

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	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	Q	Q	Q	Q
Middle Atlantic	12	1,082	90	Q	Q
Midwest	13	1,648	126	225	2,329
East North Central	8	1,420	189	192	Q
West North Central	Q	Q	Q	Q	Q
South	21	1,766	83	182	Q
South Atlantic	15	1,243	86	117	Q
East South Central	Q	Q	Q	Q	Q
West South Central	Q	Q	Q	Q	Q
West	15	667	44	Q	Q
Mountain	7	253	35	Q	Q
Pacific	8	413	53	Q	Q

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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	14	Q	44	Q	Q
Two	19	515	27	Q	Q
Three	11	458	41	Q	Q
Four to Nine	20	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	Q
10 to 19	Q	Q	Q	Q	Q
20 to 49	16	667	41	96	Q
50 to 99	7	474	67	Q	Q
100 to 249	9	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	Q
40 to 48	12	493	41	Q	Q
49 to 60	18	1,590	87	176	2,041
61 to 84	11	785	69	73	Q
85 to 167	9	790	91	91	Q
Open Continuously	11	1,605	144	210	2,486
Ownership and Occupancy					
Nongovernment Owned	25	2,148	87	247	2,746
Owner Occupied	16	1,421	87	185	2,078
Nonowner Occupied	8	698	86	Q	Q
Unoccupied	Q	Q	Q	Q	Q
Government Owned	42	3,295	78	387	4,499
Federal	4	Q	219	Q	Q
State	27	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
2 to 5	15	1,301	85	156	Q
6 to 10	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q
More than 20	1	436	699	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q

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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	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	Q
Interior Wall					
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	Q	Q
Plumbing System Upgrade	8	963	Q	103	1,211
Insulation Upgrade	3	401	144	Q	Q
Other Renovation	Q	Q	Q	Q	Q
No Renovations Since 1980	33	1,873	57	229	Q
Building Newer than 1980	15	1,796	122	208	Q
Energy Sources (more than one may apply)					
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

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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	Q
Other Excluding District Heat	Q	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	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	Q	Q	Q	Q
Buildings with Electricity Generation	7	2,121	309	237	2,772
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

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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	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	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					
Heating	30	3,140	105	356	4,048
Cooling	29	3,378	117	390	4,461
Lighting	49	3,624	73	406	4,534
Office Equipment	23	1,325	58	Q	Q

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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/cbeecs>.

* 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.

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.

Table C38. District Heat Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	District Heat Consumption			District Heat Expenditures		
	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pounds (dollars)
All Buildings*	9,475	116.44	62.2	108.3	1.33	11.43
Building Floorspace (Square Feet)						
1,001 to 5,000	Q	Q	Q	Q	Q	Q
5,001 to 10,000	Q	Q	Q	Q	Q	Q
10,001 to 25,000	Q	Q	Q	Q	Q	Q
25,001 to 50,000	Q	Q	Q	Q	Q	Q
50,001 to 100,000	Q	Q	Q	Q	Q	Q
100,001 to 200,000	17,452	118.10	Q	Q	Q	Q
200,001 to 500,000	34,658	121.16	143.2	Q	Q	Q
Over 500,000	85,182	99.92	52.4	911.2	1.07	10.70
Principal Building Activity						
Education	5,223	116.63	Q	Q	Q	Q
Food Sales	N	N	N	N	N	N
Food Service	Q	Q	Q	Q	Q	Q
Health Care	Q	Q	Q	Q	Q	Q
Inpatient	Q	Q	Q	Q	Q	Q
Outpatient	Q	Q	Q	Q	Q	Q
Lodging	Q	Q	Q	Q	Q	Q
Retail (Other Than Mall)	Q	Q	Q	Q	Q	Q
Office	7,933	81.53	35.7	89.4	0.92	11.27
Public Assembly	Q	Q	Q	Q	Q	Q
Public Order and Safety	Q	Q	Q	Q	Q	Q
Religious Worship	Q	Q	Q	Q	Q	Q
Service	Q	Q	Q	Q	Q	Q
Warehouse and Storage	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q
Vacant	Q	Q	Q	Q	Q	Q
Year Constructed						
Before 1920	Q	Q	Q	Q	Q	Q
1920 to 1945	10,610	107.03	130.0	116.9	1.18	11.02
1946 to 1959	Q	Q	Q	Q	Q	Q
1960 to 1969	8,787	137.56	108.5	Q	Q	Q
1970 to 1979	13,255	131.66	80.8	Q	Q	Q
1980 to 1989	Q	Q	Q	Q	Q	Q
1990 to 1999	Q	Q	Q	Q	Q	Q
2000 to 2003	Q	Q	Q	Q	Q	Q
Census Region and Division						
Northeast	9,423	120.80	67.0	Q	1.57	12.97
New England	Q	Q	Q	Q	Q	Q
Middle Atlantic	Q	Q	Q	Q	Q	Q
Midwest	17,217	136.50	158.8	Q	1.41	10.35
East North Central	25,607	135.33	166.7	Q	Q	Q
West North Central	Q	Q	Q	Q	Q	Q
South	8,547	102.81	33.5	Q	1.17	11.36
South Atlantic	8,059	94.14	Q	Q	Q	Q
East South Central	Q	Q	Q	Q	Q	Q
West South Central	Q	Q	Q	Q	Q	Q
West	Q	Q	Q	Q	Q	Q
Mountain	Q	Q	Q	Q	Q	Q
Pacific	Q	Q	Q	Q	Q	Q

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Table C38. District Heat Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	District Heat Consumption			District Heat Expenditures		
	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pounds (dollars)
All Buildings*	9,475	116.44	62.2	108.3	1.33	11.43
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	Q	106.35	123.8	Q	Q	Q
5,500-7,000 HDD	9,453	142.89	132.6	Q	Q	Q
4,000-5,499 HDD	10,354	103.48	54.8	128.9	1.29	12.45
Fewer than 4,000 HDD	7,681	98.14	84.1	Q	Q	Q
2,000 CDD or More and --						
Fewer than 4,000 HDD	Q	Q	Q	Q	Q	Q
Number of Floors						
One	Q	Q	Q	Q	Q	Q
Two	Q	Q	Q	Q	Q	Q
Three	Q	Q	Q	Q	Q	Q
Four to Nine	15,573	124.37	50.3	175.3	1.40	11.26
Ten or More	44,811	90.27	43.9	528.5	1.06	11.79
Number of Workers (main shift)						
Fewer than 5	Q	Q	Q	Q	Q	Q
5 to 9	Q	Q	Q	Q	Q	Q
10 to 19	Q	Q	Q	Q	Q	Q
20 to 49	5,854	143.70	191.2	Q	Q	Q
50 to 99	Q	Q	Q	Q	Q	Q
100 to 249	13,794	118.34	91.9	Q	Q	Q
250 or More	42,936	105.81	30.2	463.4	1.14	10.79
Weekly Operating Hours						
Fewer than 40	Q	Q	Q	Q	Q	Q
40 to 48	Q	Q	Q	Q	Q	Q
49 to 60	9,574	110.41	75.1	111.3	1.28	11.62
61 to 84	6,414	92.92	92.0	Q	Q	Q
85 to 167	10,530	115.52	Q	Q	Q	Q
Open Continuously	18,825	130.78	86.8	Q	1.55	11.84
Ownership and Occupancy						
Nongovernment Owned	10,055	114.95	70.9	111.8	1.28	11.12
Owner Occupied	11,348	129.95	76.9	127.7	1.46	11.26
Nonowner Occupied	Q	Q	Q	Q	Q	Q
Unoccupied	Q	Q	.	Q	Q	Q
Government Owned	9,139	117.42	57.7	106.3	1.37	11.63
Federal	Q	Q	Q	Q	Q	11.62
State	6,986	110.99	36.7	Q	Q	Q
Local	Q	Q	Q	Q	Q	Q
Vacancy Status						
Completely Vacant	Q	Q	Q	Q	Q	Q
Mostly Vacant.....	N	N	N	N	N	N
Partially Vacant	13,117	110.42	53.8	136.8	1.15	10.43
Not At All Vacant	8,535	120.21	64.5	100.5	1.42	11.77
Number of Establishments						
One	8,549	125.34	116.3	97.1	1.42	11.36
2 to 5	10,135	119.61	92.8	Q	Q	Q
6 to 10	Q	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	Q	Q	Q
Currently Unoccupied	Q	Q	Q	Q	Q	Q

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Table C38. District Heat Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	District Heat Consumption			District Heat Expenditures		
	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pounds (dollars)
All Buildings*	9,475	116.44	62.2	108.3	1.33	11.43
Predominant Exterior Wall Material						
Brick, Stone or Stucco	7,715	120.66	105.9	89.4	1.40	11.59
Concrete (Block or Poured)	Q	Q	Q	Q	Q	Q
Concrete Panels	Q	Q	Q	Q	Q	Q
Siding or Shingles	Q	Q	Q	Q	Q	Q
Metal Panels	Q	Q	Q	Q	Q	Q
Window Glass	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q
No One Major Type	Q	Q	Q	Q	Q	Q
Predominant Roof Material						
Built-Up	11,269	100.88	66.0	134.7	1.21	11.95
Shingles (Not Wood)	Q	Q	Q	Q	Q	Q
Metal Surfacing	Q	Q	Q	Q	Q	Q
Synthetic or Rubber	9,814	127.60	Q	Q	Q	Q
Slate or Tile	Q	Q	Q	Q	Q	Q
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	10,177	111.11	70.6	112.1	1.22	11.01
Addition or Annex	Q	Q	Q	Q	Q	Q
Reduction In Floorspace	Q	Q	Q	Q	Q	Q
Cosmetic Improvements	12,076	110.29	66.5	134.5	1.23	11.14
Wall or Roof Replacement	Q	110.32	60.4	Q	1.27	Q
Interior Wall						
Re-Configuration	17,959	113.58	71.2	191.0	1.21	10.64
HVAC Equipment Upgrade	12,723	93.03	58.0	150.5	1.10	11.83
Lighting Upgrade	9,807	110.92	75.6	106.8	1.21	10.89
Window Replacement	Q	Q	Q	Q	Q	Q
Plumbing System Upgrade	Q	107.28	59.6	Q	1.26	11.72
Insulation Upgrade	Q	Q	Q	Q	Q	Q
Other Renovation	Q	Q	Q	Q	Q	Q
No Renovations Since 1980	6,959	122.02	137.9	Q	Q	12.17
Building Newer than 1980	14,178	115.89	Q	Q	Q	Q
Energy Sources (more than one may apply)						
Electricity	9,475	116.44	62.2	108.3	1.33	11.43
Natural Gas	Q	124.63	43.8	Q	1.46	11.74
Fuel Oil	40,191	102.33	61.1	444.6	1.13	11.06
District Heat	9,475	116.44	62.2	108.3	1.33	11.43
District Chilled Water	12,509	133.95	47.5	Q	Q	12.03
Propane	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q

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Table C38. District Heat Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	District Heat Consumption			District Heat Expenditures		
	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pounds (dollars)
All Buildings*	9,475	116.44	62.2	108.3	1.33	11.43
Space-Heating Energy Sources						
District Heat	9,709	121.82	63.7	111.0	1.39	11.43
District Heat Main	9,746	125.84	63.5	111.9	1.44	11.48
District Heat Secondary	Q	Q	Q	Q	Q	Q
Other Excluding District Heat	Q	Q	Q	Q	Q	Q
Buildings without Heating	Q	Q	Q	Q	Q	Q
Primary Space-Heating Energy Source						
Electricity	Q	Q	Q	Q	Q	Q
Natural Gas	Q	Q	Q	Q	Q	Q
Fuel Oil.....	N	N	N	N	N	N
District Heat	9,746	125.84	63.5	111.9	1.44	11.48
Propane.....	N	N	N	N	N	N
Other.....	N	N	N	N	N	N
Cooling Energy Sources						
District Heat	Q	Q	Q	Q	Q	Q
Other Excluding District Heat	9,102	117.19	53.8	106.1	1.37	11.66
Buildings without Cooling	Q	Q	Q	Q	Q	Q
Water-Heating Energy Sources						
District Heat	12,041	106.49	78.4	135.1	1.19	11.22
Other Excluding District Heat	5,786	125.93	Q	Q	Q	11.81
Bldgs without Water Heating	Q	Q	Q	Q	Q	Q
Cooking Energy Sources						
District Heat	47,088	130.34	99.8	Q	Q	Q
Other Excluding District Heat	Q	106.36	55.2	Q	1.16	10.87
Buildings without Cooking	7,166	117.96	60.6	83.7	1.38	11.69
Energy End Uses (more than one may apply)						
Buildings with Space Heating	9,502	117.81	62.3	108.6	1.35	11.43
Buildings with Cooling	9,726	114.90	52.8	110.6	1.31	11.37
Buildings with Water Heating	8,591	112.97	52.6	98.3	1.29	11.44
Buildings with Cooking	Q	113.68	65.4	Q	1.24	10.95
Buildings with Manufacturing	Q	Q	Q	Q	Q	Q
Buildings with Electricity Generation	34,643	111.97	63.7	404.4	1.31	11.67
Percent of Floorspace Heated						
Not Heated	Q	Q	Q	Q	Q	Q
1 to 50	Q	Q	Q	Q	Q	Q
51 to 99	Q	90.46	57.2	Q	Q	Q
100	9,543	121.88	62.8	110.2	1.41	11.54

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Table C38. District Heat Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	District Heat Consumption			District Heat Expenditures		
	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pounds (dollars)
All Buildings*	9,475	116.44	62.2	108.3	1.33	11.43
Heating Equipment (more than one may apply)						
Heat Pumps	Q	Q	Q	Q	Q	Q
Packaged Heat Pumps	Q	Q	Q	Q	Q	Q
Split-System Heat Pumps	Q	Q	Q	Q	Q	Q
Individual Room Heat Pumps	Q	Q	Q	Q	Q	Q
Furnaces	Q	Q	Q	Q	Q	Q
Individual Space Heaters	10,195	82.45	58.3	Q	Q	Q
District Heat	9,685	121.56	63.8	110.7	1.39	11.43
Boilers	Q	Q	Q	Q	Q	Q
Packaged Heating Units	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q
Water Heating Equipment						
Centralized System	6,647	107.14	86.4	75.9	1.22	11.41
Distributed System	Q	Q	Q	Q	Q	Q
Combination of Centralized and Distributed System	13,682	115.22	Q	145.6	1.23	10.64
Energy-Related Space Functions (more than one may apply)						
Commercial Food Preparation	Q	113.68	65.4	Q	1.24	10.95
Activities with Large Amounts of Hot Water	14,656	120.84	86.8	161.3	1.33	11.00
Separate Computer Area	19,658	114.53	68.8	224.9	1.31	11.44
HVAC Conservation Features (more than one may apply)						
Variable Air-Volume System	14,271	121.86	47.8	162.4	1.39	11.38
Economizer Cycle	15,337	109.59	43.7	179.1	1.28	11.68
HVAC Maintenance	10,171	118.71	60.9	116.2	1.36	11.42
Energy Management and Control System (EMCS)	18,226	115.02	76.7	207.1	1.31	11.36
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^a						
Heating	11,880	113.38	72.8	135.1	1.29	11.37
Cooling	13,500	115.39	46.4	154.5	1.32	11.44
Lighting	8,207	111.90	52.5	91.8	1.25	11.18
Office Equipment	Q	Q	Q	Q	Q	Q

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Table C38. District Heat Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	District Heat Consumption			District Heat Expenditures		
	per Building (million Btu)	per Square Foot (thousand Btu)	per Worker (million Btu)	per Building (thousand dollars)	per Square Foot (dollars)	per Thousand Pounds (dollars)
All Buildings*	9,475	116.44	62.2	108.3	1.33	11.43

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>.

* 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, 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.

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.