Table C36. Fuel Oil Expenditures by Census Region for Non-Mall Buildings, 2003

					Fuel Oil Expenditures (dollars)								
	Total Fuel Oil Expenditures (million dollars)					per G	allon	•	per Square Foot				
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West	
All Buildings*	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q	
Building Floorspace													
(Square Feet)													
1,001 to 10,000	460		Q	Q	1.21	Q	Q	Q	0.61	Q	Q	Q	
10,001 to 100,000			Q	Q	1.09	1.12	1.29	1.31	0.24	0.11	Q	Q	
Over 100,000	524	21	47	Q	1.03	1.05	1.07	1.26	0.14	0.01	0.02	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	936	Q	59	50	1.12	1.01	1.34	1.26	0.27	0.11	0.04	Q	
Year Constructed													
1945 or Before	612	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	
1960 to 1969			Q	Q	1.06	Q	Q	Q	0.36	Q	Q	Q	
1970 to 1979			31	Q	1.10	1.19	1.23	Q	0.21	Q	0.04	Q	
1980 to 1989			Q	7		Q	1.16	1.23	0.08	Q	Q	0.01	
1990 to 2003	Q		ã	Q		1.16	1.18	Q	0.08	0.03	ã	Q	
Climate Zone: 30-Year Average Under 2,000 CDD and						4.00							
More than 7,000 HDD	312		N	Q	1.06	1.00	N	1.23	0.31	0.13	N	Q	
5,500-7,000 HDD			N	Q	1.15	1.23	N	Q	0.21	0.02	N	Q	
4,000-5,499 HDD			Q	Q	1.09	Q	1.19	Q	0.22	Q	Q	Q	
Fewer than 4,000 HDD	N	N	36	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	7	Q	N	N	1.27	Q	N	N	0.00	Q	
Number of Floors													
One	267	40	Q	Q	1.16	1.11	1.28	Q	0.27	0.09	Q	Q	
Two	442	Q	Q	Q	1.13	0.96	Q	Q	0.35	Q	Q	Q	
Three	252	Q	Q	Q	1.08	Q	Q	Q	0.28	Q	Q	Q	
Four to Nine	347	Q	47	Q	1.06	0.97	1.14	1.23	0.20	Q	0.05	Q	
Ten or More	Q	Q	7	2	1.03	Q	1.16	1.33	Q	Q	0.01	0.00	
Number of Workers (main shift)													
Less than 10	525	Q	46	Q	1.20	1.02	1.38	Q	0.43	Q	0.12	Q	
10 to 99	635		Q	Q		1.03	1.17	Q		Q	Q	Q	
100 or More	233		43	Q	1.05	1.13	1.10	1.30		0.01	0.02	Q	
Weekly Operating Hours													
48 or fewer	481	Q	34	Q	1.09	Q	1.30	Q	0.34	Q	0.06	Q	
49 to 84			Q	11	1.13	0.96	1.26	1.13		Q	0.00 Q	0.01	
85 to 168			51	40	1.13	1.09	1.12	1.13	0.23	0.02	0.03	0.01 Q	
Ownership and Occupancy													
Ownership and Occupancy	070	110	00	^	4 40	1.00	4 07	4 07	0.24	^	0.00	^	
Nongovernment Owned			90	Q		1.02	1.27	1.27	0.21	Q	0.03	Q 0.01	
Owner Occupied	583		52	9	1.13	1.13	1.32	1.16	0.21	0.03	0.03	0.01	
Nonowner Occupied	392		38	Q	1.13	1.00	1.20	1.30	0.23	Q	0.03	Q	
Unoccupied			N	N	Q	N	N	N	Q	N	N	N	
Government Owned			Q	Q	1.04	1.09	1.08	1.31	0.28	Q	Q	Q	
Federal	Q		Q	Q	Q	Q	1.09	Q	Q	Q	0.00	Q	
State	Q		Q	Q		Q	Q	Q		Q	Q	Q	
Local	256	Q	Q	Q	1.04	Q	Q	Q	0.23	Q	Q	Q	
						-	-			-			

Table C36. Fuel Oil Expenditures by Census Region for Non-Mall Buildings, 2003

							Fuel Oi	l Expen	ditures (dollars)		
	Total Fuel Oil Expenditures (million dollars)					per G		•	per Square Foot			
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West
All Buildings*	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q
Vacancy Status					_							
Completely Vacant		N	N	N	Q	N	N	N	Q	N		N
Mostly Vacant	Q	N	N	N	Q	N	N	N	Q	N		N
Partially Vacant Not At All Vacant	191 1,194	Q 159	19 106	Q Q	1.06 1.11	1.18 1.02	1.19 1.21	1.30 1.28	0.11 0.28	Q 0.08		Q Q
	.,			~				0	0.20	0.00	0.0	_
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	169	Q	23	Q	1.12	1.07	1.08	Q	0.15	Q		Q
6 to 10	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q		Q
11 to 20		Q	Q	Q	Q	Q	Q	Q	Q	Q		ã
More than 20		Q	Q	Q	Q	Q	1.28	Q	Q	Q		Q
Currently Unoccupied	Q	N	N	N	Q	N	N	N	Q	N	N	N
Predominant Exterior Wall Material												
Brick, Stone or Stucco	921	103	86	Q	1.08	1.12	1.17	1.25	0.25	0.07	0.04	Q
Concrete (Block or Poured)	Q	20	Q	Q	Q	1.13	1.30	1.33	Q	Q	Q	Q
Concrete Panels	Q	Q	4	Q	Q	Q	1.25	Q	Q	Q	Q	Q
Siding or Shingles	264	Q	Q	Q	1.14	Q	Q	Q	0.53	Q	Q	0.21
Metal Panels	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q		Q
Window Glass	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Other No One Major Type	Q N	Q Q	Q Q	Q Q	Q N	Q Q	Q Q	Q Q	Q N	Q Q		Q Q
No One Major Type	IN	Q	Q	Q	IN	Q	Q	Q	IN	Q	Q	Q
Predominant Roof Material	222	10	40	0	1 12	1 10	1 16	1 22	0.11	0.02	0.00	0
Built-Up Shingles (Not Wood)	222	19	42 Q	Q Q	1.13	1.10	1.16	1.32	0.11 0.49	0.02		Q
		Q Q	Q	Q	1.16 Q	Q Q	Q Q	Q Q	0.49 Q	Q Q		Q Q
Metal Surfacing Synthetic or Rubber		43	Q	Q	1.05	1.12	1.16	1.32	0.14	0.04		Q
Slate or Tile	233 Q	Q	Q	Q	1.03 Q	1.12 Q	1.10 Q	1.32 Q	0.1 4 Q	0.04 Q		Q
Wooden Materials		Q	Q	N	Q	Q	Q	N	Q	0.00		N
Concrete	Q	Q	Q	Q	Q	Q	Q	Q	Q	0.00 Q		Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q		0.00
No One Major Type		Q	Q	Q	Q	Q	Q	Q	Q	Q	Q.00	Q.00
Renovations in Buildings Constructed Before 1980 (more than one may apply) Any Type of Renovation												
Since 1980	638	Q	62	Q	1.07	0.90	1.18	1.26	0.24	Q	0.05	Q
Addition or Annex		Q	30	Q	1.01	1.06	1.10	1.20 Q	0.24	0.04		Q
Reduction In Floorspace		Q	Q	Q		1.00 Q		Q		0.0 4 Q		Q
Cosmetic Improvements		Q	45	Q	1.08	0.87	1.14	1.22		Q		Q
Wall or Roof Replacement		13	25	Q		1.11	1.16	Q		0.02		Q
Interior Wall	550	.0		•			0	•	3.23	3.02	3.01	•
Re-Configuration	302	Q	Q	Q	1.09	1.12	1.16	1.03	0.23	Q	0.04	Q
HVAC Equipment Upgrade		13	37	Q	1.14	1.10	1.13	1.04	0.15	Q		0.01
Lighting Upgrade	372	Q	26	Q	1.07	1.11	1.17	1.06	0.21	Q	Q	0.01
Window Replacement		8	Q	Q	1.08	1.23	Q	Q	0.24	0.02		Q
Plumbing System Upgrade		Q	23	Q	1.06	1.03	1.13	Q		Q	0.05	Q
Insulation Upgrade		Q	Q	Q	1.12	Q	Q	Q	0.20	Q		Q
Other Renovation		Q	Q	Q		Q	Q	Q	Q	Q		Q
No Renovations Since 1980		Q	Q	Q		1.15	1.29	Q		Q		Q
Building Newer than 1980	128	23	27	14	1.13	1.15	1.17	1.21	0.08	0.02	0.01	0.01

Table C36. Fuel Oil Expenditures by Census Region for Non-Mall Buildings, 2003

	Г									<u> </u>			
	Total Fuel Oil Expenditures				Fuel Oil Expenditures (dollars)								
	lotai		dollars)	itures		per G	allon	ı		per Squ	are Foot	:	
	North-	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West	
All Buildings*	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q	
Energy Sources (more than													
one may apply)													
Electricity	1,393	174	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	0.04	
Natural Gas	681	29	53	Q	1.08	1.11	1.13	1.18	0.18	0.01	0.02	Q	
Fuel Oil	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q	
District Heat	Q	Q	2	Q		Q	1.23	Q		Q		Q	
District Chilled Water	Q	Q	Q	Q		Q	Q			Q	_	Q	
Propane	313	Q		Q		Q	Q			Q		Q	
Other	Q		Q	Q		Q	Q	Q	Q.31	Q		Q	
Space-Heating Energy Sources													
Fuel Oil	1,353	167	95	Q	1.09	1.03	1.20	Q	0.34	0.18	0.11	Q	
Fuel Oil Main		Q	Q	Q		Q	Q	Q	0.40	Q		Q	
Fuel Oil Secondary		35	29	Q		1.15	1.16	Q	0.08	0.05		Q	
Other Excluding Fuel Oil		9	26	8		1.16	1.10	1.30		0.00		0.00	
Buildings without Heating			Q	Q		1.10 N	1.23 Q	1.30 Q		0.00 N		0.00 Q	
Primary Space-Heating													
Energy Source													
	0	0	11	0	0	1 10	1 22	0	0	0	0.01	0	
Electricity	Q	Q	11	Q		1.19	1.32	Q	Q	Q		Q	
Natural Gas	63	24		Q		1.13	1.14	1.20		0.01	0.02	0.01	
Fuel Oil	1,304	Q	Q	Q		Q	Q	Q		Q		Q	
District Heat	Q	Q	2	Q		Q	1.25	Q	Q	Q		Q	
Propane	Q	Q		Q		Q	Q	Q		Q		Q	
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Cooling Energy Sources Fuel Oil	Q	N	N	N	Q	N	N	N	Q	N	N	N	
Other Excluding Fuel Oil		125	122	43		0.99	1.21	1.23	0.21	0.05		0.02	
Buildings without Cooling		123 Q	122 Q	Q		0.99 Q	1.21 Q	1.23 Q	0.21	0.03 Q		0.02 Q	
Water-Heating Energy Sources Fuel Oil	773	Q	Q	Q	1.07	Q	Q	Q	0.50	Q	Q	Q	
Other Excluding Fuel Oil		Q		36		1.01	1.20		0.14	0.05		0.02	
Buildings without Water Heating	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q.00		Q	
Cooking Energy Sources													
Fuel Oil	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	0.00	
Other Excluding Fuel Oil				Q		1.10	1.14			0.04		Q	
Buildings without Cooking		Q		Q		0.99	1.31	1.30		Q		Q	
Energy End Uses (more than													
one may apply)													
Buildings with Space Heating	1,378	176	121	Q	1.10	1.03	1.21	1.27	0.23	0.06	0.03	Q	
Buildings with Cooling		125		43		0.99	1.21	1.23		0.05		0.02	
Buildings with Water Heating		162		61		1.02	1.18	1.25	0.21	0.06		0.02	
Buildings with Cooking				Q		1.10	1.14	1.23		0.00		0.03 Q	
Buildings with Manufacturing				Q		1.10 Q	1.14 Q	1.20 Q		0.04 Q		Q	
	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Buildings with Electricity Generation	174	Q	45	10	1.09	1.12	1.19	1.20	0.07	0.01	0.01	0.01	
Percent of Floorspace Heated Not Heated	Q	N	Q	Q	Q	N	Q	Q	Q	N	Q	Q	
1 to 50	Q			Q		Q				Q		Q	
51 to 99				Q		Q	1.09			Q		Q	
100	1,116			Q		1.02	1.24			0.07		Q	
. • • • • • • • • • • • • • • • • • • •	1,110	100	55	Q	1.03	1.02	1.4	1.00	0.4	0.07	0.00	Q	

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Table C36. Fuel Oil Expenditures by Census Region for Non-Mall Buildings, 2003

										<u> </u>			
					Fuel Oil Expenditures (dollars)								
	Total Fuel Oil Expenditures (million dollars)					per G	allon		per Square Foot				
						·							
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West	
All Buildings*	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q	
Heating Equipment (more than one may apply)													
Heat Pumps	Q	Q	11	Q	Q	Q	1.26	1.04	Q	Q	Q	Q	
Packaged Heat Pumps	ã	Q	Q	Q	ã	Q	Q	Q	ã	Q	ã	Q	
Split-System Heat Pumps	Q	Q	Q	Q	Q	Q		Q	Q	Q	Q	Q	
Individual Room Heat Pumps	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Furnaces	345	28	Q	Q	1.15	1.16	1.25	Q	0.26	0.04	Q	Q	
Individual Space Heaters	192	Q	29	Q	1.10	1.15	1.25	Q	0.15	0.02	0.03	Q	
District Heat	Q	Q	2	Q	Q	Q	1.24	Q	Q	Q	0.00	Q	
Boilers	1,060	Q	86	Q	1.08	1.01	1.15	1.28	0.28	Q	0.04	Q	
Packaged Heating Units	Q	10	25	Q		1.00	1.23	1.20	Q	0.01	Q	Q	
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	
Water Heating Equipment													
Centralized System	1,014	Q	Q	Q	1.11	1.01	1.18	1.31	0.28	0.08	Q	Q	
Distributed System	Q	Q	Q	Q	Q	Q	1.26	Q	Q	Q	0.02	Q	
Combination of Centralized													
and Distributed System	106	Q	19	9	1.01	1.08	1.14	1.08	0.11	Q	0.02	0.01	
Energy-Related Space Functions													
(more than one may apply)													
Commercial Food Preparation	754	76	68	Q	1.07	1.10	1.14	1.26	0.23	0.04	0.02	Q	
Activities with Large													
Amounts of Hot Water	595	42	Q	Q	1.04	1.07	1.15	1.30	0.23	0.03	0.02	Q	
Separate Computer Area	576	45	66	Q	1.03	1.08	1.11	1.30	0.16	0.02	0.02	Q	
HVAC Conservation Features													
(more than one may apply)													
Variable Air-Volume System	184	30	50	9	1.05	1.11	1.12	1.25	0.08	0.02	0.02	0.01	
Economizer Cycle	253	21	51	5	1.09	1.08	1.08	1.26	0.11	0.01	0.02	0.00	
HVAC Maintenance	1,261	123	117	Q	1.09	1.12	1.20	1.30	0.23	0.05	0.03	Q	
Energy Management and Control System (EMCS)	166	14	42	Q	1.06	1.12	1.08	1.31	0.09	0.01	0.02	Q	
Control System (LINCS)	100	14	42	Q	1.00	1.12	1.00	1.51	0.09	0.01	0.02	Q	
Equipment Usage Reduced When Building Not In Full Use													
(more than one may apply) ^a													
Heating	1,051	103	100	Q	1.10	1.13	1.22	1.27	0.23	0.05	0.04	Q	
Cooling	897	51	102	Q	1.08	1.15		1.29	0.22	0.03	0.03	Q	
Lighting	969	142		Q	1.11	1.02		1.28	0.27	0.08	0.04	Q	
Office Equipment	613	Q	Q	Q	1.09	0.90	1.23	Q	0.34	Q	Q	Q	
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Table C36. Fuel Oil Expenditures by Census Region for Non-Mall Buildings, 2003

					Fuel Oil Expenditures (dollars)									
	Total Fuel Oil Expenditures (million dollars)					per G	allon		per Square Foot					
	North- east	Mid- west	South	West	North- east	Mid- west	South	West	North- east	Mid- west	South	West		
All Buildings*	1,393	176	125	81	1.10	1.03	1.21	1.28	0.23	0.06	0.03	Q		
Annual Consumption (gallons)														
1,000 or Less	73	19	23	10	1.29	1.28	1.46	1.31	0.03	0.01	0.01	0.01		
1,001 to 5,000	313	Q	Q	Q	1.24	1.18	1.23	Q	0.24	Q	Q	Q		
5,001 to 10,000	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		
Over 25,000	699	Q	Q	Q	1.01	Q	Q	Q	0.40	Q	Q	Q		

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.

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.

^{*} 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.

^a 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.

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.