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)	
RSE Column Factor:	1.4	1.0	1.1	25th Percentile	Median	75th Percentile	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)	
RSE Column Factor:	1.4	1.0	1.1	25th Percentile	Median	75th Percentile	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)	
RSE Column Factor:	1.4	1.0	1.1	25th Percentile	Median	75th Percentile	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)	
RSE Column Factor:	1.4	1.0	1.1	25th Percentile	Median	75th Percentile	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)	
RSE Column Factor:	1.2	1.2	1.3	25th Percentile	Median	75th Percentile	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)	
RSE Column Factor:	1.2	1.2	1.3	25th Percentile	Median	75th Percentile	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)	
RSE Column Factor:	1.2	1.2	1.3	25th Percentile	Median	75th Percentile	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)	
RSE Column Factor:	1.2	1.2	1.3	25th Percentile	Median	75th Percentile	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.