Table C37. Total District Heat Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings* Using District Heat			District Heat Consumption	District Heat Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million dollars)
All Buildings*	67	5,443	81	634	7,245
Building Floorspace					
(Square Feet)	_	_	_	_	_
1,001 to 5,000	Q	Q	Q	Q	Q
5,001 to 10,000	Q	Q	Q	Q	
10,001 to 25,000	18	289	16	Q	Q
25,001 to 50,000	10	369	35	Q	Q
50,001 to 100,000	8	574	70	Q	Q
100,001 to 200,000	9	1,399	148	165	Q
200,001 to 500,000	4	1,018	286	123	Q
Over 500,000	2	1,693	852	169	1,810
Principal Building Activity					
Education	26	1,145	45	134	Q
Food Sales	N	N	N	N	N
Food Service	Q	Q	Q	Q	Q
Health Care	2	493	Q	Q	Q
Inpatient	1	436	563	Q	Q
Outpatient	Q	Q	Q	Q	Q
Lodging	6	345	Q	Q	Q
Retail (Other Than Mall)	Q	Q	Q	Q	Q
Office	16	1,569	97	128	1,441
Public Assembly	6	547	89	Q	Q
Public Order and Safety	Q	Q	Q	Q	Q
Religious Worship	Q	Q	Q	Q	Q
Service	Q	Q	Q	Q	Q
Warehouse and Storage	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q
Year Constructed					
Before 1920	6	294	46	Q	Q
1920 to 1945	12	1,207	99	129	1,423
1946 to 1959	15	705	49	Q	Q
1960 to 1969	13	853	64	117	Q
1970 to 1979	6	588	101	77	Q
1980 to 1989	5	888	192	Q	Q
1990 to 1999	8	705	87	Q	Q
2000 to 2003	Q	Q	Q	Q	Q
Census Region and Division					
Northeast	17	1,363	78	165	2,136
New England	Q	1,505 Q	Q	Q	2,130 Q
Middle Atlantic	12	1,082	90	Q	
Midwest	13	1,648	126	225	2,329
East North Central	8	1,420	189	192	2,329 Q
West North Central	Q	1,420 Q	Q	Q	
South	21	1,766	83	182	Q
South Atlantic	15	1,760	86	117	Q
East South Central					
West South Central	Q	Q	Q	Q	Q
	Q 15	Q 667	Q	Q	Q
West	15 7	667	44	Q	Q
Mountain	8	253 413	35 53	Q Q	
Pacific	0	413	53	Q	Q

Table C37. Total District Heat Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings* Using District Heat			District Heat Consumption	District Heat Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million dollars)
All Buildings*	67	5,443	81	634	7,245
Climate Zone: 30-Year Average Under 2,000 CDD and					
More than 7,000 HDD	. 6	825	131	88	Q
5,500-7,000 HDD	. 27	1,784	66	255	Q
4,000-5,499 HDD	. 13	1,349	100	140	Q
Fewer than 4,000 HDD	. 13	1,025	78	101	Q
2,000 CDD or More and					
Fewer than 4,000 HDD	. 7	460	65	Q	Q
Number of Floors					
One		Q	44	Q	Q
Two		515	27	Q	Q
Three		458	41	Q	Q
Four to Nine		2,473	125	308	3,462
Ten or More	3	1,366	496	123	1,454
Number of Workers (main shift)					
Fewer than 5	. 20	853	42	Q	Q
5 to 9		Q	Q	Q	Q
10 to 19		Q	Q	Q	Q
20 to 49		667	41	96	Q
50 to 99		474	67	Q	Q
100 to 249		1,050	117	124	Q
250 or More	5	2,191	406	232	2,502
Weekly Operating Hours					
Fewer than 40		Q	Q	Q	Q
40 to 48	. 12	493	41	Q	Q
49 to 60	. 18	1,590	87	176	2,041
61 to 84		785	69	73	Q
85 to 167		790	91	91	Q
Open Continuously	11	1,605	144	210	2,486
Ownership and Occupancy					
Nongovernment Owned		2,148	87	247	2,746
Owner Occupied		1,421	87	185	2,078
Nonowner Occupied	8	698	86	Q	Q
Unoccupied		Q	Q	Q	Q
Government Owned	. 42	3,295	78	387	4,499
Federal	4	Q	219	Q	Q
State		1,694	63	188	Q
Local	11	653	59	Q	Q
Vacancy Status					
Completely Vacant	. Q	Q	Q	Q	Q
Mostly Vacant	N	N	N	N	N
Partially Vacant	. 12	1,483	119	164	1,708
Not At All Vacant	54	3,834	71	461	5,427
Number of Establishments One	45	3,063	68	384	4,361
		1,301	85		_
2 to 5				156	Q
6 to 10		Q	Q Q	Q	Q
11 to 20 More than 20		Q 436	699	Q	Q Q
				Q Q	
Currently Unoccupied	Q	Q	Q	Q	Q

Table C37. Total District Heat Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings* Using District Heat			District Heat Consumption	District Heat Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million dollars)
All Buildings*	67	5,443	81	634	7,245
Predominant Exterior Wall Material					
Brick, Stone or Stucco	53	3,380	64	408	4,728
Concrete (Block or Poured)	6	702	110	Q	Q
Concrete Panels	4	787	176	Q	Q
Siding or Shingles	Q	Q	Q	Q	Q
Metal Panels	Q	Q	Q	Q	Q
Window Glass	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q
Predominant Roof Material					
Built-Up	23	2,607	112	263	3,144
Shingles (Not Wood)	14	215	16	Q	Q
Metal Surfacing	Q	Q	Q	Q	Q
Synthetic or Rubber	17	1,339	77	171	Q
Slate or Tile	4	270	72	Q	Q
Wooden Materials	Q	Q	Q	Q	Q
Concrete	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q
Renovations in Buildings Constructed Before 1980					
(more than one may apply)					
Any Type of Renovation					
Since 1980	19	1,774	92	197	2,170
Addition or Annex	3	481	186	Q	2,170 Q
Reduction In Floorspace	Q	Q	Q	Q	Q
Cosmetic Improvements	12	1,298	109	143	1,595
Wall or Roof Replacement	9	897	99	99	1,599 Q
Interior Wall	3	007	33	33	Q
Re-Configuration	7	1,088	158	124	1,315
HVAC Equipment Upgrade	10	1,381	137	128	1,520
Lighting Upgrade	16	1,413	88	157	1,706
Window Replacement	6	725	Q	137 Q	1,700 Q
Plumbing System Upgrade	8	963	Q	103	1,211
Insulation Upgrade	3	401	144	Q	_
Other Renovation	Q	401 Q	_	Q	Q Q
No Renovations Since 1980	33	1,873	Q 57	229	Q
Building Newer than 1980	15	1,796	122	208	Q
Energy Sources (more than					
one may apply)		5 4.0	2.		701-
Electricity	67	5,443	81	634	7,245
Natural Gas	25	2,444	100	305	3,578
Fuel Oil	4	1,731	393	177	1,960
District Heat	67	5,443	81	634	7,245
District Chilled Water	25	2,311	93	309	Q
Propane	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q

Table C37. Total District Heat Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings* Using District Heat			District Heat Consumption	District Heat Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million dollars)
All Buildings*	67	5,443	81	634	7,245
Space-Heating Energy Sources					
District Heat	65	5,198	80	633	7.238
District Heat Main	63	4,907	77	618	7,089
District Heat Secondary	2	340	167	Q	
Other Excluding District Heat	Q	Q	Q	Q	
Buildings without Heating	Q	Q	Q	Q	Q
Primary Space-Heating					
Energy Source					
Electricity	Q	Q	Q	Q	Q
Natural Gas	Q	Q	Q	Q	Q
Fuel Oil	N	N	N	N	N
District Heat	63	4,907	77	618	7,089
Propane	N	N	N	N	N
Other	N	N	N	N	N
Cooling Energy Sources					
District Heat	Q	Q	Q	Q	
Other Excluding District Heat	54	4,204	78	493	5,743
Buildings without Cooling	Q	Q	Q	Q	Q
Water-Heating Energy Sources					
District Heat	27	3,088	113	329	3,690
Other Excluding District Heat	34	1,543	46	194	Q
Buildings without Water Heating	Q	Q	Q	Q	Q
Cooking Energy Sources					
District Heat	2	588	361	77	Q
Other Excluding District Heat	7	1,338	Q	142	1,547
Buildings without Cooking	58	3,517	61	415	4,849
Energy End Uses (more than one may apply)					
Buildings with Space Heating	67	5,378	81	634	7,242
Buildings with Cooling	55	4,653	85	535	6,079
Buildings with Water Heating	61	4,631	76	523	5,984
Buildings with Cooking	9	1,926	214	219	2,396
Buildings with Manufacturing	Q	1,920 Q	214 Q	219 Q	2,390 Q
Buildings with Electricity	Q	Q	Q	Q	Q
Generation	7	2,121	309	237	2,772
Banand of Flance					
Percent of Floorspace Heated	^	^	^	^	^
Not Heated	Q	Q	Q	Q	Q
1 to 50	Q	Q	Q	Q	Q
51 to 99	5	636	116	57	Q
100	60	4,716	78	575	6,635

Table C37. Total District Heat Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings* Using District Heat			District Heat Consumption	District Heat Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million dollars)
All Buildings*	67	5,443	81	634	7,245
Heating Equipment (more					
than one may apply)					
Heat Pumps	2	413	208	Q	Q
Packaged Heat Pumps	Q	Q	Q	Q	Q
Split-System Heat Pumps	Q	Q	Q	Q	
Individual Room Heat Pumps	Q	Q	Q	Q	Q
Furnaces	Q	Q	Q	Q	Q
Individual Space Heaters	5	605	124	50	Q
District Heat	65	5,166	80	628	7,177
Boilers	Q	Q	Q	Q	
Packaged Heating Units	3	589	191	Q	Q
Other	Q	Q	Q	Q	Q
Water Heating Equipment					
Centralized System	43	2,671	62	286	3,266
Distributed System	5	483	89	Q	Q
Combination of Centralized					
and Distributed System	12	1,477	119	170	1,811
Energy-Related Space Functions					
(more than one may apply)					
Commercial Food Preparation	9	1,926	214	219	2,396
Activities with Large					
Amounts of Hot Water	19	2,259	121	273	3,003
Separate Computer Area	19	3,268	172	374	4,282
HVAC Conservation Features (more than one may apply)					
Variable Air-Volume System	26	3,017	117	368	4,184
Economizer Cycle	22	3,045	140	334	3,896
HVAC Maintenance	60	5,154	86	612	6,987
Energy Management and					
Control System (EMCS)	18	2,782	158	320	3,636
Equipment Usage Reduced When Building Not In Full Use					
(more than one may apply) ^a	20	2 1 4 0	105	250	4.040
Heating	30	3,140	105	356	4,048
Cooling	29 49	3,378	117 73	390 406	4,461 4,534
Lighting	23	3,624 1,325	73 58	406 Q	4,534 Q
Office Equipment	23	1,323	50	Q	Q

Table C37. Total District Heat Consumption and Expenditures for Non-Mall Buildings, 2003

	All Buildings* Using District Heat			District Heat Consumption	District Heat Expenditures
	Number of Buildings (thousand)	Floorspace (million square feet)	Floorspace per Building (thousand square feet)	Total (trillion Btu)	Total (million dollars)
All Buildings*	67	5,443	81	634	7,245

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 district heat.

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, there were no responding malls in the sample using district heat.

^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.