

Table C26. District Heat Consumption and Expenditure Intensities, 1999

	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	3,692	73.55	50.1	30.4	0.60	8.22
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	3,272	92.85	129.6	26.5	0.75	8.10
50,001 to 100,000	7,466	104.03	84.9	51.3	0.72	6.87
100,001 to 200,000	10,653	79.80	52.2	88.3	0.66	8.29
200,001 to 500,000	17,898	57.03	33.8	157.7	0.50	8.81
Over 500,000	47,449	49.20	30.8	437.9	0.45	9.23
Principal Building Activity						
Education	3,151	100.60	87.3	23.8	0.76	7.54
Food Sales	Q	Q	Q	Q	Q	Q
Food Service	Q	Q	Q	Q	Q	Q
Health Care	13,465	62.10	35.4	Q	Q	Q
Inpatient	Q	Q	Q	Q	Q	Q
Outpatient	Q	Q	Q	Q	Q	Q
Lodging	3,658	107.51	Q	26.0	0.77	7.12
Mercantile	Q	Q	Q	Q	Q	Q
Retail (Other Than Mall)	Q	Q	Q	Q	Q	Q
Office	3,655	48.15	18.6	35.1	0.46	9.59
Public Assembly	3,853	69.86	147.9	Q	0.57	8.21
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						
1919 or Before	1,899	76.33	51.1	13.7	0.55	7.22
1920 to 1945	6,475	Q	Q	57.8	0.70	8.92
1946 to 1959	3,653	70.06	45.0	31.3	0.60	8.55
1960 to 1969	5,547	70.90	49.3	45.4	0.58	8.18
1970 to 1979	3,619	87.44	49.1	28.3	0.68	7.81
1980 to 1989	Q	68.93	36.3	Q	Q	Q
1990 to 1999	Q	Q	Q	Q	Q	Q
Census Region and Division						
Northeast	4,371	71.91	44.8	40.5	0.67	9.26
New England	Q	Q	Q	Q	Q	Q
Middle Atlantic	4,127	70.49	43.0	39.3	0.67	9.53
Midwest	5,291	87.08	71.2	40.8	0.67	7.71
East North Central	Q	100.48	90.3	Q	0.77	7.70
West North Central	3,806	72.25	53.8	Q	0.56	7.74
South	1,708	52.66	38.4	14.2	0.44	8.32
South Atlantic	Q	Q	Q	Q	Q	Q
East South Central	Q	Q	Q	Q	Q	Q
West South Central	Q	Q	Q	Q	Q	Q
West	Q	80.99	48.6	Q	0.60	7.40
Mountain	Q	85.64	Q	Q	0.55	6.43
Pacific	Q	Q	Q	Q	Q	Q

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Climate Zone: 45-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	Q	Q	Q	Q	Q	Q
5,500-7,000 HDD	7,163	91.65	85.0	54.7	0.70	7.63
4,000-5,499 HDD	3,641	67.90	40.0	32.8	0.61	9.00
Fewer than 4,000 HDD	2,412	38.49	26.6	22.5	0.36	9.33
2,000 CDD or More and --						
Fewer than 4,000 HDD	Q	Q	Q	Q	Q	Q
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	Q	83.09	Q	Q	Q	Q
50 to 99	3,023	82.51	49.9	25.5	0.70	8.44
100 to 249	9,155	74.70	64.3	78.2	0.64	8.54
250 or More	19,617	56.62	24.7	168.9	0.49	8.61
Weekly Operating Hours						
39 or Fewer	Q	Q	Q	Q	Q	Q
40 to 48	1,356	69.11	55.6	Q	Q	Q
49 to 60	3,114	59.93	25.6	25.6	0.49	8.23
61 to 84	4,179	77.06	44.8	34.8	0.64	8.33
85 to 167	5,264	80.08	67.6	37.0	0.56	7.04
Open Continuously	6,666	76.70	63.0	55.9	0.64	8.38
Ownership and Occupancy						
Nongovernment Owned	3,709	74.91	47.0	31.3	0.63	8.45
Owner Occupied	4,266	77.84	51.1	34.8	0.64	8.17
Nonowner Occupied	Q	Q	Q	Q	Q	Q
Unoccupied.....	N	N	N	N	N	N
Government Owned	3,668	71.78	54.9	29.0	0.57	7.92
Federal	4,826	66.48	35.1	29.5	0.41	6.12
State	4,813	80.51	90.4	41.7	0.70	8.67
Local	Q	Q	Q	Q	Q	Q
Vacancy Status						
Completely Vacant.....	N	N	N	N	N	N
Mostly Vacant	Q	Q	Q	Q	Q	Q
Partially Vacant	3,104	54.03	34.0	32.3	0.56	10.41
Not At All Vacant	3,837	79.27	55.1	29.9	0.62	7.80
Number of Establishments						
One	3,448	83.73	65.5	26.6	0.65	7.71
2 to 5	4,928	59.66	42.8	Q	Q	Q
6 to 10	Q	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q
More than 20	24,895	48.20	24.5	287.4	0.56	11.54
Energy Sources (more than one may apply)						
Electricity	3,692	73.55	50.1	30.4	0.60	8.22
Natural Gas	3,479	67.90	43.3	27.9	0.54	8.02
Fuel Oil	13,995	58.04	29.9	124.3	0.52	8.88
District Heat	3,692	73.55	50.1	30.4	0.60	8.22
District Chilled Water	4,272	78.43	47.3	31.2	0.57	7.30
Propane	Q	Q	Q	Q	Q	Q
Other	Q	Q	Q	Q	Q	Q

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Space-Heating Energy Source						
District Heat	4,294	74.45	50.8	35.1	0.61	8.18
District Heat Main	5,233	79.25	57.4	42.6	0.65	8.14
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	Q	Q	Q	Q	Q	Q
District Heat	5,233	79.25	57.4	42.6	0.65	8.14
Propane.....	N	N	N	N	N	N
Other.....	N	N	N	N	N	N
Cooling Energy Source						
District Heat	Q	Q	Q	Q	Q	Q
Other Excluding District Heat.....	3,510	71.86	46.0	28.2	0.58	8.02
Buildings without Cooling	Q	88.92	258.7	Q	Q	Q
Water-Heating Energy Source						
District Heat	5,505	81.60	58.1	46.3	0.69	8.40
Other Excluding District Heat	1,279	44.98	27.0	10.6	0.37	8.25
Buildings without Water Heating	Q	Q	Q	Q	Q	Q
Cooking Energy Source						
District Heat	5,736	65.34	41.4	Q	Q	Q
Other Excluding District Heat.....	5,068	57.12	33.4	43.2	0.49	8.52
Buildings without Cooking	3,188	83.59	63.2	25.6	0.67	8.03
Energy End Uses (more than one may apply)						
Buildings with Space Heating	3,718	73.53	50.2	30.7	0.61	8.25
Buildings with Cooling	3,789	71.39	43.9	31.1	0.59	8.21
Buildings with Water Heating	3,865	73.87	50.6	32.4	0.62	8.38
Buildings with Cooking	5,288	59.81	35.9	45.5	0.51	8.60
Buildings with Manufacturing	Q	Q	Q	Q	Q	Q
Buildings with Electricity	Q	Q	Q	Q	Q	Q
Generation	9,187	66.82	36.6	76.5	0.56	8.33
Percent of Floorspace Heated						
Not Heated	Q	Q	Q	Q	Q	Q
1 to 50	Q	Q	Q	Q	Q	Q
51 to 99	2,639	57.77	38.4	24.8	0.54	9.38
100	4,130	78.77	53.1	33.3	0.64	8.06
Heating Equipment (more than one may apply)						
Heat Pumps	Q	Q	Q	Q	Q	Q
Furnaces	Q	Q	Q	Q	Q	Q
Individual Space Heaters	6,747	60.15	32.3	59.5	0.53	8.81
District Heat	4,294	74.45	50.8	35.1	0.61	8.18
Boilers	Q	Q	Q	Q	Q	Q
Packaged Heating Units	2,407	57.50	45.1	22.7	0.54	9.42
Other	Q	Q	Q	Q	Q	Q

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Water Heating Equipment						
Centralized System	3,343	80.61	58.3	27.1	0.65	8.10
Distributed System	Q	Q	Q	Q	Q	Q
Combination of Centralized and Distributed System	6,437	63.28	34.4	59.2	0.58	9.20

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.

Notes: * Statistics for the "energy end uses" represent consumption in buildings that have the end use, not consumption for a particular fuel for a particular end use. * Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 1999 Commercial Buildings Energy Consumption Survey.