Table C33. Total Fuel Oil Consumption and Expenditures for Non-Mall 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*	451	15,157	34	222	1,602	1,776
Building Floorspace						
(Square Feet)						
1,001 to 5,000	209	600	3	34	249	292
5,001 to 10,000	99	716	7	36	261	307
10,001 to 25,000	61	966	16	27	196	232
25,001 to 50,000	22	825	38	16	117	127
50,001 to 100,000	23	1,740	76	26	188	203
100,001 to 200,000		2,927	141	37	263	272
200,001 to 500,000		3,400	294	36	258	272
Over 500,000	4	3,981	927	10	69	71
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
Retail (Other Than Mall)	37	501	14	Q	Q	117
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		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	52	1,986	38	54	390	417
1946 to 1959	75	2,048	27	48	347	392
1960 to 1969	61	1,685	28	Q	Q	Q
1970 to 1979	59	2,187	37	22	161	182
1980 to 1989	63	3,079	49	9	66	78
1990 to 1999	49	2,086	43	9	65	72
2000 to 2003	17	1,125	67	Q	Q	Q
Census Region and Division						
Northeast	254	6,080	24	175	1,265	1,393
New England	122	1,577	13	69	501	557
Middle Atlantic	132	4,502	34	106	764	836
Midwest	76	2,832	37	24	170	176
East North Central	35	1,871	53	Q	Q	Q
West North Central	41	961	23	Q	Q	Q
South	84	4,122	49	14	104	125
South Atlantic	59	2,639	45	13	93	112
East South Central		341	23	1	7	Q
West South Central		1,141	108	1	4	5
West	37	2,123	58	9	63	81
	٠.	-, •		-	- •	
Mountain	10	626	Q	Q	Q	Q

Table C33. Total Fuel Oil Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings* Using Fuel Oil			Fuel Consu	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*	451	15,157	34	222	1,602	1,776
Climate Zone: 30-Year Average						
Under 2,000 CDD and						
More than 7,000 HDD	145	2,499	17	63	451	471
5,500-7,000 HDD	148	4,052	27	63	455	530
4,000-5,499 HDD	97	4,628	48	90	648	713
Fewer than 4,000 HDD	49	2,337	48	6	42	
2,000 CDD or More and	10	2,001	10	ŭ		0.
Fewer than 4,000 HDD	13	1,642	130	1	6	8
r ewer than 4,000 Fibb	13	1,042	130	'	O	0
Number of Floors	000	0.540	40	4=	205	207
One	209	2,518	12	47	335	397
Two	142	2,724	19	69	496	550
Three	57	1,914	34	39	279	304
Four to Nine	34	4,101	120	55	400	428
Ten or More	9	3,899	452	13	93	97
Number of Workers (main shift)						
Fewer than 5	252	1,459	6	69	498	578
5 to 9	67	625	9	17	120	151
10 to 19	38	1,024	27	33	239	254
20 to 49	36	1,602	44	36	257	274
50 to 99	22	2,131	99	27	195	204
100 to 249	20	2,149	109	19	138	146
250 or More	16	6,168	393	22	156	169
Weekly Operating Hours						
Fewer than 40	83	576	7	15	110	133
40 to 48	107	1,994	19	58	416	457
49 to 60	100	3,015	30	32	228	260
61 to 84	55	2,089	38	40	288	309
85 to 167	35	1,508	43	18	132	151
Open Continuously	69	5,976	86	59	428	466
Ownership and Occupancy						
Nongovernment Owned	371	11,374	31	154	1,107	1,249
Owner Occupied	209	6,092	29	81	588	671
Nonowner Occupied	161	5,215	32	72	520	578
•	Q	3,213 Q	Q	Q	0 Q	_
Unoccupied Government Owned	80	3,783	47	69	495	Q 526
	4					_
Federal		381	Q	Q	Q 100	Q 170
StateLocal	24 52	962 2,441	40 47	23 39	166 284	170 299
Vacancy Status						
Vacancy Status	_	^	_	_	_	^
Completely Vacant	Q	Q	Q	Q	Q	Q
Mostly Vacant	Q	Q	Q	Q	Q	
Partially Vacant	49	4,346	88	30	213	
Not At All Vacant	399	10,718	27	191	1,380	1,536

Table C33. Total Fuel Oil Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings* Using Fuel Oil			Fuel Consu	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*	451	15,157	34	222	1,602	1,776
Number of Establishments One	373	9,213	25	183	1,318	1 466
		· · · · · · · · · · · · · · · · · · ·	41	28	1,316	1,466 224
2 to 5	65 6	2,657 524	94			_
6 to 10	3		384	Q Q	Q	Q
11 to 20		1,119			Q	Q
More than 20	3	1,567	527	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q
Predominant Exterior Wall Material						
Brick, Stone or Stucco	158	7,735	49	144	1,041	1,135
Concrete (Block or Poured)	83	2,526	31	24	175	206
Concrete Panels	10	1,943	189	Q	1/3 Q	Q Q
Siding or Shingles	128	753	6	41	295	323
Metal Panels	63	1,171	19	8	60	77
Window Glass	2	486	198	0	1	Q
Other	Q	400 Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q
Predominant Roof Material						
Built-Up	81	5,565	69	37	264	302
Shingles (Not Wood)	167	1,814	11	63	453	529
Metal Surfacing	114	1,309	11	21	153	165
Synthetic or Rubber	65	4,687	72	46	335	367
Slate or Tile	12	454	37	12	83	94
Wooden Materials	Q	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980 (more than one may apply) Any Type of Renovation						
Since 1980	149	5,651	38	105	757	806
Addition or Annex	41	2,507	61	Q	Q	
Reduction In Floorspace	Q	2,007 Q	Q	Q	Q	Q
Cosmetic Improvements	107	4,201	39	77	555	
Wall or Roof Replacement	66	3,081	46	54	386	422
Interior Wall						
Re-Configuration	66	3,087	47	44	321	352
HVAC Equipment Upgrade	65	3,505	54	34	244	277
Lighting Upgrade	72	3,529	49	53	386	417
Window Replacement	62	2,332	38	50	362	391
Plumbing System Upgrade	48	2,785	58	45	321	343
Insulation Upgrade	48	1,386	29	21	151	170
Other Renovation	Q	Q	Q	Q	Q	
No Renovations Since 1980	172	3,216	19	94	677	778
Building Newer than 1980	129	6,289	49	23	168	192

Table C33. Total Fuel Oil Consumption and Expenditures for Non-Mall 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*	451	15,157	34	222	1,602	1,776	
Energy Sources (more than							
one may apply)							
Electricity	448	15,142	34	222	1,601	1,774	
Natural Gas	129	10,383	80	99	712	775	
Fuel Oil	451	15,157	34	222	1,602	1,776	
District Heat	4	1,731	393	1	10	10	
District Chilled Water	3	986	284	2	12	13	
Propane	77	2,139	28	54	387	410	
Other	29	359	12	Q	Q	26	
Space-Heating Energy Sources	200	5 000	47	040	4 507	4.070	
Fuel Oil	360	5,988	17	212	1,527	1,676	
Fuel Oil Main	282	3,818	14	197	1,423	1,555	
Fuel Oil Secondary	80	2,191	27	16	112	130	
Other Excluding Fuel OilBuildings without Heating	83 Q	8,954 Q	108 Q	7 Q	51 Q	68 Q	
Primary Space-Heating Energy Source	-4	0.070	20	0	00	00	
Electricity	51	3,079	60	3	23	29	
Natural Gas	77	6,258	81	15	109	132	
Fuel Oil	282	3,818	14	197	1,423	1,555	
District Heat	4	1,490	388	1	7	8	
Other	Q Q	Q Q	Q Q	Q Q	Q Q	Q Q	
Cooling Energy Sources							
Fuel Oil	Q	Q	Q	Q	Q	Q	
Other Excluding Fuel Oil	298	13,860	46	175	1,258	1,376	
Buildings without Cooling	152	1,267	8	46	334	389	
Water-Heating Energy Sources							
Fuel Oil	94	1,880	20	109	786	849	
Other Excluding Fuel Oil	282	12,680	45	104	748	833	
Buildings without Water Heating	74	597	8	10	69	94	
Cooking Energy Sources Fuel Oil	Q	Q	Q	Q	0	0	
Other Excluding Fuel Oil	114	8,858	78	114	Q 821	Q 888	
Buildings without Cooking	335	6,170	18	103	742	847	
Energy End Uses (more than one may apply)							
Buildings with Space Heating	443	14,942	34	219	1,577	1,744	
Buildings with Cooling	298	13,890	47	176	1,268	1,387	
Buildings with Water Heating	376	14,560	39	213	1,533	1,682	
Buildings with Cooking	115	8,987	78	119	860	929	
Buildings with Manufacturing	25	1,008	40	7	49	56	
Buildings with Electricity		,					
Generation	92	9,867	107	31	227	253	

Table C33. Total Fuel Oil Consumption and Expenditures for Non-Mall Buildings, 2003

		All Buildings	*	Fue	ı Oil	Fuel Oil
		Using Fuel Oi		Consu	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*	451	15,157	34	222	1,602	1,776
Percent of Floorspace Heated						
Not Heated	Q	Q	Q	Q	Q	Q
1 to 50	62	1,253	20	13	94	109
51 to 99	56	2,480	44	26	187	206
100	325	11,209	35	180	1,297	1,428
Heating Equipment (more						
than one may apply)	04	0.447	444	•	4.4	50
Heat Pumps	21	2,417	114	6	44	
Packaged Heat Pumps	12	1,635	137	3	22	
Split-System Heat Pumps	Q	533	92	Q	Q	
Individual Room Heat Pumps	7	983	145	Q	Q	Q
Furnaces	211	3,330	16	50	360	417
Individual Space Heaters	94	3,236	34	31	225	253
District Heat	4	1,592	395	1	8	8
Boilers	178	8,930	50	171	1,236	1,337
Packaged Heating Units	54	3,862	72	17	122	
Other	40	1,095	27	5	36	
Water Heating Equipment						
Centralized System	290	8,411	29	161	1,162	1,286
Distributed System	61	2,183	36	31	224	244
Combination of Centralized	0.1	2,100	00	0.		
and Distributed System	26	3,965	154	20	147	153
Energy-Related Space Functions						
(more than one may apply)						
Commercial Food Preparation	115	8,987	78	119	860	929
Activities with Large						
Amounts of Hot Water	82	7,690	94	95	685	724
Separate Computer Area	80	10,251	129	96	695	732
HVAC Conservation Features						
(more than one may apply)						
Variable Air-Volume System	61	7,827	128	35	254	273
Economizer Cycle	67	7,865	118	42	303	331
HVAC Maintenance	325	14,152	43	196	1,413	1,565
Energy Management and						
Control System (EMCS)	32	6,362	196	31	222	241
Equipment Usage Reduced When Building Not In Full Use						
(more than one may apply) <sup>a</sup>						
Heating	328	10,861	33	162	1,166	1,305
Cooling	219	10,489	48	135	975	1,074
Lighting	360	8,742	24	156	1,127	·
Office Equipment	147	3,311	22	92	663	714

Table C33. Total Fuel Oil Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings*			Fuel	Fuel Oil	
	Using Fuel Oil			Consu	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*	451	15,157	34	222	1,602	1,776
Annual Consumption (gallons) 1,000 or Less 1,001 to 5,000 5,001 to 10,000 10,001 to 25,000 Over 25,000	251	8,625	34	13	94	124
	140	2,592	18	44	320	395
	30	913	30	28	204	242
	15	911	61	30	219	232
	14	2,116	153	106	765	782

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. • HVAC = Heating, Ventilation, and Air Conditioning. • 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.

<sup>\*</sup> Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet. In the 1999 CBECS, total fuel oil consumption in malls was not statistically significant.

<sup>&</sup>lt;sup>a</sup> The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.