

Table E9A. Fuel Oil Consumption (Btu) and Energy Intensities by End Use for All Buildings, 2003

	Total Fuel Oil Consumption (trillion Btu)					Fuel Oil Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
All Buildings	228	198	18	Q	10	14.0	12.2	1.1	Q	0.6
Building Floorspace (Square Feet)										
1,001 to 5,000	34	32	Q	(*)	Q	56.9	52.2	Q	(*)	Q
5,001 to 10,000	36	33	Q	(*)	Q	49.4	44.7	Q	0.1	Q
10,001 to 25,000	28	25	1	(*)	Q	26.7	23.8	1.4	0.1	Q
25,001 to 50,000	17	16	Q	(*)	1	19.1	17.8	Q	(*)	0.6
50,001 to 100,000	29	26	1	Q	1	15.6	14.1	0.7	Q	0.5
100,001 to 200,000	37	35	Q	Q	1	12.5	11.5	Q	Q	0.5
200,001 to 500,000	36	25	Q	Q	2	10.5	7.4	2.4	Q	0.5
Over 500,000	10	Q	Q	Q	2	2.1	Q	Q	Q	0.4
Principal Building Activity										
Education	47	45	2	Q	Q	25.4	23.9	0.8	Q	0.3
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Health Care	11	6	2	Q	2	5.6	3.3	0.8	Q	1.3
Inpatient	9	5	2	Q	2	5.3	2.9	0.9	Q	1.4
Outpatient	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging	35	25	Q	(*)	1	16.1	11.2	Q	0.2	0.3
Mercantile	21	Q	Q	(*)	Q	Q	Q	Q	Q	Q
Retail (Other Than Mall)	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Enclosed and Strip Malls	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Office	18	15	Q	Q	1	4.3	3.8	Q	Q	0.4
Public Assembly	29	28	Q	(*)	Q	30.7	29.7	Q	(*)	Q
Public Order and Safety	8	6	Q	(*)	Q	Q	Q	Q	Q	Q
Religious Worship	18	18	Q	(*)	Q	39.8	39.3	Q	(*)	Q
Service	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Warehouse and Storage	9	Q	Q	(*)	Q	7.3	6.3	Q	0.1	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed										
Before 1920	38	35	Q	(*)	Q	39.3	36.4	Q	0.2	Q
1920 to 1945	55	45	9	Q	(*)	27.2	22.3	4.7	Q	0.1
1946 to 1959	48	45	Q	(*)	Q	22.8	21.3	Q	(*)	Q
1960 to 1969	Q	Q	Q	Q	Q	21.7	19.7	Q	Q	0.7
1970 to 1979	23	19	1	Q	2	9.5	8.1	0.6	Q	0.8
1980 to 1989	12	9	1	Q	2	3.5	2.7	0.2	Q	0.6
1990 to 1999	9	6	Q	Q	2	3.9	2.8	Q	Q	0.9
2000 to 2003	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Census Region and Division										
Northeast	181	160	15	Q	4	27.9	24.7	2.4	Q	0.7
New England	74	68	5	(*)	1	41.3	38.2	2.8	0.1	Q
Middle Atlantic	107	92	Q	Q	4	22.8	19.6	Q	Q	0.8
Midwest	24	Q	1	Q	1	8.2	7.5	0.2	Q	0.5
East North Central	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
West North Central	Q	Q	Q	Q	Q	13.5	12.1	0.5	0.1	Q
South	15	10	Q	Q	4	3.2	2.2	Q	Q	0.8
South Atlantic	13	10	Q	Q	3	4.5	3.2	Q	Q	1.0
East South Central	1	(*)	(*)	(*)	(*)	2.7	1.2	(*)	1.0	0.5
West South Central	1	(*)	Q	(*)	(*)	0.5	0.2	Q	(*)	0.3
West	9	Q	Q	Q	1	Q	Q	Q	Q	Q
Mountain	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Pacific	4	2	Q	(*)	1	2.6	1.3	Q	(*)	0.4

Table E9A. Fuel Oil Consumption (Btu) and Energy Intensities by End Use for All Buildings, 2003

	Total Fuel Oil Consumption (trillion Btu)					Fuel Oil Energy Intensity (thousand Btu/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
All Buildings	228	198	18	Q	10	14.0	12.2	1.1	Q	0.6
Climate Zone: 30-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	63	59	2	Q	2	23.9	22.4	0.7	Q	0.7
5,500-7,000 HDD	67	61	4	Q	2	15.7	14.2	1.0	Q	0.4
4,000-5,499 HDD	91	76	Q	Q	4	18.4	15.3	Q	Q	0.7
Fewer than 4,000 HDD	6	2	Q	Q	2	2.4	0.9	Q	Q	0.9
2,000 CDD or More and --										
Fewer than 4,000 HDD	1	Q	Q	(*)	1	0.5	0.2	Q	(*)	0.3
Number of Establishments										
One	183	161	14	Q	7	19.8	17.5	1.5	Q	0.7
2 to 5	31	26	3	(*)	2	10.9	9.1	1.0	(*)	0.8
6 to 10	7	6	Q	Q	(*)	10.2	8.5	Q	Q	0.4
11 to 20	Q	Q	Q	Q	Q	2.9	Q	Q	(*)	Q
More than 20	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)										
Electricity	228	198	18	Q	10	14.0	12.2	1.1	Q	0.6
Natural Gas	101	83	10	Q	7	8.9	7.4	0.9	Q	0.6
Fuel Oil	228	198	18	Q	10	14.0	12.2	1.1	Q	0.6
District Heat	1	Q	Q	Q	1	0.7	Q	Q	Q	0.5
Energy End Uses (more than one may apply)										
Buildings with Space Heating	225	198	15	Q	10	14.0	12.4	1.0	Q	0.6
Buildings with Cooling	181	155	15	Q	9	12.1	10.4	1.0	Q	0.6
Buildings with Water Heating	218	189	18	Q	9	13.9	12.1	1.2	Q	0.6
Annual Consumption (gallons)										
1,000 or Less	14	10	Q	Q	3	1.5	1.1	Q	Q	0.3
1,001 to 5,000	45	39	Q	Q	3	14.5	12.6	Q	Q	1.0
5,001 to 10,000	29	25	Q	(*)	Q	31.0	26.4	Q	0.1	1.3
10,001 to 25,000	31	29	(*)	(*)	1	31.0	29.5	0.5	0.1	1.0
Over 25,000	110	95	12	Q	2	49.8	43.1	5.2	Q	0.9

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - <http://www.eia.doe.gov/emeu/cbecs>.

(*)=Value rounds to zero in the units displayed.

Q=Data withheld because fewer than 20 buildings were sampled for any cell, or because the Relative Standard Error (RSE) was greater than 50 percent for a cell in the "Total" column.

Note: Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A, C, and E of the 2003 Commercial Buildings Energy Consumption Survey.

Table E10A. Fuel Oil Consumption (gallons) and Energy Intensities by End Use for All Buildings, 2003

	Total Fuel Oil Consumption (million gallons)					Fuel Oil Energy Intensity (gallons/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
All Buildings.....	1,644	1,429	131	Q	72	0.10	0.09	0.01	Q	(*)
Building Floorspace (Square Feet)										
1,001 to 5,000	249	228	Q	(*)	Q	0.41	0.38	Q	(*)	Q
5,001 to 10,000	262	237	Q	1	Q	0.36	0.32	Q	(*)	Q
10,001 to 25,000	201	179	11	(*)	Q	0.19	0.17	0.01	(*)	Q
25,001 to 50,000	124	115	Q	(*)	4	0.14	0.13	Q	(*)	(*)
50,001 to 100,000	209	188	10	Q	7	0.11	0.10	0.01	Q	(*)
100,001 to 200,000	270	250	Q	Q	10	0.09	0.08	Q	Q	(*)
200,001 to 500,000	258	183	Q	Q	11	0.08	0.05	0.02	Q	(*)
Over 500,000	72	Q	Q	Q	15	0.02	Q	Q	Q	(*)
Principal Building Activity										
Education	342	322	11	Q	Q	0.18	0.17	0.01	Q	(*)
Food Sales	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Health Care	76	45	11	Q	18	0.04	0.02	0.01	Q	0.01
Inpatient	65	35	11	Q	17	0.04	0.02	0.01	Q	0.01
Outpatient	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Lodging	255	177	Q	3	5	0.12	0.08	Q	(*)	(*)
Mercantile	155	Q	Q	(*)	Q	Q	Q	Q	Q	Q
Retail (Other Than Mall)	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Enclosed and Strip Malls	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Office	126	112	Q	Q	11	0.03	0.03	Q	Q	(*)
Public Assembly	208	201	Q	(*)	Q	0.22	0.21	Q	(*)	Q
Public Order and Safety	57	41	Q	(*)	Q	Q	Q	Q	Q	Q
Religious Worship	130	129	Q	(*)	Q	0.29	0.28	Q	(*)	Q
Service	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Warehouse and Storage	66	Q	Q	1	Q	0.05	0.05	Q	(*)	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Year Constructed										
Before 1920	273	253	Q	2	Q	0.28	0.26	Q	(*)	Q
1920 to 1945	396	325	68	Q	2	0.20	0.16	0.03	Q	(*)
1946 to 1959	347	323	Q	1	Q	0.16	0.15	Q	(*)	Q
1960 to 1969	Q	Q	Q	Q	Q	0.16	0.14	Q	Q	(*)
1970 to 1979	164	139	10	Q	14	0.07	0.06	(*)	Q	0.01
1980 to 1989	87	67	5	Q	15	0.03	0.02	(*)	Q	(*)
1990 to 1999	65	46	Q	Q	15	0.03	0.02	Q	Q	0.01
2000 to 2003	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Census Region and Division										
Northeast	1,302	1,153	111	Q	30	0.20	0.18	0.02	Q	(*)
New England	531	490	35	1	4	0.30	0.28	0.02	(*)	Q
Middle Atlantic	771	663	Q	Q	26	0.16	0.14	Q	Q	0.01
Midwest	172	Q	4	Q	10	0.06	0.05	(*)	Q	(*)
East North Central	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
West North Central	Q	Q	Q	Q	Q	0.10	0.09	(*)	(*)	Q
South	107	73	Q	Q	25	0.02	0.02	Q	Q	0.01
South Atlantic	96	69	Q	Q	21	0.03	0.02	Q	Q	0.01
East South Central	7	3	(*)	2	1	0.02	0.01	(*)	0.01	(*)
West South Central	5	1	Q	(*)	3	(*)	(*)	Q	(*)	(*)
West	64	Q	Q	Q	7	Q	Q	Q	Q	(*)
Mountain	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Pacific	29	15	Q	(*)	5	0.02	0.01	Q	(*)	(*)

Table E10A. Fuel Oil Consumption (gallons) and Energy Intensities by End Use for All Buildings, 2003

	Total Fuel Oil Consumption (million gallons)					Fuel Oil Energy Intensity (gallons/square foot)				
	Total	Space Heating	Water Heating	Cooking	Other	Total	Space Heating	Water Heating	Cooking	Other
All Buildings.....	1,644	1,429	131	Q	72	0.10	0.09	0.01	Q	(*)
Climate Zone: 30-Year Average										
Under 2,000 CDD and --										
More than 7,000 HDD	452	425	13	Q	13	0.17	0.16	(*)	Q	(*)
5,500-7,000 HDD	485	438	32	Q	14	0.11	0.10	0.01	Q	(*)
4,000-5,499 HDD	655	547	Q	Q	26	0.13	0.11	Q	Q	0.01
Fewer than 4,000 HDD	44	17	Q	Q	16	0.02	0.01	Q	Q	0.01
2,000 CDD or More and --										
Fewer than 4,000 HDD	7	Q	Q	(*)	4	(*)	(*)	Q	(*)	(*)
Number of Establishments										
One	1,318	1,160	99	Q	50	0.14	0.13	0.01	Q	0.01
2 to 5	221	184	21	(*)	16	0.08	0.07	0.01	(*)	0.01
6 to 10	48	40	Q	Q	2	0.07	0.06	Q	Q	(*)
11 to 20	Q	Q	Q	Q	Q	0.02	Q	Q	(*)	Q
More than 20	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)										
Electricity	1,642	1,428	131	Q	72	0.10	0.09	0.01	Q	(*)
Natural Gas	727	602	73	Q	48	0.06	0.05	0.01	Q	(*)
Fuel Oil	1,644	1,429	131	Q	72	0.10	0.09	0.01	Q	(*)
District Heat	10	Q	Q	Q	6	0.01	Q	Q	Q	(*)
Energy End Uses (more than one may apply)										
Buildings with Space Heating	1,619	1,429	111	Q	69	0.10	0.09	0.01	Q	(*)
Buildings with Cooling	1,303	1,120	107	Q	65	0.09	0.07	0.01	Q	(*)
Buildings with Water Heating	1,575	1,365	131	Q	67	0.10	0.09	0.01	Q	(*)
Annual Consumption (gallons)										
1,000 or Less	98	75	Q	Q	20	0.01	0.01	Q	Q	(*)
1,001 to 5,000	323	281	Q	Q	22	0.10	0.09	Q	Q	0.01
5,001 to 10,000	210	178	Q	(*)	Q	0.22	0.19	Q	(*)	0.01
10,001 to 25,000	221	211	3	1	7	0.22	0.21	(*)	(*)	0.01
Over 25,000	792	685	83	Q	15	0.36	0.31	0.04	Q	0.01

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