Primary Space-Heating Energy Source											
Electricity	74.5	8.5	9.5	3.2	8.7	23.5	4.8	4.0	6.9	5.4	7.54
Natural Gas	98.5	38.0	5.7	2.6	14.3	20.3	4.2	3.0	5.4	5.0	4.54
Fuel Oil	72.6	35.9	2.8	1.2	13.2	10.9	1.2	1.2	2.6	3.7	6.76
District Heat	184.7	64.1	5.0	5.6	40.8	33.8	3.3	2.1	11.1	18.5	14.79
Propane	45.9	Q	4.9	2.1	2.2	16.9	Q	8.6	3.2	5.6	27.72
Other	31.5	5.6	Q	1.3	4.0	10.3	0.8	1.8	1.4	2.5	23.14
Cooling Energy Sources (more than one may apply)											
Electricity	94.9	28.2	7.2	3.0	14.1	22.2	4.3	3.4	6.2	6.2	3.90
Natural Gas	167.3	51.4	8.1	5.3	25.1	36.1	6.3	2.7	9.2	23.0	23.49
District Chilled Water	214.8	68.0	1.6	7.9	47.4	40.3	4.8	2.5	13.3	29.1	18.65
Water-Heating Energy Sources (more than one may apply)											
Electricity	71.9	20.9	6.8	2.9	3.2	21.7	2.3	3.0	6.3	4.7	5.79
Natural Gas	111.4	36.2	6.7	2.9	21.7	22.2	6.1	3.8	5.5	6.2	4.05
Fuel Oil	94.2	32.6	4.5	1.3	30.9	12.9	1.5	1.7	3.0	5.7	10.19
District Heat	192.9	58.7	5.3	5.6	51.7	32.9	4.4	2.3	10.7	21.1	16.76
Propane	73.6	11.4	8.6	2.8	4.6	23.0	Q	Q	2.7	7.9	19.10
Cooking Energy Sources (more than one may apply)											
Electricity	122.1	26.4	8.9	4.1	20.7	31.6	8.8	6.5	6.4	8.7	7.05
Natural Gas	128.7	28.4	8.1	3.5	26.6	26.4	15.6	5.6	5.1	9.4	6.13
Propane	84.3	16.8	9.7	3.1	9.7	23.4	2.5	9.8	2.6	6.6	18.43
Percent of Floorspace Heated											
Not Heated	16.8	0.0	1.7	0.6	Q	7.0	Q	1.8	1.6	2.3	19.48
1 to 50	39.7	13.8	2.6	1.1	2.4	10.1	1.4	2.3	3.2	2.8	10.16
51 to 99	90.7	26.5	6.8	3.1	12.4	23.3	3.9	3.5	6.0	5.1	11.60
100	106.9	35.2	6.8	3.2	17.4	22.9	4.4	3.3	6.5	7.3	4.40
Percent of Floorspace Cooled											
Not Cooled	45.1	24.0	0.0	0.5	6.8	7.9	0.6	1.1	1.9	2.3	9.73
1 to 50	69.5	35.1	2.8	1.0	9.3	11.8	1.0	1.5	3.0	3.9	8.40
51 to 99	108.4	26.8	8.1	4.0	17.9	27.7	5.0	3.5	7.3	8.0	6.52
100	112.6	28.0	9.2	4.2	17.3	27.2	6.0	4.7	8.0	8.0	6.00
Percent Lit when Open											
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
1 to 50	51.2	24.9	2.5	1.1	6.4	7.2	1.0	2.1	2.5	3.5	7.73
51 to 99	91.2	29.6	5.5	2.7	14.9	19.2	3.4	2.6	6.1	7.2	6.36
100	101.3	30.8	6.9	3.2	15.4	24.0	4.4	3.5	6.4	6.6	4.53
Building Not in Use/ Electricity Not Used	10.8	7.5	Q	0.1	1.3	0.2	Q	Q	0.3	0.6	37.57
Percent Lit when Closed											
Zero	57.4	27.9	3.2	1.6	4.5	10.7	0.8	1.4	3.9	3.5	7.43
1 to 50	85.9	30.1	6.1	2.7	9.7	19.9	4.0	3.1	6.1	4.3	5.12
51 to 100	108.6	17.5	10.1	4.5	13.5	39.9	5.0	6.5	Q	6.1	21.00
Never Closed	158.9	33.9	9.7	4.5	39.8	35.0	7.0	5.0	8.0	15.8	5.94
Building Not in Use/ Electricity Not Used	10.8	7.5	Q	0.1	Q	0.2	Q	Q	0.3	0.6	48.80
Heating Equipment (more than one may apply)											
Heat Pumps	85.6	14.9	9.0	2.9	15.9	23.1	3.1	2.4	7.3	6.9	5.76
Furnaces	77.1	32.2	4.6	2.0	7.4	16.2	3.2	4.3	3.7	3.5	7.00
Individual Space Heaters	87.4	31.0	5.4	2.5	11.8	20.2	2.2	2.9	5.7	5.6	7.28
District Heat	179.9	61.6	4.9	5.5	39.2	33.3	3.9	2.1	10.8	18.3	13.51
Boilers	112.9	40.2	6.4	3.1	22.1	22.4	3.6	1.6	6.4	7.1	5.14
Packaged Heating Units	86.7	20.2	8.1	2.8	10.9	23.2	6.1	4.4	5.9	5.1	4.82
Other	107.2	21.7	8.3	4.8	15.8	32.3	3.6	2.5	9.3	8.9	11.41

See footnotes at end of table.

Table 2. Energy End-Use Intensities for Sum of Major Fuels, 1995 (Continued)

Building Characteristics	Energy Intensity for Sum of Major Fuels (thousand Btu per sq. ft.)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
Cooling Equipment (more than one may apply)											
Residential-Type Central A/C	102.4	34.0	7.2	2.8	15.3	20.8	5.8	4.6	5.4	6.4	9.15
Heat Pumps	86.5	16.1	9.0	3.0	14.6	23.4	3.2	2.8	7.6	6.6	5.41
Individual A/C	96.1	36.0	5.5	1.7	19.5	16.5	3.9	2.4	3.9	6.6	6.24
District Chilled Water	214.8	68.0	1.6	7.9	47.4	40.3	4.8	2.5	13.3	29.1	18.65
Central Chillers	133.1	29.0	10.0	5.7	26.2	34.0	4.6	1.9	10.5	11.2	6.46
Packaged A/C Units	97.0	26.0	7.9	3.2	12.9	24.6	5.1	4.1	6.7	6.4	4.20
Swamp Coolers	102.8	21.6	6.5	3.4	21.4	22.7	8.6	5.2	6.4	6.9	14.28
Other	111.2	28.3	5.9	3.8	14.2	31.8	4.5	4.9	9.5	8.3	15.16
Lighting Equipment Types (more than one may apply)											
Incandescent	98.4	30.3	6.3	2.9	17.7	21.6	4.7	2.9	5.5	6.5	4.46
Standard Fluorescent	96.4	30.5	6.4	3.0	14.7	21.9	4.0	3.3	6.1	6.5	3.71
Compact Fluorescent	122.3	29.9	8.4	4.3	22.8	29.7	5.7	3.1	8.3	10.3	6.72
High-Intensity Discharge	102.9	30.9	6.5	3.2	17.5	25.3	3.6	2.4	6.3	7.3	6.94
Halogen	113.5	33.4	7.1	3.8	20.5	26.4	4.5	2.5	7.0	8.3	8.63
Other	86.6	12.4	8.9	4.7	11.1	31.2	2.6	Q	5.4	8.3	33.67
Water-Heating Equipment (more than one may apply)											
Centralized System	108.8	35.8	6.5	3.1	18.8	22.2	4.8	4.1	6.3	7.1	5.12
Distributed System	74.7	20.3	6.6	2.6	7.5	21.4	2.9	2.1	5.7	5.6	4.69
Combination of Centralized and Distributed System	120.8	32.9	6.8	3.8	27.0	27.8	4.9	2.7	7.0	7.9	10.34
Personal Computers and/or Computer Terminals											
None	53.0	23.9	2.6	1.2	7.3	8.5	2.5	2.7	1.3	3.0	10.20
1 to 4	80.9	30.0	4.9	1.9	9.4	15.9	6.1	5.8	2.8	4.2	6.57
5 to 9	97.2	36.3	6.8	2.1	11.8	20.7	5.1	4.4	4.9	5.1	12.27
10 to 19	94.1	32.7	6.3	2.0	16.9	20.7	2.5	2.4	6.0	4.7	17.57
20 to 49	91.6	28.5	7.1	2.5	15.2	21.6	2.6	2.1	5.9	6.0	7.47
50 to 99	98.4	28.0	7.6	2.9	15.9	24.6	2.6	1.4	7.2	8.0	7.47
100 to 249	112.7	27.9	8.0	4.4	20.9	29.2	3.1	2.3	8.3	8.6	8.58
250 or More	148.2	29.8	9.3	7.6	24.4	40.4	4.2	1.7	16.2	14.5	10.32
Commercial Refrigeration Equipment (more than one may apply)											
Any Equipment	122.0	27.2	8.6	3.9	21.3	28.9	9.5	7.0	6.0	9.7	4.78
Walk-in Units	133.7	26.3	9.6	4.3	23.8	32.4	11.5	8.5	6.5	10.8	5.29
Cases and Cabinets	124.0	27.5	8.9	3.9	21.8	29.5	10.0	7.1	5.7	9.6	5.31
None	71.5	30.0	4.4	2.1	9.2	15.3	0.2	0.7	5.5	3.9	5.56
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	98.8	30.5	6.6	3.0	15.5	22.4	4.1	3.5	6.4	6.7	4.37
Wall Insulation	97.3	26.9	7.0	3.1	16.1	22.7	4.4	3.5	6.8	6.9	4.88
Storm or Multiple Glazing	106.5	32.9	6.6	3.2	18.1	23.3	5.1	3.2	6.9	7.3	4.84
Tinted, Reflective or Shading Glass	106.8	27.1	7.8	4.0	16.9	26.5	5.1	3.1	8.3	8.0	5.49
Exterior or Interior Shading or Awnings	101.4	29.8	6.8	3.3	16.5	23.2	4.4	2.6	7.1	7.6	4.96
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	128.1	28.2	8.5	5.3	24.1	32.4	5.8	2.7	10.3	10.9	6.91
Economizer Cycle	127.5	33.2	8.5	4.6	23.0	29.8	5.9	3.1	9.4	10.1	5.71
HVAC Maintenance	104.6	31.7	7.0	3.3	17.0	23.9	4.4	3.0	6.9	7.4	4.04
Other Energy Efficient Equipment	120.2	29.6	8.1	4.5	21.6	28.9	4.9	3.1	9.0	10.5	8.33

See footnotes at end of table.

Table 2. Energy End-Use Intensities for Sum of Major Fuels, 1995 (Continued)

Building Characteristics	Energy Intensity for Sum of Major Fuels (thousand Btu per sq. ft.)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
Lighting Conservation Features (more than one may apply)											
Specular Reflectors	108.2	31.7	7.1	3.5	17.4	26.1	4.6	2.9	7.1	7.8	6.58
Energy-Efficient Ballasts	109.9	30.7	7.5	3.7	17.9	26.6	4.4	3.4	7.8	8.0	4.40
Natural Lighting Control Sensors	117.1	34.6	8.2	3.4	20.3	28.0	4.4	3.4	6.2	8.6	12.95
Occupancy Sensors	121.1	29.5	7.4	4.4	21.9	28.3	5.7	3.3	9.7	10.9	8.25
Time Clock	103.0	22.3	8.5	4.1	16.5	29.1	4.2	3.1	7.9	7.3	6.71
Manual Dimmer Switches	125.7	33.0	8.4	4.6	22.2	29.4	7.2	2.5	8.8	9.6	5.73
Other	116.9	30.4	8.4	4.3	18.3	30.6	3.3	3.1	10.0	8.4	8.97
Off-Hour Equipment Reduction (more than one may apply)											
Heating	78.9	29.7	5.3	2.5	8.8	17.8	3.2	2.3	5.2	4.0	5.33
Cooling	80.1	28.3	6.0	2.7	8.8	18.7	3.4	2.4	5.6	4.1	5.70
Lighting	79.0	29.2	5.4	2.5	8.4	18.1	3.1	2.7	5.5	4.1	4.75

(*) = Value rounds to zero in the units displayed.
NF = No applicable RSE row/column 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 types of equipment represent consumption in buildings which have the equipment, not the consumption by the specific piece of equipment. • 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 3. Electricity Consumption by End Use, 1995

Building Characteristics	Electricity Consumption (trillion Btu)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
All Buildings	2,608	111	340	162	47	1,202	19	182	334	210	4.35
Building Floorspace (square feet)											
1,001 to 5,000	380	30	44	19	13	144	6	66	34	24	7.73
5,001 to 10,000	238	18	32	13	7	102	2	19	28	16	10.20
10,001 to 25,000	384	21	56	20	7	171	2	30	50	28	7.59
25,001 to 50,000	316	16	51	16	6	142	1	19	38	25	8.80
50,001 to 100,000	363	8	55	25	5	170	2	17	49	34	8.85
100,001 to 200,000	337	9	41	23	3	169	2	10	49	32	10.14
200,001 to 500,000	307	6	34	25	3	152	2	9	47	28	14.62
Over 500,000	282	4	28	21	2	152	2	12	37	23	12.64
Principal Building Activity											
Education	221	14	36	13	6	122	2	8	11	8	7.42
Food Sales	119	Q	9	3	2	22	1	71	1	4	13.34
Food Service	166	5	26	7	5	50	8	43	3	18	19.56
Health Care	211	3	21	17	2	92	1	11	36	28	10.01
Lodging	187	11	29	6	12	84	2	8	14	20	9.81
Mercantile and Service	508	25	73	31	7	298	3	11	37	23	8.72
Office	676	21	92	54	6	294	1	5	159	44	9.81
Public Assembly	170	11	24	14	3	86	2	7	10	13	13.06
Public Order and Safety	49	(*)	8	3	Q	21	(*)	(*)	7	9	29.62
Religious Worship	33	4	5	3	1	14	(*)	2	1	3	9.65
Warehouse and Storage	176	7	8	3	1	83	(*)	14	37	22	13.00
Other	75	2	9	8	(*)	27	Q	1	15	13	23.83
Vacant	18	1	1	1	(*)	9	Q	1	1	4	22.84
Year Constructed											
1919 or Before	99	2	9	6	2	55	1	5	12	7	20.83
1920 to 1945	173	7	22	11	3	82	1	11	22	14	9.56
1946 to 1959	325	17	40	19	7	144	2	25	43	27	10.11
1960 to 1969	472	19	60	30	10	221	2	32	58	39	8.62
1970 to 1979	615	25	78	41	11	290	4	42	76	49	6.79
1980 to 1989	648	27	95	39	11	288	5	37	93	52	7.40
1990 to 1992	163	6	21	9	2	74	2	14	21	14	14.88
1993 to 1995	113	Q	15	7	2	47	1	15	10	8	18.67
Floors											
One	980	61	138	51	21	418	10	112	100	70	6.10
Two	549	23	79	29	12	258	3	38	65	41	6.67
Three	283	11	37	17	6	136	2	10	38	25	8.61
Four to Nine	552	10	61	42	6	272	3	16	88	53	12.04
Ten or More	244	7	25	22	1	118	1	6	43	22	9.91
Census Region and Division											
Northeast	436	18	44	24	9	211	3	36	54	37	6.59
New England	99	2	10	5	3	50	1	6	13	8	9.76
Middle Atlantic	338	16	34	19	6	161	Q	30	41	29	8.54
Midwest	558	23	60	35	10	270	4	34	73	48	8.97
East North Central	356	15	40	22	8	168	4	24	45	31	10.79
West North Central	202	8	20	14	3	102	Q	10	29	16	15.62
South	1,027	43	172	66	19	444	7	72	122	82	6.70
South Atlantic	487	21	80	31	10	211	3	29	62	40	9.29
East South Central	238	15	37	13	5	104	2	18	26	18	11.55
West South Central	302	7	56	21	4	129	2	25	34	24	15.05
West	587	28	64	37	8	277	4	40	85	44	8.63
Mountain	182	7	23	13	3	84	1	12	26	13	19.53
Pacific	405	20	42	24	5	193	3	28	59	31	9.97

See footnotes at end of table.

Table 3. Electricity Consumption by End Use, 1995 (Continued)

Building Characteristics	Electricity Consumption (trillion Btu)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
Climate Zone: 45-Year Average											
Fewer than 2,000 CDD and --											
More than 7,000 HDD	178	9	16	9	3	90	1	12	23	15	14.01
5,500-7,000 HDD	571	26	56	35	8	271	5	43	76	50	8.34
4,000-5,499 HDD	700	33	77	44	14	337	5	39	94	56	9.38
Fewer than 4,000 HDD	648	25	91	39	11	292	5	50	83	52	11.34
More than 2,000 CDD and --											
Fewer than 4,000 HDD	511	18	101	35	11	212	3	37	57	38	10.74
Workers (main shift)											
Fewer than 5	327	30	35	18	11	131	1	47	27	25	8.06
5 to 9	224	16	28	12	7	96	2	25	22	16	8.52
10 to 19	293	17	42	14	8	127	4	25	34	22	11.24
20 to 49	422	19	62	20	8	188	4	39	50	32	8.54
50 to 99	310	9	47	16	3	154	2	16	37	25	7.45
100 to 249	333	8	49	22	5	160	1	9	49	30	11.40
250 or More	699	13	77	60	6	345	3	20	116	59	12.09
Weekly Operating Hours											
39 or Fewer	61	6	10	4	2	22	(*)	3	6	7	12.19
40 to 48	403	27	56	25	6	164	1	11	81	31	7.24
49 to 60	497	24	62	36	6	224	1	14	92	38	11.20
61 to 84	435	20	61	27	7	219	3	26	41	30	7.95
85 to 167	435	12	55	22	7	198	8	73	29	31	9.13
Open Continuously	777	22	97	48	18	374	5	54	86	73	8.05
Ownership and Occupancy											
Nongovernment Owned	2,018	92	268	120	38	908	15	160	256	162	4.74
Owner Occupied	1,609	72	212	97	31	718	13	136	198	131	4.95
Nonowner Occupied	403	20	55	22	7	186	2	24	57	30	8.79
Unoccupied	6	Q	Q	(*)	Q	Q	Q	(*)	(*)	2	41.76
Government Owned	590	20	73	42	9	294	4	22	78	48	12.16
Federal	143	2	13	12	Q	72	Q	3	26	13	27.25
State	191	Q	23	14	3	96	1	6	25	15	24.88
Local	256	10	37	16	5	126	2	13	27	20	9.52
Space in Building Vacant for at Least Three Consecutive Months											
Yes	595	19	79	41	7	290	2	19	86	51	9.25
No	2,013	92	262	120	40	911	16	162	248	160	4.76
Energy Sources (more than one may apply)											
Electricity	2,608	111	340	162	47	1,202	19	182	334	210	4.35
Natural Gas	1,704	43	229	109	21	816	11	117	215	143	5.09
Fuel Oil	778	15	92	60	10	379	4	28	116	74	8.00
District Heat	364	2	25	31	5	189	2	12	62	36	17.29
District Chilled Water	188	1	4	20	2	102	1	6	33	19	15.09
Propane	224	11	30	13	7	94	4	25	20	21	14.48
Other	83	2	11	5	2	42	1	4	10	7	19.91
Percent of Floorspace Heated											
Not Heated	64	0	7	2	1	31	(*)	8	7	7	18.87
1 to 50	145	10	16	7	2	63	1	14	20	13	12.55
51 to 99	440	22	59	27	8	207	2	31	53	30	10.42
100	1,959	80	259	125	36	900	15	128	254	160	4.00
Percent of Floorspace Cooled											
Not Cooled	135	14	0	4	5	70	1	10	17	13	18.42
1 to 50	358	20	41	15	5	177	2	23	45	29	7.31
51 to 99	727	22	98	50	10	348	5	44	92	60	7.78
100	1,388	56	201	93	26	607	12	105	180	107	5.82

See footnotes at end of table.

Table 3. Electricity Consumption by End Use, 1995 (Continued)

Building Characteristics	Electricity Consumption (trillion Btu)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
Percent Lit when Open											
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
1 to 50	125	13	15	7	3	43	1	13	15	16	15.29
51 to 99	412	17	53	27	7	186	2	26	59	36	8.19
100	2,066	81	272	129	36	972	16	143	259	157	5.06
Building Not in Use/ Electricity Not Used	Q	Q	Q	(*)	Q	(*)	Q	Q	1	1	99.99
Percent Lit when Closed											
Zero	340	30	40	21	7	140	2	19	50	30	9.79
1 to 50	1,346	55	183	84	20	611	11	96	186	99	5.26
51 to 100	141	4	19	9	1	76	1	13	Q	7	30.61
Never Closed	776	22	97	48	18	374	5	54	86	73	8.06
Building Not in Use/ Electricity Not Used	Q	Q	Q	(*)	Q	(*)	Q	Q	1	1	99.99
Heating Equipment (more than one may apply)											
Heat Pumps	320	23	52	17	8	135	2	14	43	26	9.37
Furnaces	540	23	68	30	10	242	6	64	56	41	7.69
Individual Space Heaters	739	48	88	42	14	339	5	49	96	58	7.75
District Heat	378	2	26	32	5	197	2	13	64	37	11.52
Boilers	761	17	102	51	9	376	4	26	107	69	6.35
Packaged Heating Units	878	42	135	47	15	392	7	74	100	65	6.38
Other	415	18	51	30	5	202	2	15	58	33	12.68
Cooling Equipment (more than one may apply)											
Residential-Type Central A/C	431	11	65	26	7	192	3	42	50	32	9.08
Heat Pumps	387	26	62	21	9	162	3	20	53	31	9.41
Individual A/C	450	21	66	21	12	206	4	30	49	40	7.61
District Chilled Water	188	1	4	20	2	102	1	6	33	19	15.09
Central Chillers	778	18	102	63	8	376	4	21	116	69	9.02
Packaged A/C Units	1,432	54	205	85	21	656	12	110	179	109	5.59
Swamp Coolers	126	4	16	8	1	56	1	13	16	11	17.32
Other	59	1	6	4	1	30	(*)	5	9	4	21.26
Lighting Equipment Types (more than one may apply)											
Incandescent	1,631	62	219	104	29	771	12	105	196	134	4.74
Standard Fluorescent	2,559	108	334	160	45	1,180	18	178	330	205	4.38
Compact Fluorescent	878	23	113	61	12	424	8	44	118	75	7.09
High-Intensity Discharge	813	24	100	52	9	412	5	40	102	69	6.24
Halogen	521	16	66	36	7	255	4	24	68	45	8.64
Other	32	1	5	3	Q	17	(*)	Q	3	2	29.11
Water-Heating Equipment (more than one may apply)											
Centralized System	1,564	64	198	99	26	702	13	130	200	130	4.96
Distributed System	743	35	107	44	18	352	4	35	94	55	6.20
Combination of Centralized and Distributed System	188	6	23	13	2	95	1	9	24	15	11.71
Personal Computers and/or Computer Terminals											
None	260	19	33	15	8	107	2	34	17	26	9.08
1 to 4	439	31	56	22	11	181	5	66	32	36	6.70
5 to 9	254	14	36	11	7	111	4	24	26	20	10.06
10 to 19	260	14	37	12	4	123	1	14	36	19	10.78
20 to 49	317	10	49	17	6	152	2	15	42	24	8.45
50 to 99	247	6	36	14	3	122	1	7	36	22	10.31
100 to 249	307	9	40	23	3	151	1	12	43	26	10.27
250 or More	523	10	54	48	4	255	3	11	102	37	14.91

See footnotes at end of table.

Table 3. Electricity Consumption by End Use, 1995 (Continued)

Building Characteristics	Electricity Consumption (trillion Btu)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
Commercial Refrigeration Equipment (more than one may apply)											
Any Equipment	1,407	50	185	85	25	642	17	155	132	116	5.23
Walk-in Units	1,159	37	150	69	20	526	15	138	106	97	6.10
Cases and Cabinets	1,230	46	164	75	22	563	16	136	109	98	5.78
None	1,201	62	155	76	22	560	1	26	202	94	5.24
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	2,269	91	298	141	41	1,040	17	160	295	183	4.86
Wall Insulation	1,601	61	215	98	32	719	14	112	215	134	5.90
Storm or Multiple Glazing	1,464	58	185	91	29	673	12	91	199	124	5.17
Tinted, Reflective or Shading Glass	1,392	50	183	98	20	642	9	76	201	112	7.12
Exterior or Interior Shading or Awnings	1,858	73	245	122	32	862	12	96	265	150	4.97
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	912	25	109	71	10	437	5	36	139	78	9.54
Economizer Cycle	1,051	30	133	75	14	494	9	52	155	90	7.76
HVAC Maintenance	2,210	77	293	141	38	1,033	16	130	297	182	4.87
Other Energy Efficient Equipment	394	11	49	29	4	186	2	20	58	34	11.33
Lighting Conservation Features (more than one may apply)											
Specular Reflectors	963	28	123	63	15	467	8	53	127	81	8.18
Energy-Efficient Ballasts	1,612	61	205	106	25	754	12	97	221	131	5.67
Natural Lighting Control Sensors	364	12	51	22	5	180	2	22	40	30	10.81
Occupancy Sensors	358	7	41	26	4	169	2	19	58	31	9.26
Time Clock	788	21	109	54	8	386	4	41	105	60	8.37
Manual Dimmer Switches	809	23	106	60	11	383	6	33	115	71	8.00
Other	183	5	24	12	2	87	1	9	28	15	11.59
Off-Hour Equipment Reduction (more than one may apply)											
Heating	1,483	73	200	95	24	682	12	88	201	107	4.77
Cooling	1,457	62	209	95	23	666	12	87	200	104	5.77
Lighting	1,797	88	240	112	28	815	14	120	246	134	4.84

(*) = Value rounds to zero in the units displayed.
NF = No applicable RSE column 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 types of equipment represent consumption in buildings which have the equipment, not the consumption by the specific piece of equipment. • 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 4. Energy End-Use Intensities for Electricity, 1995

Building Characteristics	Energy Intensity for Electricity (thousand Btu per sq. ft.)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
All Buildings	45.7	2.0	6.0	2.8	0.8	21.1	0.3	3.2	5.8	3.7	3.82
Building Floorspace (square feet)											
1,001 to 5,000	63.9	5.0	7.4	3.1	2.1	24.2	1.1	11.1	5.7	4.1	7.20
5,001 to 10,000	33.7	2.6	4.6	1.8	1.0	14.5	0.2	2.7	4.0	2.2	6.73
10,001 to 25,000	34.0	1.9	4.9	1.8	0.6	15.1	0.2	2.6	4.5	2.4	7.29
25,001 to 50,000	41.4	2.0	6.6	2.1	0.8	18.6	0.2	2.6	5.0	3.3	5.86
50,001 to 100,000	46.0	1.0	6.9	3.2	0.6	21.5	0.2	2.1	6.2	4.2	7.07
100,001 to 200,000	51.0	1.3	6.2	3.4	0.4	25.6	0.2	1.5	7.4	4.9	7.56
200,001 to 500,000	55.3	1.1	6.1	4.5	0.5	27.4	0.3	1.6	8.5	5.1	13.10
Over 500,000	55.6	0.8	5.5	4.1	0.5	30.0	0.4	2.3	7.4	4.6	8.98
Principal Building Activity											
Education	28.7	1.8	4.7	1.6	0.8	15.9	0.2	1.0	1.5	1.0	5.34
Food Sales	184.7	Q	13.4	4.4	2.5	33.9	0.9	110.9	1.3	6.1	10.73
Food Service	122.8	3.6	19.4	5.3	3.6	37.0	6.2	31.6	2.6	13.5	14.45
Health Care	90.4	1.4	9.2	7.2	0.9	39.3	0.3	4.7	15.5	12.0	6.13
Lodging	52.0	3.2	8.0	1.7	3.4	23.3	0.5	2.3	3.8	5.7	6.32
Mercantile and Service	40.2	2.0	5.8	2.5	0.5	23.6	0.2	0.9	2.9	1.9	6.93
Office	64.5	2.0	8.8	5.2	0.6	28.1	0.1	0.4	15.2	4.2	7.53
Public Assembly	43.3	2.7	6.1	3.5	0.9	22.0	0.4	1.8	2.5	3.3	9.05
Public Order and Safety	38.5	0.2	6.1	2.3	Q	16.4	(*)	0.2	5.8	7.2	26.89
Religious Worship	11.7	1.3	1.9	0.9	0.4	5.0	0.2	0.6	0.4	1.0	7.83
Warehouse and Storage	22.0	0.8	1.0	0.3	0.2	10.4	(*)	1.8	4.7	2.7	7.29
Other	75.5	2.2	8.6	8.4	0.2	26.8	Q	0.7	15.3	13.3	12.00
Vacant	13.2	1.0	1.0	0.4	0.1	6.3	Q	0.4	0.9	3.0	19.42
Year Constructed											
1919 or Before	28.2	0.7	2.7	1.7	0.6	15.5	0.3	1.4	3.3	2.1	24.47
1920 to 1945	28.0	1.2	3.6	1.7	0.4	13.3	0.2	1.8	3.6	2.3	7.60
1946 to 1959	35.6	1.9	4.4	2.1	0.8	15.8	0.2	2.7	4.7	2.9	6.83
1960 to 1969	44.3	1.8	5.7	2.8	0.9	20.8	0.2	3.0	5.4	3.6	6.37
1970 to 1979	54.7	2.2	6.9	3.7	0.9	25.8	0.4	3.7	6.7	4.3	8.29
1980 to 1989	54.4	2.3	8.0	3.3	0.9	24.2	0.4	3.1	7.8	4.4	5.85
1990 to 1992	64.1	2.2	8.2	3.5	0.8	29.2	0.8	5.7	8.1	5.6	8.89
1993 to 1995	59.6	Q	8.1	3.4	1.0	24.5	0.6	8.0	5.3	4.1	16.34
Floors											
One	42.0	2.6	5.9	2.2	0.9	17.9	0.4	4.8	4.3	3.0	5.30
Two	39.4	1.7	5.7	2.1	0.9	18.5	0.2	2.7	4.6	2.9	3.93
Three	39.2	1.6	5.1	2.3	0.9	18.9	0.2	1.4	5.3	3.5	6.05
Four to Nine	63.3	1.1	7.0	4.9	0.7	31.2	0.3	1.8	10.1	6.1	10.62
Ten or More	63.0	1.7	6.5	5.7	0.4	30.3	0.3	1.5	11.1	5.6	4.73
Census Region and Division											
Northeast	38.1	1.6	3.8	2.1	0.7	18.4	0.3	3.2	4.7	3.2	7.28
New England	32.1	0.8	3.1	1.6	1.0	16.4	0.3	1.9	4.2	2.7	6.27
Middle Atlantic	40.3	1.9	4.1	2.2	0.7	19.2	Q	3.6	4.8	3.4	9.90
Midwest	40.2	1.6	4.3	2.6	0.8	19.4	0.3	2.4	5.3	3.4	6.67
East North Central	37.8	1.5	4.3	2.3	0.8	17.8	0.4	2.6	4.7	3.3	7.74
West North Central	45.2	1.8	4.5	3.1	0.7	22.8	0.2	2.2	6.4	3.6	11.34
South	50.9	2.1	8.5	3.3	1.0	22.0	0.3	3.5	6.1	4.1	4.99
South Atlantic	52.4	2.2	8.6	3.4	1.1	22.6	0.3	3.1	6.7	4.3	5.56
East South Central	50.9	3.2	7.8	2.8	1.0	22.4	0.4	3.9	5.6	3.8	9.93
West South Central	48.8	1.2	9.0	3.4	0.7	20.9	0.3	4.0	5.4	3.9	12.29
West	50.6	2.4	5.5	3.2	0.7	23.9	0.3	3.5	7.3	3.8	10.06
Mountain	47.6	1.9	5.9	3.3	0.7	21.9	0.3	3.2	6.8	3.5	14.91
Pacific	52.2	2.6	5.4	3.1	0.7	24.9	0.4	3.6	7.6	4.0	13.58

See footnotes at end of table.

Table 4. Energy End-Use Intensities for Electricity, 1995 (Continued)

Building Characteristics	Energy Intensity for Electricity (thousand Btu per sq. ft.)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
Climate Zone: 45-Year Average											
Fewer than 2,000 CDD and --											
More than 7,000 HDD	36.2	1.8	3.2	1.9	0.7	18.3	0.2	2.4	4.7	3.0	11.93
5,500-7,000 HDD	39.8	1.8	3.9	2.5	0.6	18.9	0.3	3.0	5.3	3.5	6.62
4,000-5,499 HDD	48.1	2.3	5.3	3.0	0.9	23.1	0.3	2.7	6.4	3.8	9.52
Fewer than 4,000 HDD	48.8	1.9	6.8	2.9	0.8	22.0	0.4	3.8	6.3	3.9	5.89
More than 2,000 CDD and --											
Fewer than 4,000 HDD	51.3	1.8	10.1	3.5	1.1	21.3	0.3	3.8	5.8	3.8	7.98
Workers (main shift)											
Fewer than 5	26.5	2.4	2.8	1.5	0.9	10.6	0.1	3.8	2.2	2.0	7.71
5 to 9	35.7	2.5	4.5	1.8	1.1	15.3	0.4	3.9	3.5	2.6	8.68
10 to 19	41.2	2.4	5.9	2.0	1.1	17.9	0.6	3.5	4.7	3.0	9.79
20 to 49	46.3	2.1	6.8	2.2	0.8	20.6	0.4	4.3	5.5	3.6	7.75
50 to 99	45.2	1.4	6.8	2.4	0.5	22.5	0.3	2.3	5.4	3.7	5.67
100 to 249	55.8	1.4	8.2	3.6	0.8	26.8	0.2	1.5	8.1	5.1	7.26
250 or More	74.2	1.3	8.2	6.3	0.6	36.6	0.4	2.2	12.3	6.3	8.89
Weekly Operating Hours											
39 or Fewer	12.4	1.3	2.0	0.9	0.3	4.4	(*)	0.7	1.2	1.5	9.37
40 to 48	30.7	2.1	4.3	1.9	0.5	12.5	0.1	0.9	6.1	2.4	6.40
49 to 60	41.0	2.0	5.1	2.9	0.5	18.5	0.1	1.1	7.6	3.1	10.56
61 to 84	43.4	2.0	6.1	2.7	0.7	21.9	0.3	2.6	4.1	3.0	5.42
85 to 167	70.6	1.9	8.9	3.6	1.2	32.2	1.3	11.9	4.7	5.0	6.44
Open Continuously	72.7	2.0	9.1	4.5	1.7	35.0	0.4	5.0	8.0	6.8	5.76
Ownership and Occupancy											
Nongovernment Owned	44.6	2.0	5.9	2.6	0.8	20.1	0.3	3.5	5.7	3.6	3.48
Owner Occupied	45.8	2.0	6.0	2.8	0.9	20.5	0.4	3.9	5.6	3.7	3.96
Nonowner Occupied	42.3	2.1	5.8	2.3	0.7	19.6	0.2	2.5	6.0	3.1	7.18
Unoccupied	9.7	Q	0.9	0.3	Q	4.6	Q	0.3	0.5	2.5	33.46
Government Owned	49.8	1.7	6.1	3.6	0.8	24.8	0.3	1.8	6.6	4.1	12.55
Federal	85.3	1.2	7.5	7.2	0.7	43.1	Q	1.8	15.6	7.6	20.88
State	68.1	Q	8.1	5.0	1.0	34.2	0.3	2.0	8.8	5.4	21.16
Local	34.8	1.3	5.1	2.2	0.7	17.1	0.2	1.8	3.7	2.8	5.93
Space in Building Vacant for at Least Three Consecutive Months											
Yes	40.6	1.3	5.4	2.8	0.5	19.8	0.2	1.3	5.9	3.5	5.24
No	47.4	2.2	6.2	2.8	0.9	21.5	0.4	3.8	5.8	3.8	4.14
Energy Sources (more than one may apply)											
Electricity	45.7	2.0	6.0	2.8	0.8	21.1	0.3	3.2	5.8	3.7	3.82
Natural Gas	44.8	1.1	6.0	2.9	0.6	21.5	0.3	3.1	5.7	3.8	4.16
Fuel Oil	54.3	1.1	6.4	4.2	0.7	26.5	0.3	2.0	8.1	5.1	5.41
District Heat	64.5	0.3	4.5	5.6	0.9	33.5	0.3	2.1	10.9	6.3	11.84
District Chilled Water	74.6	0.3	1.5	7.9	0.8	40.3	0.4	2.5	13.3	7.6	12.62
Propane	41.9	2.1	5.7	2.4	1.2	17.5	0.8	4.6	3.8	3.8	10.61
Other	37.2	0.9	4.9	2.4	0.8	18.8	0.3	1.7	4.4	2.9	16.29
Percent of Floorspace Heated											
Not Heated	21.7	0.0	2.5	0.8	0.3	10.5	0.1	2.7	2.3	2.4	17.64
1 to 50	23.5	1.6	2.5	1.1	0.4	10.3	0.1	2.3	3.2	2.1	9.61
51 to 99	49.7	2.5	6.6	3.1	0.9	23.4	0.3	3.5	6.0	3.4	12.48
100	50.1	2.0	6.6	3.2	0.9	23.0	0.4	3.3	6.5	4.1	3.42
Percent of Floorspace Cooled											
Not Cooled	18.5	1.9	0.0	0.6	0.7	9.6	0.1	1.4	2.4	1.8	12.71
1 to 50	24.0	1.3	2.8	1.0	0.3	11.8	0.1	1.5	3.0	2.0	4.30
51 to 99	58.0	1.7	7.8	4.0	0.8	27.7	0.4	3.5	7.3	4.8	7.57
100	62.2	2.5	9.0	4.2	1.2	27.2	0.5	4.7	8.0	4.8	3.97

See footnotes at end of table.

Table 4. Energy End-Use Intensities for Electricity, 1995 (Continued)

Building Characteristics	Energy Intensity for Electricity (thousand Btu per sq. ft.)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
Percent Lit when Open											
Zero	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	99.99
1 to 50	20.7	2.2	2.5	1.1	0.4	7.2	0.1	2.1	2.5	2.6	12.46
51 to 99	42.5	1.7	5.4	2.7	0.8	19.2	0.2	2.6	6.1	3.7	6.00
100	51.0	2.0	6.7	3.2	0.9	24.0	0.4	3.5	6.4	3.9	4.47
Building Not in Use/ Electricity Not Used	Q	Q	Q	0.2	Q	0.6	Q	Q	0.9	2.0	99.99
Percent Lit when Closed											
Zero	25.9	2.3	3.1	1.6	0.5	10.7	0.1	1.4	3.9	2.3	6.51
1 to 50	43.8	1.8	6.0	2.7	0.7	19.9	0.4	3.1	6.1	3.2	4.13
51 to 100	73.5	2.2	10.1	4.5	0.7	39.9	0.6	6.5	Q	3.5	29.35
Never Closed	72.7	2.1	9.1	4.5	1.7	35.0	0.4	5.0	8.0	6.9	5.76
Building Not in Use/ Electricity Not Used	Q	Q	Q	0.2	Q	0.6	Q	Q	0.9	2.0	99.99
Heating Equipment (more than one may apply)											
Heat Pumps	54.9	3.9	9.0	2.9	1.4	23.2	0.3	2.4	7.4	4.4	6.31
Furnaces	36.3	1.6	4.5	2.0	0.7	16.3	0.4	4.3	3.8	2.8	7.13
Individual Space Heaters	44.3	2.9	5.3	2.5	0.8	20.3	0.3	3.0	5.7	3.5	7.57
District Heat	64.1	0.3	4.4	5.5	0.8	33.4	0.3	2.1	10.8	6.2	9.02
Boilers	45.7	1.0	6.1	3.1	0.5	22.6	0.2	1.6	6.4	4.1	4.34
Packaged Heating Units	52.0	2.5	8.0	2.8	0.9	23.3	0.4	4.4	5.9	3.8	4.46
Other	66.5	2.9	8.1	4.8	0.8	32.3	0.3	2.5	9.4	5.3	11.38
Cooling Equipment (more than one may apply)											
Residential-Type Central A/C	46.8	1.2	7.1	2.8	0.8	20.9	0.4	4.6	5.4	3.4	7.58
Heat Pumps	56.0	3.8	9.0	3.0	1.3	23.4	0.5	2.8	7.6	4.4	5.96
Individual A/C	36.3	1.7	5.4	1.7	0.9	16.6	0.3	2.4	4.0	3.2	5.28
District Chilled Water	74.6	0.3	1.5	7.9	0.8	40.3	0.4	2.5	13.3	7.6	12.62
Central Chillers	70.4	1.6	9.2	5.7	0.8	34.0	0.3	1.9	10.5	6.3	7.79
Packaged A/C Units	54.0	2.0	7.7	3.2	0.8	24.7	0.4	4.1	6.7	4.1	3.99
Swamp Coolers	51.5	1.5	6.5	3.4	0.5	22.8	0.5	5.3	6.4	4.6	14.76
Other	62.0	1.0	5.9	3.8	0.6	31.8	0.5	4.9	9.5	4.1	16.95
Lighting Equipment Types (more than one may apply)											
Incandescent	45.7	1.7	6.1	2.9	0.8	21.6	0.3	2.9	5.5	3.7	3.86
Standard Fluorescent	47.4	2.0	6.2	3.0	0.8	21.9	0.3	3.3	6.1	3.8	3.82
Compact Fluorescent	61.5	1.6	7.9	4.3	0.8	29.7	0.5	3.1	8.3	5.3	5.23
High-Intensity Discharge	50.0	1.5	6.2	3.2	0.6	25.3	0.3	2.4	6.3	4.2	5.67
Halogen	54.0	1.7	6.8	3.8	0.7	26.4	0.4	2.5	7.0	4.7	4.40
Other	58.2	1.3	8.6	4.7	0.5	31.2	0.4	2.0	5.4	4.1	8.61
Water-Heating Equipment (more than one may apply)											
Centralized System	49.6	2.0	6.3	3.2	0.8	22.3	0.4	4.1	6.4	4.1	4.83
Distributed System	45.2	2.1	6.5	2.7	1.1	21.4	0.2	2.1	5.7	3.3	4.45
Combination of Centralized and Distributed System	55.2	1.8	6.6	3.8	0.6	27.8	0.4	2.7	7.0	4.4	8.17
Personal Computers and/or Computer Terminals											
None	23.6	1.7	3.0	1.4	0.7	9.7	0.2	3.1	1.5	2.4	7.46
1 to 4	38.5	2.7	4.9	1.9	1.0	15.9	0.4	5.8	2.8	3.1	7.26
5 to 9	47.5	2.6	6.7	2.1	1.3	20.8	0.7	4.4	4.9	3.8	7.08
10 to 19	43.9	2.3	6.3	2.0	0.7	20.8	0.2	2.4	6.1	3.2	6.59
20 to 49	45.4	1.4	7.1	2.5	0.8	21.8	0.2	2.1	6.0	3.5	5.43
50 to 99	50.2	1.3	7.3	2.9	0.7	24.7	0.2	1.4	7.3	4.5	7.35
100 to 249	59.2	1.7	7.6	4.4	0.6	29.2	0.2	2.3	8.3	4.9	6.18
250 or More	83.1	1.6	8.6	7.6	0.7	40.5	0.4	1.7	16.3	5.9	11.74

See footnotes at end of table.

Table 4. Energy End-Use Intensities for Electricity, 1995 (Continued)

Building Characteristics	Energy Intensity for Electricity (thousand Btu per sq. ft.)										RSE Row Factor
	Total	Space Heating	Cooling	Ventil-ation	Water Heating	Lighting	Cooking	Refrig-eration	Office Equip-ment	Other	
RSE Column Factor:	1.0	NF	NF	NF	NF	NF	NF	NF	NF	NF	
Commercial Refrigeration Equipment (more than one may apply)											
Any Equipment	63.8	2.3	8.4	3.9	1.1	29.1	0.8	7.0	6.0	5.3	4.64
Walk-in Units	71.8	2.3	9.3	4.3	1.2	32.6	1.0	8.5	6.6	6.0	4.99
Cases and Cabinets	64.7	2.4	8.6	3.9	1.2	29.6	0.9	7.2	5.8	5.2	5.03
None	34.3	1.8	4.4	2.2	0.6	16.0	(*)	0.8	5.8	2.7	3.97
Building Shell Conservation Features (more than one may apply)											
Roof or Ceiling Insulation	49.4	2.0	6.5	3.1	0.9	22.7	0.4	3.5	6.4	4.0	4.12
Wall Insulation	50.8	1.9	6.8	3.1	1.0	22.8	0.4	3.6	6.8	4.3	3.96
Storm or Multiple Glazing	51.2	2.0	6.5	3.2	1.0	23.5	0.4	3.2	6.9	4.3	4.25
Tinted, Reflective or Shading Glass	57.6	2.1	7.6	4.0	0.8	26.6	0.4	3.1	8.3	4.6	5.83
Exterior or Interior Shading or Awnings	50.2	2.0	6.6	3.3	0.9	23.3	0.3	2.6	7.2	4.1	4.60
HVAC Conservation Features (more than one may apply)											
Variable Air-Volume System	67.8	1.9	8.1	5.3	0.8	32.5	0.4	2.7	10.4	5.8	8.07
Economizer Cycle	63.8	1.8	8.1	4.6	0.8	30.0	0.5	3.2	9.4	5.4	6.48
HVAC Maintenance	51.4	1.8	6.8	3.3	0.9	24.0	0.4	3.0	6.9	4.2	4.39
Other Energy Efficient Equipment	61.1	1.8	7.6	4.5	0.7	28.9	0.3	3.1	9.0	5.3	12.12
Lighting Conservation Features (more than one may apply)											
Specular Reflectors	53.9	1.6	6.9	3.5	0.8	26.1	0.4	2.9	7.1	4.5	5.00
Energy-Efficient Ballasts	56.8	2.1	7.2	3.7	0.9	26.6	0.4	3.4	7.8	4.6	4.61
Natural Lighting Control Sensors	56.7	1.9	8.0	3.4	0.8	28.0	0.3	3.4	6.2	4.6	6.46
Occupancy Sensors	60.1	1.2	6.9	4.4	0.7	28.3	0.3	3.3	9.7	5.2	5.50
Time Clock	59.4	1.6	8.2	4.1	0.6	29.1	0.3	3.1	7.9	4.5	6.88
Manual Dimmer Switches	62.0	1.8	8.1	4.6	0.8	29.4	0.4	2.5	8.8	5.5	5.92
Other	64.4	1.7	8.3	4.3	0.6	30.6	0.4	3.1	10.0	5.3	8.68
Off-Hour Equipment Reduction (more than one may apply)											
Heating	38.8	1.9	5.2	2.5	0.6	17.9	0.3	2.3	5.3	2.8	4.81
Cooling	41.1	1.7	5.9	2.7	0.6	18.8	0.3	2.4	5.6	2.9	5.60
Lighting	40.0	2.0	5.3	2.5	0.6	18.1	0.3	2.7	5.5	3.0	4.50

(*) = Value rounds to zero in the units displayed.
NF = No applicable RSE row/column 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 types of equipment represent consumption in buildings which have the equipment, not the consumption by the specific piece of equipment. • 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 5. Natural Gas Consumption by End Use, 1995

Building Characteristics	Natural Gas Consumption (trillion Btu)					RSE Row Factor
	Total	Space Heating	Water Heating	Cooking	Other[a]	
RSE Column Factor:	1.0	NF	NF	NF	NF	
All Buildings	1,946	1,092	521	198	135	5.41
Building Floorspace (square feet)						
1,001 to 5,000	264	167	39	50	Q	11.73
5,001 to 10,000	272	193	44	31	Q	20.13
10,001 to 25,000	356	239	75	28	14	14.79
25,001 to 50,000	231	139	65	15	Q	9.61
50,001 to 100,000	243	146	70	14	13	9.89
100,001 to 200,000	244	107	94	19	24	14.55
200,001 to 500,000	211	65	85	24	36	11.57
Over 500,000	125	37	49	16	23	14.35
Principal Building Activity						
Education	245	148	73	9	16	10.38
Food Sales	18	10	4	3	1	37.47
Food Service	158	33	28	96	Q	20.37
Health Care	258	79	105	25	49	14.80
Lodging	213	38	145	22	7	12.94
Mercantile and Service	395	315	44	17	19	16.62
Office	239	160	59	10	10	10.23
Public Assembly	142	106	25	9	Q	15.78
Public Order and Safety	33	15	11	Q	Q	18.94
Religious Worship	57	50	7	1	Q	16.29
Warehouse and Storage	106	93	8	(*)	Q	12.92
Other	55	25	8	Q	22	29.01
Vacant	26	21	5	Q	Q	41.08
Year Constructed						
1919 or Before	135	82	22	14	Q	15.06
1920 to 1945	210	150	39	11	11	12.89
1946 to 1959	391	255	88	26	21	17.85
1960 to 1969	375	188	123	41	23	9.91
1970 to 1979	393	214	110	32	37	13.45
1980 to 1989	288	137	89	46	16	8.52
1990 to 1992	100	40	33	22	Q	28.03
1993 to 1995	54	27	17	6	4	20.41
Floors						
One	654	429	115	95	16	9.58
Two	481	305	125	31	20	12.79
Three	284	173	68	19	24	10.04
Four to Nine	411	147	164	38	60	8.83
Ten or More	117	38	48	15	16	14.84
Census Region and Division						
Northeast	297	163	73	29	32	14.36
New England	74	41	21	5	6	31.87
Middle Atlantic	223	122	51	24	26	14.01
Midwest	750	519	153	46	31	10.47
East North Central	505	340	109	39	18	8.45
West North Central	244	179	45	7	Q	25.91
South	528	250	163	77	39	11.96
South Atlantic	197	82	57	41	18	14.95
East South Central	164	95	49	9	12	30.06
West South Central	167	73	57	27	10	10.76
West	371	160	132	47	31	10.87
Mountain	150	93	40	10	8	18.72
Pacific	221	68	93	37	24	12.86

See footnotes at end of table.

Table 5. Natural Gas Consumption by End Use, 1995 (Continued)

Building Characteristics	Natural Gas Consumption (trillion Btu)					RSE Row Factor
	Total	Space Heating	Water Heating	Cooking	Other[a]	
RSE Column Factor:	1.0	NF	NF	NF	NF	
Climate Zone: 45-Year Average						
Fewer than 2,000 CDD and --						
More than 7,000 HDD	240	175	49	10	Q	17.21
5,500-7,000 HDD	692	464	148	44	35	11.47
4,000-5,499 HDD	452	247	110	44	50	18.53
Fewer than 4,000 HDD	372	150	137	55	29	10.98
More than 2,000 CDD and --						
Fewer than 4,000 HDD	191	56	76	45	14	18.42
Workers (main shift)						
Fewer than 5	298	221	60	11	Q	8.49
5 to 9	244	182	37	15	9	21.85
10 to 19	269	172	49	45	3	21.42
20 to 49	343	188	83	52	20	10.13
50 to 99	218	111	81	18	8	10.28
100 to 249	222	107	76	17	23	12.45
250 or More	352	110	135	39	67	8.87
Weekly Operating Hours						
39 or Fewer	92	78	11	3	Q	17.48
40 to 48	365	296	50	13	6	14.24
49 to 60	301	227	50	9	15	10.97
61 to 84	279	173	55	38	13	11.27
85 to 167	243	113	56	65	9	14.42
Open Continuously	665	206	300	70	90	10.58
Ownership and Occupancy						
Nongovernment Owned	1,472	810	396	174	92	5.79
Owner Occupied	1,245	663	353	148	81	6.90
Nonowner Occupied	218	141	40	26	Q	11.16
Unoccupied	Q	Q	Q	Q	Q	99.99
Government Owned	474	282	125	24	43	12.84
Federal	42	19	10	2	Q	31.53
State	121	52	40	8	20	20.76
Local	311	212	75	14	11	18.40
Space in Building Vacant for at Least Three Consecutive Months						
Yes	409	229	103	34	43	16.75
No	1,537	863	418	164	92	6.09
Energy Sources (more than one may apply)						
Electricity	1,938	1,087	519	198	135	5.74
Natural Gas	1,946	1,092	521	198	135	5.41
Fuel Oil	556	217	204	55	80	9.64
District Heat	146	Q	40	18	Q	25.92
District Chilled Water	101	15	24	11	52	19.60
Propane	90	49	25	6	10	18.74
Other	64	30	17	6	Q	23.09
Percent of Floorspace Heated						
Not Heated	Q	Q	Q	Q	Q	99.99
1 to 50	86	64	11	8	Q	17.66
51 to 99	281	163	72	32	14	18.46
100	1,570	866	435	155	115	5.79
Percent of Floorspace Cooled						
Not Cooled	163	123	30	5	Q	13.84
1 to 50	515	400	81	13	21	14.16
51 to 99	463	210	155	59	39	9.27
100	804	360	254	121	69	6.78

See footnotes at end of table.

Table 5. Natural Gas Consumption by End Use, 1995 (Continued)

Building Characteristics	Natural Gas Consumption (trillion Btu)					RSE Row Factor
	Total	Space Heating	Water Heating	Cooking	Other[a]	
RSE Column Factor:	1.0	NF	NF	NF	NF	
Percent Lit when Open						
Zero	Q	Q	Q	Q	Q	99.99
1 to 50	136	100	26	5	Q	11.34
51 to 99	345	195	89	30	32	10.43
100	1,448	784	403	162	99	6.11
Building Not in Use/ Electricity Not Used	Q	Q	Q	Q	Q	99.99
Percent Lit when Closed						
Zero	302	246	34	8	12	10.69
1 to 50	909	604	166	111	28	8.07
51 to 100	56	23	20	8	Q	21.77
Never Closed	663	205	299	70	90	11.36
Building Not in Use/ Electricity Not Used	Q	Q	Q	Q	Q	99.99
Heating Equipment (more than one may apply)						
Heat Pumps	142	39	75	16	12	14.38
Furnaces	548	408	89	41	10	9.99
Individual Space Heaters	609	398	147	33	32	12.37
District Heat	146	19	37	21	68	17.39
Boilers	938	530	306	56	46	6.95
Packaged Heating Units	544	273	157	96	18	6.87
Other	166	69	60	20	18	13.91
Cooling Equipment (more than one may apply)						
Residential-Type Central A/C	417	243	101	49	23	15.95
Heat Pumps	161	52	78	19	12	13.68
Individual A/C	553	307	168	45	33	11.52
District Chilled Water	101	15	24	11	52	19.60
Central Chillers	502	198	203	46	54	8.60
Packaged A/C Units	929	492	256	125	57	6.16
Swamp Coolers	117	44	48	20	5	18.16
Other	31	17	7	Q	Q	28.00
Water-Heating Equipment (more than one may apply)						
Centralized System	1,353	746	378	138	90	7.01
Distributed System	379	217	85	44	32	8.24
Combination of Centralized and Distributed System	146	63	57	15	11	16.86
Building Shell Conservation Features (more than one may apply)						
Roof or Ceiling Insulation	1,660	918	458	171	113	6.23
Wall Insulation	1,055	532	324	124	75	5.68
Storm or Multiple Glazing	1,166	609	343	135	79	6.11
Tinted, Reflective or Shading Glass	840	384	265	113	77	6.31
Exterior or Interior Shading or Awnings	1,348	676	395	152	125	6.21
HVAC Conservation Features (more than one may apply)						
Variable Air-Volume System	564	220	208	72	63	6.75
Economizer Cycle	698	309	227	89	74	4.91
HVAC Maintenance	1,593	839	458	171	124	5.56
Other Energy Efficient Equipment	263	112	89	29	33	13.02

See footnotes at end of table.

Table 5. Natural Gas Consumption by End Use, 1995 (Continued)

Building Characteristics	Natural Gas Consumption (trillion Btu)					RSE Row Factor
	Total	Space Heating	Water Heating	Cooking	Other[a]	
RSE Column Factor:	1.0	NF	NF	NF	NF	
Off-Hour Equipment Reduction (more than one may apply)						
Heating	1,097	758	188	111	40	7.30
Cooling	1,009	682	180	110	37	8.17
Lighting	1,248	864	214	126	44	6.81

[a] Includes cooling.

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

NF = No applicable RSE row/column 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 types of equipment represent consumption in buildings which have the equipment, not the consumption by the specific piece of equipment. • 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 6. Energy End-Use Intensities for Natural Gas, 1995

Building Characteristics	Energy Intensity for Natural Gas (thousand Btu per sq. ft.)					RSE Row Factor
	Total	Space Heating	Water Heating	Cooking	Other[a]	
RSE Column Factor:	1.0	NF	NF	NF	NF	
All Buildings	51.0	28.6	13.7	5.2	3.5	4.77
Building Floorspace (square feet)						
1,001 to 5,000	89.6	56.9	13.3	17.0	Q	8.73
5,001 to 10,000	60.4	42.9	9.8	6.9	Q	17.62
10,001 to 25,000	47.1	31.6	9.9	3.8	1.9	13.54
25,001 to 50,000	44.0	26.5	12.3	2.8	Q	6.04
50,001 to 100,000	43.4	26.0	12.5	2.5	2.4	7.70
100,001 to 200,000	52.6	23.0	20.2	4.2	5.3	11.96
200,001 to 500,000	53.5	16.5	21.6	6.1	9.2	8.88
Over 500,000	33.8	9.9	13.2	4.4	6.3	14.60
Principal Building Activity						
Education	42.3	25.5	12.5	1.6	2.7	7.05
Food Sales	43.7	24.3	9.9	7.5	1.9	28.48
Food Service	157.7	33.4	27.7	96.2	Q	13.57
Health Care	146.9	45.1	59.6	14.4	27.7	11.18
Lodging	75.2	13.5	51.4	7.9	2.4	9.64
Mercantile and Service	46.4	36.9	5.2	2.0	2.3	15.62
Office	36.7	24.5	9.0	1.6	1.6	8.39
Public Assembly	53.3	39.7	9.4	3.5	Q	11.71
Public Order and Safety	44.7	20.1	15.4	Q	Q	17.01
Religious Worship	28.7	24.8	3.4	0.5	Q	14.90
Warehouse and Storage	23.0	20.3	1.7	0.1	1.0	7.80
Other	84.6	37.7	11.7	Q	33.5	19.25
Vacant	39.8	31.9	7.0	Q	Q	38.45
Year Constructed						
1919 or Before	51.2	30.9	8.4	5.2	Q	11.93
1920 to 1945	46.1	32.8	8.5	2.5	2.4	9.16
1946 to 1959	60.4	39.4	13.6	4.0	3.3	13.48
1960 to 1969	52.2	26.2	17.2	5.8	3.2	9.06
1970 to 1979	53.2	29.0	14.9	4.3	5.0	14.06
1980 to 1989	40.1	19.1	12.4	6.4	2.2	6.58
1990 to 1992	60.5	24.0	20.1	13.3	Q	24.62
1993 to 1995	49.5	24.9	15.3	5.1	4.1	12.91
Floors						
One	46.5	30.4	8.2	6.7	1.1	7.69
Two	48.9	31.0	12.7	3.2	2.0	10.63
Three	51.2	31.3	12.3	3.4	4.2	7.33
Four to Nine	67.0	24.1	26.8	6.3	9.8	7.74
Ten or More	45.6	14.8	18.7	6.0	6.1	16.11
Census Region and Division						
Northeast	41.7	22.9	10.2	4.0	4.6	9.43
New England	51.3	28.7	14.8	3.5	4.3	19.47
Middle Atlantic	39.3	21.5	9.1	4.1	4.6	7.93
Midwest	68.8	47.6	14.1	4.2	2.9	8.52
East North Central	66.9	45.0	14.4	5.1	2.4	6.72
West North Central	72.9	53.4	13.4	2.2	Q	20.36
South	43.0	20.3	13.2	6.2	3.2	9.97
South Atlantic	41.0	17.0	11.8	8.5	3.7	9.44
East South Central	51.9	30.1	15.4	2.8	3.6	29.03
West South Central	38.7	16.8	13.2	6.3	2.3	8.72
West	47.3	20.5	16.9	6.0	4.0	7.15
Mountain	57.0	35.4	15.1	3.7	2.9	17.03
Pacific	42.4	12.9	17.8	7.1	4.6	9.84

See footnotes at end of table.

Table 6. Energy End-Use Intensities for Natural Gas, 1995 (Continued)

Building Characteristics	Energy Intensity for Natural Gas (thousand Btu per sq. ft.)					RSE Row Factor
	Total	Space Heating	Water Heating	Cooking	Other[a]	
RSE Column Factor:	1.0	NF	NF	NF	NF	
Climate Zone: 45-Year Average						
Fewer than 2,000 CDD and --						
More than 7,000 HDD	70.5	51.4	14.5	2.8	Q	10.25
5,500-7,000 HDD	64.3	43.1	13.8	4.1	3.2	10.23
4,000-5,499 HDD	49.7	27.2	12.1	4.9	5.5	11.48
Fewer than 4,000 HDD	38.7	15.7	14.3	5.7	3.1	5.37
More than 2,000 CDD and --						
Fewer than 4,000 HDD	36.0	10.5	14.4	8.5	2.6	9.81
Workers (main shift)						
Fewer than 5	45.3	33.6	9.1	1.7	Q	7.14
5 to 9	54.4	40.7	8.2	3.4	2.1	20.19
10 to 19	57.4	36.7	10.4	9.7	0.6	20.59
20 to 49	51.8	28.4	12.5	7.8	3.0	7.39
50 to 99	45.8	23.3	17.1	3.8	1.6	8.52
100 to 249	51.7	24.9	17.6	3.9	5.3	10.45
250 or More	52.4	16.4	20.1	5.9	10.0	8.42
Weekly Operating Hours						
39 or Fewer	34.7	29.2	4.2	1.0	Q	10.91
40 to 48	42.8	34.6	5.9	1.6	0.7	11.58
49 to 60	37.6	28.4	6.2	1.1	1.9	6.56
61 to 84	39.6	24.6	7.8	5.4	1.9	6.79
85 to 167	61.2	28.4	14.1	16.4	2.3	10.68
Open Continuously	83.9	26.0	37.8	8.8	11.3	9.44
Ownership and Occupancy						
Nongovernment Owned	48.6	26.8	13.1	5.7	3.0	4.86
Owner Occupied	52.0	27.7	14.7	6.2	3.4	5.71
Nonowner Occupied	35.9	23.3	6.6	4.3	Q	8.14
Unoccupied	Q	Q	Q	Q	Q	99.99
Government Owned	60.1	35.7	15.8	3.1	5.4	12.12
Federal	59.6	26.1	14.5	2.6	Q	22.45
State	71.1	30.6	23.6	4.9	12.0	16.57
Local	56.7	38.6	13.6	2.6	2.0	16.12
Space in Building Vacant for at Least Three Consecutive Months						
Yes	42.0	23.6	10.5	3.5	4.4	14.09
No	54.1	30.4	14.7	5.8	3.2	4.65
Energy Sources (more than one may apply)						
Electricity	51.0	28.6	13.6	5.2	3.5	5.09
Natural Gas	51.0	28.6	13.7	5.2	3.5	4.77
Fuel Oil	60.0	23.5	22.0	5.9	8.6	9.77
District Heat	62.2	Q	17.1	7.9	Q	26.34
District Chilled Water	78.8	11.6	18.5	8.6	40.1	14.56
Propane	57.3	31.1	16.2	3.7	6.3	8.68
Other	43.1	20.2	11.2	4.0	Q	17.38
Percent of Floorspace Heated						
Not Heated	Q	Q	Q	Q	Q	99.99
1 to 50	23.2	17.1	2.9	2.3	Q	16.33
51 to 99	45.2	26.2	11.5	5.1	2.3	16.43
100	56.0	30.9	15.5	5.5	4.1	5.14
Percent of Floorspace Cooled						
Not Cooled	53.6	40.2	9.8	1.6	Q	10.87
1 to 50	47.6	36.9	7.5	1.2	1.9	12.43
51 to 99	49.4	22.4	16.6	6.3	4.2	7.25
100	54.0	24.2	17.1	8.1	4.6	5.43

See footnotes at end of table.

Table 6. Energy End-Use Intensities for Natural Gas, 1995 (Continued)

Building Characteristics	Energy Intensity for Natural Gas (thousand Btu per sq. ft.)					RSE Row Factor
	Total	Space Heating	Water Heating	Cooking	Other[a]	
RSE Column Factor:	1.0	NF	NF	NF	NF	
Percent Lit when Open						
Zero	Q	Q	Q	Q	Q	99.99
1 to 50	36.5	26.8	7.1	1.4	Q	9.15
51 to 99	50.3	28.3	12.9	4.4	4.6	8.71
100	53.4	28.9	14.9	6.0	3.6	5.97
Building Not in Use/ Electricity Not Used	Q	Q	Q	Q	Q	99.99
Percent Lit when Closed						
Zero	41.1	33.6	4.7	1.1	1.7	7.49
1 to 50	43.1	28.6	7.9	5.3	1.3	6.68
51 to 100	40.8	16.8	14.3	6.2	Q	13.98
Never Closed	83.8	26.0	37.7	8.8	11.3	9.98
Building Not in Use/ Electricity Not Used	Q	Q	Q	Q	Q	99.99
Heating Equipment (more than one may apply)						
Heat Pumps	47.5	13.0	25.1	5.4	3.9	11.27
Furnaces	46.0	34.2	7.5	3.5	0.8	10.21
Individual Space Heaters	47.8	31.2	11.5	2.6	2.5	10.59
District Heat	60.0	7.8	15.4	8.6	28.2	14.75
Boilers	65.8	37.2	21.5	3.9	3.2	6.67
Packaged Heating Units	42.1	21.1	12.2	7.4	1.4	5.52
Other	40.8	16.9	14.7	4.9	4.3	13.81
Cooling Equipment (more than one may apply)						
Residential-Type Central A/C	60.0	34.9	14.6	7.1	3.3	12.65
Heat Pumps	44.3	14.2	21.5	5.2	3.4	9.76
Individual A/C	60.1	33.4	18.2	4.9	3.6	9.86
District Chilled Water	78.8	11.6	18.5	8.6	40.1	14.56
Central Chillers	60.4	23.8	24.5	5.6	6.5	6.77
Packaged A/C Units	46.2	24.4	12.7	6.2	2.8	5.54
Swamp Coolers	61.8	23.1	25.5	10.6	2.7	13.67
Other	40.5	22.1	9.3	Q	4.1	20.39
Water-Heating Equipment (more than one may apply)						
Centralized System	59.8	33.0	16.7	6.1	4.0	6.63
Distributed System	34.3	19.6	7.7	4.0	2.9	5.81
Combination of Centralized and Distributed System	56.2	24.3	22.0	5.8	4.1	14.10
Building Shell Conservation Features (more than one may apply)						
Roof or Ceiling Insulation	53.0	29.3	14.6	5.5	3.6	5.67
Wall Insulation	49.6	25.0	15.2	5.8	3.5	5.09
Storm or Multiple Glazing	57.9	30.3	17.1	6.7	3.9	6.29
Tinted, Reflective or Shading Glass	49.8	22.8	15.7	6.7	4.6	4.72
Exterior or Interior Shading or Awnings	52.0	26.1	15.2	5.9	4.8	5.27
HVAC Conservation Features (more than one may apply)						
Variable Air-Volume System	59.7	23.3	22.0	7.6	6.7	6.52
Economizer Cycle	56.9	25.1	18.5	7.2	6.0	5.77
HVAC Maintenance	53.1	28.0	15.3	5.7	4.1	4.93
Other Energy Efficient Equipment	54.6	23.2	18.5	6.1	6.8	8.52

See footnotes at end of table.

Table 6. Energy End-Use Intensities for Natural Gas, 1995 (Continued)

Building Characteristics	Energy Intensity for Natural Gas (thousand Btu per sq. ft.)					RSE Row Factor
	Total	Space Heating	Water Heating	Cooking	Other[a]	
RSE Column Factor:	1.0	NF	NF	NF	NF	
Off-Hour Equipment Reduction (more than one may apply)						
Heating	41.4	28.6	7.1	4.2	1.5	5.23
Cooling	41.0	27.7	7.3	4.5	1.5	6.27
Lighting	42.4	29.3	7.3	4.3	1.5	4.88

[a] Includes cooling.
(*) = Value rounds to zero in the units displayed.
NF = No applicable RSE row/column 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 types of equipment represent consumption in buildings which have the equipment, not the consumption by the specific piece of equipment. • 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.