Table 3.9. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels, 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
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
RSE Column Factor:	1.0	1.2	1.3	0.7	0.7	1.2	0.8	1.0	1.2	
All Buildings	1,258	2,301	1,932	14,526	28,507	24,844	86.6	80.7	77.7	5.79
Principal Building Activity										
Education	44	355	238	599	4,594	3,277	73.8	77.2	72.6	11.33
Food Sales	69	69	Q	369	388	Q	185.8	177.4	Q	20.36
Food Service	234	72	Q	828	609	Q	282.2	118.0	Q	16.84
Health Care	16	48	339	171	306	1,285	92.4	158.4	263.4	19.71
Lodging	84	257	122	454	1,543	894	185.7	166.3	136.3	21.46
Mercantile and Service	342	361	189	4,191	4,641	3,570	81.5	77.8	53.0	12.03
Office	225	556	466	2,266	4,835	5,218	99.4	115.1	89.2	12.07
Parking Garage	Q	Q	Q	Q	Q	1,461	Q	Q	Q	23.59
Public Assembly	56	131	123	932	1,815	Q	60.4	72.1	Q	15.33
Public Order and Safety	21	38	Q	199	344	Q	105.6	109.8	Q	26.11
Religious Worship	42	62	Q	1,126	1,951	Q	37.2	31.7	Q	11.81
Warehouse and Storage	82	218	227	2,195	4,947	4,343	37.4	44.1	52.3	14.53
Other	16	87	Q	202	500	428	78.6	175.0	Q	30.62
Vacant	21	43	Q	932	1,907	1,557	22.4	22.4	43.6	22.99
Year Constructed										
1899 or Before	50	51	Q	648	923	Q	77.8	55.2	Q	18.79
1900 to 1919	74	82	Q	859	1,343	1,406	86.1	61.0	Q	18.08
1920 to 1945	193	230	243	2,256	3,701	2,756	85.6	62.2	88.1	13.85
1946 to 1959	217	407	177	2,607	4,804	3,010	83.1	84.7	58.7	13.13
1960 to 1969	190	458	478	2,152	5,374	5,086	88.1	85.1	93.9	11.95
1970 to 1979	279	525	457	3,040	5,894	5,079	91.8	89.1	89.9	10.52
1980 to 1989	235	479	419	2,590	5,564	6,133	90.9	86.0	68.3	14.01
1990 to 1992	20	69	84	373	905	1,225	52.8	76.8	68.7	18.20
Census Region and Division										
Northeast	205	449	435	2,411	5,392	5,597	85.0	83.3	77.8	9.68
New England	64	144	91	627	1,479	1,159	102.0	97.3	78.4	21.66
Middle Atlantic	141	305	345	1,784	3,913	4,438	79.1	78.0	77.6	13.11
Midwest	328	600	650	3,652	7,140	6,488	89.7	84.1	100.2	8.45
East North Central	215	408	386	2,303	4,629	3,781	93.6	88.0	102.2	10.41
West North Central	112	193	264	1,350	2,512	2,707	83.0	76.7	97.4	17.82
South	451	805	569	5,878	10,320	8,379	76.7	78.0	67.9	12.34
South Atlantic	149	349	278	2,151	4,533	3,902	69.1	76.9	71.1	15.47
East South Central	120	182	107	1,362	2,631	1,382	88.1	69.1	77.3	17.12
West South Central	182	275	184	2,365	3,156	3,095	77.1	87.0	Q	25.32
West	274	447	277	2,584	5,655	4,380	106.1	79.0	63.3	12.21
Mountain	110	169	69	849	1,872	925	129.6	90.2	74.2	22.26
Pacific	164	278	209	1,736	3,783	3,455	94.6	73.4	60.4	14.65
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	114	210	153	1,286	2,586	1,751	88.7	81.4	87.1	16.42
5,500-7,000 HDD	327	705	610	3,478	7,825	6,720	93.9	90.1	90.8	10.48
4,000-5,499 HDD	236	493	545	3,124	5,923	7,115	75.7	83.3	76.6	13.95
Fewer than 4,000 HDD	293	512	373	3,253	6,456	5,542	90.0	79.2	67.4	15.20
More than 2,000 CDD and --										
Fewer than 4,000 HDD	288	381	251	3,384	5,716	3,717	85.0	66.6	67.5	20.76
Energy Sources (more than one may apply)										
Electricity	1,257	2,301	1,932	14,039	27,879	24,607	89.5	82.5	78.5	5.61
Natural Gas	952	1,814	1,498	8,014	19,091	17,889	118.8	95.0	83.7	6.80
Fuel Oil	147	421	873	1,755	3,884	7,576	83.8	108.3	115.2	11.14
District Heat	Q	307	510	Q	1,633	3,484	Q	188.2	146.5	16.25
District Chilled Water	Q	91	191	Q	536	1,351	Q	168.9	141.5	22.42
Propane	48	82	90	1,039	1,369	985	46.6	59.6	91.6	19.14
Any Other	20	30	Q	560	514	Q	36.0	57.5	Q	21.99

See footnotes at end of table.

Table 3.9. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels, 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
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
RSE Column Factor:	1.0	1.2	1.3	0.7	0.7	1.2	0.8	1.0	1.2	
Energy End Uses (more than one may apply)										
Heated Buildings	1,220	2,269	1,876	12,743	26,178	23,076	95.8	86.7	81.3	5.89
Buildings with A/C	1,080	2,118	1,835	10,595	23,983	22,463	101.9	88.3	81.7	6.01
Buildings with Water Heating	1,139	2,234	1,886	10,762	24,849	22,868	105.8	89.9	82.5	5.98
Buildings with Cooking	348	768	1,266	1,901	7,589	13,575	183.0	101.2	93.3	8.59
Buildings with Manufacturing	30	202	124	342	1,495	1,336	86.6	134.8	93.1	24.43
Workers (main shift)										
Less than 5	521	191	87	8,424	6,070	3,451	61.8	31.5	Q	12.22
5 to 9	343	254	Q	3,166	3,744	Q	108.3	67.8	Q	15.29
10 to 19	233	341	Q	1,984	4,504	Q	117.7	75.6	Q	10.96
20 to 49	151	771	93	877	7,556	2,124	172.7	102.1	43.8	13.39
50 to 99	Q	425	253	76	4,047	3,641	Q	104.9	69.6	14.97
100 or More	Q	319	1,412	Q	2,585	13,425	Q	123.4	105.2	8.96
Weekly Operating Hours										
39 or Fewer	103	135	Q	3,138	3,909	1,200	33.0	34.4	Q	12.25
40 to 48	319	455	236	4,090	7,245	3,663	78.1	62.9	64.4	10.76
49 to 60	201	455	278	3,040	6,524	4,482	66.1	69.8	62.1	10.57
61 to 84	232	400	330	2,024	4,621	5,417	114.6	86.6	60.9	11.40
85 to 167	245	336	258	1,265	3,306	3,897	193.7	101.7	66.1	12.51
Open Continuously	157	519	790	970	2,902	6,185	162.0	178.9	127.7	15.10
Ownership and Occupancy										
Nongovernment Owned	1,116	1,770	1,258	12,989	22,577	17,186	85.9	78.4	73.2	6.50
Owner Occupied	939	1,379	995	9,980	16,423	11,999	94.0	84.0	82.9	6.60
Single Establishment	855	1,212	684	8,794	13,878	7,319	97.2	87.3	93.5	7.69
Multiple Establishment	84	167	311	1,186	2,545	4,680	70.9	65.8	66.4	13.53
Nonowner Occupied	166	373	256	2,423	5,178	4,672	68.7	72.0	54.7	14.42
Single Establishment	113	179	115	1,516	1,839	2,210	74.8	97.3	Q	20.90
Multiple Establishment	53	194	140	907	3,339	2,463	58.5	58.0	57.0	14.01
Vacant	Q	18	Q	586	977	Q	Q	18.4	Q	27.89
Government Owned	142	531	674	1,537	5,929	7,658	92.5	89.6	88.0	9.79
Predominant Exterior Wall Material										
Masonry	904	1,789	1,323	9,402	21,964	17,220	96.2	81.4	76.8	6.51
Siding or Shingles	159	90	Q	2,266	1,361	Q	70.1	66.5	Q	12.73
Metal Panels	160	210	135	2,412	2,891	2,089	66.2	72.7	64.5	21.69
Concrete Panels	15	120	272	145	1,637	3,179	104.3	73.4	85.7	20.27
Window Glass	12	57	126	120	520	1,388	96.3	110.1	90.8	25.56
Other	Q	Q	63	180	Q	722	Q	Q	86.7	26.81
Predominant Roof Material										
Built-Up	462	1,091	1,040	4,922	12,638	12,698	93.9	86.3	81.9	8.42
Shingles (Not Wood)	377	279	Q	4,254	4,723	1,593	88.7	59.2	48.4	12.50
Metal Surfacing	196	278	76	3,345	4,071	1,602	58.5	68.2	47.7	18.96
Synthetic or Rubber	104	471	591	983	4,722	5,997	106.0	99.7	98.5	10.86
Other	118	182	147	1,022	2,352	2,954	115.8	77.5	49.8	16.06
Floors										
One	767	759	225	9,165	11,033	5,226	83.7	68.8	43.1	11.80
Two	320	671	311	3,629	8,767	5,628	88.0	76.5	55.3	8.87
Three	128	446	313	1,310	5,152	3,416	98.0	86.6	91.5	11.62
Four to Nine	43	407	662	421	3,420	6,536	101.6	119.0	101.3	16.65
Ten or More	Q	Q	421	Q	Q	4,038	Q	Q	104.2	11.22
Percent Window Glass										
25 or Less	1,050	1,633	1,221	12,872	21,648	16,837	81.6	75.4	72.5	6.97
26 to 50	172	488	454	1,394	5,109	5,312	123.5	95.5	85.5	10.42
51 to 75	33	133	146	207	1,261	1,738	159.5	105.1	84.2	17.00
76 to 100	Q	47	111	Q	488	958	Q	97.3	115.5	22.05

See footnotes at end of table.

Table 3.9. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels, 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
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
RSE Column Factor:	1.0	1.2	1.3	0.7	0.7	1.2	0.8	1.0	1.2	
Building Shape										
Square	87	92	101	916	1,252	1,485	95.1	73.9	67.7	16.28
Rectangle	966	1,374	747	11,316	16,888	11,029	85.3	81.4	67.7	7.21
Right Angle	83	209	107	1,019	3,236	1,816	80.9	64.7	59.1	12.91
Other	123	625	976	1,275	7,131	10,513	96.1	87.6	92.9	12.53
Energy-Related Space Functions (more than one may apply)										
Commercial Food Preparation	347	768	1,224	1,905	7,586	12,676	182.4	101.2	96.6	8.00
Computer Room	33	543	963	349	4,418	9,433	95.1	122.9	102.1	13.11
Rooms with Special Ventilation	80	299	655	635	2,688	4,718	125.3	111.4	138.9	12.26
Activities with Large Amounts of Hot Water	79	431	454	418	2,613	3,831	189.1	164.7	118.5	14.55
Space-Heating Energy Sources (more than one may apply)										
Electricity	421	752	762	4,589	10,072	10,975	91.8	74.7	69.4	9.97
Natural Gas	793	1,525	1,136	7,288	16,786	14,393	108.8	90.8	78.9	7.11
Fuel Oil	135	256	402	1,620	2,764	2,939	83.1	92.7	136.8	13.69
District Heat	Q	279	498	116	1,576	3,438	142.2	177.2	144.8	19.00
Propane	26	30	Q	766	723	Q	34.5	42.1	Q	21.81
Wood	9	Q	Q	355	Q	Q	25.7	Q	Q	22.47
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Cooling Energy Sources (more than one may apply)										
Electricity	1,041	2,012	1,669	10,305	23,145	21,177	101.0	86.9	78.8	6.18
Natural Gas	37	141	111	340	789	777	108.3	178.2	143.1	26.57
District Chilled Water	Q	91	191	Q	536	1,351	Q	168.9	141.5	22.42
Water-Heating Energy Sources (more than one may apply)										
Electricity	440	780	579	5,353	10,522	9,607	82.2	74.2	60.3	9.42
Natural Gas	665	1,344	998	4,838	13,500	11,613	137.5	99.5	85.9	7.60
Fuel Oil	37	112	103	476	986	1,007	78.1	113.3	102.3	21.97
District Heat	Q	166	374	Q	831	2,439	Q	199.6	153.2	18.07
Propane	15	Q	Q	254	287	Q	58.9	Q	Q	32.85
Cooking Energy Sources (more than one may apply)										
Electricity	155	358	687	982	3,468	7,733	157.5	103.3	88.8	11.59
Natural Gas	248	550	898	1,016	5,031	9,157	244.3	109.4	98.1	9.61
Propane	18	31	Q	201	500	Q	89.3	61.9	Q	27.19
Percent of Floorspace Heated										
Not Heated	38	32	Q	1,783	2,329	1,769	21.1	13.9	31.6	29.98
1 to 50	122	154	191	2,288	4,520	4,718	53.2	34.0	40.6	15.20
51 to 99	185	384	316	1,959	4,249	4,003	94.4	90.4	78.9	12.30
100	914	1,731	1,368	8,497	17,409	14,355	107.5	99.4	95.3	6.86
Percent of Floorspace Cooled										
Not Cooled	178	183	97	3,930	4,524	2,381	45.3	40.4	40.7	15.06
1 to 50	284	634	430	3,622	9,796	8,297	78.5	64.7	51.8	9.25
51 to 99	215	535	682	1,966	5,190	6,717	109.5	103.0	101.5	10.53
100	580	950	723	5,007	8,997	7,450	115.8	105.6	97.0	10.26

See footnotes at end of table.

Table 3.9. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels, 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
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
RSE Column Factor:	1.0	1.2	1.3	0.7	0.7	1.2	0.8	1.0	1.2	
Heating Equipment (more than one may apply)										
Heat Pumps	152	240	312	1,442	3,210	3,618	105.4	74.8	86.2	13.88
Furnaces	504	618	197	5,595	7,041	4,273	90.1	87.8	46.1	12.16
Individual Space Heaters	316	751	656	4,444	8,927	9,008	71.2	84.1	72.8	8.72
District Heat	Q	280	527	129	1,583	3,513	Q	177.2	150.0	16.16
Boilers	196	819	963	1,611	8,598	10,454	121.8	95.2	92.2	8.91
Packaged Heating Units	324	599	434	2,531	7,344	6,125	127.8	81.6	70.9	10.37
Other	16	116	Q	85	414	404	190.1	Q	Q	32.55
Heating Distribution Equipment (more than one may apply)										
Radiators or Baseboards	134	571	674	1,274	6,130	5,859	104.9	93.1	115.0	9.08
Ducts for Heating	935	1,697	1,441	9,140	18,834	17,448	102.3	90.1	82.6	6.44
VAV System Used	75	343	860	442	3,110	7,975	169.1	110.4	107.8	14.58
Individual Space Heaters	316	751	656	4,444	8,927	9,008	71.2	84.1	72.8	8.72
Fan Coil Units or Other	84	407	543	648	3,295	4,513	129.7	123.4	120.2	13.14
Cooling Equipment (more than one may apply)										
Residential-Type Central A/C	228	451	218	2,581	4,054	2,385	88.4	111.3	91.5	14.99
Heat Pumps	153	277	323	1,450	3,365	3,591	105.8	82.2	89.8	14.82
Individual A/C	244	593	617	2,986	7,364	7,629	81.6	80.5	80.8	9.54
District Chilled Water	Q	91	208	Q	536	1,503	Q	168.9	138.6	23.12
Central Chillers	34	412	1,036	203	3,095	9,692	167.3	133.1	106.9	16.27
Packaged A/C Units	512	1,100	901	4,300	12,604	10,925	119.1	87.3	82.5	7.64
Swamp Coolers	74	94	60	566	789	730	129.9	119.7	81.8	27.74
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Cooling Distribution Equipment (more than one may apply)										
Ducts for Cooling	884	1,832	1,621	8,267	20,248	19,240	106.9	90.5	84.3	6.44
VAV System Used	72	380	939	449	3,416	8,565	161.1	111.2	109.6	13.59
Individual A/C	244	593	617	2,986	7,364	7,629	81.6	80.5	80.8	9.54
Fan Coil Units or Other	41	281	495	408	1,956	4,247	100.8	143.7	116.6	19.36
Water-Heating Equipment (more than one may apply)										
Centralized System	673	1,344	1,168	6,255	13,447	11,897	107.6	100.0	98.2	9.02
Distributed System	482	965	858	4,651	12,194	12,656	103.7	79.2	67.8	8.95
Energy Conservation Features (more than one may apply)										
Any Conservation Features	1,221	2,276	1,913	13,141	27,259	24,003	92.9	83.5	79.7	5.83
Building Shell	1,189	2,210	1,885	12,780	26,357	22,919	93.0	83.8	82.3	5.88
HVAC	819	2,063	1,816	7,591	21,558	21,132	107.8	95.7	86.0	6.15
Lighting	397	1,068	1,334	3,368	11,256	14,830	118.0	94.9	90.0	8.29
Other	68	218	266	758	2,634	2,559	90.3	82.8	103.8	13.23

See footnotes at end of table.

Table 3.9. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels, 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
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
RSE Column Factor:	1.0	1.2	1.3	0.7	0.7	1.2	0.8	1.0	1.2	
Energy Management Practices (more than one may apply)										
Energy Management and Control System	62	497	1,013	445	4,105	9,770	138.2	121.0	103.7	13.97
Demand-Side Management[1] Participation	105	460	762	806	3,761	6,743	130.2	122.4	112.9	12.50
Energy Audit	173	540	766	1,408	5,631	7,740	123.1	95.9	98.9	9.53
Building Energy Manager	14	80	202	135	706	1,470	106.3	113.8	137.4	23.15

[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. • Site electricity is the amount of electricity delivered to commercial buildings. Primary electricity, which is not included in the "Total of Major Fuels" category, is site electricity plus the conversion losses in the electric generation process at the utility plant. • 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. • VAV = Variable Air Volume. • 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 3.18. Electricity Consumption and Conditional Energy Intensity by Building Size, 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
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
RSE Column Factor:	1.0	1.1	1.5	0.8	0.8	1.4	0.8	0.8	1.1	
All Buildings	172	290	303	14,039	27,879	24,607	12.2	10.4	12.3	5.38
Principal Building Activity										
Education	6	34	29	599	4,594	3,277	10.4	7.4	8.7	11.05
Food Sales	17	16	Q	369	388	Q	44.7	42.5	Q	18.44
Food Service	32	8	Q	828	609	Q	39.1	13.0	Q	16.40
Health Care	2	6	32	171	306	1,285	13.2	19.9	24.9	17.77
Lodging	13	29	14	454	1,543	894	27.6	18.6	15.8	21.74
Mercantile and Service	47	44	40	4,177	4,641	3,570	11.2	9.4	11.2	10.48
Office	26	83	97	2,266	4,835	5,218	11.6	17.2	18.5	9.57
Parking Garage	Q	Q	Q	Q	Q	1,461	Q	Q	6.9	26.97
Public Assembly	7	17	28	931	1,815	1,809	7.0	9.2	15.2	16.75
Public Order and Safety	2	4	Q	199	344	Q	8.6	10.4	Q	27.06
Religious Worship	4	5	Q	1,126	1,951	Q	3.4	2.5	Q	12.78
Warehouse and Storage	11	28	36	2,005	4,831	4,343	5.4	5.7	8.3	13.78
Other	3	12	8	196	500	428	14.2	24.9	17.8	29.78
Vacant	3	4	7	656	1,395	1,320	4.0	3.1	5.0	25.66
Year Constructed										
1899 or Before	4	5	Q	648	923	Q	6.6	5.7	Q	27.40
1900 to 1919	6	8	6	843	1,272	1,286	7.5	6.1	4.3	20.75
1920 to 1945	21	20	23	2,151	3,519	2,715	9.5	5.6	8.5	14.84
1946 to 1959	27	42	28	2,492	4,681	2,961	11.0	8.9	9.5	13.20
1960 to 1969	26	56	73	2,081	5,307	5,085	12.4	10.5	14.4	10.86
1970 to 1979	44	70	71	2,963	5,760	5,057	14.8	12.1	14.0	9.61
1980 to 1989	40	78	84	2,496	5,524	6,129	15.9	14.1	13.7	9.83
1990 to 1992	4	12	16	365	893	1,224	10.6	13.7	13.0	18.60
Census Region and Division										
Northeast	22	45	56	2,374	5,295	5,566	9.2	8.6	10.0	10.39
New England	7	13	10	627	1,479	1,159	10.8	8.9	8.6	20.18
Middle Atlantic	15	32	46	1,747	3,816	4,407	8.7	8.4	10.3	14.14
Midwest	34	61	87	3,521	6,975	6,407	9.8	8.8	13.5	8.48
East North Central	21	41	48	2,243	4,556	3,775	9.4	9.0	12.7	11.00
West North Central	13	20	39	1,278	2,419	2,631	10.4	8.3	14.7	17.78
South	72	113	108	5,625	10,045	8,303	12.9	11.3	13.0	10.11
South Atlantic	30	54	51	2,104	4,425	3,902	14.1	12.3	13.0	13.22
East South Central	18	28	22	1,299	2,570	1,368	14.0	11.1	16.2	21.12
West South Central	25	30	35	2,223	3,050	3,032	11.0	10.0	11.6	17.47
West	43	70	53	2,520	5,564	4,331	17.0	12.7	12.2	10.63
Mountain	17	25	13	817	1,820	925	20.6	13.6	13.6	19.69
Pacific	26	46	40	1,703	3,744	3,407	15.3	12.2	11.8	12.37
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	13	22	22	1,248	2,552	1,675	10.2	8.6	13.2	18.71
5,500-7,000 HDD	31	72	78	3,377	7,628	6,715	9.3	9.5	11.6	11.03
4,000-5,499 HDD	36	56	83	3,049	5,832	7,084	11.7	9.6	11.8	12.44
Fewer than 4,000 HDD	44	80	70	3,116	6,328	5,420	14.1	12.6	12.9	13.09
More than 2,000 CDD and --										
Fewer than 4,000 HDD	48	60	49	3,249	5,539	3,713	14.8	10.8	13.3	14.38
Energy Sources (more than one may apply)										
Electricity	172	290	303	14,039	27,879	24,607	12.2	10.4	12.3	5.38
Natural Gas	105	203	211	8,007	19,091	17,889	13.1	10.6	11.8	6.61
Fuel Oil	14	47	132	1,749	3,884	7,575	7.7	12.2	17.4	13.08
District Heat	Q	24	56	Q	1,633	3,484	Q	14.4	16.1	15.59
District Chilled Water	Q	9	24	Q	536	1,351	Q	17.4	17.8	20.63
Propane	12	14	13	1,033	1,369	985	11.2	10.0	13.5	19.96
Any Other	3	4	Q	550	514	Q	4.8	8.7	Q	22.09

See footnotes at end of table.

Table 3.18. Electricity Consumption and Conditional Energy Intensity by Building Size, 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
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
RSE Column Factor:	1.0	1.1	1.5	0.8	0.8	1.4	0.8	0.8	1.1	
Energy End Uses (more than one may apply)										
Heated Buildings	164	282	286	12,726	26,163	23,075	12.9	10.8	12.4	5.39
Buildings with A/C	155	276	286	10,595	23,983	22,463	14.6	11.5	12.7	5.55
Buildings with Water Heating	154	279	290	10,760	24,849	22,867	14.3	11.2	12.7	5.51
Buildings with Cooking	52	91	198	1,901	7,589	13,575	27.6	11.9	14.6	7.70
Buildings with Manufacturing	3	19	12	336	1,495	1,336	10.3	12.9	8.9	21.52
Workers (main shift)										
Less than 5	74	21	18	7,937	5,465	3,214	9.3	3.9	5.6	13.40
5 to 9	44	23	2	3,166	3,744	614	13.8	6.0	3.6	12.65
10 to 19	32	41	Q	1,984	4,481	1,589	16.2	9.1	8.3	13.15
20 to 49	21	91	12	877	7,556	2,124	23.6	12.1	5.4	12.64
50 to 99	Q	57	39	Q	4,047	3,641	Q	14.1	10.6	11.95
100 or More	Q	57	219	Q	2,585	13,425	Q	22.2	16.3	8.45
Weekly Operating Hours										
39 or Fewer	10	10	3	2,769	3,333	963	3.8	3.0	3.3	15.73
40 to 48	36	64	42	4,064	7,219	3,663	8.8	8.8	11.5	10.40
49 to 60	25	56	45	3,014	6,524	4,482	8.4	8.5	10.0	9.32
61 to 84	33	49	59	2,005	4,605	5,417	16.5	10.6	11.0	10.73
85 to 167	41	47	44	1,252	3,306	3,897	32.5	14.3	11.2	11.75
Open Continuously	27	65	109	935	2,891	6,185	28.4	22.5	17.7	11.50
Ownership and Occupancy										
Nongovernment Owned	154	235	213	12,547	22,083	16,949	12.2	10.6	12.6	5.99
Owner Occupied	128	182	157	9,834	16,324	11,999	13.1	11.1	13.1	6.54
Single Establishment	118	157	99	8,654	13,779	7,319	13.6	11.4	13.5	7.59
Multiple Establishment	11	24	59	1,180	2,545	4,680	9.1	9.6	12.5	13.77
Nonowner Occupied	24	52	54	2,355	5,129	4,672	10.2	10.2	11.6	11.55
Single Establishment	17	22	26	1,494	1,816	2,210	11.1	12.2	12.0	18.84
Multiple Establishment	7	30	28	861	3,313	2,463	8.6	9.0	11.3	12.01
Vacant	Q	1	Q	358	630	Q	Q	2.3	Q	32.96
Government Owned	18	55	89	1,492	5,796	7,658	12.0	9.5	11.6	9.46
Predominant Exterior Wall Material										
Masonry	124	222	190	9,165	21,648	17,000	13.5	10.3	11.2	5.92
Siding or Shingles	23	13	Q	2,175	1,226	Q	10.4	10.6	Q	14.14
Metal Panels	20	25	23	2,272	2,764	2,089	9.0	9.1	11.0	16.54
Concrete Panels	2	17	46	143	1,603	3,161	16.4	10.5	14.5	16.75
Window Glass	Q	11	28	Q	503	1,388	Q	22.7	20.2	22.54
Other	Q	Q	13	Q	Q	722	Q	Q	18.2	16.14
Predominant Roof Material										
Built-Up	70	142	167	4,756	12,449	12,552	14.7	11.4	13.3	7.58
Shingles (Not Wood)	45	34	Q	4,192	4,540	1,589	10.8	7.5	8.2	12.79
Metal Surfacing	28	31	11	3,113	3,929	1,591	9.1	8.0	6.9	15.37
Synthetic or Rubber	12	61	84	969	4,704	5,922	12.4	12.9	14.3	10.15
Other	16	22	28	1,009	2,257	2,954	16.2	9.7	9.3	15.19
Space-Heating Energy Source										
Electricity	77	130	146	4,589	10,072	10,975	16.8	12.9	13.3	8.04
Electricity Main	66	91	77	3,404	6,445	5,654	19.5	14.1	13.6	9.80
Electricity Secondary	11	38	69	1,186	3,627	5,321	9.2	10.6	12.9	12.09
Other Excluding Electricity	87	152	141	8,137	16,091	12,100	10.7	9.5	11.6	6.67
Building Not Heated	7	9	Q	1,313	1,716	1,532	5.5	5.0	10.7	24.39

See footnotes at end of table.

Table 3.18. Electricity Consumption and Conditional Energy Intensity by Building Size, 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
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
RSE Column Factor:	1.0	1.1	1.5	0.8	0.8	1.4	0.8	0.8	1.1	
Main Space-Heating Energy Source										
Electricity	66	91	77	3,404	6,445	5,654	19.5	14.1	13.6	9.80
Natural Gas	78	155	142	6,879	15,687	12,557	11.4	9.9	11.3	7.26
Fuel Oil	10	11	11	1,406	1,868	1,130	6.9	5.7	10.0	15.06
District Heat	1	21	54	116	1,477	3,157	9.0	14.3	17.0	18.72
Propane	6	2	Q	659	384	Q	9.1	6.4	Q	29.65
Wood	1	Q	Q	194	Q	Q	4.3	Q	Q	21.54
Any Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Replacement Energy Source for Main Heating										
Electricity Only	13	8	Q	1,196	1,021	Q	10.7	7.6	Q	16.20
Natural Gas Only	10	8	6	680	849	731	15.2	9.1	Q	20.95
Fuel Oil Only	5	15	56	433	1,570	3,448	11.2	9.8	16.2	18.15
Propane Only	6	11	Q	709	896	Q	8.3	12.0	Q	18.40
Any Other Single Energy Source	1	Q	Q	165	Q	Q	6.7	Q	Q	32.00
More than One Energy Source	3	4	Q	266	432	Q	10.2	9.1	Q	31.00
No Replacement Energy Source	127	235	214	9,278	21,258	17,619	13.6	11.1	12.1	6.06
Building Not Heated	7	9	Q	1,313	1,716	1,532	5.5	5.0	10.7	24.39
Cooling Energy Source										
Electricity	150	265	267	10,305	23,145	21,177	14.6	11.4	12.6	5.69
Other Excluding Electricity	5	11	19	290	837	1,286	15.7	13.4	15.0	23.05
A/C Not Performed	17	14	Q	3,444	3,896	2,144	5.0	3.7	7.6	15.00
Water-Heating Energy Source										
Electricity	76	123	122	5,353	10,522	9,607	14.3	11.7	12.7	8.10
Other Excluding Electricity	78	155	168	5,408	14,327	13,260	14.4	10.9	12.7	6.93
Water Heating Not Performed	18	11	Q	3,279	3,029	1,739	5.3	3.7	7.0	13.98
Cooking Energy Source										
Electricity	28	51	116	982	3,468	7,733	28.3	14.7	15.0	10.53
Other Excluding Electricity	25	39	82	919	4,121	5,842	26.8	9.6	14.0	10.25
Cooking Not Performed	119	200	105	12,138	20,290	11,032	9.8	9.8	9.5	6.94
Percent of Floorspace Heated										
Not Heated	7	9	Q	1,313	1,716	1,532	5.5	5.0	10.7	24.39
1 to 50	17	25	33	2,283	4,505	4,718	7.3	5.5	7.0	14.76
51 to 99	27	47	53	1,947	4,249	4,003	13.7	11.1	13.3	10.46
100	121	210	200	8,495	17,409	14,354	14.2	12.1	13.9	6.06
Percent of Floorspace Cooled										
Not Cooled	17	14	Q	3,444	3,896	2,144	5.0	3.7	7.6	15.00
1 to 50	32	60	48	3,622	9,796	8,297	8.9	6.1	5.8	8.27
51 to 99	32	73	114	1,966	5,190	6,717	16.4	14.0	17.0	8.94
100	90	143	124	5,007	8,997	7,450	18.0	15.9	16.7	7.83
Percent Lit when Open										
Not Lit	1	2	Q	702	854	Q	2.0	2.6	Q	29.52
1 to 50	18	17	Q	2,717	4,753	2,505	6.5	3.6	5.5	13.91
51 to 99	33	64	63	2,479	5,996	5,747	13.2	10.7	11.0	9.00
100	120	207	224	8,141	16,275	15,977	14.7	12.7	14.0	6.54
Percent Lit when Closed										
Not Lit	91	131	148	8,622	13,302	11,210	10.6	9.8	13.2	7.31
1 to 50	73	151	145	4,996	13,958	12,528	14.5	10.8	11.5	7.25
51 to 99	4	5	8	153	254	615	25.1	18.3	13.0	26.57
100	4	4	Q	269	365	Q	15.1	11.1	Q	30.20

See footnotes at end of table.

Table 3.18. Electricity Consumption and Conditional Energy Intensity by Building Size, 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
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
RSE Column Factor:	1.0	1.1	1.5	0.8	0.8	1.4	0.8	0.8	1.1	
Heating Equipment (more than one may apply)										
Heat Pumps	28	46	54	1,442	3,210	3,618	19.2	14.3	14.8	12.98
Furnaces	58	66	30	5,594	7,041	4,273	10.5	9.4	7.1	9.61
Individual Space Heaters	40	101	107	4,428	8,927	9,008	9.0	11.3	11.8	8.40
District Heat	2	23	57	129	1,583	3,513	15.6	14.7	16.1	20.63
Boilers	18	81	144	1,611	8,598	10,454	11.3	9.4	13.8	8.90
Packaged Heating Units	50	91	74	2,531	7,344	6,124	19.6	12.3	12.0	9.57
Other	3	14	8	85	414	404	34.5	33.3	18.6	26.39
Cooling Equipment (more than one may apply)										
Residential-Type Central A/C	27	41	26	2,581	4,054	2,385	10.5	10.2	11.1	11.58
Heat Pumps	28	47	53	1,450	3,365	3,591	19.0	14.0	14.7	12.78
Individual A/C	29	63	77	2,986	7,364	7,629	9.7	8.5	10.1	9.69
District Chilled Water	Q	9	24	Q	536	1,503	Q	17.4	16.0	22.24
Central Chillers	4	53	167	203	3,095	9,692	21.7	17.1	17.2	12.15
Packaged A/C Units	77	158	139	4,300	12,604	10,925	17.8	12.5	12.7	7.36
Swamp Coolers	9	11	12	566	789	730	16.5	13.5	16.1	22.88
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Lighting Equipment (more than one may apply)										
Incandescent	101	171	208	7,598	16,199	15,424	13.3	10.5	13.5	6.50
Standard Fluorescent	161	283	288	12,342	26,347	23,378	13.0	10.7	12.3	5.29
Compact Fluorescent	9	41	85	575	2,617	5,143	15.7	15.6	16.4	14.07
High-Intensity Discharge	12	62	143	776	5,659	11,134	14.9	11.0	12.8	10.77
Other	4	5	10	214	675	723	17.2	7.8	14.3	25.90
Commercial Refrigeration Equipment (more than one may apply)										
Any Equipment	74	115	206	2,566	8,612	14,228	28.8	13.4	14.5	6.97
Walk-in Units	58	81	182	1,560	5,154	11,966	37.5	15.7	15.2	7.88
Cases and Cabinets	66	92	178	2,047	6,688	12,252	32.3	13.8	14.5	7.54
None	98	175	97	11,473	19,267	10,379	8.5	9.1	9.3	7.33
Personal Computers and/or Computer Terminals										
1 to 4	59	53	11	4,223	7,030	2,101	14.0	7.6	5.4	12.35
5 to 9	16	40	12	1,152	3,184	1,633	13.5	12.5	7.6	12.98
10 to 19	8	46	18	487	3,676	2,073	16.9	12.6	8.9	15.58
20 to 49	4	51	30	149	4,162	3,129	25.8	12.3	9.7	14.56
50 or More	Q	62	201	Q	3,250	11,422	Q	19.0	17.6	8.73
Annual Consumption (kilowatthours)										
10,000 or Less	5	(*)	Q	3,279	1,168	Q	1.5	0.3	Q	8.13
10,001 to 50,000	38	6	Q	6,278	4,506	Q	6.1	1.3	Q	6.74
50,001 to 100,000	35	13	Q	2,411	3,837	Q	14.4	3.5	Q	6.75
100,001 to 500,000	77	93	5	1,934	11,513	2,594	39.7	8.0	1.9	7.01
500,001 to 1,000,000	Q	59	11	Q	3,573	2,707	Q	16.5	4.2	8.43
1,000,001 to 5,000,000	Q	113	105	Q	3,204	9,354	Q	35.3	11.2	8.06
Over 5,000,000	Q	Q	181	Q	Q	7,899	Q	Q	22.9	7.23

See footnotes at end of table.

Table 3.18. Electricity Consumption and Conditional Energy Intensity by Building Size, 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
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
RSE Column Factor:	1.0	1.1	1.5	0.8	0.8	1.4	0.8	0.8	1.1	
Peak Electricity Demand (kilowatts)										
10 or Less	5	1	Q	1,378	827	Q	3.4	0.8	Q	19.08
11 to 25	19	3	Q	2,213	1,710	Q	8.6	1.9	Q	11.04
26 to 50	34	11	Q	1,727	2,876	Q	19.5	3.9	Q	9.56
51 to 100	32	35	7	979	4,984	965	33.1	6.9	6.8	13.26
101 to 250	18	78	8	305	5,931	2,173	57.8	13.1	3.6	12.84
251 to 1,000	Q	110	78	Q	4,019	8,026	Q	27.4	9.7	10.38
Over 1,000	Q	16	163	Q	410	7,759	Q	38.0	21.1	16.88
Season of Peak Electricity Demand										
Summer	72	162	180	3,763	12,234	13,291	19.1	13.3	13.5	8.87
Winter	40	79	68	2,382	7,339	5,958	16.9	10.7	11.4	11.24
Summer and Winter	7	12	9	582	1,184	677	12.3	10.5	12.7	24.67
Building Generates Electricity										
Yes	4	54	128	293	2,434	7,646	14.5	22.2	16.7	13.93
No	167	236	175	13,746	25,445	16,961	12.2	9.3	10.3	6.00

(*) = 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 3.34. Natural Gas Consumption and Conditional Energy Intensity by Building Size, 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
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
RSE Column Factor:	1.0	1.3	1.5	0.7	0.8	1.1	0.7	1.0	1.1	
All Buildings	556	988	569	8,014	19,091	17,889	69.3	51.8	31.8	8.27
Principal Building Activity										
Education	16	166	101	373	3,491	2,991	41.9	47.7	33.8	14.72
Food Sales	11	Q	Q	219	Q	Q	51.2	Q	Q	42.21
Food Service	117	34	Q	637	453	Q	183.8	73.9	Q	17.54
Health Care	7	19	158	118	259	1,167	58.8	74.9	135.1	23.39
Lodging	37	113	37	284	1,245	704	130.4	91.0	52.4	22.25
Mercantile and Service	142	180	48	2,533	3,514	3,309	56.1	51.3	14.4	15.00
Office	110	206	60	1,437	2,991	3,419	76.7	69.0	17.6	20.46
Parking Garage	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Public Assembly	28	52	Q	572	1,327	637	49.1	39.1	26.3	20.47
Public Order and Safety	12	16	Q	120	239	Q	99.3	67.8	Q	28.48
Religious Worship	21	39	Q	605	1,625	Q	34.4	24.1	Q	13.80
Warehouse and Storage	36	87	68	715	2,497	3,121	50.0	34.8	21.7	16.91
Other	Q	Q	Q	Q	376	Q	Q	Q	Q	39.21
Vacant	11	24	25	302	727	Q	34.8	33.6	25.0	27.12
Year Constructed										
1899 or Before	29	22	Q	458	708	Q	63.6	30.7	Q	21.89
1900 to 1919	35	45	19	589	1,045	1,151	58.9	42.6	16.9	21.31
1920 to 1945	101	111	89	1,275	2,601	1,860	78.9	42.8	48.0	17.68
1946 to 1959	95	194	55	1,485	3,571	2,245	64.0	54.4	24.7	16.40
1960 to 1969	87	196	131	1,357	3,621	3,894	64.2	54.2	33.5	15.53
1970 to 1979	113	238	162	1,619	3,579	4,019	70.0	66.5	40.2	14.85
1980 to 1989	90	159	87	1,083	3,327	3,812	82.9	47.7	22.8	16.33
1990 to 1992	6	23	17	148	640	837	39.3	36.5	20.8	24.93
Census Region and Division										
Northeast	67	175	102	1,100	3,353	4,105	61.3	52.1	24.8	14.41
New England	15	44	14	184	698	879	79.7	62.6	16.0	28.24
Middle Atlantic	53	131	88	916	2,656	3,226	57.6	49.4	27.3	16.92
Midwest	192	297	237	2,634	5,705	5,436	73.0	52.0	43.6	10.05
East North Central	132	208	161	1,739	3,800	3,107	76.1	54.6	52.0	12.22
West North Central	60	89	76	895	1,905	2,329	66.9	46.9	32.5	19.13
South	177	340	160	2,634	5,779	4,948	67.4	58.9	32.3	19.49
South Atlantic	33	Q	80	490	1,703	2,550	67.2	70.6	31.4	29.75
East South Central	52	76	26	701	1,691	857	74.3	44.8	30.7	26.06
West South Central	92	144	Q	1,443	2,385	1,541	64.1	60.6	Q	32.22
West	118	176	71	1,645	4,254	3,400	72.0	41.4	20.8	14.77
Mountain	48	69	16	559	1,412	589	86.6	48.7	26.4	21.38
Pacific	70	107	55	1,086	2,842	2,811	64.5	37.7	19.6	18.53
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	52	81	50	722	1,549	1,416	72.7	52.5	35.2	19.17
5,500-7,000 HDD	175	338	212	2,341	6,179	5,198	74.9	54.7	40.8	11.28
4,000-5,499 HDD	80	222	132	1,378	3,722	5,397	58.0	59.6	24.5	16.50
Fewer than 4,000 HDD	133	214	109	1,923	4,841	4,245	68.9	44.2	25.8	19.18
More than 2,000 CDD and --										
Fewer than 4,000 HDD	115	133	66	1,651	2,800	1,634	69.9	47.5	40.4	31.24
Energy Sources (more than one may apply)										
Electricity	555	988	569	8,007	19,091	17,889	69.4	51.8	31.8	8.22
Natural Gas	556	988	569	8,014	19,091	17,889	69.3	51.8	31.8	8.27
Fuel Oil	13	122	263	281	1,950	6,196	46.1	62.7	42.5	20.82
District Heat	Q	43	69	Q	732	1,900	Q	58.5	36.4	26.52
District Chilled Water	Q	Q	26	Q	295	603	Q	54.1	43.5	21.68
Propane	Q	Q	25	Q	Q	567	Q	Q	43.6	24.68
Any Other	7	Q	Q	181	Q	Q	38.8	Q	Q	27.94

See footnotes at end of table.

Table 3.34. Natural Gas Consumption and Conditional Energy Intensity by Building Size, 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
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
RSE Column Factor:	1.0	1.3	1.5	0.7	0.8	1.1	0.7	1.0	1.1	
Energy End Uses (more than one may apply)										
Heated Buildings	543	985	569	7,906	18,974	17,646	68.7	51.9	32.3	8.30
Buildings with A/C	474	906	551	6,751	17,231	17,343	70.2	52.6	31.8	8.76
Buildings with Water Heating	519	972	567	7,012	18,307	17,728	74.0	53.1	32.0	8.39
Buildings with Cooking	156	370	389	1,336	6,143	10,980	117.0	60.2	35.4	10.34
Buildings with Manufacturing	15	86	Q	255	1,086	1,187	57.1	79.2	Q	28.54
Workers (main shift)										
Less than 5	216	83	Q	4,060	3,058	Q	53.2	27.2	Q	10.22
5 to 9	159	122	Q	1,902	2,343	Q	83.8	52.2	Q	22.49
10 to 19	109	151	10	1,383	3,225	865	78.6	46.8	11.6	19.06
20 to 49	67	354	40	632	5,852	1,874	106.1	60.4	21.1	16.33
50 to 99	Q	177	91	Q	2,849	3,089	Q	62.2	29.3	19.10
100 or More	Q	101	398	Q	1,765	10,873	Q	57.0	36.6	12.56
Weekly Operating Hours										
39 or Fewer	50	73	Q	1,299	2,036	Q	38.3	35.8	Q	14.44
40 to 48	159	162	56	2,358	4,713	2,459	67.5	34.3	22.9	13.23
49 to 60	91	212	92	1,824	4,473	3,256	49.8	47.3	28.4	16.31
61 to 84	96	190	99	1,223	3,393	4,516	78.4	56.0	22.0	15.98
85 to 167	101	128	74	769	2,374	3,366	130.9	54.1	21.9	16.19
Open Continuously	59	223	223	540	2,101	3,609	109.4	106.3	61.9	16.73
Ownership and Occupancy										
Nongovernment Owned	498	778	351	7,106	14,968	12,010	70.0	52.0	29.2	9.04
Owner Occupied	418	590	298	5,653	11,395	9,079	73.9	51.8	32.8	9.80
Single Establishment	382	524	228	4,978	9,576	5,066	76.7	54.7	45.1	10.67
Multiple Establishment	36	66	70	675	1,819	4,013	53.6	36.5	17.4	17.77
Nonowner Occupied	74	176	51	1,328	3,274	2,863	55.7	53.8	17.9	16.51
Single Establishment	51	Q	21	779	1,043	1,047	65.8	89.6	19.9	23.88
Multiple Establishment	23	83	30	549	2,231	1,816	41.4	37.0	16.8	20.47
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Government Owned	58	210	218	908	4,123	5,880	63.9	50.9	37.1	12.53
Predominant Exterior Wall Material										
Masonry	394	784	429	5,792	15,700	12,794	67.9	49.9	33.6	8.21
Siding or Shingles	65	32	Q	1,024	712	Q	63.8	45.0	Q	17.80
Metal Panels	82	Q	Q	989	1,308	1,152	82.8	Q	Q	24.79
Concrete Panels	Q	48	69	Q	1,051	2,437	Q	45.5	28.2	20.09
Window Glass	Q	13	11	Q	231	714	Q	56.8	16.0	24.50
Other	Q	Q	12	Q	Q	566	Q	Q	21.7	25.42
Predominant Roof Material										
Built-Up	186	475	308	3,031	8,943	9,315	61.2	53.1	33.1	10.45
Shingles (Not Wood)	189	119	12	2,413	3,061	1,037	78.5	38.8	11.4	15.32
Metal Surfacing	83	129	Q	1,339	2,026	921	62.2	63.6	Q	21.95
Synthetic or Rubber	48	199	186	658	3,628	5,040	72.4	54.7	36.9	13.63
Other	50	67	29	573	1,432	1,577	86.8	46.9	18.4	19.11
Space-Heating Energy Source										
Natural Gas	482	893	508	7,288	16,786	14,393	66.2	53.2	35.3	8.84
Natural Gas Main	469	855	446	6,885	15,687	12,557	68.1	54.5	35.5	9.13
Natural Gas Secondary	13	38	Q	403	1,099	1,836	32.7	34.6	Q	21.35
Other Excluding Natural Gas	61	92	61	618	2,188	3,253	98.9	42.0	18.8	15.32
Building Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table 3.34. Natural Gas Consumption and Conditional Energy Intensity by Building Size, 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
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
RSE Column Factor:	1.0	1.3	1.5	0.7	0.8	1.1	0.7	1.0	1.1	
Primary Space-Heating Energy Source										
Electricity	68	84	33	832	2,078	2,336	82.2	40.6	14.3	16.58
Natural Gas	469	855	446	6,885	15,687	12,557	68.1	54.5	35.5	9.13
Fuel Oil	Q	7	3	Q	488	666	Q	14.0	4.3	30.77
District Heat	Q	38	45	Q	642	1,581	Q	59.8	28.7	19.10
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	72	Q	Q	942	856	Q	76.5	Q	Q	28.27
Natural Gas Only	14	13	Q	171	387	Q	83.9	32.5	Q	27.84
Fuel Oil Only	21	85	240	271	1,362	3,326	76.8	62.7	72.0	19.12
Propane Only	25	43	Q	397	745	Q	62.1	57.3	Q	29.24
Any Other Single Energy Source	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source	8	Q	Q	186	Q	Q	41.8	Q	Q	36.55
No Replacement Energy Source	401	742	300	5,870	15,137	12,739	68.3	49.0	23.5	9.06
Building Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Cooling Energy Source										
Natural Gas	22	98	61	340	789	777	64.1	123.8	78.8	27.66
Other Excluding Natural Gas	452	808	490	6,410	16,442	16,565	70.6	49.1	29.6	8.83
A/C Not Performed	81	82	18	1,263	1,860	547	64.5	44.3	33.1	19.96
Water-Heating Energy Source										
Natural Gas	390	765	442	4,838	13,500	11,613	80.7	56.7	38.1	8.68
Other Excluding Natural Gas	129	207	125	2,174	4,807	6,115	59.3	43.1	20.4	18.29
Water Heating Not Performed	36	16	Q	1,002	783	Q	36.4	20.4	Q	16.09
Cooking Energy Source										
Natural Gas	139	313	341	1,016	5,031	9,157	136.5	62.2	37.3	10.97
Other Excluding Natural Gas	18	57	48	320	1,111	1,823	55.0	51.0	26.3	20.55
Cooking Not Performed	399	618	180	6,678	12,948	6,910	59.8	47.8	26.1	11.96
Percent of Floorspace Heated										
Not Heated	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
1 to 50	53	62	Q	1,185	2,628	3,373	44.3	23.4	Q	17.62
51 to 99	77	184	91	1,273	3,140	3,271	60.7	58.5	27.9	16.44
100	414	740	422	5,449	13,206	11,002	75.9	56.0	38.4	9.13
Heating Equipment (more than one may apply)										
Heat Pumps	53	64	90	404	1,451	2,802	130.0	44.4	32.1	22.06
Furnaces	255	362	86	4,139	6,139	4,051	61.5	59.0	21.3	16.96
Individual Space Heaters	149	321	219	2,633	6,495	7,093	56.4	49.4	30.8	12.68
District Heat	Q	41	89	Q	704	1,929	Q	58.2	46.3	22.59
Boilers	90	434	386	996	7,168	8,858	89.9	60.6	43.6	10.10
Packaged Heating Units	149	273	145	1,700	5,570	5,636	87.4	49.0	25.8	12.89
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	NF
Annual Consumption (hundred cubic feet)										
1,000 or Less	38	5	(*)	2,579	2,205	527	14.9	2.2	0.2	13.84
1,001 to 5,000	202	63	4	3,993	4,871	2,590	50.5	12.9	1.5	8.10
5,001 to 10,000	128	97	4	932	3,432	1,299	136.9	28.2	3.4	9.93
10,001 to 25,000	106	229	25	422	4,543	3,082	250.6	50.3	8.3	10.36
25,001 to 50,000	Q	200	50	Q	2,553	2,901	Q	78.4	17.2	10.93
50,001 to 100,000	Q	136	75	Q	973	2,329	Q	140.1	32.0	13.05
Over 100,000	Q	259	411	Q	513	5,161	Q	503.6	79.7	17.05

See footnotes at end of table.

Table 3.34. Natural Gas Consumption and Conditional Energy Intensity by Building Size, 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
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	
RSE Column Factor:	1.0	1.3	1.5	0.7	0.8	1.1	0.7	1.0	1.1	
Gas Transported for the Account of Others										
Used in Building	20	Q	207	130	630	2,521	157.5	Q	82.1	28.08
Not Used in Building	535	872	363	7,884	18,460	15,369	67.9	47.2	23.6	8.21

(*) = 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.