

Table C24. Fuel Oil Expenditures by Census Region, 1999

	Total Fuel Oil Expenditures (million dollars)				Fuel Oil Expenditures (dollars)							
					per Gallon				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	704	27	180	45	0.71	0.79	0.86	0.80	0.13	0.01	0.05	0.03
Building Floorspace (Square Feet)												
1,001 to 10,000	196	Q	75	Q	0.86	Q	0.98	Q	0.28	Q	0.20	Q
10,001 to 100,000	313	Q	Q	Q	0.73	0.76	0.74	0.75	0.18	Q	0.05	Q
Over 100,000	196	12	56	Q	0.59	0.75	0.82	0.72	0.07	0.01	0.02	0.01
Principal Building Activity												
Education	164	Q	Q	Q	0.60	Q	0.59	Q	0.18	Q	0.09	Q
Mercantile and Service	Q	Q	Q	Q	0.81	Q	0.93	Q	0.15	Q	Q	Q
Office	113	3	47	Q	0.74	0.94	0.93	0.88	0.09	0.00	0.04	0.01
Public Assembly	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Warehouse and Storage	28	Q	Q	Q	0.74	Q	Q	Q	0.06	Q	Q	Q
All Others	182	9	Q	Q	0.72	0.76	0.83	0.87	0.15	0.01	0.04	Q
Year Constructed												
1945 or Before	228	Q	Q	Q	0.74	Q	Q	Q	0.16	Q	Q	Q
1946 to 1959	130	Q	Q	Q	0.75	Q	Q	Q	0.13	Q	Q	Q
1960 to 1969	143	Q	34	Q	0.72	Q	0.73	Q	0.16	Q	0.05	Q
1970 to 1979	95	Q	Q	4	Q	0.66	0.71	0.93	0.11	Q	0.03	0.01
1980 to 1989	Q	Q	Q	Q	0.73	0.80	0.79	0.82	0.10	Q	Q	Q
1990 to 1999	34	Q	Q	Q	0.60	0.99	1.21	0.80	0.06	Q	Q	Q
Climate Zone: 45-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	196	Q	N	Q	0.70	0.83	N	Q	0.23	Q	N	Q
5,500-7,000 HDD	299	13	N	Q	0.72	0.73	N	0.80	0.13	0.01	N	Q
4,000-5,499 HDD	209	Q	125	Q	0.71	Q	0.79	0.75	0.09	Q	0.09	Q
Fewer than 4,000 HDD	N	N	Q	5	N	N	1.05	0.99	N	N	Q	0.01
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	13	Q	N	N	1.03	Q	N	N	0.01	Q
Workers (main shift)												
Less than 10.....	197	Q	58	Q	0.86	Q	0.99	Q	0.18	Q	0.15	Q
10 to 99.....	339	Q	Q	Q	0.71	0.73	0.81	0.61	0.20	0.02	0.07	0.03
100 or More.....	169	13	60	14	0.59	0.76	0.80	0.87	0.07	0.01	0.02	0.01
Weekly Operating Hours												
48 or fewer.....	164	Q	Q	Q	0.74	Q	0.81	Q	0.17	Q	0.11	Q
49 to 84.....	312	Q	80	Q	0.74	0.79	0.91	0.65	0.13	Q	0.06	Q
85 to 168.....	228	12	40	Q	0.65	0.77	0.83	0.88	0.11	0.01	0.02	Q
Ownership and Occupancy												
Nongovernment Owned												
Owner Occupied	507	17	148	21	0.75	0.86	0.94	0.84	0.13	0.01	0.05	0.02
Nonowner Occupied	432	16	125	19	0.74	0.85	0.93	0.83	0.13	0.01	0.05	0.02
Unoccupied	75	Q	Q	Q	Q	Q	0.98	Q	0.15	Q	Q	Q
Government Owned	Q	N	Q	N	Q	N	Q	N	Q	N	Q	N
Federal												
State	198	Q	Q	Q	0.61	0.69	0.61	0.77	0.12	Q	0.04	0.07
Local	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacancy Status												
Completely Vacant.....	169	Q	Q	Q	0.61	Q	0.58	Q	0.18	Q	0.05	Q
Mostly Vacant	N	N	N	N	N	N	N	N	N	N	N	N
Partially Vacant	Q	N	N	Q	Q	N	N	Q	Q	N	N	Q
Not At All Vacant	106	2	15	Q	0.71	0.88	0.96	0.66	0.08	0.00	0.01	Q
	594	25	165	Q	0.71	0.78	0.85	0.82	0.15	0.01	0.06	0.03

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	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Number of Establishments												
One	522	23	143	39	0.71	0.78	0.85	0.80	0.15	0.01	0.06	0.04
2 to 5	103	Q	Q	Q	0.70	Q	0.93	Q	0.14	Q	Q	Q
6 to 10	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	1	0.83	Q	0.84	0.96	0.03	Q	Q	0.00
Currently Unoccupied	Q	N	Q	N	Q	N	Q	N	Q	N	Q	N
Energy Sources (more than one may apply)												
Electricity	702	27	180	45	0.71	0.79	0.86	0.80	0.13	0.01	0.05	0.03
Natural Gas	194	17	70	Q	0.64	0.85	0.88	0.70	0.08	0.01	0.03	0.01
Fuel Oil	704	27	180	45	0.71	0.79	0.86	0.80	0.13	0.01	0.05	0.03
District Heat	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Chilled Water	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Propane	195	Q	Q	Q	0.71	Q	0.90	Q	0.18	Q	0.10	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Space-Heating Energy Source												
Fuel Oil	694	19	163	Q	0.71	0.73	0.85	0.75	0.19	0.03	0.14	0.13
Fuel Oil Main	621	Q	143	Q	0.70	Q	0.85	Q	0.22	Q	0.20	Q
Fuel Oil Secondary	73	12	20	Q	0.75	0.80	0.85	Q	0.09	0.02	0.05	Q
Other Excluding Fuel Oil	10	8	15	11	0.78	0.97	0.89	0.97	0.01	0.00	0.01	0.01
Buildings without Heating	N	N	Q	Q	N	N	Q	Q	N	N	Q	Q
Primary Space-Heating Energy Source												
Electricity	Q	Q	Q	Q	0.88	Q	0.95	0.90	Q	Q	0.01	Q
Natural Gas	31	16	16	7	0.63	0.85	0.81	1.02	0.03	0.01	0.01	0.01
Fuel Oil	621	Q	143	Q	0.70	Q	0.85	Q	0.22	Q	0.20	Q
District Heat	3	Q	Q	Q	0.89	Q	Q	Q	0.00	Q	Q	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	0.26
Other	Q	Q	N	N	Q	Q	N	N	Q	Q	N	N
Cooling Energy Source												
Fuel Oil	Q	Q	Q	N	Q	Q	Q	N	Q	Q	Q	N
Other Excluding Fuel Oil	530	23	159	Q	0.69	0.78	0.85	0.88	0.12	0.01	0.04	Q
Buildings without Cooling	150	Q	Q	Q	0.80	Q	Q	Q	0.19	Q	Q	Q
Water-Heating Energy Source												
Fuel Oil	386	Q	Q	Q	0.68	Q	0.73	Q	0.23	Q	0.14	Q
Other Excluding Fuel Oil	244	17	105	28	0.73	0.86	0.90	0.86	0.08	0.01	0.03	0.02
Buildings without Water Heating	74	Q	Q	Q	0.84	Q	0.95	Q	0.11	Q	0.08	Q
Cooking Energy Source												
Fuel Oil	Q	Q	Q	N	Q	Q	Q	N	Q	Q	Q	N
Other Excluding Fuel Oil	294	14	Q	Q	0.65	0.72	0.71	0.70	0.10	0.01	0.03	0.02
Buildings without Cooking	405	12	104	26	0.76	0.89	1.00	0.88	0.17	0.01	0.08	0.04
Energy End Uses (more than one may apply)												
Buildings with Space Heating	704	27	178	44	0.71	0.79	0.86	0.80	0.13	0.01	0.05	0.03
Buildings with Cooling	555	23	159	Q	0.69	0.78	0.85	0.88	0.12	0.01	0.04	Q
Buildings with Water Heating	630	26	152	42	0.70	0.77	0.84	0.78	0.13	0.01	0.04	0.03
Buildings with Cooking	299	15	Q	Q	0.65	0.72	0.71	0.70	0.10	0.01	0.03	0.02
Buildings with Manufacturing	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings with Electricity Generation	159	12	Q	Q	0.63	0.83	0.93	0.88	0.06	0.01	Q	Q

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Percent of Floorspace Heated												
Not Heated	N	N	Q	Q	N	N	Q	Q	N	N	Q	Q
1 to 50	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
51 to 99	69	Q	Q	Q	0.77	Q	0.96	0.89	0.09	Q	Q	Q
100	597	24	122	Q	0.70	0.75	0.82	0.77	0.14	0.01	0.05	0.04
Heating Equipment (more than one may apply)												
Heat Pumps	23	Q	Q	Q	0.63	Q	0.94	1.21	0.04	Q	Q	Q
Furnaces	136	Q	Q	Q	0.82	Q	1.14	Q	0.15	Q	Q	Q
Individual Space Heaters	Q	7	Q	Q	0.70	0.86	0.86	0.79	0.07	0.01	0.03	Q
District Heat	Q	Q	2	Q	0.66	Q	0.74	Q	Q	Q	0.00	Q
Boilers	554	20	107	23	0.68	0.72	0.76	0.71	0.16	0.01	0.07	0.02
Packaged Heating Units	84	4	Q	6	0.64	0.88	1.02	0.97	0.06	0.00	Q	0.01
Other	23	Q	Q	Q	0.68	Q	0.75	Q	0.06	Q	Q	Q
Water Heating Equipment												
Centralized System	450	17	132	Q	0.70	0.77	0.84	0.78	0.17	0.02	0.07	Q
Distributed System	Q	Q	Q	Q	0.75	Q	0.90	Q	0.11	Q	Q	Q
Combination of Centralized and Distributed System	86	7	7	7	0.64	0.76	0.81	0.73	0.07	0.01	0.01	0.01
Annual Consumption (gallons)												
1,000 or Less	43	7	23	7	0.99	1.24	1.11	1.13	0.02	0.00	0.01	0.01
1,001 to 5,000	186	6	71	18	0.85	0.87	0.94	0.90	0.17	0.02	0.10	0.07
5,001 to 10,000	121	Q	Q	Q	0.78	Q	Q	Q	0.25	Q	Q	Q
10,001 to 25,000	95	Q	Q	Q	0.69	Q	Q	Q	0.19	Q	Q	Q
Over 25,000	260	Q	Q	Q	0.59	Q	Q	Q	0.19	Q	Q	Q

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.