

Table C22. Fuel Oil Consumption and Expenditure Intensities, 1999

	Fuel Oil Consumption			Fuel Oil Expenditures		
	per Building (gallons)	per Square Foot (gallons)	per Worker (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)
All Buildings	2,983	0.10	66.1	2.2	0.07	0.74
Building Floorspace						
(Square Feet)						
1,001 to 5,000	956	0.34	190.7	0.9	0.32	0.94
5,001 to 10,000	1,584	0.20	131.7	1.3	0.16	0.81
10,001 to 25,000	2,736	0.18	210.2	2.2	0.15	0.82
25,001 to 50,000	6,559	0.19	159.7	4.7	0.13	0.72
50,001 to 100,000	8,095	0.11	66.7	5.3	0.07	0.65
100,001 to 200,000	10,782	0.07	55.9	6.7	0.05	0.62
200,001 to 500,000	19,069	0.06	35.1	12.7	0.04	0.67
Over 500,000	29,742	0.03	21.1	17.8	0.02	0.60
Principal Building Activity						
Education	18,341	0.21	245.5	11.0	0.13	0.60
Food Sales	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	Q	Q	Q	Q
Health Care	10,153	0.08	41.7	6.4	0.05	0.63
Inpatient	14,566	0.08	42.3	Q	0.05	0.62
Outpatient	Q	Q	Q	Q	Q	Q
Lodging	4,820	Q	73.5	3.6	0.03	0.75
Mercantile	1,398	0.09	Q	1.2	0.08	0.89
Retail (Other Than Mall)	1,258	0.17	184.5	1.1	0.15	0.88
Enclosed and Strip Malls	Q	Q	Q	2.1	Q	Q
Office	2,418	0.05	21.6	1.9	0.04	0.79
Public Assembly	3,730	0.10	Q	2.8	0.08	0.75
Public Order and Safety	2,335	Q	65.9	Q	Q	Q
Religious Worship	Q	Q	Q	Q	Q	Q
Service	1,610	0.20	Q	1.3	0.16	0.80
Warehouse and Storage	Q	0.06	Q	Q	0.05	0.91
Other	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q
Year Constructed						
1919 or Before	3,585	0.26	185.7	2.8	0.20	0.78
1920 to 1945	2,915	0.15	160.0	2.2	0.11	0.75
1946 to 1959	2,170	0.13	88.5	1.7	0.10	0.78
1960 to 1969	3,965	0.11	74.9	2.8	0.08	0.72
1970 to 1979	5,623	0.08	64.3	3.6	0.05	0.64
1980 to 1989	2,137	0.05	30.2	1.6	0.04	0.75
1990 to 1999	Q	0.04	28.7	Q	0.03	0.79
Census Region and Division						
Northeast	4,555	0.18	143.9	3.2	0.13	0.71
New England	5,823	0.23	236.5	4.0	0.16	0.69
Middle Atlantic	3,663	0.15	100.1	2.7	0.11	0.73
Midwest	713	0.01	8.9	0.6	0.01	0.79
East North Central	586	Q	Q	0.5	Q	0.79
West North Central	Q	0.02	Q	Q	0.01	0.79
South	1,525	0.06	34.4	1.3	0.05	0.86
South Atlantic	1,889	0.08	43.2	1.6	0.06	0.85
East South Central	1,719	Q	Q	1.5	Q	0.87
West South Central	Q	0.01	4.0	Q	0.01	1.17
West	1,897	0.03	Q	1.5	0.03	0.80
Mountain	Q	0.03	15.4	Q	0.02	0.82
Pacific	Q	Q	Q	1.8	Q	0.79

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	per Building (gallons)	per Square Foot (gallons)	per Worker (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)
Climate Zone: 45-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	3,998	0.18	179.4	2.8	0.13	0.71
5,500-7,000 HDD	3,624	0.12	82.5	2.6	0.08	0.72
4,000-5,499 HDD	2,694	0.11	66.9	2.0	0.08	0.74
Fewer than 4,000 HDD	Q	Q	Q	Q	Q	1.04
2,000 CDD or More and --						
Fewer than 4,000 HDD	Q	0.01	6.5	Q	0.01	1.05
Workers (main shift)						
Fewer than 5	804	0.15	370.4	0.7	0.14	0.90
5 to 9	1,759	0.21	273.7	1.6	0.19	0.88
10 to 19	2,602	0.21	212.3	2.1	0.17	0.82
20 to 49	3,838	0.16	130.5	2.9	0.12	0.74
50 to 99	14,300	0.15	220.7	9.1	0.10	0.63
100 to 249	10,675	0.08	73.1	6.6	0.05	0.62
250 or More	13,580	0.04	15.9	9.2	0.02	0.68
Weekly Operating Hours						
39 or Fewer	Q	Q	118.3	Q	0.14	0.86
40 to 48	2,457	0.16	123.0	1.8	0.12	0.73
49 to 60	2,799	0.12	81.7	2.2	0.09	0.80
61 to 84	3,568	0.09	65.7	2.6	0.07	0.73
85 to 167	6,912	0.13	111.1	4.6	0.09	0.67
Open Continuously	3,537	0.05	29.3	2.5	0.03	0.69
Ownership and Occupancy						
Nongovernment Owned	2,267	0.09	57.1	1.8	0.07	0.79
Owner Occupied	2,435	0.09	59.5	1.9	0.07	0.78
Nonowner Occupied	1,573	0.07	45.0	1.3	0.06	0.86
Unoccupied	Q	Q	N	Q	Q	Q
Government Owned	8,739	0.12	98.7	5.5	0.08	0.63
Federal	5,740	0.03	14.2	4.4	0.02	0.76
State	7,232	0.06	60.2	4.6	0.04	0.63
Local	9,296	0.19	182.2	5.7	0.12	0.62
Vacancy Status						
Completely Vacant	N	N	N	N	N	N
Mostly Vacant	Q	Q	Q	Q	Q	Q
Partially Vacant	3,438	0.05	34.1	2.5	0.04	0.73
Not At All Vacant	2,963	0.12	77.3	2.2	0.09	0.74
Number of Establishments						
One	2,844	0.12	82.9	2.1	0.09	0.74
2 to 5	2,612	0.10	93.9	1.9	0.08	0.74
6 to 10	4,116	0.04	Q	3.3	0.04	0.81
11 to 20	13,591	0.09	47.7	9.0	0.06	0.66
More than 20	5,139	0.02	8.9	4.3	0.01	0.83
Currently Unoccupied	Q	Q	N	Q	Q	Q
Energy Sources (more than one may apply)						
Electricity	2,980	0.10	66.0	2.2	0.07	0.74
Natural Gas	4,675	0.05	35.0	3.3	0.04	0.70
Fuel Oil	2,983	0.10	66.1	2.2	0.07	0.74
District Heat	Q	Q	Q	3.0	0.01	0.68
District Chilled Water	Q	Q	Q	Q	Q	0.67
Propane	4,538	0.16	149.5	3.4	0.12	0.74
Other	Q	0.12	133.0	Q	0.10	0.86

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	per Building (gallons)	per Square Foot (gallons)	per Worker (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)
Space-Heating Energy Source						
Fuel Oil	3,299	0.22	189.9	2.4	0.16	0.73
Fuel Oil Main	3,649	0.30	259.6	2.7	0.22	0.73
Fuel Oil Secondary	1,875	0.07	60.7	1.4	0.06	0.77
Other Excluding Fuel Oil	899	0.01	3.9	0.8	0.01	0.89
Buildings without Heating	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source						
Electricity	1,163	0.03	14.9	1.0	0.02	0.90
Natural Gas	1,772	0.02	13.9	1.3	0.01	0.74
Fuel Oil	3,649	0.30	259.6	2.7	0.22	0.73
District Heat	1,250	0.01	2.5	1.1	0.00	0.85
Propane	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q
Cooling Energy Source						
Fuel Oil	Q	Q	Q	Q	Q	Q
Other Excluding Fuel Oil	3,338	0.08	55.3	2.4	0.06	0.73
Buildings without Cooling	1,880	0.23	210.4	1.5	0.18	0.80
Water-Heating Energy Source						
Fuel Oil	6,080	0.30	229.3	4.1	0.20	0.68
Other Excluding Fuel Oil	2,846	0.05	33.7	2.2	0.04	0.78
Buildings without Water Heating	831	0.08	73.3	0.7	0.07	0.88
Cooking Energy Source						
Fuel Oil	Q	Q	Q	Q	Q	Q
Other Excluding Fuel Oil	6,578	0.08	53.8	4.4	0.05	0.66
Buildings without Cooking	1,981	0.12	82.3	1.6	0.10	0.81
Energy End Uses (more than one may apply)						
Buildings with Space Heating	2,991	0.10	66.7	2.2	0.07	0.74
Buildings with Cooling	3,465	0.09	56.9	2.5	0.06	0.72
Buildings with Water Heating	4,078	0.10	65.4	3.0	0.07	0.72
Buildings with Cooking	6,695	0.08	54.4	4.4	0.05	0.66
Buildings with Manufacturing	1,423	0.09	63.8	1.1	0.07	0.78
Buildings with Electricity Generation	4,584	0.04	23.0	3.2	0.03	0.71
Percent of Floorspace Heated						
Not Heated	Q	Q	Q	Q	Q	Q
1 to 50	1,054	0.06	79.0	0.8	0.04	0.76
51 to 99	2,504	0.06	35.1	2.1	0.05	0.84
100	3,469	0.12	75.2	2.5	0.08	0.72
Heating Equipment (more than one may apply)						
Heat Pumps	1,702	0.03	18.2	1.3	0.02	0.77
Furnaces	1,382	0.11	105.2	1.2	0.10	0.89
Individual Space Heaters	1,987	0.05	37.0	1.5	0.04	0.74
District Heat	Q	Q	Q	Q	Q	0.68
Boilers	5,997	0.14	98.5	4.1	0.09	0.69
Packaged Heating Units	4,520	0.04	33.3	3.3	0.03	0.73
Other	1,634	0.04	20.2	1.2	0.03	0.74
Water Heating Equipment						
Centralized System	3,805	0.13	89.2	2.8	0.10	0.73
Distributed System	3,905	0.08	53.3	3.0	0.06	0.77
Combination of Centralized and Distributed System	7,014	0.05	29.6	4.6	0.03	0.66

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Annual Consumption (gallons)						
1,000 or Less	326	0.01	6.8	0.3	0.01	1.05
1,001 to 5,000	2,106	0.13	85.9	1.8	0.12	0.87
5,001 to 10,000	6,574	0.21	152.8	5.2	0.16	0.79
10,001 to 25,000	15,897	0.21	130.1	10.7	0.14	0.67
Over 25,000	64,440	0.31	260.5	39.7	0.19	0.62

Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled.

N=No responding cases in sample.

Notes: * Statistics for the "energy end uses" represent consumption in buildings that have the end use, not consumption for a particular fuel for a particular end use. * Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.