

Table C33A. Total Fuel Oil Consumption and Expenditures for All Buildings, 2003

	All Buildings Using Fuel Oil			Fuel Oil Consumption		Fuel Oil Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million gallons)	Total (million dollars)
All Buildings	465	16,265	35	228	1,644	1,826
Building Floorspace (Square Feet)						
1,001 to 5,000	211	606	3	34	249	292
5,001 to 10,000	102	736	7	36	262	307
10,001 to 25,000	66	1,043	16	28	201	238
25,001 to 50,000	24	895	38	17	124	134
50,001 to 100,000	25	1,852	76	29	209	229
100,001 to 200,000	21	3,004	140	37	270	279
200,001 to 500,000	12	3,425	294	36	258	272
Over 500,000	5	4,705	933	10	72	74
Principal Building Activity						
Education	26	1,864	70	47	342	362
Food Sales	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	Q	Q	Q	Q
Health Care	13	1,882	143	11	76	79
Inpatient	7	1,683	240	9	65	67
Outpatient	Q	Q	Q	Q	Q	Q
Lodging	28	2,193	78	35	255	272
Mercantile	51	1,610	31	21	155	167
Retail (Other Than Mall)	37	501	14	Q	Q	117
Enclosed and Strip Malls	Q	Q	Q	Q	Q	Q
Office	65	4,075	62	18	126	149
Public Assembly	42	939	23	29	208	230
Public Order and Safety	23	620	27	8	57	Q
Religious Worship	38	453	12	18	130	Q
Service	93	626	7	Q	Q	Q
Warehouse and Storage	37	1,268	34	9	66	74
Other	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q
Year Constructed						
Before 1920	75	961	13	38	273	304
1920 to 1945	53	2,022	38	55	396	425
1946 to 1959	78	2,106	27	48	347	392
1960 to 1969	63	1,751	28	Q	Q	Q
1970 to 1979	61	2,389	39	23	164	185
1980 to 1989	67	3,433	51	12	87	103
1990 to 1999	50	2,290	45	9	65	72
2000 to 2003	18	1,313	74	Q	Q	Q
Census Region and Division						
Northeast	259	6,464	25	181	1,302	1,437
New England	124	1,781	14	74	531	592
Middle Atlantic	135	4,682	35	107	771	845
Midwest	76	2,909	38	24	172	178
East North Central	35	1,871	53	Q	Q	Q
West North Central	41	1,037	25	Q	Q	Q
South	93	4,663	50	15	107	130
South Atlantic	63	2,961	47	13	96	116
East South Central	15	341	23	1	7	Q
West South Central	15	1,361	94	1	5	6
West	37	2,230	60	9	64	82
Mountain	11	655	Q	Q	Q	Q
Pacific	27	1,575	59	4	29	Q

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	All Buildings Using Fuel Oil			Fuel Oil Consumption		Fuel Oil Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million gallons)	Total (million dollars)
All Buildings	465	16,265	35	228	1,644	1,826
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	145	2,624	18	63	452	472
5,500-7,000 HDD	150	4,285	28	67	485	565
4,000-5,499 HDD	103	4,950	48	91	655	723
Fewer than 4,000 HDD	53	2,528	48	6	44	57
2,000 CDD or More and --						
Fewer than 4,000 HDD	13	1,878	140	1	7	8
Number of Establishments						
One	373	9,213	25	183	1,318	1,466
2 to 5	71	2,801	39	31	221	251
6 to 10	12	649	55	7	48	Q
11 to 20	5	1,184	257	Q	Q	Q
More than 20	4	2,342	570	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)						
Electricity	463	16,250	35	228	1,642	1,824
Natural Gas	143	11,296	79	101	727	794
Fuel Oil	465	16,265	35	228	1,644	1,826
District Heat	5	1,864	403	1	10	10
Energy End Uses (more than one may apply)						
Buildings with Space Heating	458	16,050	35	225	1,619	1,794
Buildings with Cooling	313	14,987	48	181	1,303	1,430
Buildings with Water Heating	391	15,668	40	218	1,575	1,732
Annual Consumption (gallons)						
1,000 or Less	263	9,047	34	14	98	129
1,001 to 5,000	142	3,083	22	45	323	399
5,001 to 10,000	31	938	30	29	210	249
10,001 to 25,000	15	991	66	31	221	235
Over 25,000	14	2,206	153	110	792	814

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>.

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 that use fuel oil.

Notes: • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • Due to rounding, data may not sum to totals.

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

Table C34A. Fuel Oil Consumption and Expenditure Intensities for All Buildings, 2003

	Fuel Oil Consumption		Fuel Oil Expenditures		
	per Building (gallons)	per Square Foot (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)
All Buildings	3,533	0.10	3.9	0.11	1.11
Building Floorspace (Square Feet)					
1,001 to 5,000	1,177	0.41	1.4	0.48	1.18
5,001 to 10,000	2,573	0.36	3.0	0.42	1.17
10,001 to 25,000	3,045	0.19	3.6	0.23	1.18
25,001 to 50,000	5,184	0.14	5.6	0.15	1.09
50,001 to 100,000	8,508	0.11	9.3	0.12	1.10
100,001 to 200,000	12,639	0.09	13.1	0.09	1.03
200,001 to 500,000	22,181	0.08	23.4	0.08	1.05
Over 500,000	14,248	0.02	14.7	0.02	1.03
Principal Building Activity					
Education	12,911	0.18	13.7	0.19	1.06
Food Sales	Q	Q	Q	Q	Q
Food Service	Q	Q	Q	Q	Q
Health Care	5,755	0.04	6.0	0.04	1.05
Inpatient	9,252	0.04	9.6	0.04	1.04
Outpatient	Q	Q	Q	Q	Q
Lodging	9,024	0.12	9.6	0.12	1.07
Mercantile	3,013	Q	3.3	0.10	1.08
Retail (Other Than Mall)	3,084	Q	3.2	Q	1.04
Enclosed and Strip Malls	Q	Q	Q	Q	Q
Office	1,932	0.03	2.3	0.04	1.18
Public Assembly	4,990	0.22	5.5	0.24	1.10
Public Order and Safety	2,489	Q	Q	Q	Q
Religious Worship	3,431	0.29	Q	Q	Q
Service	Q	Q	1.8	0.27	1.17
Warehouse and Storage	1,779	0.05	2.0	0.06	1.12
Other	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q
Year Constructed					
Before 1920	3,647	0.28	4.1	0.32	1.11
1920 to 1945	7,425	0.20	8.0	0.21	1.07
1946 to 1959	4,452	0.16	5.0	0.19	1.13
1960 to 1969	4,345	0.16	4.8	0.17	1.10
1970 to 1979	2,680	0.07	3.0	0.08	1.13
1980 to 1989	1,299	0.03	1.5	0.03	1.19
1990 to 1999	1,293	0.03	1.4	0.03	1.11
2000 to 2003	2,128	Q	2.4	Q	1.14
Census Region and Division					
Northeast	5,021	0.20	5.5	0.22	1.10
New England	4,288	0.30	4.8	0.33	1.11
Middle Atlantic	5,691	0.16	6.2	0.18	1.10
Midwest	2,248	0.06	2.3	0.06	1.04
East North Central	Q	Q	1.9	0.03	0.92
West North Central	2,437	0.10	2.7	Q	1.12
South	1,155	0.02	1.4	0.03	1.21
South Atlantic	1,506	0.03	1.8	0.04	1.21
East South Central	449	0.02	Q	Q	Q
West South Central	336	0.00	0.4	0.00	1.27
West	1,714	Q	Q	Q	1.28
Mountain	Q	Q	Q	Q	1.32
Pacific	Q	0.02	Q	Q	1.25

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	per Building (gallons)	per Square Foot (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)
All Buildings	3,533	0.10	3.9	0.11	1.11
Climate Zone: 30-Year Average					
Under 2,000 CDD and --					
More than 7,000 HDD	3,113	0.17	3.3	0.18	1.04
5,500-7,000 HDD	3,226	0.11	3.8	0.13	1.16
4,000-5,499 HDD	6,338	0.13	7.0	0.15	1.10
Fewer than 4,000 HDD	841	0.02	1.1	0.02	1.28
2,000 CDD or More and --					
Fewer than 4,000 HDD	500	0.00	0.6	0.00	1.27
Number of Establishments					
One	3,537	0.14	3.9	0.16	1.11
2 to 5	3,106	0.08	3.5	0.09	1.14
6 to 10	4,079	0.07	4.3	0.08	1.04
11 to 20	Q	0.02	5.5	0.02	1.01
More than 20	Q	Q	Q	Q	1.09
Currently Unoccupied	Q	Q	Q	Q	Q
Energy Sources (more than one may apply)					
Electricity	3,546	0.10	3.9	0.11	1.11
Natural Gas	5,091	0.06	5.6	0.07	1.09
Fuel Oil	3,533	0.10	3.9	0.11	1.11
District Heat	2,124	0.01	2.2	0.01	1.03
Energy End Uses (more than one may apply)					
Buildings with Space Heating	3,536	0.10	3.9	0.11	1.11
Buildings with Cooling	4,164	0.09	4.6	0.10	1.10
Buildings with Water Heating	4,028	0.10	4.4	0.11	1.10
Annual Consumption (gallons)					
1,000 or Less	372	0.01	0.5	0.01	1.32
1,001 to 5,000	2,267	0.10	2.8	0.13	1.24
5,001 to 10,000	6,745	0.22	8.0	0.27	1.19
10,001 to 25,000	14,804	0.22	15.7	0.24	1.06
Over 25,000	55,107	0.36	56.6	0.37	1.03

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N=No responding cases in sample that use fuel oil.

Notes: • Statistics for the "Energy End Uses" category represent total consumption in buildings that have the end use, not consumption specifically for that particular end use. • Due to rounding, data may not sum to totals.

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

Table C35A. Fuel Oil Consumption and Conditional Energy Intensity by Census Region for All Buildings, 2003

	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	1,302	172	107	64	6,464	2,909	4,663	2,230	0.20	0.06	0.02	Q
Building Floorspace (Square Feet)												
1,001 to 10,000	381	Q	Q	Q	763	Q	274	Q	0.50	Q	0.10	Q
10,001 to 100,000	404	63	Q	Q	1,806	648	985	351	0.22	0.10	Q	Q
Over 100,000	517	21	45	Q	3,894	2,055	3,404	1,780	0.13	0.01	0.01	Q
Principal Building Activity												
Education	282	Q	Q	Q	933	Q	Q	Q	0.30	Q	Q	Q
Health Care.....	Q	Q	17	7	Q	492	786	262	Q	Q	0.02	0.03
Office	105	6	14	1	1,379	714	1,235	748	0.08	0.01	0.01	0.00
All Others	873	Q	47	40	3,810	1,358	2,186	1,091	0.23	Q	0.02	Q
Year Constructed												
1945 or Before	562	Q	Q	Q	2,162	Q	Q	Q	0.26	Q	Q	Q
1946 to 1959	277	Q	Q	Q	1,273	343	Q	Q	0.22	Q	Q	Q
1960 to 1969	Q	Q	Q	Q	605	398	483	Q	0.34	Q	Q	Q
1970 to 1979	123	Q	25	Q	645	604	817	Q	0.19	Q	0.03	Q
1980 to 1989	65	Q	Q	5	750	Q	1,231	1,004	0.09	Q	Q	0.01
1990 to 2003	Q	18	Q	6	1,029	806	1,377	391	0.07	0.02	Q	Q
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	295	Q	N	Q	1,027	1,205	N	392	0.29	0.12	N	Q
5,500-7,000 HDD	428	20	N	Q	2,411	1,491	N	Q	0.18	0.01	N	Q
4,000-5,499 HDD	Q	Q	Q	Q	3,025	Q	1,551	Q	0.19	Q	Q	Q
Fewer than 4,000 HDD	N	N	31	Q	N	N	1,423	1,105	N	N	0.02	Q
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	6	Q	N	N	1,689	Q	N	N	0.00	Q
Number of Establishments												
One	1,041	Q	76	Q	3,679	1,652	2,654	1,227	0.28	0.09	0.03	Q
2 to 5	170	Q	24	Q	1,173	655	700	Q	0.15	Q	0.03	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	Q	Q	Q	826	Q	Q	Q	Q	Q
Currently Unoccupied	Q	N	N	N	Q	N	N	N	Q	N	N	N
Energy Sources (more than one may apply)												
Electricity	1,302	170	107	64	6,464	2,894	4,663	2,230	0.20	0.06	0.02	0.03
Natural Gas	640	28	50	Q	4,049	2,200	3,356	1,691	0.16	0.01	0.01	Q
Fuel Oil	1,302	172	107	64	6,464	2,909	4,663	2,230	0.20	0.06	0.02	Q
District Heat	Q	Q	2	Q	864	314	476	Q	Q	Q	Q	Q
Energy End Uses (more than one may apply)												
Buildings with Space Heating	1,290	172	104	Q	6,414	2,909	4,575	2,152	0.20	0.06	0.02	Q
Buildings with Cooling	1,036	128	105	35	5,473	2,746	4,634	2,134	0.19	0.05	0.02	0.02
Buildings with Water Heating	1,265	Q	101	49	6,142	2,776	4,571	2,179	0.21	0.06	0.02	0.02

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Table C35A. Fuel Oil Consumption and Conditional Energy Intensity by Census Region for All Buildings, 2003

	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	1,302	172	107	64	6,464	2,909	4,663	2,230	0.20	0.06	0.02	Q
Annual Consumption (gallons)												
1,000 or Less	57	15	19	7	2,271	1,960	3,219	1,598	0.02	0.01	0.01	0.00
1,001 to 5,000	254	Q	Q	Q	1,367	480	772	Q	0.19	0.07	Q	Q
5,001 to 10,000	161	Q	Q	Q	449	Q	Q	Q	0.36	Q	Q	Q
10,001 to 25,000	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Over 25,000	717	Q	Q	Q	1,811	Q	Q	Q	0.40	Q	Q	Q

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Table C36A. Fuel Oil Expenditures by Census Region for All Buildings, 2003

	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	1,437	178	130	82	1.10	1.04	1.21	1.28	0.22	0.06	0.03	Q
Building Floorspace (Square Feet)												
1,001 to 10,000	460	Q	Q	Q	1.21	Q	Q	Q	0.60	Q	Q	Q
10,001 to 100,000	444	70	Q	Q	1.10	1.12	1.29	1.31	0.25	0.11	Q	Q
Over 100,000	533	22	48	Q	1.03	1.06	1.08	1.26	0.14	0.01	0.01	Q
Principal Building Activity												
Education	293	Q	Q	Q	1.04	Q	Q	Q	0.31	Q	Q	Q
Health Care.....	Q	Q	19	8	Q	1.06	1.08	1.16	Q	Q	0.02	0.03
Office	122	8	18	Q	1.16	1.32	1.26	1.44	0.09	0.01	0.01	0.00
All Others	980	Q	64	50	1.12	1.02	1.34	1.26	0.26	0.10	0.03	Q
Year Constructed												
1945 or Before	620	Q	Q	Q	1.10	Q	Q	Q	0.29	Q	Q	Q
1946 to 1959	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1960 to 1969	Q	Q	Q	Q	1.06	Q	Q	Q	0.36	Q	Q	Q
1970 to 1979	135	Q	31	Q	1.10	1.19	1.23	Q	0.21	Q	0.04	Q
1980 to 1989	77	Q	Q	7	1.19	Q	1.16	1.23	0.10	Q	Q	0.01
1990 to 2003	Q	21	Q	Q	1.09	1.16	1.19	Q	0.07	0.03	Q	Q
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	312	Q	N	Q	1.06	1.00	N	1.23	0.30	0.12	N	Q
5,500-7,000 HDD	493	25	N	Q	1.15	1.23	N	Q	0.20	0.02	N	Q
4,000-5,499 HDD	Q	Q	Q	Q	1.09	Q	1.19	Q	0.21	Q	Q	Q
Fewer than 4,000 HDD	N	N	39	Q	N	N	1.24	1.38	N	N	0.03	Q
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	8	Q	N	N	1.27	Q	N	N	0.00	Q
Number of Establishments												
One	1,152	160	96	Q	1.11	1.03	1.25	1.30	0.31	0.10	0.04	Q
2 to 5	193	Q	26	Q	1.13	1.07	1.10	Q	0.16	Q	0.04	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	Q	Q	Q	1.28	Q	Q	Q	Q	Q
Currently Unoccupied	Q	N	N	N	Q	N	N	N	Q	N	N	N
Energy Sources (more than one may apply)												
Electricity	1,437	176	130	82	1.10	1.03	1.21	1.28	0.22	0.06	0.03	0.04
Natural Gas	694	31	57	Q	1.09	1.12	1.14	1.18	0.17	0.01	0.02	Q
Fuel Oil	1,437	178	130	82	1.10	1.04	1.21	1.28	0.22	0.06	0.03	Q
District Heat	Q	Q	2	Q	Q	Q	1.23	Q	Q	Q	0.01	Q
Energy End Uses (more than one may apply)												
Buildings with Space Heating	1,422	178	126	Q	1.10	1.04	1.21	1.27	0.22	0.06	0.03	Q
Buildings with Cooling	1,133	127	127	43	1.09	0.99	1.21	1.23	0.21	0.05	0.03	0.02
Buildings with Water Heating	1,388	164	119	61	1.10	1.02	1.18	1.25	0.23	0.06	0.03	0.03

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Table C36A. Fuel Oil Expenditures by Census Region for All Buildings, 2003

	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	1,437	178	130	82	1.10	1.04	1.21	1.28	0.22	0.06	0.03	Q
Annual Consumption (gallons)												
1,000 or Less	73	19	27	10	1.29	1.28	1.44	1.31	0.03	0.01	0.01	0.01
1,001 to 5,000	316	Q	Q	Q	1.24	1.18	1.24	Q	0.23	Q	Q	Q
5,001 to 10,000	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
10,001 to 25,000	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Over 25,000	730	Q	Q	Q	1.02	Q	Q	Q	0.40	Q	Q	Q

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