

Table 3.4. Consumption for Sum of Major Fuels, 1992

Building Characteristics	All Buildings			Sum of Major Fuel Consumption				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)	
	0.8	0.9	0.8	1.1	1.2	1.0	1.3	
RSE Column Factor:								
All Buildings	4,806	67,876	14.1	5,490	1,142	80.9	77.1	4.42
Building Floorspace (square feet)								
1,001 to 5,000	2,681	7,327	2.7	703	262	95.9	72.4	4.86
5,001 to 10,000	975	7,199	7.4	555	570	77.1	72.6	4.12
10,001 to 25,000	647	10,375	16.0	865	1,336	83.4	83.5	6.12
25,001 to 50,000	280	10,069	35.9	794	2,830	78.8	91.5	7.57
50,001 to 100,000	116	8,062	69.8	642	5,558	79.7	82.0	5.81
100,001 to 200,000	71	9,678	137.0	640	9,065	66.2	77.3	7.23
200,001 to 500,000	26	7,889	302.8	711	27,275	90.1	94.2	8.31
Over 500,000	9	7,278	770.5	581	61,471	79.8	Q	18.08
Principal Building Activity								
Education	301	8,470	28.2	637	2,118	75.2	92.7	7.22
Food Sales	130	757	5.8	137	1,053	181.5	163.1	13.34
Food Service	260	1,491	5.7	307	1,183	206.1	136.9	9.35
Health Care	63	1,763	27.9	403	6,365	228.5	119.0	13.82
Lodging	154	2,891	18.8	463	3,007	160.1	228.8	14.19
Mercantile and Service	1,272	12,402	9.7	892	701	71.9	55.8	9.29
Office	749	12,319	16.4	1,247	1,665	101.2	45.9	8.11
Parking Garage	24	1,652	69.9	52	2,186	31.3	239.7	32.81
Public Assembly	278	4,556	16.4	310	1,115	68.0	112.6	16.25
Public Order and Safety	60	820	13.7	91	1,512	110.6	113.1	22.38
Religious Worship	366	3,747	10.2	109	297	29.0	47.4	10.82
Warehouse and Storage	761	11,484	15.1	527	692	45.9	118.4	10.80
Other	69	1,130	16.4	184	2,676	163.2	149.7	20.30
Vacant	319	4,396	13.8	131	412	29.9	134.0	16.57
Year Constructed								
1899 or Before	169	1,721	10.2	118	699	68.6	77.2	12.17
1900 to 1919	255	3,608	14.1	213	836	59.1	71.0	12.74
1920 to 1945	724	8,712	12.0	666	920	76.5	101.0	10.39
1946 to 1959	880	10,421	11.8	800	910	76.8	87.8	9.45
1960 to 1969	783	12,612	16.1	1,125	1,436	89.2	62.9	8.99
1970 to 1979	982	14,014	14.3	1,261	1,284	90.0	87.6	7.05
1980 to 1989	884	14,287	16.2	1,133	1,282	79.3	70.9	8.98
1990 to 1992	128	2,502	19.6	173	1,355	69.3	63.5	12.65
Census Region and Division								
Northeast	771	13,400	17.4	1,090	1,414	81.3	58.7	9.45
New England	186	3,265	17.6	299	1,605	91.5	78.1	17.38
Middle Atlantic	585	10,135	17.3	791	1,353	78.0	53.6	13.54
Midwest	1,202	17,280	14.4	1,578	1,313	91.3	106.1	6.33
East North Central	749	10,712	14.3	1,009	1,347	94.2	106.5	7.44
West North Central	453	6,568	14.5	568	1,255	86.5	105.5	13.85
South	1,963	24,577	12.5	1,825	930	74.3	78.6	8.11
South Atlantic	755	10,586	14.0	775	1,026	73.2	70.9	12.21
East South Central	454	5,375	11.8	409	900	76.0	79.9	11.94
West South Central	754	8,616	11.4	641	851	74.4	89.4	17.88
West	870	12,619	14.5	998	1,147	79.1	68.5	9.66
Mountain	297	3,645	12.3	347	1,171	95.3	80.9	18.60
Pacific	574	8,974	15.6	651	1,134	72.5	63.3	10.95
Climate Zone: 45-Year Average								
Fewer than 2,000 CDD and --								
More than 7,000 HDD	399	5,623	14.1	477	1,196	84.8	99.0	11.77
5,500-7,000 HDD	1,134	18,024	15.9	1,641	1,448	91.1	93.8	8.01
4,000-5,499 HDD	1,077	16,162	15.0	1,275	1,184	78.9	62.1	13.79
Fewer than 4,000 HDD	1,101	15,251	13.8	1,178	1,070	77.2	70.8	11.66
More than 2,000 CDD and --								
Fewer than 4,000 HDD	1,095	12,816	11.7	919	840	71.7	78.1	12.69

See footnotes at end of table.

Table 3.4. Consumption for Sum of Major Fuels, 1992 (Continued)

Building Characteristics	All Buildings			Sum of Major Fuel Consumption				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)	
	0.8	0.9	0.8	1.1	1.2	1.0	1.3	
Energy Sources (more than one may apply)								
Electricity	4,611	66,525	14.4	5,490	1,190	82.5	77.1	4.00
Natural Gas	2,657	44,994	16.9	4,264	1,605	94.8	83.3	4.87
Fuel Oil	560	13,215	23.6	1,440	2,574	109.0	79.7	9.22
District Heat	95	5,245	55.4	839	8,872	160.0	117.5	14.15
District Chilled Water	28	1,914	68.0	292	10,369	152.6	107.8	17.94
Propane	337	3,393	10.1	220	653	64.9	76.3	13.85
Any Other	163	1,551	9.5	67	411	43.3	50.9	15.58
Energy End Uses (more than one may apply)								
Heated Buildings	4,178	61,996	14.8	5,364	1,284	86.5	77.1	4.50
Buildings with A/C	3,502	57,041	16.3	5,033	1,437	88.2	75.2	4.60
Buildings with Water Heating	3,502	58,479	16.7	5,259	1,502	89.9	78.2	4.71
Buildings with Cooking	734	23,065	31.4	2,382	3,245	103.3	77.0	7.43
Buildings with Manufacturing	121	3,174	26.3	356	2,951	112.1	140.1	16.21
Workers (main shift)								
Less than 5	2,718	17,944	6.6	799	294	44.5	168.7	7.95
5 to 9	895	7,524	8.4	622	695	82.7	108.1	8.91
10 to 19	561	8,077	14.4	635	1,130	78.6	88.8	8.70
20 to 49	405	10,556	26.1	1,016	2,510	96.2	86.2	7.88
50 to 99	130	7,763	59.7	688	5,288	88.6	82.1	9.46
100 or More	96	16,011	167.1	1,731	18,066	108.1	51.8	7.78
Weekly Operating Hours								
39 or Fewer	1,039	8,246	7.9	278	267	33.7	69.6	8.58
40 to 48	1,278	14,998	11.7	1,011	791	67.4	57.8	6.46
49 to 60	1,004	14,046	14.0	934	931	66.5	60.4	7.13
61 to 84	645	12,062	18.7	962	1,492	79.7	75.9	7.45
85 to 167	478	8,467	17.7	839	1,754	99.0	Q	9.01
Open Continuously	362	10,057	27.8	1,467	4,053	145.8	160.7	11.58
Ownership and Occupancy								
Nongovernment Owned	4,206	52,752	12.5	4,143	985	78.5	79.2	4.63
Owner Occupied	3,192	38,403	12.0	3,313	1,038	86.3	84.2	4.45
Single Establishment	2,864	29,992	10.5	2,751	960	91.7	98.9	5.19
Multiple Establishment	328	8,411	25.6	562	1,713	66.8	48.9	8.43
Nonowner Occupied	817	12,273	15.0	795	973	64.7	62.0	10.39
Single Establishment	495	5,565	11.2	408	824	73.2	80.5	18.55
Multiple Establishment	322	6,708	20.8	387	1,201	57.7	50.0	9.85
Vacant	197	2,077	10.5	36	183	17.3	210.8	22.16
Government Owned	599	15,124	25.2	1,347	2,247	89.1	71.2	8.72
Predominant Exterior Wall Material								
Masonry	3,115	48,585	15.6	4,016	1,289	82.7	88.4	4.60
Siding or Shingles	764	3,873	5.1	262	343	67.6	60.9	7.46
Metal Panels	745	7,392	9.9	505	678	68.3	105.5	12.69
Concrete Panels	87	4,961	56.7	408	4,658	82.2	Q	14.08
Window Glass	46	2,028	43.6	195	4,191	96.1	45.3	19.34
Other	47	1,037	22.1	105	2,227	101.0	50.7	28.47
Predominant Roof Material								
Built-Up	1,642	30,257	18.4	2,593	1,579	85.7	82.4	6.16
Shingles (Not Wood)	1,381	10,570	7.7	734	531	69.4	76.2	7.04
Metal Surfacing	1,037	9,019	8.7	550	530	61.0	84.1	10.88
Synthetic or Rubber	386	11,702	30.3	1,165	3,021	99.6	64.3	9.48
Other	359	6,328	17.6	448	1,248	70.8	82.1	11.16

See footnotes at end of table.

Table 3.4. Consumption for Sum of Major Fuels, 1992 (Continued)

Building Characteristics	All Buildings			Sum of Major Fuel Consumption				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)	
	0.8	0.9	0.8	1.1	1.2	1.0	1.3	
Floors								
One	3,007	25,424	8.5	1,751	582	68.9	81.2	6.59
Two	1,154	18,025	15.6	1,302	1,128	72.2	65.3	7.24
Three	446	9,877	22.2	887	1,989	89.8	92.4	7.42
Four to Nine	186	10,377	55.7	1,112	5,971	107.1	98.8	10.26
Ten or More	13	4,173	319.7	439	33,641	105.2	49.5	13.40
Percent Window Glass								
25 or Less	4,193	51,356	12.2	3,904	931	76.0	91.3	4.82
26 to 50	490	11,815	24.1	1,114	2,272	94.3	57.9	7.78
51 to 75	94	3,206	34.2	312	3,323	97.3	52.0	11.85
76 to 100	29	1,499	52.6	161	5,633	107.1	49.8	21.83
Building Shape								
Square	280	3,654	13.0	280	999	76.7	76.3	10.20
Rectangle	3,659	39,233	10.7	3,087	844	78.7	79.2	4.93
Right Angle	333	6,071	18.2	399	1,199	65.7	69.7	7.82
Other	533	18,919	35.5	1,724	3,234	91.1	75.3	9.06
Energy-Related Space Functions (more than one may apply)								
Commercial Food Preparation	735	22,166	30.2	2,339	3,182	105.5	75.6	6.74
Computer Room	223	14,199	63.7	1,539	6,907	108.4	67.4	8.30
Rooms with Special Ventilation	236	8,042	34.0	1,034	4,378	128.6	112.6	7.75
Activities with Large Amounts of Hot Water	203	6,862	33.7	964	4,738	140.4	136.0	9.37
Space-Heating Energy Sources (more than one may apply)								
Electricity	1,513	25,636	16.9	1,935	1,279	75.5	61.4	8.11
Natural Gas	2,397	38,467	16.1	3,453	1,441	89.8	80.6	5.34
Fuel Oil	478	7,323	15.3	793	1,658	108.3	96.4	10.27
District Heat	91	5,130	56.2	794	8,692	154.7	113.4	11.82
Propane	255	1,568	6.2	59	231	37.5	45.9	13.59
Wood	102	504	5.0	16	157	31.7	34.6	19.10
Any Other	39	661	16.9	17	432	25.6	45.9	29.66
Cooling Energy Sources (more than one may apply)								
Electricity	3,404	54,628	16.0	4,722	1,387	86.4	74.1	4.64
Natural Gas	106	1,906	17.9	289	2,712	151.4	118.8	19.18
District Chilled Water	28	1,914	68.0	292	10,369	152.6	107.8	17.94
Water-Heating Energy Sources (more than one may apply)								
Electricity	1,696	25,482	15.0	1,799	1,061	70.6	65.5	6.56
Natural Gas	1,643	29,950	18.2	3,007	1,830	100.4	86.3	6.06
Fuel Oil	125	2,469	19.7	252	2,010	102.0	83.1	17.29
District Heat	36	3,292	90.8	543	14,961	164.8	110.9	14.69
Propane	80	659	8.2	31	389	47.1	55.9	25.14
Cooking Energy Sources (more than one may apply)								
Electricity	356	12,183	34.2	1,200	3,370	98.5	65.2	10.84
Natural Gas	430	15,204	35.3	1,697	3,942	111.6	78.6	8.13
Propane	70	1,039	14.9	75	1,072	72.1	69.9	18.52
Manufacturing Energy Sources (more than one may apply)								
Electricity	95	2,579	27.3	290	3,070	112.5	138.1	17.73
Natural Gas	22	799	36.7	127	5,826	158.7	202.2	30.44
Other	15	343	22.6	46	3,018	133.4	201.9	34.28

See footnotes at end of table.

Table 3.4. Consumption for Sum of Major Fuels, 1992 (Continued)

Building Characteristics	All Buildings			Sum of Major Fuel Consumption				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)	
	0.8	0.9	0.8	1.1	1.2	1.0	1.3	
Percent of Floorspace Heated								
Not Heated	628	5,880	9.4	126	200	21.4	77.2	19.90
1 to 50	713	11,525	16.2	467	655	40.5	Q	10.32
51 to 99	618	10,211	16.5	885	1,431	86.7	74.2	7.86
100	2,846	40,260	14.1	4,013	1,410	99.7	84.2	4.79
Percent of Floorspace Cooled								
Not Cooled	1,304	10,835	8.3	457	351	42.2	105.7	8.87
1 to 50	1,176	21,715	18.5	1,348	1,147	62.1	102.1	5.87
51 to 99	658	13,872	21.1	1,432	2,176	103.2	59.8	8.01
100	1,668	21,454	12.9	2,253	1,351	105.0	75.7	6.84
Heating Equipment (more than one may apply)								
Heat Pumps	449	8,269	18.4	704	1,568	85.1	74.2	9.77
Furnaces	1,692	16,909	10.0	1,320	780	78.0	66.7	8.25
Individual Space Heaters	1,464	22,380	15.3	1,723	1,177	77.0	70.2	7.33
District Heat	93	5,225	55.9	829	8,874	158.7	117.7	11.75
Boilers	624	20,664	33.1	1,978	3,172	95.7	88.2	6.59
Packaged Heating Units	870	16,000	18.4	1,357	1,560	84.8	59.4	9.27
Other	42	903	21.2	171	4,031	189.8	149.9	29.96
Heating Distribution Equipment (more than one may apply)								
Radiators or Baseboards	473	13,263	28.0	1,379	2,914	103.9	101.7	6.73
Ducts for Heating	2,955	45,422	15.4	4,073	1,379	89.7	73.9	4.96
VAV System Used	210	11,528	54.8	1,278	6,076	110.9	66.0	12.00
Individual Space Heaters	1,464	22,380	15.3	1,723	1,177	77.0	70.2	7.33
Fan Coil Units or Other	276	8,457	30.7	1,033	3,749	122.2	115.7	9.59
Cooling Equipment (more than one may apply)								
Residential-Type Central A/C	816	9,021	11.0	898	1,099	99.5	92.2	9.63
Heat Pumps	454	8,406	18.5	753	1,659	89.5	78.7	9.75
Individual A/C	1,023	17,979	17.6	1,454	1,421	80.8	80.8	9.11
District Chilled Water	28	2,066	72.6	309	10,863	149.6	114.1	18.35
Central Chillers	142	12,991	91.5	1,482	10,437	114.1	80.2	9.92
Packaged A/C Units	1,459	27,830	19.1	2,514	1,723	90.3	76.7	5.74
Swamp Coolers	179	2,085	11.7	228	1,273	109.2	75.1	20.32
Other	8	268	35.0	17	Q	63.2	66.6	39.35
Cooling Distribution Equipment (more than one may apply)								
Ducts for Cooling	2,733	47,755	17.5	4,337	1,587	90.8	77.6	4.67
VAV System Used	221	12,430	56.2	1,391	6,289	111.9	78.0	8.91
Individual A/C	1,023	17,979	17.6	1,454	1,421	80.8	80.8	9.11
Fan Coil Units or Other	166	6,611	39.8	817	4,920	123.6	99.7	13.22
Water-Heating Equipment (more than one may apply)								
Centralized System	1,994	31,599	15.8	3,185	1,597	100.8	89.3	6.20
Distributed System	1,557	29,502	18.9	2,306	1,481	78.2	67.8	7.46
Energy Conservation Features (more than one may apply)								
Any Conservation Features	4,357	64,403	14.8	5,410	1,242	84.0	77.1	4.47
Building Shell	4,223	62,056	14.7	5,284	1,251	85.1	76.5	4.53
HVAC	2,604	50,281	19.3	4,699	1,804	93.4	77.0	4.72
Lighting	1,178	29,453	25.0	2,799	2,377	95.0	70.8	6.55
Other	264	5,952	22.6	552	2,095	92.8	92.2	7.59

See footnotes at end of table.

Table 3.4. Consumption for Sum of Major Fuels, 1992 (Continued)

Building Characteristics	All Buildings			Sum of Major Fuel Consumption				RSE Row Factor
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)	
	0.8	0.9	0.8	1.1	1.2	1.0	1.3	
Energy Management Practices (more than one may apply)								
Energy Management and Control System	236	14,320	60.7	1,571	6,663	109.7	75.6	8.73
Demand-Side Management ¹								
Participation	315	11,310	35.9	1,327	4,216	117.3	68.9	9.76
Energy Audit	521	14,779	28.3	1,479	2,837	100.1	78.7	7.01
Building Energy Manager	49	2,311	46.8	297	6,013	128.4	83.6	17.51

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.

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. • 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 3.15. Electricity Consumption and Expenditure Intensities, 1992

Building Characteristics	Electricity Consumption						Electricity Expenditures			RSE Row Factor
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.4	1.0	1.1				1.3	1.0	0.5	
All Buildings	166	11.5	10.7	2.6	6.0	14.2	12.5	0.87	0.075	3.28
Building Floorspace (square feet)										
1,001 to 5,000	39	14.0	10.1	2.8	6.6	16.8	3.4	1.22	0.087	4.45
5,001 to 10,000	77	10.4	9.6	2.2	5.1	11.1	6.6	0.90	0.086	6.49
10,001 to 25,000	156	9.7	9.5	2.2	5.3	11.2	12.3	0.77	0.079	4.65
25,001 to 50,000	371	10.3	11.7	2.4	5.1	12.5	27.7	0.77	0.075	6.86
50,001 to 100,000	795	11.4	11.5	3.4	7.2	16.3	59.9	0.86	0.075	5.73
100,001 to 200,000	1,443	10.5	12.3	2.0	7.1	16.3	98.4	0.72	0.068	8.63
200,001 to 500,000	4,195	13.8	14.0	4.1	8.9	18.1	271.6	0.89	0.065	7.61
Over 500,000	10,087	13.1	8.5	4.8	13.1	17.2	718.9	0.93	0.071	10.83
Principal Building Activity										
Education	229	8.1	10.0	4.0	7.0	11.4	18.4	0.65	0.080	5.95
Food Sales	253	43.6	39.2	20.0	42.3	66.4	17.3	2.97	0.068	8.80
Food Service	155	27.0	18.0	15.6	28.9	50.2	12.9	2.25	0.083	7.48
Health Care	638	22.9	11.9	6.8	10.8	17.6	41.7	1.50	0.065	8.00
Lodging	360	19.2	27.4	5.7	12.2	21.5	26.2	1.39	0.073	12.12
Mercantile and Service	103	10.5	8.2	3.1	6.7	13.4	8.4	0.85	0.081	5.54
Office	275	16.7	7.6	4.4	9.6	17.6	20.7	1.26	0.075	5.68
Parking Garage	480	6.9	52.6	2.6	6.2	10.9	31.4	0.45	0.066	29.47
Public Assembly	182	11.1	18.4	1.7	4.3	10.1	12.3	0.75	0.068	8.09
Public Order and Safety	136	10.0	10.2	2.9	8.2	11.8	10.3	0.75	0.076	19.72
Religious Worship	25	2.5	4.0	1.1	2.4	3.7	2.4	0.24	0.096	8.70
Warehouse and Storage	108	6.6	16.8	1.3	3.1	6.1	7.9	0.48	0.073	10.67
Other	352	20.3	18.5	1.7	5.5	26.5	22.8	1.32	0.065	14.34
Vacant	65	4.1	14.3	0.4	1.6	4.4	5.6	0.35	0.086	15.20
Year Constructed										
1899 or Before	67	6.5	7.3	1.1	2.9	6.7	6.1	0.60	0.091	17.06
1900 to 1919	81	5.8	6.5	1.7	4.1	7.8	7.0	0.50	0.087	12.49
1920 to 1945	93	7.6	9.6	1.9	4.4	9.7	7.7	0.63	0.083	8.29
1946 to 1959	116	9.6	10.7	2.2	5.4	13.2	8.9	0.74	0.077	7.57
1960 to 1969	204	12.4	8.7	2.7	7.0	14.6	15.3	0.93	0.075	7.11
1970 to 1979	195	13.4	12.8	3.3	7.3	17.3	14.5	0.99	0.074	5.56
1980 to 1989	237	14.3	12.6	3.5	8.4	18.7	17.0	1.03	0.072	5.00
1990 to 1992	257	12.9	11.8	2.6	5.9	13.2	18.9	0.95	0.074	10.05
Census Region and Division										
Northeast	163	9.3	6.6	2.5	5.0	10.8	16.2	0.93	0.100	6.11
New England	161	9.2	7.8	2.9	6.2	11.8	15.8	0.90	0.098	7.88
Middle Atlantic	163	9.3	6.3	2.3	4.7	10.1	16.4	0.93	0.100	7.94
Midwest	160	10.8	12.3	2.1	5.0	11.8	11.2	0.75	0.070	6.29
East North Central	152	10.4	11.6	2.1	4.9	11.8	11.5	0.79	0.075	8.44
West North Central	173	11.4	13.4	2.5	5.1	11.1	10.7	0.70	0.062	8.96
South	157	12.2	12.6	2.6	6.4	15.2	10.2	0.80	0.065	5.54
South Atlantic	183	12.9	12.3	2.6	6.5	15.0	12.6	0.89	0.069	7.52
East South Central	161	13.1	13.5	2.8	7.0	18.8	9.0	0.74	0.056	10.98
West South Central	127	10.8	12.6	2.6	6.2	13.4	8.5	0.72	0.067	8.20
West	196	13.4	11.4	3.3	8.0	17.8	16.0	1.09	0.081	6.62
Mountain	192	15.2	12.6	3.7	7.4	20.3	12.8	1.02	0.067	14.85
Pacific	199	12.6	10.9	3.1	8.4	17.1	17.6	1.12	0.089	7.28
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	149	10.4	11.8	2.4	5.1	10.6	9.3	0.65	0.063	9.43
5,500-7,000 HDD	167	10.3	10.4	2.3	5.0	11.8	13.4	0.83	0.080	6.98
4,000-5,499 HDD	168	10.9	8.5	2.4	5.6	13.5	12.8	0.83	0.076	7.26
Fewer than 4,000 HDD	184	13.0	11.6	2.7	6.9	17.0	13.9	0.99	0.076	6.83
More than 2,000 CDD and --										
Fewer than 4,000 HDD	150	12.6	13.4	3.1	7.3	15.7	11.0	0.92	0.073	8.42

See footnotes at end of table.

Table 3.15. Electricity Consumption and Expenditure Intensities, 1992 (Continued)

Building Characteristics	Electricity Consumption						Electricity Expenditures			RSE Row Factor
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.4	1.0	1.1				1.3	1.0	0.5	
Energy Sources (more than one may apply)										
Electricity	166	11.5	10.7	2.6	6.0	14.2	12.5	0.87	0.075	3.28
Natural Gas	195	11.5	10.1	2.9	6.7	15.0	15.0	0.88	0.077	3.69
Fuel Oil	345	14.6	10.6	2.4	4.7	9.4	25.1	1.06	0.073	7.93
District Heat	864	15.6	11.4	4.2	9.0	17.0	60.7	1.10	0.070	12.62
District Chilled Water	1,230	18.1	12.8	4.9	9.9	19.9	77.1	1.13	0.063	12.60
Propane	115	11.4	13.4	2.6	4.9	11.9	9.2	0.91	0.080	9.83
Any Other	69	7.1	8.3	1.8	3.2	5.9	5.2	0.54	0.076	14.41
Energy End Uses (more than one may apply)										
Heated Buildings	176	11.8	10.5	2.9	6.6	15.0	13.2	0.89	0.075	3.23
Buildings with A/C	205	12.6	10.7	3.5	7.7	17.4	15.4	0.94	0.075	3.24
Buildings with Water Heating	207	12.4	10.8	3.3	7.4	17.2	15.5	0.93	0.075	3.30
Buildings with Cooking	464	14.8	11.0	4.6	12.6	35.8	34.0	1.08	0.073	4.44
Buildings with Manufacturing	292	10.9	13.7	3.1	7.3	14.2	22.4	0.84	0.077	12.41
Workers (main shift)										
Less than 5	45	6.8	24.0	1.8	4.1	10.0	3.7	0.56	0.082	6.10
5 to 9	77	9.1	11.9	3.7	7.6	18.5	6.4	0.76	0.084	4.63
10 to 19	154	10.7	12.1	4.1	8.3	17.4	12.0	0.84	0.078	7.67
20 to 49	306	11.7	10.5	5.0	10.3	18.8	23.2	0.89	0.076	5.08
50 to 99	746	12.5	11.6	4.8	9.5	18.0	53.5	0.90	0.072	7.50
100 or More	2,882	17.2	8.3	8.3	15.8	24.7	204.2	1.22	0.071	5.11
Weekly Operating Hours										
39 or Fewer	27	3.3	6.0	0.8	2.1	4.3	2.5	0.31	0.094	6.85
40 to 48	112	9.5	8.1	2.9	6.1	11.4	8.5	0.72	0.077	5.95
49 to 60	127	9.0	8.1	2.8	5.5	11.2	10.3	0.73	0.081	5.15
61 to 84	220	11.7	11.1	4.9	9.9	19.7	17.8	0.95	0.081	6.70
85 to 167	277	15.6	10.6	6.8	18.3	43.3	21.1	1.19	0.076	6.75
Open Continuously	576	20.1	22.1	4.9	13.4	35.2	37.1	1.29	0.064	6.15
Ownership and Occupancy										
Nongovernment Owned	149	11.7	11.5	2.5	5.8	14.3	11.4	0.89	0.076	3.79
Owner Occupied	150	12.2	11.9	2.6	6.0	15.2	11.3	0.93	0.076	4.20
Single Establishment	133	12.6	13.4	2.5	6.0	15.4	10.0	0.94	0.075	4.75
Multiple Establishment	287	11.2	8.2	2.7	5.9	14.0	23.2	0.90	0.081	7.13
Nonowner Occupied	164	10.7	10.2	2.7	6.1	12.5	12.8	0.84	0.078	5.74
Single Establishment	135	11.8	13.0	2.8	6.3	13.4	9.5	0.84	0.071	9.38
Multiple Establishment	209	9.8	8.4	2.6	5.6	11.0	17.8	0.84	0.085	7.69
Vacant	39	3.4	Q	0.3	1.3	2.8	3.5	0.31	0.090	24.26
Government Owned	281	10.9	8.6	3.7	7.1	12.8	20.1	0.78	0.072	5.82
Predominant Exterior Wall Material										
Masonry	177	11.2	11.8	2.9	6.6	15.4	13.4	0.85	0.076	3.58
Siding or Shingles	53	10.4	8.8	1.9	5.1	13.5	4.6	0.89	0.086	7.13
Metal Panels	99	9.6	14.4	2.0	4.1	8.9	6.9	0.67	0.070	10.81
Concrete Panels	763	13.2	6.3	3.8	8.6	16.3	57.2	0.99	0.075	8.59
Window Glass	961	20.5	9.6	7.0	13.5	35.4	71.5	1.53	0.074	12.91
Other	353	15.7	7.8	1.7	5.0	6.0	25.1	1.12	0.071	15.47
Predominant Roof Material										
Built-Up	238	12.7	12.0	3.3	7.4	17.0	17.6	0.94	0.074	4.28
Shingles (Not Wood)	69	8.9	9.6	2.2	5.0	13.0	5.7	0.74	0.083	7.52
Metal Surfacing	75	8.2	10.9	2.0	4.4	9.9	5.5	0.60	0.074	7.45
Synthetic or Rubber	416	13.6	8.7	3.2	7.4	17.6	30.8	1.00	0.074	5.19
Other	189	10.6	12.0	3.0	7.2	15.7	14.5	0.81	0.077	10.41

See footnotes at end of table.

Table 3.15. Electricity Consumption and Expenditure Intensities, 1992 (Continued)

Building Characteristics	Electricity Consumption						Electricity Expenditures			RSE Row Factor
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.4	1.0	1.1				1.3	1.0	0.5	
Space-Heating Energy Source										
Electricity	233	13.7	11.2	3.6	8.8	20.2	17.1	1.01	0.073	4.75
Electricity Main	212	15.1	13.5	4.8	10.5	22.4	15.2	1.08	0.072	5.21
Electricity Secondary	291	11.7	8.4	2.6	5.6	11.3	22.3	0.90	0.077	7.27
Other Excluding Electricity	143	10.5	10.0	2.6	5.5	12.6	11.1	0.81	0.077	3.68
Building Not Heated	73	7.1	20.3	0.6	1.9	4.9	5.4	0.52	0.073	22.05
Main Space-Heating Energy Source										
Electricity	212	15.1	13.5	4.8	10.5	22.4	15.2	1.08	0.072	5.21
Natural Gas	166	10.7	9.6	2.8	6.2	14.1	12.7	0.82	0.077	3.94
Fuel Oil	81	7.2	6.4	2.1	3.9	7.2	7.9	0.71	0.098	6.95
District Heat	853	15.9	11.4	4.0	9.0	16.5	59.9	1.12	0.070	10.83
Propane	40	7.9	10.9	1.9	3.9	10.2	3.6	0.71	0.089	13.71
Wood	15	4.0	Q	1.5	3.2	4.8	1.5	0.40	0.098	14.58
Any Other	Q	3.8	7.9	1.9	2.4	5.1	Q	0.23	0.059	30.75
Replacement Energy Source for Main Heating										
Electricity Only	63	8.7	9.6	2.5	6.0	13.2	5.2	0.71	0.082	6.71
Natural Gas Only	112	10.5	10.8	3.0	6.5	19.3	8.7	0.82	0.078	11.06
Fuel Oil Only	473	14.0	15.0	2.5	4.7	12.0	31.5	0.93	0.067	7.98
Propane Only	101	9.8	9.7	2.5	5.3	10.8	7.6	0.73	0.075	12.07
Any Other Single Energy Source	65	7.7	5.7	2.0	3.5	5.1	Q	0.84	0.108	27.60
More than One Energy Source	101	10.5	10.7	2.6	5.9	21.7	7.4	0.77	0.073	16.41
No Replacement Energy Source	187	12.0	10.2	3.1	7.0	15.8	14.2	0.91	0.076	3.56
Building Not Heated	73	7.1	20.3	0.6	1.9	4.9	5.4	0.52	0.073	22.05
Cooling Energy Source										
Electricity	200	12.5	10.7	3.5	7.7	17.4	15.1	0.94	0.076	3.24
Other Excluding Electricity	361	14.6	11.1	4.2	8.2	17.9	24.2	0.97	0.067	14.52
A/C Not Performed	43	5.0	11.2	0.9	2.5	5.4	3.4	0.40	0.079	13.59
Water-Heating Energy Source										
Electricity	190	12.6	11.7	3.3	7.9	17.6	13.7	0.91	0.072	4.46
Other Excluding Electricity	222	12.2	10.1	3.4	7.0	16.8	17.1	0.94	0.077	4.01
Water Heating Not Performed	37	5.1	10.4	1.0	2.9	6.6	3.0	0.42	0.082	13.42
Cooking Energy Source										
Electricity	547	16.0	10.6	4.9	12.2	41.4	38.9	1.14	0.071	5.65
Other Excluding Electricity	386	13.4	11.7	4.3	13.0	31.6	29.3	1.02	0.076	6.01
Cooking Not Performed	109	9.8	10.5	2.3	5.4	11.9	8.4	0.75	0.077	4.07
Manufacturing Energy Source										
Electricity	315	11.5	14.2	3.1	7.3	12.8	23.8	0.87	0.076	13.52
Other Excluding Electricity	203	8.2	11.3	3.1	8.1	26.5	16.7	0.68	0.082	17.55
Manufacturing Not Performed	162	11.5	10.6	2.6	6.0	14.2	12.2	0.87	0.075	3.47
Percent of Floorspace Heated										
Not Heated	73	7.1	20.3	0.6	1.9	4.9	5.4	0.52	0.073	22.05
1 to 50	105	6.5	7.5	1.7	3.6	7.7	8.5	0.52	0.081	8.22
51 to 99	206	12.4	10.6	3.1	7.5	16.1	16.3	0.98	0.079	5.67
100	187	13.2	11.1	3.3	7.5	17.2	13.8	0.97	0.074	3.56
Percent of Floorspace Cooled										
Not Cooled	43	5.0	11.2	0.9	2.5	5.4	3.4	0.40	0.079	13.59
1 to 50	119	6.4	10.6	2.6	4.8	9.3	9.6	0.52	0.081	4.56
51 to 99	333	15.8	9.2	4.7	9.6	20.6	24.8	1.18	0.074	5.22
100	214	16.7	12.0	4.3	10.0	21.4	15.7	1.22	0.073	4.34
Percent Lit when Open										
Not Lit	22	2.6	46.5	0.2	0.9	2.7	1.9	0.22	0.087	23.98
1 to 50	55	4.9	11.5	1.5	3.1	7.0	4.5	0.40	0.082	11.81
51 to 99	197	11.3	10.7	3.2	7.1	14.9	15.3	0.87	0.078	4.80
100	204	13.6	10.6	3.5	7.7	17.7	15.1	1.01	0.074	3.62

See footnotes at end of table.

Table 3.15. Electricity Consumption and Expenditure Intensities, 1992 (Continued)

Building Characteristics	Electricity Consumption						Electricity Expenditures			RSE Row Factor
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.4	1.0	1.1				1.3	1.0	0.5	
Percent Lit when Closed										
Not Lit	132	11.2	13.4	2.0	4.7	11.1	9.6	0.81	0.072	4.35
1 to 50	218	11.7	8.9	4.0	8.4	18.6	17.1	0.92	0.079	3.88
51 to 99	386	16.1	13.7	7.1	14.7	41.5	28.9	1.21	0.075	15.50
100	120	11.8	12.5	1.8	7.8	17.6	8.6	0.84	0.072	13.84
Heating Equipment (more than one may apply)										
Heat Pumps	284	15.4	13.4	4.7	9.8	21.2	19.9	1.08	0.070	7.34
Furnaces	92	9.2	7.8	2.8	5.9	13.2	7.3	0.73	0.080	4.45
Individual Space Heaters	170	11.1	10.1	2.4	5.2	11.8	12.4	0.81	0.073	4.84
District Heat	876	15.7	11.6	4.2	9.0	17.0	61.3	1.10	0.070	9.55
Boilers	390	11.8	10.8	2.7	5.1	10.9	28.2	0.85	0.072	4.95
Packaged Heating Units	246	13.4	9.4	5.0	9.9	21.8	19.4	1.06	0.079	5.26
Other	569	26.8	21.2	6.9	32.1	54.1	37.7	1.77	0.066	14.47
Cooling Equipment (more than one may apply)										
Residential-Type Central A/C	116	10.5	9.7	3.4	6.5	13.4	9.0	0.81	0.077	6.35
Heat Pumps	282	15.2	13.4	4.7	9.9	21.5	20.1	1.09	0.072	6.94
Individual A/C	165	9.4	9.4	2.6	5.3	11.9	12.9	0.73	0.078	5.22
District Chilled Water	1,219	16.8	12.8	4.9	9.9	19.3	76.3	1.05	0.063	13.75
Central Chillers	1,580	17.3	12.1	6.0	12.2	20.0	107.7	1.18	0.068	6.06
Packaged A/C Units	256	13.4	11.4	4.3	9.6	21.2	19.7	1.03	0.077	3.74
Swamp Coolers	177	15.2	10.4	4.2	7.8	21.7	12.8	1.10	0.072	10.82
Other	473	13.5	14.2	5.1	5.6	16.9	28.8	0.82	0.061	25.27
Lighting Equipment (more than one may apply)										
Incandescent	191	12.2	10.3	2.5	6.0	14.8	14.4	0.92	0.075	3.93
Standard Fluorescent	180	11.8	10.5	3.0	6.7	15.1	13.6	0.89	0.076	3.17
Compact Fluorescent	651	16.1	8.1	3.9	8.6	19.8	48.4	1.20	0.074	7.27
High-Intensity Discharge	613	12.3	10.8	3.5	7.2	15.7	43.4	0.87	0.071	6.25
Other	247	12.0	9.9	5.1	9.6	18.2	19.3	0.94	0.078	18.21
Water-Heating Equipment (more than one may apply)										
Centralized System	204	12.9	11.4	3.4	7.4	16.9	15.3	0.96	0.075	4.21
Distributed System	229	12.1	10.5	3.2	7.6	17.6	16.9	0.89	0.074	4.46
Commercial Refrigeration Equipment (more than one may apply)										
Any Equipment	407	15.5	12.1	6.0	16.8	39.0	29.7	1.13	0.073	4.06
Walk-in Units	544	17.2	12.6	9.2	22.6	52.4	38.7	1.22	0.071	4.45
Cases and Cabinets	429	16.0	11.9	6.2	18.8	45.0	31.2	1.16	0.073	4.32
None	102	9.0	9.6	2.1	4.9	10.5	7.9	0.70	0.078	4.57
Personal Computers and/or Computer Terminals										
1 to 4	97	9.3	11.8	3.4	7.3	15.5	7.9	0.75	0.081	5.28
5 to 9	201	11.3	11.1	5.2	8.8	16.9	15.8	0.89	0.078	7.26
10 to 19	339	11.7	11.6	4.6	9.0	17.2	25.0	0.87	0.074	7.73
20 to 49	519	11.4	10.6	5.3	10.6	19.2	38.7	0.85	0.074	6.27
50 or More	2,366	17.9	8.7	7.4	14.5	23.3	166.7	1.26	0.070	5.60

See footnotes at end of table.

Table 3.15. Electricity Consumption and Expenditure Intensities, 1992 (Continued)

Building Characteristics	Electricity Consumption						Electricity Expenditures			RSE Row Factor
	per Building (thousand kWh)	per Square Foot (kWh)	per Worker (thousand kWh)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per kWh (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.4	1.0	1.1				1.3	1.0	0.5	
Annual Consumption (kilowatthours)										
10,000 or Less	5	1.1	2.1	0.6	1.5	2.9	0.6	0.13	0.116	3.94
10,001 to 50,000	25	3.8	4.9	3.1	5.7	9.9	2.5	0.38	0.100	2.83
50,001 to 100,000	72	6.8	7.7	6.3	10.8	20.7	6.6	0.63	0.092	2.94
100,001 to 500,000	210	10.9	10.7	8.3	17.6	44.9	17.2	0.89	0.082	2.61
500,001 to 1,000,000	680	12.3	12.8	10.6	18.0	31.1	50.6	0.92	0.074	3.58
1,000,001 to 5,000,000	1,940	18.0	14.9	15.0	23.2	50.9	135.7	1.26	0.070	4.60
Over 5,000,000	10,762	23.4	12.1	13.8	24.7	40.0	699.4	1.52	0.065	6.46
Peak Electricity Demand (kilowatts)										
10 or Less	13	2.4	4.0	1.4	2.9	5.9	1.3	0.24	0.099	7.35
11 to 25	36	5.1	6.0	3.8	7.0	13.4	3.5	0.50	0.098	5.39
26 to 50	91	9.1	8.7	5.4	11.0	29.8	7.9	0.79	0.087	5.65
51 to 100	189	10.6	10.4	6.1	12.8	30.7	15.8	0.89	0.083	3.78
101 to 250	420	12.3	12.3	8.1	16.8	30.5	32.3	0.94	0.077	4.51
251 to 1,000	1,406	16.3	14.7	10.7	18.6	42.0	99.6	1.15	0.071	6.61
Over 1,000	5,952	22.1	16.4	13.8	23.0	40.0	386.2	1.43	0.065	8.73
Season of Peak Electricity Demand										
Summer	309	14.1	12.4	4.6	9.6	20.4	22.8	1.04	0.074	4.44
Winter	219	11.9	13.2	3.3	7.5	17.6	16.1	0.88	0.074	6.38
Summer and Winter	157	11.5	9.7	2.8	5.9	13.4	12.3	0.90	0.078	14.43
Building Generates Electricity										
Yes	1,213	17.9	12.1	5.1	11.8	24.1	83.1	1.23	0.069	6.35
No	130	10.3	10.4	2.5	5.9	13.8	10.1	0.80	0.078	3.71

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 3.31. Natural Gas Consumption and Expenditure Intensities, 1992

Building Characteristics	Natural Gas Consumption						Natural Gas Expenditures			RSE Row Factor
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.2	1.2	1.3				1.0	1.0	0.6	
All Buildings	795	47.0	41.3	15.6	35.5	74.4	3.7	0.22	4.69	5.41
Building Floorspace (square feet)										
1,001 to 5,000	235	83.0	54.1	21.2	44.4	94.5	1.3	0.46	5.51	8.07
5,001 to 10,000	426	57.3	47.5	14.1	30.5	60.8	2.3	0.31	5.50	6.03
10,001 to 25,000	1,021	62.3	60.3	11.7	28.4	57.2	4.5	0.28	4.42	15.03
25,001 to 50,000	1,732	48.2	55.5	10.0	24.9	55.7	8.6	0.24	4.96	13.73
50,001 to 100,000	2,988	43.2	43.3	9.7	29.2	56.0	14.3	0.21	4.78	7.63
100,001 to 200,000	3,850	28.1	31.1	5.0	13.7	33.8	17.2	0.13	4.46	11.71
200,001 to 500,000	11,380	37.3	36.7	3.8	15.8	40.0	40.4	0.13	3.55	13.87
Over 500,000	26,331	31.1	16.5	1.8	11.5	28.3	95.7	0.11	3.63	17.89
Principal Building Activity										
Education	1,434	41.3	52.3	17.0	30.2	60.4	6.4	0.19	4.49	7.97
Food Sales	334	45.9	42.6	13.4	26.8	82.3	1.9	0.26	5.75	15.79
Food Service	775	132.9	83.5	81.3	146.4	225.1	4.2	0.71	5.38	8.48
Health Care	4,067	119.2	61.4	21.0	39.6	90.8	14.6	0.43	3.60	14.67
Lodging	1,907	83.8	107.0	34.7	71.9	136.7	9.5	0.42	4.97	12.08
Mercantile and Service	486	39.5	28.4	15.9	35.5	68.5	2.5	0.20	5.13	11.23
Office	795	48.0	21.9	14.6	30.3	59.9	3.4	0.21	4.30	21.50
Parking Garage	830	Q	126.5	48.2	97.5	205.6	4.0	Q	4.84	18.29
Public Assembly	571	38.1	55.4	12.4	31.9	67.2	2.9	0.19	5.06	10.45
Public Order and Safety	975	62.1	64.4	43.5	60.2	121.2	4.7	0.30	4.80	17.22
Religious Worship	302	21.8	42.7	11.7	26.7	45.5	1.6	0.11	5.27	8.83
Warehouse and Storage	720	30.1	66.2	10.6	25.4	53.9	3.5	0.15	4.93	10.14
Other	2,866	105.1	88.1	6.8	32.2	106.3	10.6	0.39	3.69	29.08
Vacant	626	29.6	74.7	8.9	23.7	53.0	3.1	0.14	4.89	15.50
Year Constructed										
1899 or Before	542	48.3	58.6	14.3	32.8	64.5	2.5	0.23	4.70	13.44
1900 to 1919	555	35.4	43.8	16.1	39.7	72.5	2.9	0.19	5.23	11.31
1920 to 1945	690	52.5	60.2	15.2	35.5	82.5	3.3	0.25	4.79	11.85
1946 to 1959	667	47.2	50.4	14.7	35.4	71.9	3.2	0.23	4.83	13.40
1960 to 1969	894	46.6	29.7	15.8	35.4	68.3	4.1	0.21	4.60	10.37
1970 to 1979	1,000	55.7	51.2	17.1	40.3	86.5	4.3	0.24	4.26	12.61
1980 to 1989	866	40.8	33.0	15.6	32.9	68.5	4.3	0.20	4.97	10.54
1990 to 1992	884	28.7	23.7	12.3	23.4	58.6	4.5	0.15	5.14	15.45
Census Region and Division										
Northeast	931	40.2	26.2	21.0	40.4	84.0	5.4	0.24	5.85	10.02
New England	1,151	41.1	35.3	23.4	52.9	100.6	7.6	0.27	6.57	15.06
Middle Atlantic	885	40.0	24.5	20.9	39.3	76.5	5.0	0.23	5.66	11.90
Midwest	861	52.7	57.4	25.2	49.2	90.8	3.6	0.22	4.15	5.51
East North Central	901	58.0	63.0	26.8	51.6	96.0	3.7	0.24	4.14	6.69
West North Central	784	43.8	47.9	21.9	45.2	86.7	3.3	0.18	4.16	10.64
South	768	50.7	48.4	11.8	27.3	55.1	3.4	0.22	4.43	14.86
South Atlantic	1,262	49.2	44.9	13.7	33.3	84.9	6.2	0.24	4.91	20.79
East South Central	692	47.4	43.4	16.4	30.2	64.4	3.5	0.24	5.11	13.75
West South Central	611	54.0	55.1	9.8	24.4	51.0	2.2	0.20	3.67	27.44
West	650	39.3	32.0	11.5	25.4	63.5	3.3	0.20	5.14	9.26
Mountain	670	51.9	43.3	17.0	36.6	82.4	2.8	0.22	4.21	14.82
Pacific	639	34.5	27.8	9.5	20.6	51.8	3.6	0.20	5.68	10.80
Climate Zone: 45-Year Average										
Fewer than 2,000 CDD and --										
More than 7,000 HDD	803	49.8	58.6	25.2	53.9	100.4	3.5	0.21	4.30	9.29
5,500-7,000 HDD	951	52.9	53.6	25.6	49.6	92.0	4.3	0.24	4.50	6.77
4,000-5,499 HDD	905	41.3	28.8	16.9	35.8	71.1	4.5	0.21	4.97	13.33
Fewer than 4,000 HDD	705	41.4	34.2	12.7	25.5	57.5	3.7	0.22	5.23	11.95
More than 2,000 CDD and --										
Fewer than 4,000 HDD	584	51.7	51.3	8.7	22.6	51.7	2.4	0.21	4.15	22.05

See footnotes at end of table.

Table 3.31. Natural Gas Consumption and Expenditure Intensities, 1992 (Continued)

Building Characteristics	Natural Gas Consumption						Natural Gas Expenditures			RSE Row Factor
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.2	1.2	1.3				1.0	1.0	0.6	
Energy Sources (more than one may apply)										
Electricity	796	47.0	41.3	15.6	35.5	74.4	3.7	0.22	4.69	5.20
Natural Gas	795	47.0	41.3	15.6	35.5	74.4	3.7	0.22	4.69	5.41
Fuel Oil	3,071	47.3	33.0	9.3	29.8	62.5	12.5	0.19	4.07	12.60
District Heat	3,155	42.0	32.1	4.2	15.8	45.3	12.0	0.16	3.81	24.10
District Chilled Water	2,727	47.2	33.4	8.6	18.1	45.3	11.2	0.19	4.10	19.35
Propane	2,109	49.6	63.0	14.0	25.3	69.9	10.7	0.25	5.10	21.13
Any Other	403	22.2	26.7	10.7	18.3	51.5	2.3	0.13	5.72	15.71
Energy End Uses (more than one may apply)										
Heated Buildings	801	47.1	41.3	15.9	35.8	74.6	3.7	0.22	4.68	5.27
Buildings with A/C	857	46.7	39.3	15.5	35.3	74.6	4.0	0.22	4.64	5.59
Buildings with Water Heating	886	47.8	41.4	16.4	37.5	80.4	4.1	0.22	4.66	5.46
Buildings with Cooking	1,723	49.6	36.1	21.8	58.5	139.6	7.7	0.22	4.48	5.70
Buildings with Manufacturing	1,881	60.5	74.5	14.7	31.4	73.7	8.3	0.27	4.43	20.32
Workers (main shift)										
Less than 5	256	40.0	121.2	15.2	35.5	70.8	1.4	0.22	5.53	5.42
5 to 9	520	64.6	80.1	17.5	38.0	90.8	2.2	0.28	4.28	15.31
10 to 19	705	49.3	55.1	15.1	35.8	73.8	3.7	0.26	5.24	10.32
20 to 49	1,537	55.1	53.3	15.4	33.6	91.0	7.7	0.28	5.00	11.34
50 to 99	3,118	45.5	47.6	12.3	32.7	68.8	13.8	0.20	4.43	13.40
100 or More	7,143	39.4	19.4	6.3	23.1	53.5	28.1	0.15	3.93	8.95
Weekly Operating Hours										
39 or Fewer	364	36.6	71.7	11.7	28.9	53.0	1.8	0.18	4.97	10.01
40 to 48	500	39.6	32.2	15.5	31.0	59.9	2.5	0.20	4.95	8.21
49 to 60	662	41.3	40.4	13.6	32.1	61.5	3.2	0.20	4.78	11.29
61 to 84	956	42.2	39.0	17.8	38.0	86.9	4.1	0.18	4.32	12.90
85 to 167	1,013	46.5	28.6	23.4	56.3	132.9	5.1	0.23	5.02	8.75
Open Continuously	2,535	80.9	70.4	28.6	66.7	136.7	11.2	0.36	4.40	11.56
Ownership and Occupancy										
Nongovernment Owned	707	47.7	45.1	15.1	35.0	74.9	3.4	0.23	4.80	6.41
Owner Occupied	723	50.0	48.0	15.8	36.6	78.7	3.4	0.23	4.66	6.02
Single Establishment	710	57.8	59.6	16.4	37.6	80.8	3.3	0.27	4.62	6.57
Multiple Establishment	824	26.5	21.0	12.0	28.8	68.5	4.1	0.13	4.96	9.54
Nonowner Occupied	658	40.4	34.6	12.3	29.4	59.4	3.5	0.22	5.37	14.03
Single Establishment	635	57.7	48.5	14.4	37.9	78.3	3.4	0.31	5.40	20.43
Multiple Establishment	688	29.5	25.6	10.4	20.8	39.1	3.7	0.16	5.32	17.93
Vacant	545	39.4	Q	16.4	34.7	64.7	2.8	0.20	5.14	25.17
Government Owned	1,362	44.6	32.2	19.3	40.6	74.1	5.9	0.19	4.31	7.88
Predominant Exterior Wall Material										
Masonry	826	46.9	47.6	15.1	35.0	75.9	4.0	0.23	4.81	5.18
Siding or Shingles	316	51.2	43.6	19.8	36.6	69.0	1.8	0.29	5.59	9.25
Metal Panels	800	67.6	90.1	14.4	33.5	64.4	2.9	0.25	3.65	23.65
Concrete Panels	2,461	34.7	14.2	10.3	29.8	60.5	10.5	0.15	4.27	14.59
Window Glass	1,107	28.7	11.6	8.3	41.0	145.7	5.0	0.13	4.54	18.31
Other	760	27.1	15.3	23.7	57.4	82.6	3.7	0.13	4.80	23.29
Predominant Roof Material										
Built-Up	932	45.5	42.1	13.5	30.9	71.2	4.4	0.22	4.76	7.93
Shingles (Not Wood)	425	49.1	52.2	19.8	38.4	84.1	2.2	0.26	5.26	8.55
Metal Surfacing	613	57.5	62.8	13.9	32.3	68.4	2.4	0.22	3.85	20.97
Synthetic or Rubber	1,618	46.3	29.3	14.4	39.3	77.1	7.1	0.20	4.41	7.91
Other	745	40.8	43.2	17.9	41.8	84.5	3.8	0.21	5.16	11.47

See footnotes at end of table.

Table 3.31. Natural Gas Consumption and Expenditure Intensities, 1992 (Continued)

Building Characteristics	Natural Gas Consumption						Natural Gas Expenditures			RSE Row Factor
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.2	1.2	1.3				1.0	1.0	0.6	
Space-Heating Energy Source										
Natural Gas	786	49.0	44.0	16.4	35.8	73.8	3.7	0.23	4.65	5.63
Natural Gas Main	780	50.4	45.1	17.3	37.0	74.6	3.6	0.24	4.68	5.86
Natural Gas Secondary	890	34.0	31.4	7.0	17.1	57.3	3.8	0.14	4.23	22.12
Other Excluding Natural Gas	965	35.4	27.0	9.7	31.6	94.0	4.8	0.17	4.94	9.24
Building Not Heated	Q	Q	Q	4.8	13.3	21.6	Q	Q	5.67	10.07
Primary Space-Heating Energy Source										
Electricity	699	35.5	29.1	11.7	30.4	85.9	3.7	0.19	5.24	8.52
Natural Gas	780	50.4	45.1	17.3	37.0	74.6	3.6	0.24	4.68	5.86
Fuel Oil	395	11.5	8.0	2.5	11.3	32.9	2.7	0.08	6.83	17.17
District Heat	2,711	37.3	26.8	3.5	14.4	45.3	10.5	0.14	3.88	16.32
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	547	72.6	77.4	14.4	29.2	67.5	1.9	0.26	Q	19.77
Natural Gas Only	476	30.9	32.7	6.8	21.0	95.8	2.5	0.16	5.21	13.84
Fuel Oil Only	3,102	69.7	76.9	23.5	47.7	90.4	12.5	0.28	4.02	10.92
Propane Only	604	46.0	45.8	21.0	37.4	66.3	2.6	0.20	4.34	21.98
Any Other Single Energy Source	402	27.4	Q	11.5	26.5	59.9	2.4	0.17	6.07	29.24
More than One Energy Source	626	56.5	65.3	15.6	30.3	49.3	3.4	0.30	5.36	20.52
No Replacement Energy Source	740	42.8	35.6	16.3	37.4	76.5	3.7	0.21	4.94	5.55
Building Not Heated	Q	Q	Q	4.8	13.3	21.6	Q	Q	5.67	10.07
Cooling Energy Source										
Natural Gas	1,698	94.8	74.4	25.7	38.4	95.0	7.4	0.41	4.33	29.90
Other Excluding Natural Gas	815	44.4	37.5	15.0	35.0	74.0	3.8	0.21	4.68	5.26
A/C Not Performed	452	49.6	89.1	16.2	38.3	74.3	2.3	0.25	5.12	8.50
Water-Heating Energy Source										
Natural Gas	972	53.3	45.8	18.2	40.8	92.5	4.6	0.25	4.77	5.51
Other Excluding Natural Gas	676	35.2	30.9	13.6	30.3	57.6	2.9	0.15	4.26	12.35
Water Heating Not Performed	165	28.1	38.2	10.9	23.5	48.6	1.0	0.16	5.82	9.75
Cooking Energy Source										
Natural Gas	1,843	52.2	36.7	25.0	72.8	147.8	8.3	0.23	4.49	6.15
Other Excluding Natural Gas	1,211	37.5	32.3	12.5	36.6	63.9	5.4	0.17	4.43	14.18
Cooking Not Performed	564	45.1	46.4	15.0	32.4	62.6	2.7	0.22	4.84	8.20
Manufacturing Energy Source										
Natural Gas	3,478	94.8	120.7	25.6	61.6	183.5	14.5	0.39	4.17	34.07
Other Excluding Natural Gas	1,297	44.7	54.2	12.3	25.1	53.4	6.1	0.21	4.68	19.91
Manufacturing Not Performed	761	46.2	39.9	15.6	35.5	74.6	3.6	0.22	4.71	5.72
Percent of Floorspace Heated										
Not Heated	Q	Q	Q	4.8	13.3	21.6	Q	Q	5.67	10.07
1 to 50	450	23.6	21.3	8.0	17.6	47.1	2.3	0.12	5.13	15.72
51 to 99	829	45.8	41.5	13.6	32.1	65.2	3.7	0.21	4.48	16.20
100	868	53.1	45.9	19.5	40.1	84.6	4.1	0.25	4.68	5.40

See footnotes at end of table.

Table 3.31. Natural Gas Consumption and Expenditure Intensities, 1992 (Continued)

Building Characteristics	Natural Gas Consumption						Natural Gas Expenditures			RSE Row Factor
	per Building (thousand cubic feet)	per Square Foot (cubic feet)	per Worker (thousand cubic feet)	Distribution of Building-Level Intensities (kWh/square foot)			per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Cubic Feet (dollars)	
				25th Percentile	Median	75th Percentile				
RSE Column Factor:	1.2	1.2	1.3				1.0	1.0	0.6	
Heating Equipment (more than one may apply)										
Heat Pumps	1,531	44.4	41.3	10.2	31.0	71.9	7.4	0.22	4.86	15.75
Furnaces	559	49.1	41.4	17.6	35.0	69.7	2.6	0.22	4.56	11.66
Individual Space Heaters	781	42.4	37.3	13.4	34.1	69.1	3.7	0.20	4.79	8.98
District Heat	3,741	48.9	38.3	3.8	14.4	45.3	13.5	0.18	3.62	21.78
Boilers	2,054	53.4	46.7	21.9	51.1	95.0	9.1	0.24	4.43	6.20
Packaged Heating Units	938	43.9	30.4	14.5	37.6	85.9	4.7	0.22	4.97	7.62
Other	Q	Q	Q	14.4	38.4	201.2	Q	Q	5.14	7.03
Water-Heating Equipment (more than one may apply)										
Centralized System	962	56.5	49.3	18.9	39.3	84.5	4.3	0.25	4.49	7.50
Distributed System	832	39.3	33.2	14.6	35.4	75.2	4.1	0.19	4.88	5.97
Annual Consumption (hundred cubic feet)										
1,000 or Less	52	8.1	8.5	6.0	13.3	24.4	0.4	0.06	7.59	4.15
1,001 to 5,000	240	23.4	22.8	23.6	40.7	74.3	1.4	0.14	5.87	3.64
5,001 to 10,000	695	40.4	36.2	37.0	72.2	161.3	3.7	0.22	5.39	4.50
10,001 to 25,000	1,554	44.7	43.0	42.1	83.6	174.1	7.9	0.23	5.05	3.84
25,001 to 50,000	3,311	50.5	45.4	47.6	78.9	127.4	17.2	0.26	5.19	5.27
50,001 to 100,000	6,819	67.7	65.4	56.5	91.1	221.1	31.0	0.31	4.54	5.41
Over 100,000	25,317	124.9	69.8	85.2	164.3	821.2	88.6	0.44	3.50	14.12
Gas Transported for the Account of Others										
Used in Building	5,898	104.6	103.6	27.1	44.8	97.8	22.6	0.40	3.84	27.59
Not Used in Building	681	42.4	37.0	15.4	35.3	74.1	3.3	0.21	4.85	5.04

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 3.42. Fuel Oil Consumption and Expenditure Intensities, 1992

Building Characteristics	Fuel Oil Consumption			Fuel Oil Expenditures			RSE Row Factor
	per Building (gallons)	per Square Foot (kWh)	per Worker (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)	
	1.3	1.3	1.5	1.2	1.3	0.3	
All Buildings	3,494	0.15	108.2	2.5	0.11	0.72	8.65
Building Floorspace (square feet)							
1,001 to 5,000	1,006	0.35	297.0	0.9	0.30	0.87	7.53
5,001 to 10,000	2,652	0.36	324.3	2.1	0.29	0.80	12.60
10,001 to 25,000	3,115	0.20	209.5	2.4	0.15	0.78	12.90
25,001 to 50,000	10,356	0.29	334.3	7.1	0.20	0.68	23.67
50,001 to 100,000	9,946	0.14	105.5	6.6	0.19	0.66	15.82
100,001 to 200,000	18,556	0.13	75.3	12.3	0.09	0.66	24.29
200,001 to 500,000	17,907	0.06	40.1	11.2	0.04	0.62	26.75
Over 500,000	Q	0.05	Q	21.4	0.03	0.51	37.62
Principal Building Activity							
Education	16,030	0.24	303.7	10.1	0.15	0.63	11.86
Food Sales	Q	Q	Q	Q	Q	Q	NF
Food Service	Q	Q	Q	Q	Q	Q	NF
Health Care	Q	0.13	69.1	Q	0.08	0.58	33.61
Lodging	6,261	0.14	0.0	4.4	0.10	0.70	22.83
Mercantile and Service	1,980	0.19	216.5	1.6	0.15	0.80	15.26
Office	3,911	0.09	37.1	2.8	0.07	0.72	13.57
Parking Garage	Q	Q	Q	Q	Q	Q	NF
Public Assembly	3,727	0.13	141.5	2.8	0.10	0.74	28.07
Public Order and Safety	Q	Q	Q	Q	Q	Q	NF
Religious Worship	1,431	0.16	224.0	1.2	0.14	0.83	14.27
Warehouse and Storage	2,746	0.17	277.8	2.2	0.14	0.81	20.81
Other	Q	Q	Q	Q	Q	Q	NF
Vacant	Q	Q	Q	Q	Q	Q	NF
Year Constructed							
1899 or Before	2,398	0.22	182.8	1.9	0.18	0.80	14.11
1900 to 1919	3,355	0.23	180.4	2.4	0.17	0.73	22.09
1920 to 1945	3,892	0.24	286.2	2.7	0.16	0.68	19.81
1946 to 1959	4,037	0.26	213.7	2.9	0.19	0.72	13.61
1960 to 1969	4,017	0.15	93.4	2.9	0.11	0.73	20.07
1970 to 1979	3,855	0.13	89.9	2.7	0.09	0.71	18.33
1980 to 1989	1,658	0.04	27.2	1.2	0.03	0.73	20.91
1990 to 1992	Q	Q	Q	Q	Q	0.69	38.85
Census Region and Division							
Northeast	4,891	0.25	189.2	3.5	0.18	0.71	8.61
New England	6,202	0.29	237.4	4.2	0.20	0.67	11.64
Middle Atlantic	4,136	0.22	160.9	3.1	0.17	0.75	11.08
Midwest	2,333	0.07	68.6	1.6	0.05	0.70	29.26
East North Central	1,684	0.06	57.1	1.3	0.05	0.75	19.19
West North Central	Q	Q	Q	Q	Q	0.65	38.35
South	1,886	0.10	58.7	1.4	0.07	0.75	19.02
South Atlantic	2,242	0.13	89.2	1.6	0.09	0.73	22.13
East South Central	888	0.06	Q	0.8	0.05	0.85	17.88
West South Central	0	Q	Q	0.0	Q	0.86	8.88
West	2,698	Q	Q	1.7	Q	0.61	25.34
Mountain	Q	Q	Q	Q	Q	Q	NF
Pacific	1,782	Q	Q	1.2	Q	0.65	23.70
Climate Zone: 45-Year Average							
Fewer than 2,000 CDD and --							
More than 7,000 HDD	4,078	0.21	215.8	2.9	0.15	0.71	14.59
5,500-7,000 HDD	3,708	0.16	130.7	2.6	0.11	0.70	13.78
4,000-5,499 HDD	3,779	0.20	140.2	2.7	0.14	0.73	15.45
Fewer than 4,000 HDD	1,475	0.03	Q	1.1	0.03	0.74	33.69
More than 2,000 CDD and --							
Fewer than 4,000 HDD	2,145	0.05	36.5	1.7	0.04	0.79	29.45

See footnotes at end of table.

Table 3.42. Fuel Oil Consumption and Expenditure Intensities, 1992 (Continued)

Building Characteristics	Fuel Oil Consumption			Fuel Oil Expenditures			RSE Row Factor
	per Building (gallons)	per Square Foot (kWh)	per Worker (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)	
	1.3	1.3	1.5	1.2	1.3	0.3	
Energy Sources (more than one may apply)							
Electricity	3,502	0.15	108.1	2.5	0.11	0.72	8.83
Natural Gas	5,951	0.09	64.0	3.9	0.06	0.66	15.11
Fuel Oil	3,494	0.15	108.2	2.5	0.11	0.72	8.65
District Heat	Q	Q	Q	Q	0.02	0.44	37.89
District Chilled Water	Q	0.08	Q	Q	0.05	0.62	26.90
Propane	4,404	0.21	224.3	3.1	0.15	0.70	14.02
Any Other	Q	Q	Q	Q	Q	Q	NF
Energy End Uses (more than one may apply)							
Heated Buildings	3,516	0.15	109.2	2.5	0.11	0.72	8.64
Buildings with A/C	4,138	0.13	91.5	2.9	0.09	0.71	9.85
Buildings with Water Heating	4,155	0.14	101.7	2.9	0.10	0.71	8.99
Buildings with Cooking	7,727	0.10	69.7	5.1	0.07	0.66	11.84
Buildings with Manufacturing	10,395	0.29	289.1	6.7	0.18	0.65	28.14
Workers (main shift)							
Less than 5	1,324	0.23	682.2	1.1	0.19	0.83	7.34
5 to 9	2,701	0.33	439.4	2.1	0.26	0.78	14.00
10 to 19	2,439	0.19	200.2	1.9	0.15	0.80	11.72
20 to 49	8,897	0.35	287.1	6.1	0.24	0.69	19.27
50 to 99	10,660	0.15	167.9	7.4	0.11	0.69	19.08
100 or More	18,098	0.07	39.1	10.9	0.04	0.60	18.37
Weekly Operating Hours							
39 or Fewer	2,181	0.23	303.3	1.7	0.18	0.78	13.21
40 to 48	3,343	0.20	127.3	2.4	0.14	0.71	13.64
49 to 60	2,137	0.11	69.3	1.7	0.09	0.78	9.65
61 to 84	3,886	0.13	99.3	2.9	0.09	0.73	13.94
85 to 167	6,655	0.16	157.9	4.8	0.12	0.72	19.34
Open Continuously	7,899	0.11	76.8	4.8	0.07	0.61	24.42
Ownership and Occupancy							
Nongovernment Owned	2,547	0.13	94.4	1.9	0.10	0.76	9.92
Owner Occupied	2,623	0.14	102.7	2.0	0.11	0.76	10.63
Single Establishment	2,272	0.17	133.5	1.8	0.13	0.79	10.83
Multiple Establishment	5,311	0.10	58.4	3.5	0.06	0.66	25.89
Nonowner Occupied	2,194	0.09	56.4	1.7	0.07	0.76	19.64
Single Establishment	1,114	0.07	53.9	0.9	0.06	0.80	23.79
Multiple Establishment	4,047	0.10	57.6	3.0	0.07	0.74	30.34
Vacant	Q	Q	Q	Q	Q	Q	NF
Government Owned	9,602	0.19	144.4	6.2	0.12	0.64	14.91
Predominant Exterior Wall Material							
Masonry	4,320	0.17	141.9	3.0	0.12	0.70	10.15
Siding or Shingles	1,389	0.25	187.5	1.1	0.21	0.83	10.70
Metal Panels	2,223	0.15	149.1	1.8	0.12	0.80	26.41
Concrete Panels	Q	Q	Q	Q	Q	0.65	17.21
Window Glass	Q	0.05	21.6	Q	0.04	0.73	28.97
Other	1,738	Q	Q	1.5	Q	0.84	27.79
Predominant Roof Material							
Built-Up	4,425	0.13	89.7	3.2	0.09	0.72	14.63
Shingles (Not Wood)	1,898	0.21	200.5	1.5	0.17	0.78	8.25
Metal Surfacing	1,661	0.21	246.0	1.3	0.17	0.79	15.49
Synthetic or Rubber	7,300	0.14	95.0	5.0	0.10	0.68	17.47
Other	4,032	0.12	98.9	2.5	0.08	0.62	24.17

See footnotes at end of table.

Table 3.42. Fuel Oil Consumption and Expenditure Intensities, 1992 (Continued)

Building Characteristics	Fuel Oil Consumption			Fuel Oil Expenditures			RSE Row Factor
	per Building (gallons)	per Square Foot (kWh)	per Worker (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)	
	1.3	1.3	1.5	1.2	1.3	0.3	
Space-Heating Energy Source							
Fuel Oil	3,926	0.26	228.2	2.8	0.18	0.71	8.26
Fuel Oil Main	4,260	0.38	338.3	3.1	0.28	0.72	6.85
Fuel Oil Secondary	2,367	0.07	61.2	1.5	0.04	0.63	22.52
Other Excluding Fuel Oil	966	0.01	7.7	0.8	0.01	0.82	23.64
Building Not Heated	Q	Q	Q	Q	Q	Q	NF
Main Space-Heating Energy Source							
Electricity	1,010	0.02	13.2	0.8	0.02	0.78	23.61
Natural Gas	2,090	0.03	22.9	1.5	0.02	0.72	17.31
Fuel Oil	4,260	0.38	338.3	3.1	0.28	0.72	6.85
District Heat	Q	Q	Q	Q	Q	0.39	23.29
Propane	Q	Q	Q	Q	Q	Q	NF
Wood	Q	Q	Q	Q	Q	Q	NF
Any Other	Q	Q	Q	Q	Q	Q	NF
Replacement Energy Source for Main Heating							
Electricity Only	Q	Q	Q	Q	Q	Q	NF
Natural Gas Only	6,261	0.39	390.0	4.2	0.26	0.67	18.78
Fuel Oil Only	2,344	0.04	32.6	1.5	0.03	0.66	21.46
Propane Only	2,297	0.27	202.3	1.8	0.21	0.80	15.15
Any Other Single Energy Source	Q	Q	Q	Q	Q	Q	NF
More than One Energy Source	Q	Q	Q	Q	Q	Q	NF
No Replacement Energy Source	3,748	0.16	104.8	2.7	0.11	0.72	9.89
Building Not Heated	Q	Q	Q	Q	Q	Q	NF
Cooling Energy Source							
Fuel Oil	Q	Q	Q	Q	Q	Q	NF
Other Excluding Fuel Oil	4,081	0.13	90.8	2.9	0.09	0.71	9.91
A/C Not Performed	2,152	0.34	402.6	1.6	0.26	0.76	9.29
Water-Heating Energy Source							
Fuel Oil	7,923	0.40	327.3	5.4	0.28	0.69	10.68
Other Excluding Fuel Oil	2,626	0.08	55.1	1.9	0.06	0.73	10.99
Water Heating Not Performed	1,207	0.25	457.3	1.0	0.21	0.83	11.32
Cooking Energy Source							
Fuel Oil	Q	Q	Q	Q	Q	Q	NF
Other Excluding Fuel Oil	7,052	0.10	64.2	4.7	0.06	0.67	10.65
Cooking Not Performed	2,565	0.20	170.5	1.9	0.15	0.75	11.06
Manufacturing Energy Source							
Fuel Oil	Q	Q	Q	Q	Q	Q	NF
Other Excluding Fuel Oil	0	0.22	226.7	7.0	0.14	0.63	29.97
Manufacturing Not Performed	3,234	0.14	100.6	2.3	0.10	0.72	8.15
Percent of Floorspace Heated							
Not Heated	Q	Q	Q	Q	Q	Q	NF
1 to 50	2,074	0.13	165.8	1.5	0.10	0.74	28.30
51 to 99	3,614	0.11	87.4	2.5	0.08	0.69	14.43
100	3,846	0.17	110.0	2.8	0.12	0.72	9.37
Heating Equipment (more than one may apply)							
Heat Pumps	5,214	0.09	54.8	3.6	0.06	0.68	23.94
Furnaces	1,613	0.19	180.2	1.3	0.16	0.82	10.95
Individual Space Heaters	2,817	0.11	78.4	2.1	0.08	0.74	13.09
District Heat	Q	Q	Q	Q	0.02	0.42	38.59
Boilers	6,654	0.19	135.7	4.6	0.13	0.70	9.66
Packaged Heating Units	4,374	0.07	43.1	2.9	0.04	0.67	22.76
Other	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table 3.42. Fuel Oil Consumption and Expenditure Intensities, 1992 (Continued)

Building Characteristics	Fuel Oil Consumption			Fuel Oil Expenditures			RSE Row Factor
	per Building (gallons)	per Square Foot (kWh)	per Worker (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)	
RSE Column Factor:	1.3	1.3	1.5	1.2	1.3	0.3	
Energy Conservation Features (more than one may apply)							
Any Conservation Features	3,596	0.15	108.1	2.6	0.11	0.72	8.63
Building Shell	3,545	0.14	104.3	2.5	0.10	0.71	8.91
HVAC	4,333	0.14	99.2	3.1	0.10	0.71	9.10
Lighting	4,540	0.10	64.7	3.2	0.07	0.71	12.26
Other	6,065	0.19	149.2	4.0	0.12	0.65	27.19
Energy Management Practices (more than one may apply)							
Energy Management and Control System	11,293	0.08	41.1	7.2	0.05	0.63	17.84
Demand-Side Management ¹ Participation	7,692	0.12	69.9	5.0	0.08	0.65	15.83
Energy Audit	6,451	0.12	68.4	4.5	0.08	0.69	14.24
Building Energy Manager	Q	0.05	Q	Q	0.03	0.64	37.93
Annual Consumption (gallons)							
1,000 or less	390	0.02	12.0	0.4	0.02	0.93	10.62
1,001 to 5,000	2,139	0.17	140.3	1.8	0.14	0.86	7.62
5,001 to 10,000	7,047	0.18	129.7	5.3	0.13	0.75	9.80
10,001 to 25,000	15,529	0.33	205.0	10.9	0.23	0.70	8.91
Over 25,000	67,746	0.44	349.3	41.1	0.26	0.61	12.77

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 3.47. District Heat Consumption and Expenditure Intensities, 1992

Building Characteristics	District Heat Consumption			District Heat Expenditures			RSE Row Factor
	per Building (thousand pounds)	per Square Foot (pounds)	per Worker (thousand pounds)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pound (dollars)	
RSE Column Factor:	1.2	1.0	1.2	1.2	1.0	0.6	
All Buildings	4,596	82.90	60.9	30.7	0.55	6.67	14.29
Building Floorspace (square feet)							
1,001 to 5,000	Q	Q	Q	Q	Q	Q	NF
5,001 to 10,000	Q	Q	Q	Q	Q	Q	NF
10,001 to 25,000	2,289	144.13	118.7	11.8	0.75	5.18	32.45
25,001 to 50,000	Q	Q	Q	Q	Q	6.11	17.85
50,001 to 100,000	5,264	77.84	72.7	37.4	0.55	7.11	19.42
100,001 to 200,000	9,363	75.86	52.3	71.4	0.58	7.62	22.65
200,001 to 500,000	23,107	71.30	62.7	159.7	0.49	6.91	19.42
Over 500,000	52,815	59.50	30.5	365.7	0.41	6.92	18.88
Principal Building Activity							
Education	2,339	71.84	77.3	14.9	0.46	6.38	18.80
Food Sales	Q	Q	Q	Q	Q	Q	NF
Food Service	Q	Q	Q	Q	Q	Q	NF
Health Care	24,221	136.02	69.2	152.9	0.86	6.31	19.66
Lodging	7,232	112.88	308.0	46.4	0.72	6.42	27.30
Mercantile and Service	Q	Q	Q	Q	Q	Q	NF
Office	4,579	63.60	24.6	30.6	0.43	6.69	23.85
Parking Garage	Q	Q	Q	Q	Q	Q	NF
Public Assembly	2,202	64.89	63.9	16.0	0.47	7.27	22.01
Public Order and Safety	Q	Q	Q	Q	Q	Q	NF
Religious Worship	Q	Q	Q	Q	Q	Q	NF
Warehouse and Storage	Q	Q	Q	Q	Q	Q	NF
Other	Q	Q	Q	Q	Q	Q	NF
Vacant	Q	Q	Q	Q	Q	Q	NF
Year Constructed							
1899 or Before	Q	Q	Q	Q	Q	Q	NF
1900 to 1919	Q	Q	Q	Q	Q	Q	NF
1920 to 1945	6,447	77.53	72.5	43.0	0.52	6.67	21.29
1946 to 1959	2,393	95.00	62.8	15.4	0.61	6.44	38.18
1960 to 1969	5,421	85.50	50.2	33.5	0.53	6.18	20.92
1970 to 1979	6,047	56.74	46.5	39.6	0.37	6.55	20.67
1980 to 1989	Q	Q	Q	Q	0.83	6.91	34.75
1990 to 1992	Q	Q	Q	Q	Q	Q	NF
Census Region and Division							
Northeast	5,332	78.92	45.0	42.1	0.62	7.90	16.73
New England	Q	77.13	74.3	Q	0.53	6.88	26.01
Middle Atlantic	5,230	79.57	39.6	43.2	0.66	8.26	17.58
Midwest	7,728	97.01	97.5	45.2	0.57	5.85	21.69
East North Central	10,091	104.27	89.2	56.6	0.58	5.61	22.90
West North Central	5,923	88.96	110.8	Q	0.55	6.16	34.99
South	2,895	Q	77.5	18.2	Q	6.28	27.56
South Atlantic	Q	79.21	60.7	Q	0.65	8.18	36.95
East South Central	Q	Q	Q	Q	Q	Q	NF
West South Central	Q	Q	Q	Q	Q	Q	NF
West	2,432	55.57	33.3	17.7	Q	7.26	34.91
Mountain	Q	Q	Q	Q	Q	Q	NF
Pacific	2,305	Q	Q	15.2	Q	6.58	26.84
Climate Zone: 45-Year Average							
Fewer than 2,000 CDD and --							
More than 7,000 HDD	4,860	94.62	84.5	22.9	0.45	4.72	27.43
5,500-7,000 HDD	6,140	92.03	75.0	39.5	0.59	6.43	19.86
4,000-5,499 HDD	4,491	71.58	41.3	36.5	0.58	8.13	23.66
Fewer than 4,000 HDD	2,921	62.97	46.2	21.1	0.45	7.22	32.33
More than 2,000 CDD and --							
Fewer than 4,000 HDD	Q	Q	110.9	Q	Q	5.46	12.69

See footnotes at end of table.

Table 3.47. District Heat Consumption and Expenditure Intensities, 1992 (Continued)

Building Characteristics	District Heat Consumption			District Heat Expenditures			RSE Row Factor
	per Building (thousand pounds)	per Square Foot (pounds)	per Worker (thousand pounds)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pound (dollars)	
	1.2	1.0	1.2	1.2	1.0	0.6	
Energy Sources (more than one may apply)							
Electricity	4,596	82.90	60.9	30.7	0.55	6.67	14.96
Natural Gas	5,955	79.34	60.5	45.1	0.60	7.57	17.00
Fuel Oil	9,105	79.02	43.5	64.7	0.56	7.10	22.83
District Heat	4,596	82.90	60.9	30.7	0.55	6.67	14.29
District Chilled Water	5,211	77.16	53.7	33.6	0.50	6.45	20.39
Propane Q	Q	Q	Q	Q	Q	Q	NF
Any Other Q	Q	Q	Q	Q	Q	Q	NF
Energy End Uses (more than one may apply)							
Heated Buildings	4,610	83.13	61.0	30.8	0.55	6.67	14.29
Buildings with A/C	4,707	81.12	55.7	31.2	0.54	6.64	15.83
Buildings with Water Heating	5,173	82.53	60.7	34.7	0.55	6.70	14.58
Buildings with Cooking	9,085	74.16	40.0	67.7	0.55	7.45	15.58
Buildings with Manufacturing	Q	Q	Q	Q	Q	Q	NF
Workers (main shift)							
Less than 5	1,202	Q	Q	Q	Q	Q	39.29
5 to 9	Q	Q	Q	Q	Q	4.24	15.96
10 to 19	1,845	82.05	145.4	14.9	0.66	8.07	27.28
20 to 49	4,035	129.33	130.3	26.7	0.86	6.62	27.33
50 to 99	4,457	61.59	65.5	23.6	0.33	5.29	25.25
100 or More	19,387	72.57	36.6	142.2	0.53	7.33	14.01
Weekly Operating Hours							
39 or Fewer	Q	Q	Q	Q	Q	Q	NF
40 to 48	2,127	88.76	48.3	12.2	0.51	5.76	28.93
49 to 60	Q	Q	Q	23.6	0.38	6.17	33.46
61 to 84	4,977	60.60	46.8	30.4	0.37	6.11	19.27
85 to 167	5,368	77.96	80.5	37.5	0.54	6.99	15.15
Open Continuously	11,116	111.38	114.5	79.3	0.79	7.14	15.77
Ownership and Occupancy							
Nongovernment Owned	5,542	86.00	59.5	35.6	0.55	6.43	20.28
Owner Occupied	6,459	90.11	66.3	39.6	0.55	6.13	21.75
Single Establishment	6,310	105.25	94.8	36.8	0.61	5.83	25.62
Multiple Establishment	7,684	45.66	21.9	63.1	0.37	8.21	28.58
Nonowner Occupied	2,194	56.54	27.4	21.4	0.55	9.74	25.81
Single Establishment	Q	Q	Q	Q	Q	Q	NF
Multiple Establishment	Q	Q	Q	Q	Q	Q	NF
Vacant Q	Q	Q	Q	Q	Q	Q	NF
Government Owned	3,785	79.31	62.7	26.4	0.55	6.97	14.30
Predominant Exterior Wall Material							
Masonry	4,053	82.33	70.9	26.7	0.54	6.60	13.69
Siding or Shingles	Q	Q	Q	Q	Q	Q	NF
Metal Panels	Q	Q	Q	Q	Q	Q	NF
Concrete Panels	8,038	81.37	53.2	61.6	0.62	7.67	26.36
Window Glass	15,981	46.37	23.0	101.5	0.29	6.35	14.12
Other Q	Q	Q	Q	Q	Q	Q	NF
Predominant Roof Material							
Built-Up	4,991	82.83	48.7	35.5	0.59	7.12	16.26
Shingles (Not Wood)	3,856	86.44	110.2	19.4	0.43	5.02	35.77
Metal Surfacing	Q	Q	Q	Q	Q	Q	NF
Synthetic or Rubber	7,688	73.96	64.6	52.0	0.50	6.77	18.80
Other Q	Q	77.81	79.4	Q	0.57	7.29	24.56

See footnotes at end of table.

Table 3.47. District Heat Consumption and Expenditure Intensities, 1992 (Continued)

Building Characteristics	District Heat Consumption			District Heat Expenditures			RSE Row Factor
	per Building (thousand pounds)	per Square Foot (pounds)	per Worker (thousand pounds)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pound (dollars)	
RSE Column Factor:	1.2	1.0	1.2	1.2	1.0	0.6	
Space-Heating Energy Source							
District Heat	4,422	78.71	57.7	30.4	0.54	6.88	13.26
District Heat Main	4,425	82.71	59.3	30.4	0.57	6.88	12.54
District Heat Secondary	4,646	43.43	Q	31.2	Q	6.71	41.71
Other Excluding District Heat	Q	Q	Q	Q	Q	Q	NF
Building Not Heated	Q	Q	Q	Q	Q	Q	NF
Main Space-Heating Energy Source							
Electricity	Q	Q	Q	Q	Q	Q	NF
Natural Gas	Q	Q	Q	Q	Q	Q	NF
Fuel Oil	Q	Q	Q	Q	Q	Q	NF
District Heat	4,425	82.71	59.3	30.4	0.57	6.88	12.54
Propane	Q	Q	Q	Q	Q	Q	NF
Wood	Q	Q	Q	Q	Q	Q	NF
Any Other	Q	Q	Q	Q	Q	Q	NF
Cooling Energy Source							
District Heat	39,518	85.21	24.8	380.4	0.82	9.63	14.17
Other Excluding District Heat	4,511	80.93	59.3	29.3	0.53	6.49	16.67
A/C Not Performed	3,927	98.47	188.4	27.3	0.68	6.94	22.13
Water-Heating Energy Source							
District Heat	8,255	90.95	61.2	52.7	0.58	6.39	14.42
Other Excluding District Heat	2,692	67.18	59.5	20.1	0.50	7.47	25.18
Water Heating Not Performed	Q	Q	Q	Q	Q	Q	NF
Cooking Energy Source							
District Heat	11,503	88.10	46.4	88.9	0.68	7.73	22.06
Other Excluding District Heat	7,879	66.50	36.4	57.1	0.48	7.25	21.08
Cooking Not Performed	3,496	89.62	91.1	21.6	0.55	6.18	20.44
Manufacturing Energy Source							
District Heat	Q	Q	Q	Q	Q	Q	NF
Other Excluding District Heat	Q	Q	Q	Q	Q	Q	NF
Manufacturing Not Performed	4,356	79.49	56.5	29.8	0.54	6.84	13.70
Percent of Floorspace Heated							
Not Heated	Q	Q	Q	Q	Q	Q	NF
1 to 50	Q	Q	Q	Q	Q	Q	NF
51 to 99	Q	56.93	31.6	Q	0.42	7.31	30.67
100	4,645	92.05	68.1	30.7	0.61	6.61	15.44
Heating Equipment (more than one may apply)							
Heat Pumps	Q	82.74	43.3	Q	0.71	8.56	21.53
Furnaces	Q	Q	Q	Q	Q	Q	NF
Individual Space Heaters	6,459	87.26	60.6	40.5	0.55	6.27	32.35
District Heat	4,371	79.03	57.8	29.9	0.54	6.85	13.10
Boilers	Q	Q	Q	Q	Q	Q	NF
Packaged Heating Units	Q	93.59	52.1	Q	0.80	8.58	21.68
Other	Q	Q	Q	Q	Q	Q	NF

See footnotes at end of table.

Table 3.47. District Heat Consumption and Expenditure Intensities, 1992 (Continued)

Building Characteristics	District Heat Consumption			District Heat Expenditures			RSE Row Factor
	per Building (thousand pounds)	per Square Foot (pounds)	per Worker (thousand pounds)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pound (dollars)	
	1.2	1.0	1.2	1.2	1.0	0.6	
Energy Conservation Features (more than one may apply)							
Any Conservation Features	4,620	83.06	60.8	30.8	0.55	6.67	14.38
Building Shell	4,723	84.10	60.1	31.4	0.56	6.65	14.40
HVAC	4,830	81.85	59.5	32.5	0.55	6.72	14.27
Lighting	4,983	81.88	46.1	34.1	0.56	6.85	14.75
Other	Q	71.85	54.8	Q	0.52	7.28	21.25
Energy Management Practices (more than one may apply)							
Energy Management and Control System	7,647	77.45	42.7	47.2	0.48	6.17	18.72
Demand-Side Management ¹ Participation	5,451	102.19	62.5	32.9	0.62	6.04	19.83
Energy Audit	5,364	80.11	49.7	36.1	0.54	6.72	19.25
Building Energy Manager	8,579	59.02	59.0	41.8	0.29	4.87	22.40

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.