

Table C23. Fuel Oil Consumption and Conditional Energy Intensity by Census Region, 1999

	Total Fuel Oil Consumption (million gallons)				Total Floorspace of Buildings Using Fuel Oil (million square feet)				Fuel Oil Energy Intensity (gallons/square foot)			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	994	34	210	56	5,414	2,423	3,749	1,699	0.18	0.01	0.06	0.03
Building Floorspace (Square Feet)												
1,001 to 10,000	229	Q	77	Q	693	Q	366	Q	0.33	Q	0.21	Q
10,001 to 100,000	430	Q	Q	Q	1,758	526	930	363	0.24	Q	0.07	Q
Over 100,000	335	15	68	Q	2,963	1,815	2,452	1,273	0.11	0.01	0.03	Q
Principal Building Activity												
Education	273	Q	Q	Q	923	Q	301	Q	0.30	Q	0.16	Q
Mercantile and Service	Q	Q	Q	Q	1,065	Q	556	Q	0.18	Q	Q	Q
Office	154	4	51	Q	1,271	749	1,310	584	0.12	0.00	0.04	0.01
Public Assembly	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Warehouse and Storage	38	Q	Q	Q	489	Q	Q	Q	0.08	Q	Q	Q
All Others	255	11	Q	Q	1,229	622	1,227	654	0.21	0.02	0.04	Q
Year Constructed												
1945 or Before	306	Q	Q	Q	1,404	Q	Q	Q	0.22	Q	Q	Q
1946 to 1959	173	Q	Q	Q	969	Q	Q	Q	0.18	Q	Q	Q
1960 to 1969	199	Q	47	Q	877	Q	723	343	0.23	Q	0.06	Q
1970 to 1979	155	Q	Q	4	835	393	795	422	0.19	Q	0.04	0.01
1980 to 1989	104	Q	Q	Q	790	619	1,068	318	0.13	Q	Q	Q
1990 to 1999	57	Q	Q	Q	538	427	763	380	0.11	Q	Q	Q
Climate Zone: 45-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	280	Q	N	Q	843	714	N	Q	0.33	0.02	N	Q
5,500-7,000 HDD	418	Q	N	Q	2,289	1,228	N	256	0.18	Q	N	Q
4,000-5,499 HDD	296	Q	158	Q	2,282	480	1,357	412	0.13	Q	0.12	0.10
Fewer than 4,000 HDD	N	N	Q	5	N	N	1,139	764	N	N	Q	0.01
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	12	Q	N	N	1,253	Q	N	N	0.01	Q
Workers (main shift)												
Less than 10.....	228	Q	59	Q	1,085	Q	387	Q	0.21	Q	0.15	Q
10 to 99.....	480	Q	Q	Q	1,736	567	935	326	0.28	Q	0.08	0.06
100 or More.....	286	17	75	16	2,593	1,663	2,428	1,278	0.11	0.01	0.03	0.01
Weekly Operating Hours												
48 or fewer.....	222	Q	Q	Q	988	Q	549	Q	0.22	Q	0.14	Q
49 to 84.....	421	Q	88	Q	2,379	825	1,385	550	0.18	Q	0.06	Q
85 to 168.....	350	16	48	Q	2,047	1,250	1,816	991	0.17	0.01	0.03	Q
Ownership and Occupancy												
Nongovernment Owned	672	20	158	25	3,789	1,842	2,926	1,336	0.18	0.01	0.05	0.02
Owner Occupied	581	19	134	22	3,284	1,499	2,350	1,152	0.18	0.01	0.06	0.02
Nonowner Occupied	91	Q	Q	Q	503	Q	576	Q	0.18	Q	Q	Q
Unoccupied	Q	N	Q	N	Q	N	Q	N	Q	N	Q	N
Government Owned	322	Q	Q	Q	1,625	581	823	363	0.20	Q	0.06	Q
Federal	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
State	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Local	278	Q	Q	Q	954	Q	480	Q	0.29	Q	0.09	Q
Vacancy Status												
Completely Vacant.....	N	N	N	N	N	N	N	N	N	N	N	N
Mostly Vacant	Q	N	N	Q	Q	N	N	Q	Q	N	N	Q
Partially Vacant	150	3	15	Q	1,273	541	1,159	555	0.12	0.00	0.01	Q
Not At All Vacant	838	32	195	49	4,029	1,881	2,590	1,138	0.21	0.02	0.08	0.04

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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	737	29	169	49	3,512	1,621	2,211	982	0.21	0.02	0.08	0.05
2 to 5	148	Q	Q	Q	715	Q	545	224	0.21	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	691	Q	578	317	0.04	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	991	34	210	56	5,406	2,423	3,749	1,699	0.18	0.01	0.06	0.03
Natural Gas	303	20	79	Q	2,569	1,945	2,269	1,306	0.12	0.01	0.03	Q
Fuel Oil	994	34	210	56	5,414	2,423	3,749	1,699	0.18	0.01	0.06	0.03
District Heat	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Chilled Water	Q	Q	1	Q	Q	Q	276	Q	Q	Q	0.00	Q
Propane	276	Q	Q	Q	1,076	Q	604	Q	0.26	Q	0.12	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Space-Heating Energy Source												
Fuel Oil	980	26	191	Q	3,612	619	1,128	252	0.27	0.04	0.17	0.18
Fuel Oil Main	882	Q	167	Q	2,803	Q	718	Q	0.31	Q	0.23	Q
Fuel Oil Secondary	98	15	23	Q	809	579	410	Q	0.12	0.03	0.06	Q
Other Excluding Fuel Oil	13	8	17	11	1,802	1,804	2,444	1,414	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	556	Q	1,368	335	Q	Q	0.01	Q
Natural Gas	50	19	20	7	1,111	1,611	1,180	949	0.04	0.01	0.02	0.01
Fuel Oil	882	Q	167	Q	2,803	Q	718	Q	0.31	Q	0.23	Q
District Heat	4	Q	2	Q	791	Q	278	Q	0.00	Q	0.01	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	0.32
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	766	30	187	Q	4,507	2,362	3,604	1,585	0.17	0.01	0.05	Q
Buildings without Cooling	188	Q	Q	Q	806	Q	Q	Q	0.23	Q	Q	Q
Water-Heating Energy Source												
Fuel Oil	569	Q	Q	Q	1,678	Q	Q	Q	0.34	Q	0.19	Q
Other Excluding Fuel Oil	336	20	117	33	3,065	2,061	3,060	1,448	0.11	0.01	0.04	0.02
Buildings without Water Heating	88	Q	Q	Q	671	Q	362	Q	0.13	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	453	20	Q	Q	2,974	1,330	2,353	1,100	0.15	0.02	0.04	0.02
Buildings without Cooking	529	14	104	30	2,412	1,076	1,357	600	0.22	0.01	0.08	0.05
Energy End Uses (more than one may apply)												
Buildings with Space Heating	994	34	208	56	5,414	2,423	3,572	1,665	0.18	0.01	0.06	0.03
Buildings with Cooling	805	30	188	Q	4,608	2,364	3,628	1,585	0.17	0.01	0.05	Q
Buildings with Water Heating	906	33	181	53	4,743	2,173	3,388	1,548	0.19	0.02	0.05	0.03
Buildings with Cooking	464	21	Q	Q	3,002	1,346	2,392	1,100	0.15	0.02	0.04	0.02
Buildings with Manufacturing	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings with Electricity Generation	252	14	Q	Q	2,547	1,874	2,871	1,457	0.10	0.01	0.02	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	90	Q	53	Q	776	Q	1,083	460	0.12	Q	0.05	Q
100	850	32	148	Q	4,194	2,055	2,292	835	0.20	0.02	0.06	Q
Heating Equipment (more than one may apply)												
Heat Pumps	37	Q	Q	Q	636	Q	893	359	0.06	Q	Q	0.01
Furnaces	165	Q	Q	Q	913	Q	578	Q	0.18	Q	Q	Q
Individual Space Heaters	166	Q	48	Q	1,630	1,019	1,234	468	0.10	0.01	0.04	Q
District Heat	Q	Q	2	Q	852	Q	341	253	Q	Q	0.01	Q
Boilers	818	28	142	Q	3,485	1,419	1,594	987	0.23	0.02	0.09	0.03
Packaged Heating Units	132	5	37	Q	1,351	869	1,405	612	0.10	0.01	0.03	Q
Other	34	Q	Q	Q	398	Q	535	Q	0.09	Q	Q	Q
Water Heating Equipment												
Centralized System	645	22	158	Q	2,609	1,131	2,013	780	0.25	0.02	0.08	Q
Distributed System	125	Q	Q	Q	874	Q	474	Q	0.14	Q	0.03	Q
Combination of Centralized and Distributed System	136	9	9	Q	1,259	723	900	565	0.11	0.01	0.01	0.02
Annual Consumption (gallons)												
1,000 or Less	43	6	21	Q	2,009	1,701	2,457	1,213	0.02	0.00	0.01	0.00
1,001 to 5,000	219	6	76	20	1,087	365	700	266	0.20	0.02	0.11	0.07
5,001 to 10,000	155	Q	Q	Q	481	Q	Q	Q	0.32	Q	Q	Q
10,001 to 25,000	138	Q	46	Q	502	Q	289	Q	0.27	Q	0.16	Q
Over 25,000	439	Q	Q	Q	1,334	Q	Q	Q	0.33	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.