

**Table E9. Fuel Oil Consumption (Btu) and Energy Intensities by End Use for Non-Mall 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
<b>All Buildings*</b> .....	222	194	17	Q	10	14.7	12.8	1.1	Q	0.6
<b>Building Floorspace (Square Feet)</b>										
1,001 to 5,000 .....	34	32	Q	(*)	Q	57.4	52.7	Q	(*)	Q
5,001 to 10,000 .....	36	33	Q	(*)	Q	50.6	45.8	Q	0.1	Q
10,001 to 25,000 .....	27	25	1	(*)	Q	28.2	25.4	1.5	0.1	Q
25,001 to 50,000 .....	16	15	Q	(*)	1	19.7	18.8	Q	(*)	0.7
50,001 to 100,000 .....	26	23	1	Q	1	15.0	13.3	0.8	Q	0.6
100,001 to 200,000 .....	37	34	Q	Q	1	12.5	11.6	Q	Q	0.5
200,001 to 500,000 .....	36	25	Q	Q	2	10.5	7.5	2.4	Q	0.5
Over 500,000 .....	10	Q	Q	Q	2	2.4	Q	Q	Q	0.5
<b>Principal Building Activity</b>										
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
Retail (Other Than Mall).....	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
<b>Year Constructed</b>										
Before 1920 .....	38	35	Q	(*)	Q	39.3	36.4	Q	0.2	Q
1920 to 1945 .....	54	44	9	Q	(*)	27.2	22.4	4.6	Q	0.2
1946 to 1959 .....	48	45	Q	(*)	Q	23.5	21.9	Q	(*)	Q
1960 to 1969 .....	Q	Q	Q	Q	Q	21.7	20.0	0.7	Q	0.5
1970 to 1979 .....	22	19	1	Q	2	10.2	8.7	0.6	Q	0.9
1980 to 1989 .....	9	6	1	Q	2	3.0	2.1	0.2	Q	0.7
1990 to 1999 .....	9	6	Q	Q	2	4.3	3.1	Q	Q	1.0
2000 to 2003 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Census Region and Division</b>										
Northeast .....	175	156	15	Q	4	28.8	25.6	2.4	Q	0.7
New England .....	69	64	4	(*)	1	44.1	40.8	2.8	0.1	Q
Middle Atlantic .....	106	91	Q	Q	4	23.5	20.3	Q	Q	0.8
Midwest .....	24	Q	1	Q	1	8.3	7.6	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	14.4	12.9	0.5	0.1	Q
South .....	14	10	Q	Q	3	3.5	2.4	Q	Q	0.7
South Atlantic .....	13	10	Q	Q	3	4.9	3.6	Q	Q	0.9
East South Central .....	1	(*)	(*)	(*)	(*)	2.7	1.2	(*)	1.0	0.5
West South Central .....	1	Q	Q	(*)	(*)	0.5	0.1	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	2.7	1.4	Q	(*)	0.5

**Table E9. Fuel Oil Consumption (Btu) and Energy Intensities by End Use for Non-Mall 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
<b>All Buildings*</b> .....	222	194	17	Q	10	14.7	12.8	1.1	Q	0.6
<b>Climate Zone: 30-Year Average</b>										
Under 2,000 CDD and --										
More than 7,000 HDD .....	63	59	2	Q	2	25.0	23.5	0.7	Q	0.7
5,500-7,000 HDD .....	63	57	4	Q	2	15.6	14.1	1.0	Q	0.5
4,000-5,499 HDD .....	90	75	Q	Q	4	19.4	16.3	Q	Q	0.8
Fewer than 4,000 HDD .....	6	2	Q	Q	2	2.5	1.0	Q	Q	0.8
2,000 CDD or More and --										
Fewer than 4,000 HDD .....	1	Q	Q	(*)	(*)	0.5	0.2	Q	(*)	0.3
<b>Number of Floors</b>										
One .....	47	42	2	(*)	3	18.5	16.5	0.8	0.1	1.1
Two .....	69	64	Q	Q	1	25.3	23.6	Q	Q	0.5
Three .....	39	36	1	Q	Q	20.2	18.7	0.5	Q	0.6
Four to Nine .....	55	43	9	Q	3	13.5	10.5	2.2	Q	0.7
Ten or More .....	13	9	Q	Q	1	3.3	Q	Q	Q	0.3
<b>Number of Workers (main shift)</b>										
Fewer than 5 .....	69	64	Q	(*)	Q	47.4	44.1	Q	0.1	Q
5 to 9 .....	17	15	Q	(*)	Q	26.6	23.4	Q	(*)	Q
10 to 19 .....	33	26	7	(*)	Q	32.3	25.4	6.7	0.1	0.3
20 to 49 .....	36	33	1	(*)	Q	22.2	20.9	0.5	(*)	Q
50 to 99 .....	27	25	1	(*)	1	12.7	11.5	0.7	0.2	0.3
100 to 249 .....	19	17	1	Q	1	8.9	7.8	0.3	Q	0.6
250 or More .....	22	14	Q	Q	4	3.5	2.3	Q	Q	0.6
<b>Weekly Operating Hours</b>										
Fewer than 40 .....	15	15	Q	(*)	Q	26.6	26.4	0.1	(*)	Q
40 to 48 .....	58	57	(*)	(*)	1	28.9	28.4	0.2	(*)	0.3
49 to 60 .....	32	28	Q	(*)	2	10.5	9.4	Q	0.1	0.8
61 to 84 .....	40	37	Q	Q	1	19.1	17.6	Q	Q	0.3
85 to 167 .....	18	16	1	Q	1	12.1	10.9	0.6	Q	0.4
Open Continuously .....	59	40	13	Q	5	9.9	6.8	2.2	Q	0.9
<b>Ownership and Occupancy</b>										
Nongovernment Owned.....	154	132	13	Q	7	13.5	11.6	1.2	Q	0.6
Owner Occupied .....	81	69	8	(*)	4	13.4	11.4	1.3	(*)	0.7
Nonowner Occupied .....	72	63	Q	Q	3	13.8	12.0	Q	Q	0.6
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned .....	69	62	4	Q	2	18.1	16.3	1.0	Q	0.6
Federal .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
State .....	23	21	Q	Q	Q	24.0	Q	Q	Q	0.9
Local .....	39	35	3	Q	1	16.1	14.4	1.1	Q	0.4
<b>Vacancy Status</b>										
Completely Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	30	27	2	Q	1	6.8	6.1	0.5	Q	0.2
Not At All Vacant .....	191	166	15	Q	9	17.9	15.5	1.4	Q	0.8
<b>Number of Establishments</b>										
One .....	183	161	14	Q	7	19.8	17.5	1.5	Q	0.7
2 to 5 .....	28	23	3	(*)	2	10.4	8.6	1.1	(*)	0.7
6 to 10 .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20 .....	Q	Q	Q	Q	Q	2.3	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

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	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
<b>All Buildings*</b> .....	222	194	17	Q	10	14.7	12.8	1.1	Q	0.6
<b>Predominant Exterior Wall Material</b>										
Brick, Stone or Stucco .....	144	126	13	Q	4	18.7	16.3	1.7	Q	0.6
Concrete (Block or Poured) .....	24	18	Q	Q	4	9.6	7.3	Q	Q	1.4
Concrete Panels .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Siding or Shingles .....	41	39	Q	(*)	Q	54.4	51.8	Q	(*)	Q
Metal Panels .....	8	8	Q	Q	(*)	7.1	6.6	Q	Q	0.4
Window Glass .....	(*)	Q	Q	(*)	(*)	0.3	Q	Q	(*)	0.3
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Roof Material</b>										
Built-Up .....	37	30	Q	Q	2	6.6	5.5	Q	Q	0.4
Shingles (Not Wood) .....	63	58	3	(*)	Q	34.7	31.7	1.9	0.1	Q
Metal Surfacing .....	21	20	Q	Q	Q	16.2	15.0	Q	Q	0.8
Synthetic or Rubber .....	46	39	3	Q	4	9.9	8.4	0.7	Q	0.8
Slate or Tile .....	12	11	Q	(*)	(*)	25.5	23.2	Q	0.5	0.4
Wooden Materials .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>										
Any Type of Renovation										
Since 1980 .....	105	95	5	Q	4	18.6	16.8	0.9	Q	0.7
Addition or Annex .....	Q	Q	Q	Q	Q	19.3	18.1	0.4	Q	0.6
Reduction In Floorspace .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements .....	77	69	5	Q	3	18.3	16.4	1.2	Q	0.7
Wall or Roof Replacement .....	54	47	4	Q	2	17.4	15.2	1.4	Q	0.6
Interior Wall										
Re-Configuration .....	44	40	3	Q	2	14.4	12.9	0.9	Q	0.6
HVAC Equipment Upgrade.....	34	28	3	Q	2	9.7	8.1	0.7	Q	0.7
Lighting Upgrade .....	53	48	3	Q	2	15.2	13.7	0.8	Q	0.6
Window Replacement .....	50	46	3	Q	1	21.6	19.8	1.2	Q	0.4
Plumbing System Upgrade .....	45	40	3	Q	1	16.0	14.3	0.9	Q	0.5
Insulation Upgrade .....	21	18	2	(*)	1	15.1	12.7	1.4	0.2	0.7
Other Renovation .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980.....	94	82	Q	Q	Q	29.2	25.5	Q	Q	Q
Building Newer than 1980 .....	23	17	Q	Q	5	3.7	2.7	Q	Q	0.7
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	222	194	17	Q	10	14.7	12.8	1.1	Q	0.6
Natural Gas .....	99	82	10	Q	6	9.5	7.9	0.9	Q	0.6
Fuel Oil .....	222	194	17	Q	10	14.7	12.8	1.1	Q	0.6
District Heat .....	1	Q	Q	Q	1	0.8	Q	Q	Q	0.5
District Chilled Water .....	2	Q	Q	Q	Q	1.7	Q	Q	Q	0.7
Propane .....	54	47	3	Q	2	25.1	22.2	1.5	Q	1.1
Other .....	Q	Q	Q	Q	Q	8.3	7.4	Q	Q	0.3
<b>Space-Heating Energy Source</b>										
Fuel Oil .....	212	194	14	Q	3	35.4	32.4	2.3	Q	0.4
Fuel Oil Main .....	197	181	13	Q	2	51.7	47.5	3.4	Q	0.4
Fuel Oil Secondary .....	16	14	1	Q	1	7.1	6.2	0.3	Q	0.5
Other Excluding Fuel Oil .....	7	(*)	Q	Q	6	0.8	(*)	Q	Q	0.7
Buildings without Heating .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q

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**Table E9. Fuel Oil Consumption (Btu) and Energy Intensities by End Use for Non-Mall 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
<b>All Buildings*</b> .....	222	194	17	Q	10	14.7	12.8	1.1	Q	0.6
<b>Primary Space-Heating Energy Source</b>										
Electricity .....	3	Q	Q	(*)	1	1.1	Q	Q	(*)	0.5
Natural Gas .....	15	10	1	Q	4	2.4	1.6	0.1	Q	0.7
Fuel Oil .....	197	181	13	Q	2	51.7	47.5	3.4	Q	0.4
District Heat .....	1	Q	Q	Q	1	0.7	Q	Q	Q	0.5
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Cooling Energy Source</b>										
Fuel Oil .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Excluding Fuel Oil .....	175	151	14	Q	8	12.6	10.9	1.0	Q	0.6
Buildings without Cooling .....	46	42	Q	(*)	Q	36.6	33.4	Q	(*)	Q
<b>Water-Heating Energy Source</b>										
Fuel Oil .....	109	89	17	Q	2	58.0	47.1	9.2	Q	1.1
Other Excluding Fuel Oil .....	104	96	(*)	Q	7	8.2	7.6	(*)	Q	0.5
Bldgs without Water Heating .....	10	9	(*)	(*)	Q	16.0	14.8	(*)	(*)	Q
<b>Cooking Energy Source</b>										
Fuel Oil .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Excluding Fuel Oil .....	114	97	12	(*)	5	12.9	10.9	1.3	(*)	0.6
Buildings without Cooking .....	103	94	5	(*)	4	16.7	15.2	0.8	(*)	0.6
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating ....	219	194	15	Q	9	14.6	13.0	1.0	Q	0.6
Buildings with Cooling .....	176	151	14	Q	9	12.7	10.9	1.0	Q	0.6
Buildings with Water Heating .....	213	185	17	Q	9	14.6	12.7	1.2	Q	0.6
Buildings with Cooking .....	119	100	12	Q	6	13.3	11.1	1.4	Q	0.6
Buildings with Manufacturing .....	7	Q	Q	(*)	Q	6.7	4.5	Q	0.1	Q
Buildings with Electricity Generation .....	31	21	3	Q	7	3.2	2.1	0.3	Q	0.8
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	13	11	Q	(*)	Q	10.4	8.9	Q	(*)	Q
51 to 99 .....	26	22	Q	Q	1	10.4	8.9	Q	Q	0.4
100 .....	180	160	11	Q	7	16.0	14.3	1.0	Q	0.6
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	6	4	Q	Q	1	2.5	1.8	Q	Q	0.5
Packaged Heat Pumps .....	3	Q	(*)	Q	1	Q	Q	Q	Q	Q
Split-System Heat Pumps .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps ..	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Furnaces .....	50	47	1	(*)	Q	15.0	14.0	0.3	(*)	Q
Individual Space Heaters .....	31	27	2	(*)	2	9.7	8.3	0.8	(*)	0.6
District Heat .....	1	Q	Q	Q	1	0.7	Q	Q	Q	0.5
Boilers .....	171	152	13	Q	5	19.2	17.0	1.5	Q	0.6
Packaged Heating Units .....	17	13	1	Q	3	4.4	3.3	0.3	Q	0.8
Other .....	5	4	Q	Q	Q	4.6	3.9	Q	Q	Q
<b>Water Heating Equipment</b>										
Centralized System .....	161	139	16	Q	6	19.2	16.5	1.9	Q	0.7
Distributed System .....	31	29	Q	(*)	Q	14.2	13.5	Q	(*)	Q
Combination of Centralized and Distributed System .....	20	16	1	Q	2	5.1	4.1	0.3	Q	0.5

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	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
<b>All Buildings*</b> .....	222	194	17	Q	10	14.7	12.8	1.1	Q	0.6
<b>Energy-Related Space Functions (more than one may apply)</b>										
Commercial Food Preparation....	119	100	12	Q	6	13.3	11.1	1.4	Q	0.6
Activities with Large Amounts of Hot Water .....	95	76	13	Q	6	12.4	9.9	1.7	Q	0.7
Separate Computer Area .....	96	79	11	Q	6	9.4	7.7	1.1	Q	0.5
<b>HVAC Conservation Features (more than one may apply)</b>										
Variable Air-Volume System.....	35	28	3	Q	4	4.5	3.5	0.3	Q	0.6
Economizer Cycle .....	42	33	3	Q	5	5.3	4.2	0.4	Q	0.6
HVAC Maintenance .....	196	172	14	Q	9	13.9	12.1	1.0	Q	0.6
Energy Management and Control System (EMCS) .....	31	24	Q	Q	4	4.8	3.8	Q	Q	0.6
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)</b>										
Heating .....	162	144	10	Q	6	14.9	13.2	1.0	Q	0.6
Cooling .....	135	117	12	Q	6	12.9	11.1	1.1	Q	0.5
Lighting .....	156	147	4	Q	4	17.9	16.8	0.5	Q	0.5
Office Equipment .....	92	87	Q	Q	3	27.8	26.2	Q	Q	0.8
<b>Annual Consumption (gallons)</b>										
1,000 or Less .....	13	10	Q	Q	2	1.5	1.2	Q	Q	0.3
1,001 to 5,000 .....	44	39	Q	Q	3	17.1	14.9	Q	Q	1.2
5,001 to 10,000 .....	28	24	Q	(*)	Q	31.0	26.6	Q	0.1	1.4
10,001 to 25,000 .....	30	29	(*)	(*)	1	33.4	31.8	0.5	0.1	1.0
Over 25,000 .....	106	92	11	Q	2	50.1	43.3	5.3	Q	1.0

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/cbeecs>.

\* Figures in this table do not include enclosed malls and strip malls. In the 1999 CBECS, total fuel oil consumption in malls was not statistically significant.

(\*)=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.

Notes: • Due to rounding, data may not sum to totals. • HVAC = Heating, Ventilation, and Air Conditioning.

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 E10. Fuel Oil Consumption (gallons) and Energy Intensities by End Use for Non-Mall 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
<b>All Buildings*</b> .....	1,602	1,397	125	Q	69	0.11	0.09	0.01	Q	(*)
<b>Building Floorspace (Square Feet)</b>										
1,001 to 5,000 .....	249	228	Q	(*)	Q	0.41	0.38	Q	(*)	Q
5,001 to 10,000 .....	261	237	Q	1	Q	0.37	0.33	Q	(*)	Q
10,001 to 25,000 .....	196	177	10	(*)	Q	0.20	0.18	0.01	(*)	Q
25,001 to 50,000 .....	117	112	Q	(*)	4	0.14	0.14	Q	(*)	(*)
50,001 to 100,000 .....	188	167	9	Q	7	0.11	0.10	0.01	Q	(*)
100,001 to 200,000 .....	263	246	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 .....	69	Q	Q	Q	14	0.02	Q	Q	Q	(*)
<b>Principal Building Activity</b>										
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	(*)	(*)
Retail (Other Than Mall).....	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
<b>Year Constructed</b>										
Before 1920 .....	273	253	Q	2	Q	0.28	0.26	Q	(*)	Q
1920 to 1945 .....	390	320	65	Q	2	0.20	0.16	0.03	Q	(*)
1946 to 1959 .....	347	323	Q	1	Q	0.17	0.16	Q	(*)	Q
1960 to 1969 .....	Q	Q	Q	Q	Q	0.16	0.14	0.01	Q	(*)
1970 to 1979 .....	161	137	9	Q	14	0.07	0.06	(*)	Q	0.01
1980 to 1989 .....	66	46	5	Q	15	0.02	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
<b>Census Region and Division</b>										
Northeast .....	1,265	1,122	106	Q	30	0.21	0.18	0.02	Q	(*)
New England .....	501	464	32	1	4	0.32	0.29	0.02	(*)	Q
Middle Atlantic .....	764	658	Q	Q	26	0.17	0.15	Q	Q	0.01
Midwest .....	170	Q	4	Q	10	0.06	0.06	(*)	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 .....	104	73	Q	Q	22	0.03	0.02	Q	Q	0.01
South Atlantic .....	93	69	Q	Q	18	0.04	0.03	Q	Q	0.01
East South Central .....	7	3	(*)	2	1	0.02	0.01	(*)	0.01	(*)
West South Central .....	4	Q	Q	(*)	3	(*)	(*)	Q	(*)	(*)
West .....	63	Q	Q	Q	7	Q	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 E10. Fuel Oil Consumption (gallons) and Energy Intensities by End Use for Non-Mall 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
<b>All Buildings*</b> .....	1,602	1,397	125	Q	69	0.11	0.09	0.01	Q	(*)
<b>Climate Zone: 30-Year Average</b>										
Under 2,000 CDD and --										
More than 7,000 HDD .....	451	424	13	Q	13	0.18	0.17	0.01	Q	0.01
5,500-7,000 HDD .....	455	412	29	Q	14	0.11	0.10	0.01	Q	(*)
4,000-5,499 HDD .....	648	542	Q	Q	25	0.14	0.12	Q	Q	0.01
Fewer than 4,000 HDD .....	42	17	Q	Q	13	0.02	0.01	Q	Q	0.01
2,000 CDD or More and --										
Fewer than 4,000 HDD .....	6	Q	Q	(*)	4	(*)	(*)	Q	(*)	(*)
<b>Number of Floors</b>										
One .....	335	300	15	1	19	0.13	0.12	0.01	(*)	0.01
Two .....	496	463	Q	Q	11	0.18	0.17	Q	Q	(*)
Three .....	279	258	7	Q	Q	0.15	0.13	(*)	Q	(*)
Four to Nine .....	400	310	66	Q	22	0.10	0.08	0.02	Q	0.01
Ten or More .....	93	66	Q	Q	8	0.02	Q	Q	Q	(*)
<b>Number of Workers (main shift)</b>										
Fewer than 5 .....	498	464	Q	1	Q	0.34	0.32	Q	(*)	Q
5 to 9 .....	120	106	Q	(*)	Q	0.19	0.17	Q	(*)	Q
10 to 19 .....	239	187	49	(*)	Q	0.23	0.18	0.05	(*)	(*)
20 to 49 .....	257	241	6	(*)	Q	0.16	0.15	(*)	(*)	Q
50 to 99 .....	195	177	10	3	5	0.09	0.08	(*)	(*)	(*)
100 to 249 .....	138	120	4	Q	9	0.06	0.06	(*)	Q	(*)
250 or More .....	156	101	Q	Q	27	0.03	0.02	Q	Q	(*)
<b>Weekly Operating Hours</b>										
Fewer than 40 .....	110	109	Q	(*)	Q	0.19	0.19	(*)	(*)	Q
40 to 48 .....	416	408	3	(*)	5	0.21	0.20	(*)	(*)	(*)
49 to 60 .....	228	205	Q	1	17	0.08	0.07	Q	(*)	0.01
61 to 84 .....	288	266	Q	Q	5	0.14	0.13	Q	Q	(*)
85 to 167 .....	132	118	7	Q	4	0.09	0.08	(*)	Q	(*)
Open Continuously .....	428	291	94	Q	37	0.07	0.05	0.02	Q	0.01
<b>Ownership and Occupancy</b>										
Nongovernment Owned.....	1,107	952	97	Q	52	0.10	0.08	0.01	Q	(*)
Owner Occupied .....	588	499	58	1	30	0.10	0.08	0.01	(*)	(*)
Nonowner Occupied .....	520	453	Q	Q	23	0.10	0.09	Q	Q	(*)
Unoccupied .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Government Owned .....	495	445	28	Q	16	0.13	0.12	0.01	Q	(*)
Federal .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
State .....	166	152	Q	Q	Q	0.17	Q	Q	Q	0.01
Local .....	284	253	20	Q	8	0.12	0.10	0.01	Q	(*)
<b>Vacancy Status</b>										
Completely Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Mostly Vacant .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Partially Vacant .....	213	192	15	Q	6	0.05	0.04	(*)	Q	(*)
Not At All Vacant .....	1,380	1,197	110	Q	62	0.13	0.11	0.01	Q	0.01
<b>Number of Establishments</b>										
One .....	1,318	1,160	99	Q	50	0.14	0.13	0.01	Q	0.01
2 to 5 .....	198	164	21	(*)	13	0.07	0.06	0.01	(*)	0.01
6 to 10 .....	Q	Q	Q	Q	Q	Q	Q	Q	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

**Table E10. Fuel Oil Consumption (gallons) and Energy Intensities by End Use for Non-Mall 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
<b>All Buildings*</b> .....	1,602	1,397	125	Q	69	0.11	0.09	0.01	Q	(*)
<b>Predominant Exterior Wall Material</b>										
Brick, Stone or Stucco .....	1,041	909	94	Q	31	0.13	0.12	0.01	Q	(*)
Concrete (Block or Poured) .....	175	133	Q	Q	26	0.07	0.05	Q	Q	0.01
Concrete Panels .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Siding or Shingles .....	295	281	Q	(*)	Q	0.39	0.37	Q	(*)	Q
Metal Panels .....	60	55	Q	Q	3	0.05	0.05	Q	Q	(*)
Window Glass .....	1	Q	Q	(*)	1	(*)	Q	Q	(*)	(*)
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Predominant Roof Material</b>										
Built-Up .....	264	220	Q	Q	17	0.05	0.04	Q	Q	(*)
Shingles (Not Wood) .....	453	415	25	1	Q	0.25	0.23	0.01	(*)	Q
Metal Surfacing .....	153	141	Q	Q	Q	0.12	0.11	Q	Q	0.01
Synthetic or Rubber .....	335	284	24	Q	25	0.07	0.06	0.01	Q	0.01
Slate or Tile .....	83	76	Q	2	1	0.18	0.17	Q	(*)	(*)
Wooden Materials .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Concrete .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No One Major Type .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Renovations in Buildings Constructed Before 1980 (more than one may apply)</b>										
Any Type of Renovation										
Since 1980 .....	757	686	38	Q	27	0.13	0.12	0.01	Q	(*)
Addition or Annex .....	Q	Q	Q	Q	Q	0.14	0.13	(*)	Q	(*)
Reduction In Floorspace .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Cosmetic Improvements .....	555	496	35	Q	21	0.13	0.12	0.01	Q	(*)
Wall or Roof Replacement .....	386	337	31	Q	14	0.13	0.11	0.01	Q	(*)
Interior Wall										
Re-Configuration .....	321	288	19	Q	13	0.10	0.09	0.01	Q	(*)
HVAC Equipment Upgrade.....	244	204	19	Q	17	0.07	0.06	0.01	Q	(*)
Lighting Upgrade .....	386	348	21	Q	15	0.11	0.10	0.01	Q	(*)
Window Replacement .....	362	332	20	Q	6	0.16	0.14	0.01	Q	(*)
Plumbing System Upgrade .....	321	288	19	Q	9	0.12	0.10	0.01	Q	(*)
Insulation Upgrade .....	151	127	14	2	7	0.11	0.09	0.01	(*)	0.01
Other Renovation .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
No Renovations Since 1980.....	677	590	Q	Q	Q	0.21	0.18	Q	Q	Q
Building Newer than 1980 .....	168	121	Q	Q	33	0.03	0.02	Q	Q	0.01
<b>Energy Sources (more than one may apply)</b>										
Electricity .....	1,601	1,396	125	Q	69	0.11	0.09	0.01	Q	(*)
Natural Gas .....	712	593	70	Q	44	0.07	0.06	0.01	Q	(*)
Fuel Oil .....	1,602	1,397	125	Q	69	0.11	0.09	0.01	Q	(*)
District Heat .....	10	Q	Q	Q	6	0.01	Q	Q	Q	(*)
District Chilled Water .....	12	Q	Q	Q	Q	0.01	Q	Q	Q	(*)
Propane .....	387	342	23	Q	18	0.18	0.16	0.01	Q	0.01
Other .....	Q	Q	Q	Q	Q	0.06	0.05	Q	Q	(*)
<b>Space-Heating Energy Source</b>										
Fuel Oil .....	1,527	1,397	100	Q	19	0.25	0.23	0.02	Q	(*)
Fuel Oil Main .....	1,423	1,307	94	Q	11	0.37	0.34	0.02	Q	(*)
Fuel Oil Secondary .....	112	98	5	Q	8	0.05	0.04	(*)	Q	(*)
Other Excluding Fuel Oil .....	51	(*)	Q	Q	45	0.01	(*)	Q	Q	0.01
Buildings without Heating .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q



**Table E10. Fuel Oil Consumption (gallons) and Energy Intensities by End Use for Non-Mall 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
<b>All Buildings*</b> .....	1,602	1,397	125	Q	69	0.11	0.09	0.01	Q	(*)
<b>Primary Space-Heating Energy Source</b>										
Electricity .....	23	Q	Q	1	11	0.01	Q	Q	(*)	(*)
Natural Gas .....	109	72	6	Q	31	0.02	0.01	(*)	Q	(*)
Fuel Oil .....	1,423	1,307	94	Q	11	0.37	0.34	0.02	Q	(*)
District Heat .....	7	Q	Q	Q	5	(*)	Q	Q	Q	(*)
Propane .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>Cooling Energy Source</b>										
Fuel Oil .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Excluding Fuel Oil .....	1,258	1,086	103	Q	58	0.09	0.08	0.01	Q	(*)
Buildings without Cooling .....	334	305	Q	(*)	Q	0.26	0.24	Q	(*)	Q
<b>Water-Heating Energy Source</b>										
Fuel Oil .....	786	638	125	Q	15	0.42	0.34	0.07	Q	0.01
Other Excluding Fuel Oil .....	748	695	(*)	Q	49	0.06	0.05	(*)	Q	(*)
Bldgs without Water Heating .....	69	64	(*)	(*)	Q	0.12	0.11	(*)	(*)	Q
<b>Cooking Energy Source</b>										
Fuel Oil .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other Excluding Fuel Oil .....	821	699	84	(*)	37	0.09	0.08	0.01	(*)	(*)
Buildings without Cooking .....	742	677	38	(*)	28	0.12	0.11	0.01	(*)	(*)
<b>Energy End Uses (more than one may apply)</b>										
Buildings with Space Heating ....	1,577	1,397	105	Q	65	0.11	0.09	0.01	Q	(*)
Buildings with Cooling .....	1,268	1,092	104	Q	61	0.09	0.08	0.01	Q	(*)
Buildings with Water Heating .....	1,533	1,333	125	Q	63	0.11	0.09	0.01	Q	(*)
Buildings with Cooking .....	860	720	87	Q	41	0.10	0.08	0.01	Q	(*)
Buildings with Manufacturing .....	49	Q	Q	1	Q	0.05	0.03	Q	(*)	Q
Buildings with Electricity Generation .....	227	151	20	Q	54	0.02	0.02	(*)	Q	0.01
<b>Percent of Floorspace Heated</b>										
Not Heated .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1 to 50 .....	94	81	Q	(*)	Q	0.07	0.06	Q	(*)	Q
51 to 99 .....	187	160	Q	Q	8	0.08	0.06	Q	Q	(*)
100 .....	1,297	1,157	81	Q	52	0.12	0.10	0.01	Q	(*)
<b>Heating Equipment (more than one may apply)</b>										
Heat Pumps .....	44	32	Q	Q	9	0.02	0.01	Q	Q	(*)
Packaged Heat Pumps .....	22	Q	1	Q	6	Q	Q	Q	Q	Q
Split-System Heat Pumps .....	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps ..	Q	Q	Q	Q	Q	Q	Q	Q	Q	(*)
Furnaces .....	360	337	7	1	Q	0.11	0.10	(*)	(*)	Q
Individual Space Heaters .....	225	194	18	1	13	0.07	0.06	0.01	(*)	(*)
District Heat .....	8	Q	Q	Q	5	(*)	Q	Q	Q	(*)
Boilers .....	1,236	1,093	96	Q	37	0.14	0.12	0.01	Q	(*)
Packaged Heating Units .....	122	91	7	Q	22	0.03	0.02	(*)	Q	0.01
Other .....	36	31	Q	Q	Q	0.03	0.03	Q	Q	Q
<b>Water Heating Equipment</b>										
Centralized System .....	1,162	1,003	114	Q	40	0.14	0.12	0.01	Q	(*)
Distributed System .....	224	212	Q	(*)	Q	0.10	0.10	Q	(*)	Q
Combination of Centralized and Distributed System .....	147	119	9	Q	13	0.04	0.03	(*)	Q	(*)

**Table E10. Fuel Oil Consumption (gallons) and Energy Intensities by End Use for Non-Mall 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
<b>All Buildings*</b> .....	1,602	1,397	125	Q	69	0.11	0.09	0.01	Q	(*)
<b>Energy-Related Space Functions (more than one may apply)</b>										
Commercial Food Preparation....	860	720	87	Q	41	0.10	0.08	0.01	Q	(*)
Activities with Large Amounts of Hot Water .....	685	546	92	Q	40	0.09	0.07	0.01	Q	0.01
Separate Computer Area .....	695	570	78	Q	40	0.07	0.06	0.01	Q	(*)
<b>HVAC Conservation Features (more than one may apply)</b>										
Variable Air-Volume System.....	254	199	19	Q	32	0.03	0.03	(*)	Q	(*)
Economizer Cycle .....	303	239	22	Q	37	0.04	0.03	(*)	Q	(*)
HVAC Maintenance .....	1,413	1,238	101	Q	62	0.10	0.09	0.01	Q	(*)
Energy Management and Control System (EMCS) .....	222	173	Q	Q	26	0.03	0.03	Q	Q	(*)
<b>Equipment Usage Reduced When Building Not In Full Use (more than one may apply)</b>										
Heating .....	1,166	1,035	75	Q	47	0.11	0.10	0.01	Q	(*)
Cooling .....	975	841	83	Q	41	0.09	0.08	0.01	Q	(*)
Lighting .....	1,127	1,061	30	Q	30	0.13	0.12	(*)	Q	(*)
Office Equipment .....	663	625	Q	Q	19	0.20	0.19	Q	Q	0.01
<b>Annual Consumption (gallons)</b>										
1,000 or Less .....	94	74	Q	Q	17	0.01	0.01	Q	Q	(*)
1,001 to 5,000 .....	320	279	Q	Q	22	0.12	0.11	Q	Q	0.01
5,001 to 10,000 .....	204	175	Q	(*)	Q	0.22	0.19	Q	(*)	0.01
10,001 to 25,000 .....	219	209	3	1	7	0.24	0.23	(*)	(*)	0.01
Over 25,000 .....	765	660	81	Q	15	0.36	0.31	0.04	Q	0.01

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/cbeecs>.

\* Figures in this table do not include enclosed malls and strip malls. In the 1999 CBECS, total fuel oil consumption in malls was not statistically significant.

(\*)=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.

Notes: • Due to rounding, data may not sum to totals. • HVAC = Heating, Ventilation, and Air Conditioning.

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.