Table 3.10. Consumption and Gross Energy Intensity for Sum of Major Fuels for Mercantile and Office Buildings, 1992

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
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
RSE Column Factor:	1.1	1.3	1.3	1.1	0.7	1.4	0.7	0.9	0.9	1.2	1.1	0.7	
All Buildings	632	261	648	600	7,563	4,838	5,745	6,573	83.5	53.9	112.7	91.2	11.36
Building Floorspace (square feet)													
1,001 to 5,000	193	Q	123	Q	2,203	Q	1,018	Q	87.6	Q	121.1	Q	12.97
5,001 to 10,000	149	Q	102	Q	1,987	Q	1,248	Q	74.8	Q	81.6	Q	12.61
10,001 to 25,000	219	Q	220	Q	2,003	Q	1,656	Q	109.1	Q	132.9	Q	21.20
25,001 to 50,000	71	Q	202	Q	1,369	Q	1,823	Q	52.1	Q	110.9	Q	22.89
50,001 to 100,000	Q	71	Q	134	Q	1,268	Q	1,355	Q	56.2	Q	98.8	17.10
100,001 to 200,000	Q	72	Q	145	Q	1,364	Q	1,973	Q	52.7	Q	73.4	21.57
200,001 to 500,000	Q	30	Q	166	Q	646	Q	1,708	Q	46.7	Q	97.2	19.92
Over 500,000	Q	87	Q	155	Q	1,560	Q	1,537	Q	55.9	Q	100.8	25.57
Year Constructed													
1899 or Before	8	Q	37	Q	177	Q	331	Q	42.9	Q	111.1	Q	31.34
1900 to 1919	23	Q	32	Q	355	Q	366	Q	63.8	Q	86.5	Q	26.02
1920 to 1945	82	Q	66	53	1,194	Q	699	690	68.7	Q	94.7	76.3	20.68
1946 to 1959	119	11	Q	58	1,543	Q	833	567	76.8	Q	166.8	102.0	28.97
1960 to 1969	133	87	83	140	1,167	1,513	812	1,376	113.6	Q	102.8	101.8	23.40
1970 to 1979	157	62	143	115	1,518	1,090	1,069	1,214	103.1	56.5	133.5	95.1	20.77
1980 to 1989	98	72	136	152	1,450	1,194	1,452	1,866	67.9	60.2	93.4	81.3	16.85
1990 to 1992	13	16	12	40	159	385	184	407	83.0	42.8	65.2	97.4	31.38
Census Region and Division													
Northeast	105	73	83	141	1,562	1,236	1,123	1,401	67.0	Q	74.1	100.6	18.35
New England	27	Q	32	30	314	Q	350	341	84.6	Q	91.1	89.3	25.42
Middle Atlantic	78	65	51	110	1,248	Q	773	1,060	62.5	Q	66.4	104.2	21.51
Midwest	186	68	132	167	2,023	1,134	1,300	1,504	91.9	60.3	101.3	111.0	16.61
East North Central	124	45	84	133	1,257	603	837	1,187	98.7	74.2	100.0	112.4	19.05
West North Central	62	Q	48	33	765	Q	462	317	80.8	Q	103.7	105.5	28.11
South	223	81	318	164	2,742	1,491	2,010	2,142	81.4	54.0	158.4	76.3	18.45
South Atlantic	60	35	Q	78	951	681	899	1,141	63.5	51.5	Q	68.6	22.67
East South Central	77	Q	62	Q	825	Q	497	445	93.6	Q	125.2	90.6	27.02
West South Central	Q	28	Q	45	965	507	614	557	88.5	54.3	228.4	80.7	28.89
West	118	39	114	128	1,237	977	1,313	1,525	95.3	39.6	87.2	84.1	20.79
Mountain	35	Q	38	37	463	Q	345	413	75.7	Q	110.8	Q	31.75
Pacific	Q	30	76	91	774	778	968	1,112	107.1	38.8	78.7	81.9	23.10
Climate Zone: 45-Year Average													
Fewer than 2,000 CDD and --													
More than 7,000 HDD	65	Q	52	27	769	Q	464	247	85.0	Q	113.1	107.7	28.19
5,500-7,000 HDD	174	69	135	213	2,176	1,315	1,470	1,936	80.1	52.1	91.8	110.1	15.82
4,000-5,499 HDD	152	83	147	184	1,823	1,343	1,150	2,260	83.5	Q	127.7	81.5	23.01
Fewer than 4,000 HDD	163	53	137	117	1,407	894	1,505	1,363	116.0	59.0	91.0	85.6	21.15
More than 2,000 CDD and --													
Fewer than 4,000 HDD	77	33	176	59	1,389	855	1,156	766	55.2	38.6	152.4	76.9	22.22
Energy Sources (more than one may apply)													
Electricity	631	261	648	600	7,549	4,838	5,745	6,573	83.6	53.9	112.7	91.2	10.58
Natural Gas	490	242	470	376	5,007	4,349	3,514	4,332	97.9	55.7	133.7	86.7	13.18
Fuel Oil	106	Q	62	294	1,152	Q	681	2,922	92.3	Q	91.1	100.6	18.38
District Heat	Q	Q	58	189	Q	Q	252	1,460	Q	Q	231.2	129.6	29.82
District Chilled Water	Q	Q	19	53	Q	Q	126	533	Q	Q	147.2	98.8	37.97
Propane	21	Q	Q	Q	533	Q	Q	Q	38.9	Q	Q	Q	21.00
Any Other	11	Q	Q	Q	327	Q	Q	Q	34.8	Q	Q	Q	24.09

See footnotes at end of table.

Table 3.10. Consumption and Gross Energy Intensity for Sum of Major Fuels for Mercantile and Office Buildings, 1992 (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
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
RSE Column Factor:	1.1	1.3	1.3	1.1	0.7	1.4	0.7	0.9	0.9	1.2	1.1	0.7	
Energy End Uses (more than one may apply)													
Heated Buildings	615	251	644	598	7,250	4,585	5,693	6,562	84.8	54.8	113.2	91.2	11.45
Buildings with A/C	525	260	633	599	6,122	4,752	5,627	6,570	85.8	54.6	112.6	91.2	11.72
Buildings with Water Heating	573	258	633	598	6,006	4,802	5,530	6,500	95.5	53.7	114.5	92.0	11.73
Buildings with Cooking	92	195	30	332	485	3,321	301	3,374	190.6	58.8	98.9	98.4	20.39
Buildings with Manufacturing	32	Q	Q	Q	360	Q	Q	Q	89.5	Q	Q	Q	29.02
Workers (main shift)													
Less than 5	171	Q	42	Q	2,938	Q	647	Q	58.3	Q	64.5	Q	11.73
5 to 9	118	Q	151	Q	1,728	Q	930	Q	68.6	Q	162.8	Q	18.33
10 to 19	129	Q	90	Q	1,412	Q	900	Q	91.2	Q	100.4	Q	17.57
20 to 49	140	28	222	Q	1,158	592	1,777	Q	120.9	48.0	125.2	Q	21.61
50 to 99	65	51	77	25	266	980	971	355	246.0	52.2	79.2	69.3	26.89
100 or More	Q	169	65	560	Q	2,867	521	5,617	Q	59.0	124.2	99.7	15.17
Weekly Operating Hours													
39 or Fewer	11	Q	10	Q	252	Q	150	Q	43.7	Q	63.4	Q	20.95
40 to 48	99	Q	306	145	1,564	Q	3,134	1,501	63.4	Q	97.6	96.4	14.50
49 to 60	203	16	135	188	2,946	353	1,570	2,467	69.1	44.6	86.1	76.3	18.17
61 to 84	167	119	Q	146	1,932	2,736	464	1,584	86.5	43.5	Q	91.9	16.66
85 to 167	114	103	21	43	714	1,324	204	548	159.7	Q	103.0	Q	25.76
Open Continuously	37	15	Q	76	156	Q	224	402	236.5	Q	Q	187.6	31.79
Ownership and Occupancy													
Nongovernment Owned	579	209	594	492	7,120	4,199	5,214	5,451	81.4	49.8	113.8	90.2	11.73
Owner Occupied	423	124	452	383	5,217	2,579	3,831	4,017	81.0	48.3	118.0	95.4	13.28
Single Establishment	368	64	375	177	4,501	1,191	2,615	1,532	81.8	53.9	143.4	115.4	17.77
Multiple Establishment	54	60	77	206	716	1,388	1,216	2,485	75.6	43.4	63.3	83.1	18.69
Nonowner Occupied	157	85	142	108	1,903	1,619	1,383	1,434	82.4	52.2	102.5	75.6	19.15
Single Establishment	67	Q	Q	26	894	Q	428	294	74.7	Q	Q	88.4	25.92
Multiple Establishment	90	79	53	83	1,009	1,483	954	1,140	89.2	53.2	55.0	72.4	19.82
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned	52	Q	54	108	443	Q	532	1,122	117.9	Q	101.4	96.2	22.46
Predominant Exterior Wall Material													
Masonry	442	197	451	308	5,022	4,013	4,394	3,324	88.0	49.1	102.7	92.7	12.81
Siding or Shingles	45	Q	57	Q	669	Q	636	Q	67.9	Q	89.4	Q	18.72
Metal Panels	123	Q	Q	28	1,549	Q	297	Q	79.7	Q	Q	Q	23.48
Concrete Panels	11	58	12	89	Q	Q	Q	1,064	Q	Q	Q	83.5	26.66
Window Glass	Q	Q	20	126	Q	Q	Q	1,184	Q	Q	Q	106.2	27.22
Other	Q	Q	Q	40	Q	Q	Q	430	Q	Q	Q	93.6	22.99
Predominant Roof Material													
Built-Up	326	133	293	285	3,052	2,846	2,577	2,948	106.7	46.9	113.6	96.6	14.94
Shingles (Not Wood)	93	Q	140	Q	1,333	Q	1,370	Q	69.6	Q	102.5	Q	16.95
Metal Surfacing	129	Q	Q	19	2,008	Q	436	498	64.2	Q	Q	Q	24.73
Synthetic or Rubber	63	97	81	206	748	1,378	830	2,166	84.2	Q	97.3	95.1	17.68
Other	21	Q	49	40	422	Q	533	441	49.8	Q	92.1	90.0	25.87
Floors													
One	411	88	253	Q	4,503	1,752	2,060	Q	91.3	50.2	122.8	Q	14.54
Two	154	128	143	44	1,940	2,127	1,667	718	79.1	60.2	85.5	60.6	18.75
Three	56	20	119	70	951	503	1,213	549	59.0	40.2	98.0	127.1	22.92
Four to Nine	Q	Q	133	228	Q	Q	801	2,332	Q	Q	165.6	97.7	23.69
Ten or More	Q	Q	Q	233	Q	Q	Q	2,623	Q	Q	Q	89.0	18.71
Percent Window Glass													
25 or Less	523	177	479	194	6,576	3,456	4,125	2,339	79.5	51.3	116.1	83.1	13.65
26 to 50	98	76	105	165	847	1,251	1,121	1,828	115.6	Q	93.6	90.5	20.96
51 to 75	Q	Q	52	132	Q	Q	327	1,467	Q	Q	160.2	90.2	22.82
76 to 100	Q	Q	Q	108	Q	Q	Q	940	Q	Q	Q	114.4	29.60

See footnotes at end of table.

Table 3.10. Consumption and Gross Energy Intensity for Sum of Major Fuels for Mercantile and Office Buildings, 1992 (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
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
RSE Column Factor:	1.1	1.3	1.3	1.1	0.7	1.4	0.7	0.9	0.9	1.2	1.1	0.7	
Building Shape													
Square	31	Q	31	64	347	Q	362	646	89.8	Q	85.1	99.5	25.95
Rectangle	504	128	462	285	5,809	2,115	4,060	3,172	86.7	60.6	113.7	90.0	14.28
Right Angle	49	32	51	37	828	723	566	575	59.6	44.9	90.7	Q	22.25
Other	47	95	104	213	579	1,837	757	2,180	81.4	51.9	136.8	97.7	20.13
Energy-Related Space Functions (more than one may apply)													
Commercial Food Preparation	92	195	30	332	485	3,321	301	3,374	190.6	58.8	98.9	98.4	20.39
Computer Room	40	43	169	446	376	716	1,035	4,534	105.8	60.1	163.5	98.4	22.07
Rooms with Special Ventilation	47	18	46	123	492	286	388	1,108	95.6	62.7	118.7	110.9	25.31
Activities with Large Amounts of Hot Water	134	36	Q	45	483	633	Q	597	276.8	56.2	Q	75.8	33.74
Space-Heating Energy Sources (more than one may apply)													
Electricity	212	156	207	257	2,275	2,847	2,574	2,871	93.3	54.7	80.3	89.4	15.29
Natural Gas	427	198	442	278	4,721	3,554	3,236	3,292	90.5	55.8	136.5	84.5	14.46
Fuel Oil	98	Q	44	70	1,065	Q	547	798	91.6	Q	80.9	88.0	23.83
District Heat	Q	Q	53	188	Q	Q	240	1,453	Q	Q	220.6	129.4	28.89
Propane	17	Q	Q	Q	455	Q	Q	Q	37.0	Q	Q	Q	21.73
Wood	6	Q	Q	Q	196	Q	Q	Q	28.5	Q	Q	Q	30.07
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Cooling Energy Sources (more than one may apply)													
Electricity	513	255	604	559	5,962	4,706	5,345	6,231	86.0	54.2	112.9	89.7	12.16
Natural Gas	19	Q	Q	Q	228	Q	204	Q	83.4	Q	Q	Q	32.14
District Chilled Water	Q	Q	19	53	Q	Q	126	533	Q	Q	147.2	98.8	37.97
Water-Heating Energy Sources (more than one may apply)													
Electricity	259	132	305	249	2,953	2,550	2,898	2,892	87.7	51.7	105.3	86.1	14.26
Natural Gas	325	152	287	221	2,914	2,689	2,339	2,485	111.4	56.4	122.5	88.8	17.73
Fuel Oil	31	Q	17	Q	285	Q	235	Q	109.4	Q	74.0	Q	29.11
District Heat	Q	Q	Q	143	Q	Q	108	1,138	Q	Q	323.1	125.5	34.66
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Cooking Energy Sources (more than one may apply)													
Electricity	42	137	Q	221	277	2,118	Q	2,141	151.1	64.8	Q	103.1	20.89
Natural Gas	Q	152	Q	168	256	2,540	Q	1,702	Q	59.9	Q	98.6	19.09
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Percent of Floorspace Heated													
Not Heated	Q	Q	Q	Q	313	Q	Q	Q	Q	Q	Q	Q	42.12
1 to 50	65	Q	20	11	1,449	Q	336	Q	44.6	Q	60.0	Q	24.47
51 to 99	129	39	134	146	1,524	787	1,186	1,844	84.3	49.5	112.9	79.2	23.47
100	422	159	490	441	4,278	2,908	4,171	4,266	98.6	54.7	117.6	103.3	12.30
Percent of Floorspace Cooled													
Not Cooled	107	Q	Q	Q	1,441	Q	Q	Q	73.9	Q	Q	Q	20.52
1 to 50	251	Q	52	21	3,257	Q	778	461	77.2	Q	67.1	44.6	18.89
51 to 99	86	139	192	275	1,191	2,141	1,600	3,062	72.4	64.8	119.8	89.7	19.44
100	187	95	390	304	1,674	1,780	3,250	3,048	111.9	53.4	119.9	99.6	15.52
Energy Conservation Features (more than one may apply)													
Any Conservation Features	606	261	642	600	7,199	4,838	5,665	6,573	84.2	53.9	113.3	91.2	11.47
Building Shell	585	255	637	599	6,956	4,710	5,614	6,572	84.1	54.1	113.4	91.1	11.61
HVAC	419	242	549	593	4,582	4,323	4,576	6,428	91.4	56.0	120.1	92.2	12.63
Lighting	197	178	269	487	2,284	3,055	2,117	4,925	86.3	58.4	126.8	98.9	15.05
Other	31	32	37	50	417	586	390	513	75.1	54.4	93.8	97.4	22.13

See footnotes at end of table.

Table 3.10. Consumption and Gross Energy Intensity for Sum of Major Fuels for Mercantile and Office Buildings, 1992 (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
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
RSE Column Factor:	1.1	1.3	1.3	1.1	0.7	1.4	0.7	0.9	0.9	1.2	1.1	0.7	
Energy Management Practices (more than one may apply)													
Energy Management and Control System	40	78	134	387	228	1,468	733	3,890	176.0	53.0	183.5	99.6	20.98
Demand-Side Management[1] Participation	46	89	136	185	397	1,331	699	2,008	116.9	Q	194.5	92.4	20.17
Energy Audit	91	55	107	257	843	1,035	1,173	2,619	107.6	53.2	90.9	98.2	17.19
Building Energy Manager	Q	Q	Q	45	Q	Q	Q	427	Q	Q	Q	104.4	26.63

[1] These Demand-Side Management (DSM) data, which include utility-sponsored programs, in-house programs, and third-party sponsored programs, were reported by the building respondent on the Building Questionnaire (Form EIA-871A). The electric utility-sponsored DSM data reported by the electricity suppliers (Form EIA-871E-1b) are presented in the "At a Glance" section and Table 3.49 of this section. See Appendix B, "Nonsampling and Sampling Errors," for a discussion of the differences between the energy supplier-reported data and building respondent-reported data.

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. • Small buildings are 50,000 square feet or less. Large buildings are greater than 50,000 square feet. • 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. • A/C = Air Conditioning. • 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 1992 Commercial Buildings Energy Consumption Survey.

Table 3.11. Consumption and Gross Energy Intensity for Sum of Major Fuels for Education, Health Care, and Food Sales and Service Buildings, 1992

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
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
RSE Column Factor:	1.0	1.6	1.1	0.9	1.3	1.0	0.6	0.9	0.9	
All Buildings	637	403	445	8,470	1,763	2,248	75.2	228.5	197.8	8.79
Building Floorspace (square feet)										
1,001 to 5,000	25	9	199	292	108	771	86.2	85.9	257.6	16.63
5,001 to 10,000	19	Q	104	307	Q	426	62.0	Q	243.3	17.66
10,001 to 25,000	74	Q	73	997	Q	512	74.3	Q	143.2	19.54
25,001 to 50,000	106	Q	51	1,551	Q	407	68.1	Q	124.6	25.41
50,001 to 100,000	175	Q	Q	2,045	Q	Q	85.6	Q	Q	12.00
100,001 to 200,000	120	82	Q	1,641	401	Q	73.0	204.9	Q	19.43
200,001 to 500,000	117	148	Q	1,621	504	Q	71.9	294.8	Q	22.74
Over 500,000	Q	108	Q	Q	381	Q	Q	283.4	Q	12.97
Year Constructed										
1899 or Before	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1900 to 1919	28	Q	Q	441	Q	Q	63.1	Q	Q	37.64
1920 to 1945	82	66	69	1,077	227	351	76.0	289.4	197.6	22.64
1946 to 1959	130	40	59	1,903	152	384	68.5	265.1	153.8	19.97
1960 to 1969	180	110	66	2,405	492	346	74.7	224.0	189.9	18.90
1970 to 1979	152	124	116	1,728	544	520	87.9	228.6	223.4	16.41
1980 to 1989	49	53	99	653	287	376	74.3	185.8	262.0	16.53
1990 to 1992	Q	Q	Q	253	Q	Q	57.1	Q	Q	42.65
Census Region and Division										
Northeast	171	86	75	1,968	386	565	87.1	223.8	131.9	15.35
New England	54	Q	Q	604	Q	Q	89.7	Q	Q	19.56
Middle Atlantic	117	60	55	1,364	241	408	85.9	250.8	135.5	19.33
Midwest	195	141	128	2,386	487	614	81.6	289.8	209.2	16.28
East North Central	127	89	78	1,534	265	399	82.9	335.8	194.9	16.53
West North Central	67	52	51	852	222	215	79.2	234.9	235.7	32.68
South	156	136	129	2,620	597	652	59.7	226.8	197.2	15.73
South Atlantic	72	Q	60	1,168	307	290	61.8	238.0	208.1	22.17
East South Central	35	Q	Q	548	Q	Q	63.9	Q	Q	23.75
West South Central	49	Q	50	904	Q	284	54.5	Q	175.2	25.47
West	114	40	113	1,496	292	416	76.4	136.1	271.4	19.41
Mountain	44	Q	Q	410	Q	Q	107.5	Q	Q	33.04
Pacific	70	35	70	1,086	261	250	64.7	135.7	279.2	24.31
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	56	Q	38	592	Q	166	95.2	Q	226.8	31.94
5,500-7,000 HDD	237	151	134	2,614	531	697	90.7	285.3	191.4	13.56
4,000-5,499 HDD	143	68	93	2,079	267	547	68.7	252.6	170.9	17.90
Fewer than 4,000 HDD	127	118	110	1,849	614	422	68.9	192.0	260.7	22.18
More than 2,000 CDD and --										
Fewer than 4,000 HDD	73	38	70	1,336	198	415	54.8	193.1	168.5	21.51
Energy Sources (more than one may apply)										
Electricity	637	403	445	8,470	1,763	2,248	75.2	228.5	197.8	8.26
Natural Gas	534	367	371	6,856	1,544	1,655	77.9	237.6	224.1	10.11
Fuel Oil	158	299	25	1,837	1,093	172	85.9	273.6	147.8	19.96
District Heat	79	116	Q	688	403	Q	115.5	287.2	Q	19.85
District Chilled Water	29	63	Q	253	227	Q	116.6	279.5	Q	26.14
Propane	34	Q	26	470	Q	230	71.5	Q	114.4	29.57
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table 3.11. Consumption and Gross Energy Intensity for Sum of Major Fuels for Education, Health Care, and Food Sales and Service Buildings, 1992 (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
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
RSE Column Factor:	1.0	1.6	1.1	0.9	1.3	1.0	0.6	0.9	0.9	
Energy End Uses (more than one may apply)										
Heated Buildings	635	403	437	8,379	1,746	2,158	75.8	230.6	202.2	8.95
Buildings with A/C	562	399	436	7,389	1,747	2,174	76.0	228.2	200.6	8.99
Buildings with Water Heating	615	402	443	8,036	1,760	2,228	76.5	228.2	198.8	8.82
Buildings with Cooking	420	338	383	5,676	1,289	1,799	74.0	262.1	212.6	10.34
Buildings with Manufacturing	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Workers (main shift)										
Less than 5	22	Q	92	481	Q	648	46.6	Q	141.3	18.05
5 to 9	27	Q	108	448	Q	560	61.2	Q	192.4	22.46
10 to 19	54	Q	122	738	Q	485	73.5	Q	252.0	18.74
20 to 49	182	Q	86	2,533	162	390	72.0	153.4	219.9	21.83
50 to 99	192	Q	Q	2,213	Q	Q	86.5	Q	Q	11.53
100 or More	159	348	Q	2,057	1,334	Q	77.2	260.6	Q	15.99
Weekly Operating Hours										
39 or Fewer	86	Q	Q	1,221	Q	Q	70.3	Q	Q	21.58
40 to 48	178	11	11	2,761	151	81	64.6	71.1	133.9	21.52
49 to 60	82	14	20	1,447	151	102	56.4	92.1	197.4	23.40
61 to 84	154	Q	101	1,607	Q	483	95.8	Q	209.0	15.77
85 to 167	123	Q	237	1,333	Q	1,235	92.2	Q	191.8	17.67
Open Continuously	Q	345	72	Q	1,284	291	Q	268.3	247.4	14.90
Ownership and Occupancy										
Nongovernment Owned	89	269	426	1,508	1,242	2,091	59.1	216.3	203.6	11.05
Owner Occupied	82	259	344	1,402	1,139	1,660	58.7	227.5	207.0	12.03
Single Establishment	77	231	328	1,341	1,010	1,561	57.5	229.0	210.1	12.67
Multiple Establishment	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Nonowner Occupied	Q	Q	82	Q	Q	431	Q	Q	190.5	20.87
Single Establishment	Q	Q	68	Q	Q	340	Q	Q	199.4	23.01
Multiple Establishment	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned	548	134	Q	6,961	521	157	78.7	257.7	Q	15.42
Predominant Exterior Wall Material										
Masonry	558	369	359	7,714	1,587	1,763	72.3	232.5	203.8	8.91
Siding or Shingles	6	Q	60	120	Q	336	51.0	Q	177.4	21.84
Metal Panels	11	Q	Q	145	Q	Q	75.2	Q	Q	41.67
Concrete Panels	53	Q	Q	379	Q	Q	139.5	Q	Q	37.89
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Predominant Roof Material										
Built-Up	309	235	193	4,272	1,062	965	72.3	221.4	199.9	12.36
Shingles (Not Wood)	47	Q	102	746	123	597	63.0	174.1	170.9	21.65
Metal Surfacing	32	Q	44	403	Q	190	79.1	Q	230.1	25.49
Synthetic or Rubber	202	133	46	2,322	507	271	87.0	261.8	170.9	19.57
Other	47	Q	60	728	Q	225	64.9	Q	265.1	24.99
Floors										
One	172	24	258	2,823	190	1,263	61.1	128.1	204.7	13.18
Two	180	Q	114	2,217	152	513	81.1	172.9	221.9	17.84
Three	185	20	53	2,200	140	313	83.9	145.8	170.9	19.73
Four to Nine	94	239	Q	1,171	925	Q	79.8	258.4	Q	19.38
Ten or More	Q	93	Q	Q	356	Q	Q	260.7	Q	19.11

See footnotes at end of table.

Table 3.11. Consumption and Gross Energy Intensity for Sum of Major Fuels for Education, Health Care, and Food Sales and Service Buildings, 1992 (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
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
RSE Column Factor:	1.0	1.6	1.1	0.9	1.3	1.0	0.6	0.9	0.9	
Percent Window Glass										
25 or Less	396	301	352	5,654	1,255	1,818	70.0	240.1	193.4	10.63
26 to 50	193	88	80	2,228	451	376	86.7	196.1	212.0	17.49
51 to 75	37	Q	Q	450	Q	Q	82.2	Q	Q	22.24
76 to 100	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Building Shape										
Square	23	Q	36	251	Q	141	89.8	Q	254.0	30.36
Rectangle	187	110	367	2,770	656	1,796	67.6	167.3	204.6	12.28
Right Angle	54	Q	Q	729	Q	Q	73.4	Q	Q	23.02
Other	374	255	29	4,719	953	146	79.2	267.6	200.3	17.08
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	420	338	383	5,676	1,294	1,803	74.0	261.5	212.2	10.35
Computer Room	177	241	Q	2,202	953	Q	80.5	252.9	Q	13.86
Rooms with Special Ventilation	169	285	50	2,176	1,006	230	77.8	283.6	216.8	15.61
Activities with Large Amounts of Hot Water	110	141	43	1,380	540	214	79.7	261.5	202.1	20.98
Space-Heating Energy Sources (more than one may apply)										
Electricity	147	146	137	2,159	667	692	68.1	218.7	198.5	15.08
Natural Gas	456	302	285	5,957	1,223	1,300	76.5	247.1	219.2	11.08
Fuel Oil	139	168	21	1,548	584	159	89.6	287.0	129.2	21.01
District Heat	74	116	Q	641	403	Q	116.0	287.2	Q	17.63
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Cooling Energy Sources (more than one may apply)										
Electricity	508	369	417	6,912	1,605	2,090	73.5	230.1	199.5	8.99
Natural Gas	Q	Q	Q	487	Q	Q	114.7	Q	Q	42.00
District Chilled Water	29	63	Q	253	227	Q	116.6	279.5	Q	26.14
Water-Heating Energy Sources (more than one may apply)										
Electricity	128	22	121	2,002	227	773	63.9	98.6	156.3	19.52
Natural Gas	425	268	306	5,514	1,150	1,280	77.1	233.4	239.1	11.23
Fuel Oil	67	Q	Q	798	Q	Q	83.7	Q	Q	22.16
District Heat	49	94	Q	390	314	Q	125.3	299.7	Q	20.88
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Cooking Energy Sources (more than one may apply)										
Electricity	185	165	173	2,579	631	855	71.6	262.1	202.0	12.76
Natural Gas	318	265	309	4,179	1,000	1,269	76.0	264.7	243.8	12.78
Propane	Q	Q	16	267	Q	154	70.6	Q	101.7	34.28
Percent of Floorspace Heated										
Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50	Q	Q	35	Q	Q	231	Q	Q	152.6	30.89
51 to 99	73	51	101	1,105	253	527	65.8	201.6	191.9	22.33
100	559	345	300	7,143	1,471	1,401	78.2	234.7	214.3	9.89
Percent of Floorspace Cooled										
Not Cooled	75	Q	9	1,080	Q	75	69.4	Q	116.3	25.09
1 to 50	215	Q	69	3,008	Q	474	71.5	Q	145.5	15.90
51 to 99	116	150	142	1,538	576	684	75.5	259.9	208.0	15.32
100	231	231	225	2,844	1,081	1,016	81.1	213.6	221.4	14.18

See footnotes at end of table.

Table 3.11. Consumption and Gross Energy Intensity for Sum of Major Fuels for Education, Health Care, and Food Sales and Service Buildings, 1992 (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
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
RSE Column Factor:	1.0	1.6	1.1	0.9	1.3	1.0	0.6	0.9	0.9	
Energy Conservation Features (more than one may apply)										
Any Conservation Features	636	388	439	8,457	1,735	2,160	75.2	223.5	203.5	8.70
Building Shell	630	388	430	8,379	1,735	2,107	75.2	223.5	203.9	8.79
HVAC	602	381	344	7,719	1,664	1,583	78.0	228.7	217.2	9.36
Lighting	279	318	188	3,297	1,304	743	84.7	243.7	252.3	12.25
Other	66	85	42	922	368	225	71.1	229.9	186.7	20.81
Energy Management Practices (more than one may apply)										
Energy Management and Control System	259	243	63	3,068	943	281	84.3	258.2	223.1	16.54
Demand-Side Management[1] Participation	230	225	51	2,560	911	269	89.7	246.7	189.1	17.08
Energy Audit	222	199	86	2,810	804	350	79.1	247.4	245.7	16.07
Building Energy Manager	40	Q	Q	482	Q	Q	82.9	Q	Q	31.07

[1] These Demand-Side Management (DSM) data, which include utility-sponsored programs, in-house programs, and third-party sponsored programs, were reported by the building respondent on the Building Questionnaire (Form EIA-871A). The electric utility-sponsored DSM data reported by the electricity suppliers (Form EIA-871E-1b) are presented in the "At a Glance" section and Table 3.49 of this section. See Appendix B, "Nonsampling and Sampling Errors," for a discussion of the differences between the energy supplier-reported data and building respondent-reported data.

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. • A/C = Air Conditioning. • 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 1992 Commercial Buildings Energy Consumption Survey.

Table 3.19. Electricity Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992

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
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
RSE Column Factor:	0.9	1.4	1.2	1.3	0.8	1.6	0.9	1.1	0.7	1.2	0.8	0.7	
All Buildings	76	54	85	122	7,549	4,838	5,745	6,573	10.1	11.2	14.7	18.5	9.01
Building Floorspace (square feet)													
1,001 to 5,000	28	Q	14	Q	2,189	Q	1,018	Q	12.7	Q	13.3	Q	9.46
5,001 to 10,000	19	Q	13	Q	1,987	Q	1,248	Q	9.4	Q	10.1	Q	14.39
10,001 to 25,000	20	Q	26	Q	2,003	Q	1,656	Q	10.0	Q	15.9	Q	14.57
25,001 to 50,000	10	Q	32	Q	1,369	Q	1,823	Q	7.1	Q	17.6	Q	18.08
50,001 to 100,000	Q	14	Q	25	Q	1,268	Q	1,355	Q	11.0	Q	18.4	15.48
100,001 to 200,000	Q	15	Q	29	Q	1,364	Q	1,973	Q	10.7	Q	14.9	20.28
200,001 to 500,000	Q	7	Q	34	Q	646	Q	1,707	Q	10.5	Q	20.1	19.16
Over 500,000	Q	19	Q	33	Q	1,560	Q	1,537	Q	11.9	Q	21.4	17.54
Year Constructed													
1899 or Before	1	Q	Q	Q	177	Q	331	Q	4.7	Q	Q	Q	41.42
1900 to 1919	2	Q	3	Q	355	Q	366	Q	4.6	Q	9.4	Q	30.99
1920 to 1945	8	Q	6	8	1,194	Q	699	690	6.8	Q	9.0	11.2	22.19
1946 to 1959	12	Q	15	12	1,543	Q	833	567	8.0	Q	17.7	21.5	22.08
1960 to 1969	15	18	12	25	1,165	1,513	812	1,376	12.5	11.8	14.7	18.5	20.39
1970 to 1979	19	13	18	26	1,518	1,090	1,069	1,214	12.2	11.7	17.3	21.6	15.81
1980 to 1989	18	16	24	37	1,445	1,194	1,452	1,866	12.6	13.6	16.2	19.8	15.95
1990 to 1992	2	4	3	8	153	385	184	406	13.0	10.5	14.4	20.1	28.95
Census Region and Division													
Northeast	10	13	11	25	1,562	1,236	1,123	1,401	6.1	10.6	9.9	18.2	17.77
New England	2	Q	3	6	314	Q	350	341	6.9	Q	7.4	16.3	24.43
Middle Atlantic	7	12	9	20	1,248	947	773	1,060	5.9	12.2	11.1	18.8	22.13
Midwest	19	13	15	30	2,016	1,134	1,300	1,504	9.6	11.7	11.4	19.9	17.17
East North Central	13	8	10	23	1,251	603	837	1,187	10.1	13.8	11.8	19.2	20.93
West North Central	7	Q	5	7	765	Q	462	317	8.7	Q	10.8	22.5	29.40
South	32	19	37	39	2,737	1,491	2,010	2,142	11.8	12.7	18.3	18.0	14.40
South Atlantic	11	9	18	18	951	681	899	1,141	11.1	13.0	19.8	15.8	19.59
East South Central	11	Q	11	Q	825	Q	497	Q	13.5	Q	21.8	Q	26.67
West South Central	11	7	8	11	960	507	614	557	10.9	13.4	13.2	20.0	21.48
West	15	9	22	28	1,235	977	1,313	1,525	12.3	9.0	16.7	18.1	18.62
Mountain	5	Q	6	7	463	Q	345	413	10.8	Q	16.4	17.3	30.59
Pacific	10	7	16	20	772	778	968	1,112	13.2	8.9	16.8	18.4	22.12
Climate Zone: 45-Year Average													
Fewer than 2,000 CDD and --													
More than 7,000 HDD	6	Q	5	4	769	Q	464	247	7.5	Q	10.4	17.8	27.04
5,500-7,000 HDD	18	13	16	38	2,176	1,315	1,470	1,936	8.2	10.2	10.9	19.8	16.88
4,000-5,499 HDD	18	16	19	36	1,816	1,343	1,150	2,260	10.2	12.0	16.5	15.7	20.43
Fewer than 4,000 HDD	19	12	27	28	1,399	894	1,505	1,363	13.8	13.9	18.0	20.7	16.39
More than 2,000 CDD and --													
Fewer than 4,000 HDD	15	8	18	15	1,389	855	1,156	766	10.6	9.6	15.3	19.7	18.91
Energy Sources (more than one may apply)													
Electricity	76	54	85	122	7,549	4,838	5,745	6,573	10.1	11.2	14.7	18.5	9.01
Natural Gas	48	50	48	72	5,002	4,349	3,514	4,332	9.7	11.5	13.8	16.5	11.74
Fuel Oil	8	Q	9	61	1,146	Q	681	2,921	6.8	Q	12.6	21.0	22.12
District Heat	Q	Q	4	32	Q	Q	252	1,460	Q	Q	17.7	21.7	33.93
District Chilled Water	Q	Q	Q	9	Q	Q	Q	533	Q	Q	Q	16.7	28.60
Propane	5	Q	Q	Q	526	Q	Q	Q	9.3	Q	Q	Q	24.86
Any Other	1	Q	Q	Q	320	Q	Q	Q	3.9	Q	Q	Q	24.64

See footnotes at end of table.

Table 3.19. Electricity Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992 (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
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
RSE Column Factor:	0.9	1.4	1.2	1.3	0.8	1.6	0.9	1.1	0.7	1.2	0.8	0.7	
Energy End Uses (more than one may apply)													
Heated Buildings	74	52	84	121	7,238	4,585	5,693	6,562	10.2	11.3	14.7	18.5	9.02
Buildings with A/C	68	54	84	121	6,122	4,752	5,627	6,570	11.2	11.3	14.9	18.5	9.20
Buildings with Water Heating	69	54	82	121	6,006	4,802	5,530	6,500	11.5	11.2	14.7	18.7	9.36
Buildings with Cooking	13	42	4	68	485	3,321	301	3,374	27.0	12.7	14.5	20.0	16.67
Buildings with Manufacturing	3	Q	Q	Q	354	Q	Q	Q	8.9	Q	Q	Q	26.54
Workers (main shift)													
Less than 5	23	Q	5	Q	2,924	Q	647	Q	7.8	Q	7.2	Q	14.44
5 to 9	17	Q	9	Q	1,728	Q	930	Q	9.7	Q	10.1	Q	15.70
10 to 19	14	Q	13	Q	1,412	Q	900	Q	10.2	Q	14.5	Q	17.16
20 to 49	16	6	30	Q	1,158	592	1,777	Q	13.5	10.8	17.1	Q	18.93
50 to 99	5	10	13	5	266	980	971	355	19.0	10.3	13.4	12.9	24.37
100 or More	Q	36	14	115	Q	2,867	521	5,617	Q	12.5	27.2	20.5	13.30
Weekly Operating Hours													
39 or Fewer	1	Q	2	Q	250	Q	150	Q	4.7	Q	10.1	Q	28.79
40 to 48	11	Q	39	30	1,558	Q	3,134	1,501	7.3	Q	12.3	19.8	13.65
49 to 60	19	Q	25	38	2,939	Q	1,570	2,467	6.4	Q	15.9	15.6	14.36
61 to 84	22	25	7	32	1,932	2,736	464	1,584	11.6	9.1	14.1	19.9	16.48
85 to 167	17	23	4	8	714	1,324	204	548	23.3	17.1	19.5	14.0	22.91
Open Continuously	6	Q	9	13	156	Q	224	402	36.9	Q	40.0	33.2	31.02
Ownership and Occupancy													
Nongovernment Owned	70	44	77	105	7,107	4,199	5,214	5,451	9.9	10.5	14.8	19.2	9.71
Owner Occupied	52	26	58	83	5,206	2,579	3,831	4,017	10.0	10.1	15.0	20.5	11.02
Single Establishment	46	13	46	39	4,489	1,191	2,615	1,532	10.2	10.6	17.5	25.2	15.15
Multiple Establishment	6	13	12	44	716	1,388	1,216	2,485	8.7	9.6	9.7	17.7	17.43
Nonowner Occupied	18	18	19	22	1,901	1,619	1,383	1,434	9.6	11.2	14.1	15.4	15.34
Single Establishment	8	Q	10	6	892	Q	428	294	9.5	Q	22.4	20.1	23.99
Multiple Establishment	10	17	10	16	1,009	1,483	954	1,140	9.7	11.2	10.3	14.1	18.44
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned	6	Q	8	17	443	Q	532	1,122	13.6	Q	14.3	15.1	22.30
Predominant Exterior Wall Material													
Masonry	51	41	63	56	5,022	4,013	4,394	3,323	10.1	10.3	14.4	16.9	10.62
Siding or Shingles	6	Q	8	Q	662	Q	636	Q	9.1	Q	12.5	Q	17.17
Metal Panels	16	Q	5	Q	1,541	Q	297	Q	10.3	Q	18.3	Q	27.26
Concrete Panels	Q	12	Q	20	Q	731	Q	1,064	Q	15.9	Q	18.4	15.97
Window Glass	Q	Q	Q	28	Q	Q	Q	1,184	Q	Q	Q	23.5	21.33
Other	Q	Q	Q	9	Q	Q	Q	430	Q	Q	Q	21.6	22.95
Predominant Roof Material													
Built-Up	36	28	41	57	3,052	2,846	2,577	2,948	11.7	9.9	15.8	19.4	11.96
Shingles (Not Wood)	13	Q	14	Q	1,327	Q	1,370	Q	9.5	Q	10.5	Q	14.91
Metal Surfacing	18	Q	7	Q	2,000	Q	436	Q	8.9	Q	15.0	Q	23.37
Synthetic or Rubber	7	19	16	41	748	1,378	830	2,165	9.0	14.1	18.8	18.8	15.89
Other	3	Q	7	10	422	Q	533	441	7.5	Q	13.7	21.8	29.38
Space-Heating Energy Source													
Electricity	33	33	44	62	2,275	2,847	2,574	2,871	14.7	11.6	16.9	21.5	12.47
Electricity Main	24	16	34	41	1,290	1,568	1,949	1,797	18.6	10.4	17.4	22.9	15.46
Electricity Secondary	9	17	10	20	985	1,279	625	1,073	9.5	13.0	15.5	19.0	21.27
Other Excluding Electricity	40	19	40	60	4,963	1,738	3,119	3,691	8.1	10.8	12.9	16.1	11.68
Building Not Heated	Q	Q	Q	Q	311	Q	Q	Q	Q	Q	Q	Q	34.63

See footnotes at end of table.

Table 3.19. Electricity Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992 (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
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
RSE Column Factor:	0.9	1.4	1.2	1.3	0.8	1.6	0.9	1.1	0.7	1.2	0.8	0.7	
Main Space-Heating Energy Source													
Electricity	24	16	34	41	1,290	1,568	1,949	1,797	18.6	10.4	17.4	22.9	15.46
Natural Gas	38	34	42	45	4,512	2,747	3,013	2,911	8.5	12.4	13.9	15.3	12.60
Fuel Oil	5	Q	4	Q	823	Q	481	Q	5.9	Q	7.6	Q	18.07
District Heat	Q	Q	3	29	Q	Q	216	1,324	Q	Q	14.4	22.1	24.62
Propane	3	Q	Q	Q	338	Q	Q	Q	9.8	Q	Q	Q	34.02
Wood	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Replacement Energy Source for Main Heating													
Electricity Only	6	Q	3	Q	704	Q	336	Q	8.6	Q	10.4	Q	21.09
Natural Gas Only	5	Q	3	Q	438	Q	232	Q	11.3	Q	11.4	Q	25.97
Fuel Oil Only	4	Q	2	7	440	Q	163	518	8.8	Q	12.2	Q	36.54
Propane Only	3	Q	4	Q	285	Q	315	Q	9.5	Q	13.9	Q	33.72
Any Other Single Energy Source	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source	2	Q	Q	Q	158	Q	Q	Q	11.6	Q	Q	Q	32.17
No Replacement Energy Source	54	48	69	107	5,146	4,011	4,492	5,402	10.5	11.9	15.3	19.8	9.80
Building Not Heated	Q	Q	Q	Q	311	Q	Q	Q	Q	Q	Q	Q	34.63
Cooling Energy Source													
Electricity	67	53	79	116	5,962	4,706	5,345	6,231	11.3	11.3	14.9	18.5	9.44
Other Excluding Electricity	Q	Q	5	6	Q	Q	282	339	Q	Q	16.1	17.6	26.42
A/C Not Performed	8	Q	Q	Q	1,427	Q	Q	Q	5.4	Q	Q	Q	22.33
Water-Heating Energy Source													
Electricity	39	29	50	60	2,953	2,550	2,898	2,892	13.3	11.4	17.1	20.8	12.10
Other Excluding Electricity	30	25	32	61	3,053	2,253	2,632	3,608	9.7	10.9	12.2	16.9	14.09
Water Heating Not Performed	7	Q	3	Q	1,543	Q	215	Q	4.8	Q	14.3	Q	17.83
Cooking Energy Source													
Electricity	9	30	Q	47	277	2,118	Q	2,141	33.0	14.1	Q	22.0	18.40
Other Excluding Electricity	4	12	Q	20	209	1,203	Q	1,232	19.2	10.4	Q	16.6	18.54
Cooking Not Performed	63	12	80	54	7,064	1,518	5,445	3,199	8.9	7.8	14.7	16.9	11.81
Percent of Floorspace Heated													
Not Heated	Q	Q	Q	Q	311	Q	Q	Q	Q	Q	Q	Q	34.63
1 to 50	10	Q	Q	3	1,449	Q	336	Q	6.9	Q	Q	Q	23.94
51 to 99	16	9	15	29	1,512	787	1,186	1,844	10.3	11.7	12.6	15.6	18.19
100	48	33	65	90	4,278	2,908	4,171	4,266	11.2	11.2	15.5	21.0	10.18
Percent of Floorspace Cooled													
Not Cooled	8	Q	Q	Q	1,427	Q	Q	Q	5.4	Q	Q	Q	22.33
1 to 50	27	Q	5	4	3,257	Q	778	461	8.4	Q	5.9	8.0	18.27
51 to 99	15	30	22	53	1,191	2,141	1,600	3,062	12.6	14.2	14.1	17.2	16.44
100	26	21	57	65	1,674	1,780	3,250	3,047	15.6	11.5	17.5	21.3	12.66
Percent Lit when Open													
Not Lit	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50	4	Q	2	1	1,184	Q	409	Q	3.7	Q	5.4	Q	19.94
51 to 99	17	9	23	28	1,597	1,162	1,788	1,642	10.6	7.7	12.7	17.1	14.18
100	55	45	60	92	4,743	3,592	3,549	4,567	11.6	12.4	16.8	20.2	10.16
Percent Lit when Closed													
Not Lit	31	10	32	24	3,059	982	2,490	1,406	10.1	9.8	13.0	17.3	17.22
1 to 50	42	43	49	94	4,327	3,713	3,116	4,955	9.8	11.5	15.8	18.9	10.49
51 to 99	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
100	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table 3.19. Electricity Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992 (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
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
RSE Column Factor:	0.9	1.4	1.2	1.3	0.8	1.6	0.9	1.1	0.7	1.2	0.8	0.7	
Lighting Equipment (more than one may apply)													
Incandescent	33	32	48	80	3,481	3,035	3,230	4,716	9.6	10.6	14.8	16.9	11.68
Standard Fluorescent	71	53	84	121	7,244	4,809	5,663	6,504	9.8	11.1	14.8	18.5	8.93
Compact Fluorescent	3	13	11	42	336	1,096	506	2,213	9.4	11.6	21.5	19.2	19.80
High-Intensity Discharge	11	28	7	36	916	2,158	446	1,913	12.4	13.1	16.2	18.9	17.82
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Commercial Refrigeration Equipment (more than one may apply)													
Any Equipment	28	41	6	66	1,400	3,321	360	3,278	19.8	12.4	16.7	20.2	14.64
Walk-in Units	18	36	Q	48	776	2,934	Q	2,363	23.1	12.4	Q	20.4	14.94
Cases and Cabinets	24	40	3	54	1,038	3,247	246	2,737	22.6	12.2	11.6	19.8	14.98
None	48	13	79	55	6,149	1,517	5,386	3,295	7.9	8.5	14.6	16.8	12.37
Personal Computers and/or Computer Terminals													
1 to 4	31	Q	10	Q	3,121	Q	1,254	Q	10.0	Q	7.7	Q	13.17
5 to 9	12	11	11	Q	854	959	954	Q	14.3	11.3	11.5	Q	17.00
10 to 19	4	11	20	Q	373	1,095	1,106	Q	11.0	9.7	18.0	Q	22.00
20 to 49	Q	11	19	9	Q	830	1,079	605	Q	13.1	17.5	15.2	18.00
50 or More	Q	19	22	110	Q	1,457	829	5,357	Q	13.3	26.5	20.5	14.79
Annual Consumption (kilowatthours)													
10,000 or Less	1	Q	1	Q	876	Q	349	Q	1.6	Q	1.7	Q	14.65
10,001 to 50,000	15	Q	8	Q	2,920	Q	1,499	Q	5.1	Q	5.6	Q	9.52
50,001 to 100,000	13	Q	8	Q	1,430	Q	672	Q	9.0	Q	11.3	Q	12.28
100,001 to 500,000	33	2	30	Q	1,947	877	2,214	Q	16.8	2.4	13.6	Q	12.88
500,001 to 1,000,000	8	Q	14	5	253	Q	621	483	33.3	Q	22.7	10.1	21.69
1,000,001 to 5,000,000	Q	24	23	46	Q	1,830	386	2,578	Q	13.2	60.5	17.7	12.50
Over 5,000,000	Q	22	Q	69	Q	1,127	Q	2,677	Q	19.3	Q	25.9	14.89
Peak Electricity Demand (kilowatts)													
10 or Less	2	Q	1	Q	470	Q	202	Q	3.7	Q	3.3	Q	22.46
11 to 25	7	Q	4	Q	1,114	Q	651	Q	6.3	Q	6.3	Q	15.88
26 to 50	11	Q	6	Q	973	Q	480	Q	11.7	Q	13.0	Q	17.14
51 to 100	15	Q	11	Q	969	Q	918	Q	15.6	Q	12.5	Q	16.78
101 to 250	13	Q	23	Q	515	Q	1,120	Q	25.0	Q	20.2	Q	19.09
251 to 1,000	Q	20	17	37	Q	1,394	330	2,085	Q	14.4	52.5	18.0	17.53
Over 1,000	Q	13	Q	68	Q	856	Q	2,770	Q	15.0	Q	24.5	21.07
Season of Peak Electricity Demand													
Summer	31	27	47	79	2,212	2,393	2,566	4,237	14.1	11.3	18.3	18.7	14.91
Winter	19	Q	21	23	1,608	Q	1,085	1,217	11.9	Q	19.1	19.2	16.13
Summer and Winter	4	Q	2	Q	365	Q	183	Q	10.7	Q	9.4	Q	30.39

See footnotes at end of table.

Table 3.19. Electricity Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992 (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
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
RSE Column Factor:	0.9	1.4	1.2	1.3	0.8	1.6	0.9	1.1	0.7	1.2	0.8	0.7	
Building Generates Electricity													
Yes	Q	14	10	61	Q	1,207	301	2,722	Q	11.9	31.7	22.5	19.88
No	74	40	75	60	7,407	3,632	5,445	3,851	10.0	10.9	13.8	15.6	10.10

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. • Small buildings are 50,000 square feet or less. Large buildings are greater than 50,000 square feet. • 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. • A/C = 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 1992 Commercial Buildings Energy Consumption Survey.

Table 3.20. Electricity Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992

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
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
RSE Column Factor:	1.1	1.5	1.1	1.0	1.3	1.1	0.6	0.8	0.8	
All Buildings	69	40	73	8,470	1,763	2,248	8.1	22.9	32.6	7.92
Building Floorspace (square feet)										
1,001 to 5,000	3	1	34	292	108	771	11.8	13.2	43.9	16.09
5,001 to 10,000	3	Q	15	307	Q	426	9.1	Q	35.3	17.86
10,001 to 25,000	7	Q	12	997	Q	512	6.6	Q	23.6	17.05
25,001 to 50,000	10	Q	9	1,551	Q	407	6.5	Q	21.5	21.10
50,001 to 100,000	17	Q	Q	2,045	Q	Q	8.4	Q	Q	13.62
100,001 to 200,000	15	8	Q	1,641	401	Q	9.0	20.2	Q	17.75
200,001 to 500,000	14	14	Q	1,621	504	Q	8.4	28.5	Q	18.72
Over 500,000	Q	10	Q	Q	381	Q	Q	25.1	Q	12.77
Year Constructed										
1899 or Before	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1900 to 1919	2	Q	Q	441	Q	Q	4.2	Q	Q	29.22
1920 to 1945	6	4	10	1,077	227	351	5.5	19.8	27.3	22.28
1946 to 1959	11	5	8	1,903	152	384	5.6	32.5	22.1	18.19
1960 to 1969	22	12	10	2,405	492	346	9.1	23.4	29.7	16.68
1970 to 1979	20	13	22	1,728	544	520	11.5	23.4	42.0	13.62
1980 to 1989	6	6	18	653	287	376	9.9	19.7	49.1	17.33
1990 to 1992	2	Q	Q	253	Q	Q	8.7	Q	Q	30.13
Census Region and Division										
Northeast	12	7	11	1,968	386	565	6.2	19.0	18.9	13.98
New England	4	Q	Q	604	Q	Q	6.4	Q	Q	18.77
Middle Atlantic	8	5	7	1,364	241	408	6.1	21.3	17.2	16.19
Midwest	19	11	18	2,386	487	614	7.8	22.0	29.6	15.28
East North Central	11	6	11	1,534	265	399	6.8	23.0	28.7	14.63
West North Central	8	5	7	852	222	215	9.6	20.9	31.3	28.81
South	22	17	25	2,620	597	652	8.2	27.7	37.8	13.47
South Atlantic	10	8	13	1,168	307	290	8.8	25.2	44.6	21.31
East South Central	5	Q	Q	548	Q	Q	8.7	Q	Q	19.79
West South Central	6	Q	9	904	Q	284	7.2	Q	30.0	20.35
West	16	6	20	1,496	292	416	10.9	19.7	47.6	17.96
Mountain	4	Q	Q	410	Q	Q	10.4	Q	Q	20.64
Pacific	12	5	10	1,086	261	250	11.1	19.4	41.6	23.36
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	6	Q	7	592	Q	166	9.5	Q	43.1	26.60
5,500-7,000 HDD	18	11	19	2,614	531	697	6.8	20.9	27.4	13.20
4,000-5,499 HDD	15	6	16	2,079	267	547	7.4	24.2	28.8	18.10
Fewer than 4,000 HDD	19	15	16	1,849	614	422	10.3	24.8	38.1	19.00
More than 2,000 CDD and --										
Fewer than 4,000 HDD	11	5	15	1,336	198	415	8.1	26.3	36.6	17.88
Energy Sources (more than one may apply)										
Electricity	69	40	73	8,470	1,763	2,248	8.1	22.9	32.6	7.92
Natural Gas	55	36	53	6,856	1,544	1,655	8.1	23.4	32.1	10.25
Fuel Oil	14	28	4	1,837	1,093	172	7.6	25.7	25.0	18.43
District Heat	6	9	Q	688	403	Q	8.1	23.4	Q	21.47
District Chilled Water	2	5	Q	253	227	Q	9.2	23.4	Q	23.11
Propane	4	Q	7	470	Q	230	7.7	Q	29.6	24.55
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table 3.20. Electricity Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992 (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
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
RSE Column Factor:	1.1	1.5	1.1	1.0	1.3	1.1	0.6	0.8	0.8	
Energy End Uses (more than one may apply)										
Heated Buildings	68	40	72	8,379	1,746	2,158	8.2	23.1	33.2	8.04
Buildings with A/C	64	40	72	7,389	1,747	2,174	8.6	23.0	33.1	8.02
Buildings with Water Heating	66	40	73	8,036	1,760	2,228	8.2	22.7	32.7	8.02
Buildings with Cooking	45	33	58	5,676	1,289	1,799	8.0	25.4	32.5	9.30
Buildings with Manufacturing	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Workers (main shift)										
Less than 5	3	Q	19	481	Q	648	6.0	Q	29.3	18.26
5 to 9	3	Q	16	448	Q	560	7.6	Q	27.7	19.80
10 to 19	5	Q	18	738	Q	485	7.4	Q	37.5	16.00
20 to 49	17	Q	13	2,533	162	390	6.8	19.7	32.2	20.21
50 to 99	21	Q	Q	2,213	Q	Q	9.5	Q	Q	13.85
100 or More	19	33	Q	2,057	1,334	Q	9.1	24.5	Q	12.64
Weekly Operating Hours										
39 or Fewer	6	Q	Q	1,221	Q	Q	5.0	Q	Q	18.72
40 to 48	19	2	1	2,761	151	81	6.7	10.3	12.9	21.69
49 to 60	9	2	3	1,447	151	102	6.1	13.5	25.6	20.92
61 to 84	17	Q	15	1,607	Q	483	10.4	Q	31.1	13.22
85 to 167	15	Q	38	1,333	Q	1,235	11.2	Q	30.7	15.94
Open Continuously	Q	34	16	Q	1,284	291	Q	26.4	54.9	12.95
Ownership and Occupancy										
Nongovernment Owned	10	28	72	1,508	1,242	2,091	6.5	22.2	34.3	11.10
Owner Occupied	9	27	59	1,402	1,139	1,660	6.5	23.3	35.3	12.15
Single Establishment	9	24	56	1,341	1,010	1,561	6.6	23.7	36.1	12.69
Multiple Establishment	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Nonowner Occupied	Q	Q	13	Q	Q	431	Q	Q	30.4	21.74
Single Establishment	Q	Q	10	Q	Q	340	Q	Q	29.8	25.53
Multiple Establishment	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned	59	13	2	6,961	521	157	8.5	24.6	10.6	16.59
Predominant Exterior Wall Material										
Masonry	61	36	59	7,714	1,587	1,763	7.9	22.9	33.7	8.34
Siding or Shingles	1	Q	9	120	Q	336	8.5	Q	27.8	20.33
Metal Panels	1	Q	Q	145	Q	Q	8.0	Q	Q	35.72
Concrete Panels	5	Q	Q	379	Q	Q	13.0	Q	Q	31.66
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Predominant Roof Material										
Built-Up	35	23	35	4,272	1,062	965	8.2	22.1	36.5	10.69
Shingles (Not Wood)	5	Q	15	746	123	597	6.5	21.9	26.0	21.52
Metal Surfacing	3	Q	7	403	Q	190	7.8	Q	38.7	25.58
Synthetic or Rubber	20	13	6	2,322	507	271	8.6	24.7	23.5	18.95
Other	6	Q	9	728	Q	225	8.1	Q	39.4	20.24
Space-Heating Energy Source										
Electricity	25	15	29	2,159	667	692	11.4	22.9	42.5	13.71
Electricity Main	12	3	26	998	198	589	11.6	16.5	44.2	20.38
Electricity Secondary	13	12	Q	1,161	469	Q	11.3	25.6	Q	18.56
Other Excluding Electricity	44	25	42	6,220	1,079	1,467	7.0	23.2	28.8	9.42
Building Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table 3.20. Electricity Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992 (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
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
RSE Column Factor:	1.1	1.5	1.1	1.0	1.3	1.1	0.6	0.8	0.8	
Main Space-Heating Energy Source										
Electricity	12	3	26	998	198	589	11.6	16.5	44.2	20.38
Natural Gas	46	25	39	5,642	1,017	1,248	8.1	24.5	31.6	11.28
Fuel Oil	5	Q	3	996	Q	147	5.5	Q	19.1	21.25
District Heat	5	9	Q	637	385	Q	8.2	23.3	Q	17.56
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Replacement Energy Source for Main Heating										
Electricity Only	1	Q	5	224	Q	197	3.5	Q	Q	29.42
Natural Gas Only	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Fuel Oil Only	11	18	Q	1,320	697	Q	8.5	26.4	Q	19.24
Propane Only	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other Single Energy Source	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source	53	18	56	6,492	859	1,597	8.2	20.7	34.9	9.79
Building Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Cooling Energy Source										
Electricity	59	38	71	6,912	1,605	2,090	8.5	23.5	33.8	8.36
Other Excluding Electricity	5	2	Q	478	142	Q	9.9	17.2	Q	25.13
A/C Not Performed	5	Q	1	1,080	Q	75	4.8	Q	19.9	25.53
Water-Heating Energy Source										
Electricity	18	3	27	2,002	227	773	8.8	11.9	35.6	18.60
Other Excluding Electricity	48	37	45	6,034	1,533	1,456	8.0	24.4	31.2	9.07
Water Heating Not Performed	3	Q	Q	434	Q	Q	6.6	Q	Q	24.54
Cooking Energy Source										
Electricity	20	16	32	2,579	631	855	7.9	25.8	37.2	12.68
Other Excluding Electricity	25	17	27	3,097	658	944	8.1	25.1	28.2	13.49
Cooking Not Performed	23	8	15	2,794	473	449	8.4	16.0	33.3	15.88
Percent of Floorspace Heated										
Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50	Q	Q	5	Q	Q	231	Q	Q	21.6	28.89
51 to 99	8	6	17	1,105	253	527	7.6	23.3	31.7	19.89
100	59	33	50	7,143	1,471	1,401	8.3	22.7	35.6	8.59
Percent of Floorspace Cooled										
Not Cooled	5	Q	1	1,080	Q	75	4.8	Q	19.9	25.53
1 to 50	17	Q	10	3,008	Q	474	5.5	Q	20.1	14.15
51 to 99	14	13	23	1,538	576	684	9.3	23.0	32.9	13.91
100	33	26	40	2,844	1,081	1,016	11.5	23.9	39.2	11.51
Percent Lit when Open										
Not Lit	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50	Q	Q	5	Q	Q	329	Q	Q	14.1	20.90
51 to 99	17	6	13	2,044	351	446	8.3	16.4	29.7	17.69
100	51	34	55	6,284	1,368	1,473	8.1	25.0	37.6	8.82
Percent Lit when Closed										
Not Lit	28	35	31	3,097	1,401	873	9.0	25.2	35.6	11.17
1 to 50	39	5	37	5,233	362	1,249	7.5	14.1	30.0	12.56
51 to 99	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
100	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table 3.20. Electricity Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992 (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
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
RSE Column Factor:	1.1	1.5	1.1	1.0	1.3	1.1	0.6	0.8	0.8	
Lighting Equipment (more than one may apply)										
Incandescent	42	35	50	5,368	1,446	1,615	7.8	24.3	31.2	9.73
Standard Fluorescent	68	40	71	8,379	1,754	2,187	8.2	22.9	32.5	7.96
Compact Fluorescent	7	15	Q	846	647	Q	8.6	23.8	Q	16.00
High-Intensity Discharge	28	13	8	3,186	551	197	8.9	23.4	42.9	16.25
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Commercial Refrigeration Equipment (more than one may apply)										
Any Equipment	46	33	73	5,636	1,333	2,199	8.2	24.8	33.0	8.75
Walk-in Units	36	31	67	4,169	1,191	1,979	8.7	26.1	34.0	9.52
Cases and Cabinets	36	28	70	4,414	1,179	2,078	8.3	24.1	33.5	9.17
None	23	7	Q	2,833	430	Q	8.0	17.1	Q	16.55
Personal Computers and/or Computer Terminals										
1 to 4	5	Q	22	687	93	549	7.8	30.6	39.6	19.12
5 to 9	4	1	10	496	107	213	7.4	12.1	45.5	25.37
10 to 19	7	3	Q	1,166	192	Q	5.9	17.8	Q	22.71
20 to 49	16	Q	Q	2,323	Q	Q	7.0	Q	Q	11.90
50 or More	33	29	Q	3,326	1,140	Q	9.9	25.1	Q	11.88
Annual Consumption (kilowatthours)										
10,000 or Less	(*)	Q	(*)	59	Q	15	2.8	2.9	3.0	28.66
10,001 to 50,000	3	Q	2	550	Q	244	5.1	Q	9.1	15.70
50,001 to 100,000	4	Q	8	887	Q	419	4.9	Q	18.3	17.26
100,001 to 500,000	17	2	40	2,918	230	1,158	5.9	10.1	34.9	12.78
500,001 to 1,000,000	13	Q	Q	1,551	Q	Q	8.7	Q	Q	15.01
1,000,001 to 5,000,000	22	12	Q	2,041	496	Q	10.8	23.9	Q	15.60
Over 5,000,000	Q	24	Q	Q	794	Q	Q	29.7	Q	8.96
Peak Electricity Demand (kilowatts)										
10 or Less	(*)	Q	Q	79	Q	Q	2.6	Q	Q	38.59
11 to 25	1	Q	3	175	Q	197	5.6	Q	16.1	21.67
26 to 50	2	Q	12	489	Q	466	4.6	Q	25.9	20.36
51 to 100	5	Q	18	1,020	Q	447	5.1	Q	40.5	17.93
101 to 250	12	Q	14	1,723	Q	387	7.2	Q	36.0	17.57
251 to 1,000	24	9	Q	2,519	374	Q	9.7	24.3	Q	15.42
Over 1,000	11	22	Q	632	743	Q	17.3	29.7	Q	17.03
Season of Peak Electricity Demand										
Summer	31	28	43	3,752	1,175	1,261	8.3	24.2	34.3	10.98
Winter	22	Q	16	2,579	Q	409	8.6	Q	38.5	14.11
Summer and Winter	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table 3.20. Electricity Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992 (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
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
RSE Column Factor:	**1.1**	**1.5**	**1.1**	**1.0**	**1.3**	**1.1**	**0.6**	**0.8**	**0.8**	
Building Generates Electricity										
Yes	12	29	Q	1,309	1,155	Q	9.0	25.3	Q	13.36
No	57	11	66	7,161	607	2,111	8.0	18.3	31.3	10.30

(*) = 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. • A/C = 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 1992 Commercial Buildings Energy Consumption Survey.

Table 3.35. Natural Gas Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992

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
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
RSE Column Factor:	1.0	1.5	1.3	1.2	0.7	1.2	0.7	0.9	0.9	0.9	1.1	0.9	
All Buildings	301	69	284	93	5,007	4,349	3,514	4,332	60.1	15.8	80.8	21.4	15.73
Building Floorspace (square feet)													
1,001 to 5,000	77	Q	70	Q	1,221	Q	653	Q	63.4	Q	107.0	Q	17.52
5,001 to 10,000	65	Q	40	Q	1,312	Q	784	Q	49.4	Q	51.4	Q	13.64
10,001 to 25,000	130	Q	Q	Q	1,478	Q	1,099	Q	88.3	Q	Q	Q	25.32
25,001 to 50,000	28	Q	Q	Q	997	Q	978	Q	28.5	Q	Q	Q	27.06
50,001 to 100,000	Q	21	Q	33	Q	1,040	Q	913	Q	20.5	Q	35.6	20.36
100,001 to 200,000	Q	19	Q	22	Q	1,267	Q	1,360	Q	14.9	Q	16.5	24.87
200,001 to 500,000	Q	Q	Q	26	Q	532	Q	1,072	Q	11.9	Q	24.2	31.42
Over 500,000	Q	22	Q	12	Q	1,510	Q	987	Q	14.8	Q	12.0	26.92
Year Constructed													
1899 or Before	4	Q	Q	Q	149	Q	Q	Q	24.4	Q	Q	Q	30.75
1900 to 1919	12	Q	11	Q	303	Q	211	Q	41.1	Q	50.6	Q	28.74
1920 to 1945	41	Q	35	Q	877	Q	533	Q	46.6	Q	66.0	Q	20.35
1946 to 1959	61	Q	Q	Q	1,110	Q	484	Q	54.7	Q	Q	Q	29.87
1960 to 1969	75	22	22	20	817	1,388	526	880	92.0	16.0	41.7	22.6	27.08
1970 to 1979	73	17	Q	15	943	994	623	736	77.8	17.5	Q	20.4	27.63
1980 to 1989	29	15	Q	17	714	1,123	725	1,161	40.7	13.6	Q	14.6	19.62
1990 to 1992	Q	Q	Q	9	Q	Q	Q	305	Q	Q	Q	30.3	43.31
Census Region and Division													
Northeast	37	Q	18	13	919	Q	545	741	40.6	Q	33.2	17.5	22.86
New England	Q	Q	Q	4	Q	Q	Q	195	Q	Q	Q	21.5	31.95
Middle Atlantic	32	Q	12	9	824	Q	418	545	38.2	Q	28.3	16.1	26.62
Midwest	106	22	61	40	1,749	1,104	1,062	1,018	60.7	20.1	57.6	39.8	18.95
East North Central	68	16	44	35	1,098	573	689	734	62.0	27.5	64.2	48.3	21.31
West North Central	38	Q	17	Q	650	Q	373	Q	58.5	Q	45.3	Q	29.71
South	96	15	Q	18	1,504	1,152	932	1,511	63.8	13.2	181.0	11.8	28.21
South Atlantic	11	Q	Q	7	269	Q	213	801	41.2	Q	Q	Q	38.89
East South Central	37	Q	24	Q	536	Q	306	Q	68.8	Q	77.5	Q	32.47
West South Central	Q	Q	Q	4	700	Q	413	346	Q	Q	Q	12.1	33.11
West	62	6	36	21	836	932	975	1,062	73.7	6.4	36.8	20.2	27.06
Mountain	15	Q	17	Q	409	Q	283	Q	37.2	Q	61.2	Q	34.14
Pacific	Q	Q	19	17	426	752	692	920	Q	5.3	26.9	18.5	26.23
Climate Zone: 45-Year Average													
Fewer than 2,000 CDD and --													
More than 7,000 HDD	32	Q	16	Q	512	Q	229	Q	63.3	Q	70.9	Q	31.50
5,500-7,000 HDD	91	22	62	45	1,732	1,291	1,206	1,134	52.4	17.0	51.3	39.7	17.95
4,000-5,499 HDD	61	Q	Q	21	1,111	1,248	599	1,586	55.3	19.0	Q	13.1	31.39
Fewer than 4,000 HDD	93	10	42	17	924	856	1,041	1,106	100.1	11.8	40.2	15.4	25.16
More than 2,000 CDD and --													
Fewer than 4,000 HDD	24	4	Q	4	729	587	440	366	32.7	7.4	Q	12.2	31.64
Energy Sources (more than one may apply)													
Electricity	301	69	284	93	5,002	4,349	3,514	4,332	60.1	15.8	80.8	21.4	15.85
Natural Gas	301	69	284	93	5,007	4,349	3,514	4,332	60.1	15.8	80.8	21.4	15.73
Fuel Oil	Q	Q	Q	40	Q	Q	Q	1,946	Q	Q	Q	20.6	22.66
District Heat	Q	Q	Q	Q	Q	Q	Q	546	Q	Q	Q	Q	35.23
District Chilled Water	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table 3.35. Natural Gas Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992 (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
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
RSE Column Factor:	1.0	1.5	1.3	1.2	0.7	1.2	0.7	0.9	0.9	0.9	1.1	0.9	
Energy End Uses (more than one may apply)													
Heated Buildings	294	68	284	93	4,983	4,096	3,514	4,323	59.0	16.5	80.8	21.5	15.85
Buildings with A/C	247	68	276	92	4,336	4,288	3,441	4,329	57.0	15.9	80.2	21.3	16.40
Buildings with Water Heating	282	68	281	93	4,380	4,313	3,470	4,313	64.3	15.7	81.1	21.5	16.13
Buildings with Cooking	Q	48	Q	50	341	2,975	Q	2,398	Q	16.0	Q	21.0	19.28
Buildings with Manufacturing	11	Q	Q	Q	220	Q	Q	Q	50.1	Q	Q	Q	32.59
Workers (main shift)													
Less than 5	73	Q	21	Q	1,755	Q	415	Q	41.5	Q	50.4	Q	15.39
5 to 9	42	Q	Q	Q	1,062	Q	634	Q	39.4	Q	Q	Q	16.81
10 to 19	73	Q	36	Q	1,018	Q	593	Q	71.5	Q	61.1	Q	25.39
20 to 49	66	Q	Q	Q	923	Q	1,101	Q	71.4	Q	Q	Q	23.88
50 to 99	Q	15	17	Q	219	883	485	Q	210.8	17.4	34.1	Q	27.85
100 or More	Q	42	14	81	Q	2,584	286	3,649	Q	16.1	47.6	22.2	19.62
Weekly Operating Hours													
39 or Fewer	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
40 to 48	43	Q	123	24	956	Q	2,034	1,111	44.8	Q	60.3	21.8	18.91
49 to 60	120	Q	38	26	2,111	Q	772	1,535	56.8	Q	49.3	17.1	22.37
61 to 84	70	33	Q	18	1,238	2,456	357	1,026	56.6	13.4	Q	17.8	21.39
85 to 167	53	25	Q	Q	503	1,227	Q	Q	104.6	20.1	Q	Q	26.78
Open Continuously	Q	Q	Q	Q	Q	Q	Q	272	Q	Q	Q	Q	45.06
Ownership and Occupancy													
Nongovernment Owned	284	55	268	75	4,773	3,729	3,144	3,678	59.5	14.8	85.4	20.5	16.72
Owner Occupied	200	34	199	56	3,580	2,456	2,274	2,738	55.8	14.0	87.5	20.4	18.77
Single Establishment	171	20	174	22	3,015	1,124	1,603	894	56.6	18.0	108.6	24.6	25.73
Multiple Establishment	29	14	25	34	565	1,332	671	1,845	51.5	10.6	37.1	18.5	24.98
Nonowner Occupied	84	21	Q	19	1,193	1,273	870	940	70.8	16.2	Q	20.7	25.06
Single Establishment	34	Q	Q	4	475	Q	278	268	72.0	Q	Q	16.5	34.15
Multiple Establishment	Q	20	15	15	718	1,199	592	672	Q	16.8	25.2	22.3	24.09
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned	17	Q	15	17	235	Q	370	654	72.0	Q	41.7	26.6	24.58
Predominant Exterior Wall Material													
Masonry	218	53	173	62	3,581	3,627	2,749	2,372	60.8	14.7	62.8	26.1	18.02
Siding or Shingles	21	Q	23	Q	398	Q	432	Q	52.1	Q	54.3	Q	28.71
Metal Panels	57	Q	Q	Q	878	Q	137	Q	64.5	Q	Q	Q	23.49
Concrete Panels	Q	Q	Q	11	Q	Q	Q	703	Q	Q	Q	15.6	27.41
Window Glass	Q	Q	Q	13	Q	Q	Q	610	Q	Q	Q	21.3	34.49
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Predominant Roof Material													
Built-Up	167	33	120	46	2,224	2,458	1,599	1,966	75.1	13.5	75.0	23.2	22.49
Shingles (Not Wood)	42	Q	72	Q	822	Q	946	Q	50.5	Q	76.3	Q	22.69
Metal Surfacing	55	Q	Q	Q	1,128	Q	189	Q	49.0	Q	Q	Q	20.40
Synthetic or Rubber	30	28	15	39	551	1,318	502	1,600	54.4	21.6	30.5	24.7	23.25
Other	7	Q	18	Q	283	Q	278	222	25.3	Q	64.8	6.8	33.49
Space-Heating Energy Source													
Natural Gas	274	61	278	86	4,721	3,554	3,236	3,292	58.0	17.2	86.1	26.2	16.91
Natural Gas Main	267	51	271	81	4,517	2,747	3,013	2,912	59.0	18.5	90.0	27.7	17.90
Natural Gas Secondary	7	10	Q	Q	204	807	223	381	34.0	12.8	32.5	Q	33.20
Other Excluding Natural Gas	20	Q	5	6	261	542	279	1,031	77.3	11.9	19.4	6.2	29.13
Building Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table 3.35. Natural Gas Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992 (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
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
RSE Column Factor:	1.0	1.5	1.3	1.2	0.7	1.2	0.7	0.9	0.9	0.9	1.1	0.9	
Primary Space-Heating Energy Source													
Electricity	18	15	7	Q	328	1,138	360	690	54.1	13.1	19.8	Q	25.18
Natural Gas	267	51	271	81	4,517	2,747	3,013	2,912	59.0	18.5	90.0	27.7	17.90
Fuel Oil	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
District Heat	Q	Q	Q	5	Q	Q	Q	440	Q	Q	Q	12.5	32.14
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Replacement Energy Source for Primary Heating													
Electricity Only	19	Q	Q	Q	507	Q	305	Q	37.4	Q	Q	Q	21.79
Natural Gas Only	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Fuel Oil Only	15	Q	Q	13	324	Q	Q	Q	45.9	Q	Q	Q	33.72
Propane Only	9	Q	8	Q	174	Q	271	Q	49.7	Q	29.3	Q	34.04
Any Other Single Energy Source	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source	234	59	171	72	3,715	3,539	2,625	3,415	63.1	16.7	65.1	21.1	17.10
Building Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Cooling Energy Source													
Natural Gas	Q	Q	Q	Q	Q	Q	204	Q	Q	Q	Q	Q	39.12
Other Excluding Natural Gas	235	68	226	83	4,108	4,231	3,237	4,248	57.2	16.1	69.7	19.5	16.51
A/C Not Performed	54	Q	Q	Q	671	Q	Q	Q	80.6	Q	Q	Q	26.74
Water-Heating Energy Source													
Natural Gas	213	47	168	67	2,914	2,689	2,339	2,485	73.0	17.3	71.9	27.1	20.27
Other Excluding Natural Gas	69	21	Q	25	1,466	1,624	1,131	1,828	47.2	13.0	99.9	13.8	20.61
Water Heating Not Performed	19	Q	Q	Q	627	Q	Q	Q	30.6	Q	Q	Q	17.12
Cooking Energy Source													
Natural Gas	Q	41	Q	37	256	2,540	Q	1,702	Q	16.3	Q	21.8	22.73
Other Excluding Natural Gas	Q	6	Q	13	Q	435	Q	696	Q	14.4	Q	19.1	29.80
Cooking Not Performed	256	21	272	42	4,666	1,374	3,325	1,934	54.9	15.5	81.7	21.9	20.23
Percent of Floorspace Heated													
Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50	23	Q	5	Q	823	Q	209	Q	27.5	Q	21.9	Q	26.97
51 to 99	65	7	Q	19	1,103	646	682	1,220	58.6	11.4	Q	15.7	30.32
100	207	41	207	72	3,056	2,578	2,623	2,684	67.6	16.1	79.0	26.7	17.27
Annual Consumption (hundred cubic feet)													
1,000 or Less	13	Q	9	Q	1,176	Q	749	Q	10.9	Q	12.3	Q	13.69
1,001 to 5,000	89	Q	42	1	2,356	Q	1,450	787	38.0	Q	29.1	1.6	14.78
5,001 to 10,000	48	Q	25	2	826	Q	531	327	58.4	Q	46.2	5.4	19.24
10,001 to 25,000	40	10	47	14	401	911	572	1,010	98.7	10.7	82.3	13.5	20.02
25,001 to 50,000	Q	22	Q	25	Q	1,029	Q	1,070	Q	21.0	Q	23.3	25.77
50,001 to 100,000	Q	12	Q	16	Q	375	Q	533	Q	31.1	Q	29.4	25.98
Over 100,000	Q	Q	Q	36	Q	Q	Q	448	Q	Q	Q	79.3	26.89

See footnotes at end of table.

Table 3.35. Natural Gas Consumption and Conditional Energy Intensity for Mercantile and Office Buildings, 1992 (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
	Mercantile		Office		Mercantile		Office		Mercantile		Office		
	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	Small	Large	
RSE Column Factor:	1.0	1.5	1.3	1.2	0.7	1.2	0.7	0.9	0.9	0.9	1.1	0.9	
Gas Transported for the Account of Others													
Used in Building	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Not Used in Building	264	60	226	76	4,957	3,947	3,441	4,063	53.3	15.3	65.6	18.6	15.53

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. • Small buildings are 50,000 square feet or less. Large buildings are greater than 50,000 square feet. • 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. • A/C = 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 1992 Commercial Buildings Energy Consumption Survey.

Table 3.36. Natural Gas Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992

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
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
RSE Column Factor:	1.1	1.5	1.0	1.0	1.3	1.0	0.7	0.9	0.8	
All Buildings	283	184	176	6,856	1,544	1,655	41.3	119.2	106.1	11.36
Building Floorspace (square feet)										
1,001 to 5,000	8	3	80	169	78	536	45.3	42.8	148.5	20.84
5,001 to 10,000	8	Q	49	204	Q	319	39.0	Q	152.3	20.77
10,001 to 25,000	37	Q	30	676	Q	406	55.2	Q	73.0	22.64
25,001 to 50,000	48	Q	Q	1,196	Q	260	39.9	Q	51.1	29.24
50,001 to 100,000	81	Q	Q	1,620	Q	Q	50.3	Q	Q	13.53
100,001 to 200,000	49	39	Q	1,445	379	Q	34.0	103.6	Q	24.08
200,001 to 500,000	52	74	Q	1,532	472	Q	33.6	156.5	Q	28.28
Over 500,000	Q	45	Q	Q	316	Q	Q	141.0	Q	19.96
Year Constructed										
1899 or Before	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1900 to 1919	14	Q	Q	424	Q	Q	32.7	Q	Q	43.76
1920 to 1945	43	Q	33	942	194	233	45.4	Q	140.0	25.68
1946 to 1959	74	13	22	1,748	141	304	42.5	92.9	72.3	21.68
1960 to 1969	66	55	27	1,724	429	266	38.1	129.2	101.0	24.58
1970 to 1979	66	66	40	1,426	500	292	46.6	131.5	137.7	20.77
1980 to 1989	17	23	34	461	234	314	35.8	97.2	109.8	21.01
1990 to 1992	Q	Q	Q	Q	Q	Q	26.3	Q	Q	52.46
Census Region and Division										
Northeast	64	30	32	1,457	286	369	43.9	106.4	87.0	23.45
New England	12	Q	Q	312	Q	Q	38.4	Q	Q	49.77
Middle Atlantic	52	23	26	1,145	177	259	45.4	127.2	101.1	23.35
Midwest	113	67	59	2,291	453	570	49.4	148.7	103.1	18.54
East North Central	79	53	37	1,479	232	382	53.7	227.0	97.8	18.25
West North Central	34	15	21	812	221	188	41.6	66.5	114.0	38.18
South	63	71	40	1,933	549	360	32.6	129.3	112.6	19.45
South Atlantic	23	Q	15	677	Q	103	34.6	159.0	142.3	28.39
East South Central	15	Q	Q	458	Q	Q	32.3	Q	Q	32.25
West South Central	25	Q	19	798	Q	198	31.0	Q	93.8	25.46
West	43	15	44	1,174	257	356	36.6	59.8	124.2	22.16
Mountain	25	Q	Q	374	Q	Q	65.8	Q	Q	37.34
Pacific	18	14	33	800	226	215	23.0	60.0	154.9	24.12
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	28	Q	12	491	Q	108	57.7	Q	112.9	37.67
5,500-7,000 HDD	122	77	59	2,192	452	603	55.7	169.6	98.2	15.56
4,000-5,499 HDD	56	22	35	1,711	247	384	32.7	90.8	90.8	25.64
Fewer than 4,000 HDD	49	59	52	1,536	578	365	32.0	101.3	143.0	22.79
More than 2,000 CDD and --										
Fewer than 4,000 HDD	28	17	17	926	151	195	29.9	113.0	87.6	23.12
Energy Sources (more than one may apply)										
Electricity	283	184	176	6,856	1,544	1,655	41.3	119.2	106.1	11.07
Natural Gas	283	184	176	6,856	1,544	1,655	41.3	119.2	106.1	11.36
Fuel Oil	44	144	Q	1,332	993	Q	33.1	144.8	Q	24.13
District Heat	Q	27	Q	Q	344	Q	Q	79.5	Q	24.36
District Chilled Water	3	15	Q	157	208	Q	20.7	73.1	Q	31.30
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table 3.36. Natural Gas Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992 (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
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
RSE Column Factor:	1.1	1.5	1.0	1.0	1.3	1.0	0.7	0.9	0.8	
Energy End Uses (more than one may apply)										
Heated Buildings	283	184	173	6,856	1,544	1,625	41.3	119.2	106.7	11.39
Buildings with A/C	252	184	172	6,096	1,539	1,614	41.4	119.5	106.8	11.43
Buildings with Water Heating	278	184	175	6,635	1,544	1,653	41.9	119.2	106.1	11.39
Buildings with Cooking	203	152	165	4,975	1,164	1,391	40.7	130.3	119.0	12.97
Buildings with Manufacturing	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Workers (main shift)										
Less than 5	6	Q	23	231	Q	367	24.6	Q	63.1	22.52
5 to 9	9	Q	53	255	Q	420	36.0	Q	125.6	26.04
10 to 19	24	Q	49	498	Q	406	48.2	Q	121.7	22.71
20 to 49	90	Q	41	2,179	120	331	41.5	82.3	122.7	24.00
50 to 99	92	Q	Q	1,886	Q	Q	48.9	Q	Q	12.75
100 or More	62	165	Q	1,808	1,217	Q	34.1	135.2	Q	20.93
Weekly Operating Hours										
39 or Fewer	44	Q	Q	960	Q	Q	45.6	Q	Q	24.67
40 to 48	83	Q	7	2,218	113	66	37.2	36.1	101.4	24.39
49 to 60	44	6	11	1,190	110	79	37.2	51.8	133.5	27.48
61 to 84	64	Q	46	1,276	Q	358	50.3	Q	128.8	16.88
85 to 167	47	Q	94	1,113	Q	902	42.6	Q	104.5	23.43
Open Continuously	Q	151	17	Q	1,151	234	Q	131.3	72.1	22.46
Ownership and Occupancy										
Nongovernment Owned	40	131	171	1,119	1,067	1,548	35.7	123.1	110.4	13.67
Owner Occupied	37	127	135	1,059	1,010	1,173	34.5	125.4	114.8	14.23
Single Establishment	32	112	127	998	893	1,088	32.3	125.0	116.8	14.85
Multiple Establishment	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Nonowner Occupied	Q	Q	36	Q	Q	375	Q	Q	96.7	24.31
Single Establishment	Q	Q	32	Q	Q	304	Q	Q	105.8	27.00
Multiple Establishment	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned	243	Q	Q	5,737	477	Q	42.4	110.5	43.7	18.58
Predominant Exterior Wall Material										
Masonry	243	171	142	6,275	1,412	1,383	38.8	121.1	102.9	11.64
Siding or Shingles	1	Q	25	57	Q	201	25.9	Q	121.9	31.09
Metal Panels	4	Q	Q	117	Q	Q	37.9	Q	Q	47.40
Concrete Panels	Q	Q	Q	324	Q	Q	92.3	Q	Q	33.01
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Predominant Roof Material										
Built-Up	134	113	66	3,587	940	680	37.4	120.3	97.5	14.56
Shingles (Not Wood)	17	Q	46	510	100	421	32.8	96.5	110.3	27.39
Metal Surfacing	17	Q	18	303	Q	134	57.0	Q	133.6	30.38
Synthetic or Rubber	98	56	17	1,936	447	259	50.7	125.0	66.2	22.00
Other	17	Q	28	520	Q	161	32.6	Q	172.4	27.53
Space-Heating Energy Source										
Natural Gas	267	166	139	5,957	1,223	1,300	44.8	135.5	107.3	12.42
Natural Gas Main	259	150	139	5,642	1,017	1,248	45.9	147.8	111.1	12.71
Natural Gas Secondary	8	Q	Q	315	Q	Q	25.2	Q	Q	38.64
Other Excluding Natural Gas	16	18	34	899	321	325	18.0	57.1	104.5	27.33
Building Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table 3.36. Natural Gas Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992 (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
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
RSE Column Factor:	1.1	1.5	1.0	1.0	1.3	1.0	0.7	0.9	0.8	
Primary Space-Heating Energy Source										
Electricity	11	Q	29	387	138	271	29.5	53.5	105.9	33.66
Natural Gas	259	150	139	5,642	1,017	1,248	45.9	147.8	111.1	12.71
Fuel Oil	Q	Q	Q	504	Q	Q	Q	Q	Q	28.46
District Heat	8	26	Q	269	327	Q	31.1	79.9	Q	26.56
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Wood	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Replacement Energy Source for Primary Heating										
Electricity Only	7	Q	19	Q	Q	177	34.5	Q	106.0	43.41
Natural Gas Only	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Fuel Oil Only	66	124	Q	1,311	676	Q	50.2	183.0	Q	23.85
Propane Only	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Any Other Single Energy Source	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source	203	55	131	5,068	718	1,182	40.0	76.4	110.9	13.16
Building Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Cooling Energy Source										
Natural Gas	Q	Q	Q	487	Q	Q	61.3	Q	Q	40.58
Other Excluding Natural Gas	222	161	163	5,609	1,433	1,560	39.6	112.6	104.5	11.75
A/C Not Performed	31	Q	3	759	Q	41	40.7	Q	79.7	39.20
Water-Heating Energy Source										
Natural Gas	249	159	150	5,514	1,150	1,280	45.1	138.5	117.3	11.90
Other Excluding Natural Gas	30	25	25	1,121	394	374	26.5	62.7	67.9	28.43
Water Heating Not Performed	5	Q	Q	221	Q	Q	21.6	Q	Q	33.02
Cooking Energy Source										
Natural Gas	171	139	157	4,179	1,000	1,269	40.8	139.5	123.9	13.89
Other Excluding Natural Gas	32	12	8	796	164	122	40.3	Q	67.1	30.32
Cooking Not Performed	80	32	10	1,880	380	264	42.8	85.2	38.3	22.19
Percent of Floorspace Heated										
Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50	Q	Q	18	Q	Q	208	Q	Q	84.8	33.56
51 to 99	28	21	41	979	192	364	28.7	110.0	111.6	28.66
100	254	161	115	5,847	1,330	1,053	43.4	121.1	109.4	12.48
Annual Consumption (hundred cubic feet)										
1,000 or Less	3	1	3	425	43	197	7.9	17.5	13.8	26.08
1,001 to 5,000	15	Q	24	1,175	Q	373	12.7	Q	63.6	16.59
5,001 to 10,000	12	Q	54	535	Q	459	22.7	Q	117.3	20.58
10,001 to 25,000	58	Q	63	1,630	Q	423	35.3	Q	149.6	17.06
25,001 to 50,000	62	Q	Q	1,095	Q	Q	56.3	Q	Q	16.97
50,001 to 100,000	57	Q	Q	1,148	Q	Q	50.1	Q	Q	23.26
Over 100,000	76	162	Q	847	967	Q	89.7	167.7	Q	17.07

See footnotes at end of table.

Table 3.36. Natural Gas Consumption and Conditional Energy Intensity for Education, Health Care, and Food Sales and Service Buildings, 1992 (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
	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	Education	Health Care	Food Sales and Service	
RSE Column Factor:	1.1	1.5	1.0	1.0	1.3	1.0	0.7	0.9	0.8	
Gas Transported for the Account of Others										
Used in Building	52	82	Q	1,205	386	Q	43.5	211.1	Q	20.40
Not Used in Building	231	103	169	5,651	1,158	1,604	40.8	88.5	105.4	12.90

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. • A/C = 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 1992 Commercial Buildings Energy Consumption Survey.