

**Table B12. Consumption of District Heat by End Use, 1989**

Building Characteristics RSE Column Factor:	District Heat Consumption (trillion Btu)				RSE Row Factor
	Total	Space Heating	Water Heating	Other <sup>a</sup>	
	1.0	NF	NF	NF	
All Buildings .....	585	355	129	101	21.30
<b>Building Floorspace (Square Feet)</b>					
1,001 to 10,000 .....	Q	Q	Q	Q	NF
10,001 to 25,000 .....	63	42	Q	Q	44.51
25,001 to 50,000 .....	Q	Q	Q	Q	NF
50,001 to 100,000 .....	119	58	Q	25	49.81
100,001 to 200,000 .....	106	71	Q	Q	38.40
Over 200,000 .....	209	120	Q	31	36.55
<b>Year Constructed</b>					
1945 or Before .....	161	96	Q	20	42.01
1946 to 1959 .....	Q	Q	15	Q	NF
1960 to 1969 .....	156	86	Q	26	39.95
1970 to 1979 .....	110	67	15	28	33.59
1980 to 1989 .....	Q	24	Q	Q	NF
<b>BUILDING USE</b>					
<b>Principal Building Activity</b>					
Assembly .....	49	44	Q	Q	35.38
Education .....	Q	Q	Q	Q	NF
Food Sales and Service .....	Q	Q	Q	Q	NF
Health Care .....	92	23	Q	Q	48.56
Lodging .....	Q	Q	Q	Q	NF
Mercantile and Service .....	6	Q	Q	Q	46.28
Office .....	167	127	15	26	22.80
Warehouse .....	Q	Q	Q	Q	NF
Other .....	49	33	Q	Q	41.02
Vacant .....	Q	Q	Q	Q	NF
<b>Weekly Operating Hours</b>					
39 or Fewer .....	Q	Q	Q	Q	NF
40 to 48 .....	105	79	Q	20	34.46
49 to 60 .....	66	55	3	8	25.76
61 to 84 .....	60	39	Q	Q	38.50
85 to 167 .....	Q	Q	Q	Q	NF
168 (Open Continuously) .....	272	124	90	59	33.33
<b>Workers</b>					
4 or Fewer .....	Q	Q	Q	Q	NF
5 to 9 .....	Q	Q	Q	Q	NF
10 to 19 .....	16	10	Q	Q	32.36
20 to 49 .....	Q	87	Q	Q	NF
50 to 99 .....	Q	51	Q	Q	NF
100 to 249 .....	99	54	Q	Q	34.67
250 or More .....	225	127	Q	38	34.30
<b>Ownership and Occupancy</b>					
Nongovernment Owned .....	284	141	Q	65	27.16
Owner Occupied .....	263	130	Q	58	28.65
Single Establishment .....	228	108	Q	53	33.34
Multiple Establishment .....	35	21	Q	4	23.86
Nonowner Occupied .....	Q	Q	Q	Q	NF
Single Establishment .....	Q	Q	Q	Q	NF
Multiple Establishment .....	Q	5	Q	Q	NF
Vacant .....	Q	Q	NC	Q	NF
Government Owned .....	301	214	51	36	28.07
Federal .....	Q	Q	Q	Q	NF
State .....	201	146	Q	21	35.62
Local .....	35	19	Q	Q	42.67

See footnotes at end of table.

**Table B12. Consumption of District Heat by End Use, 1989 (Continued)**

Building Characteristics	District Heat Consumption (trillion Btu)				RSE Row Factor
	Total	Space Heating	Water Heating	Other <sup>a</sup>	
	1.0	NF	NF	NF	
RSE Column Factor:	1.0	NF	NF	NF	
<b>Multibuilding Facility</b>					
Not on Multibuilding Facility.....	58	38	Q	7	30.76
Part of Multibuilding Facility.....	527	317	116	94	24.33
On Facility with Central Plant.....	476	277	108	91	25.31
<b>Percent Vacant at Least Three Months</b>					
0.....	412	261	75	75	22.89
1 to 50.....	131	67	Q	17	38.91
51 to 99.....	Q	Q	Q	Q	NF
100.....	Q	Q	Q	Q	NF
<b>Months in Use Out of Past 12 Months</b>					
0 to 8.....	Q	Q	Q	Q	NF
9 to 11.....	Q	Q	Q	Q	NF
12.....	555	335	121	99	21.28
<b>LOCATION</b>					
<b>Census Region</b>					
Northeast.....	179	111	39	29	34.50
Midwest.....	159	70	Q	30	39.48
South.....	126	90	Q	21	44.55
West.....	121	84	17	Q	39.73
<b>Census Division</b>					
Northeast					
New England.....	Q	Q	Q	Q	NF
Middle Atlantic.....	127	87	22	18	27.22
Midwest					
East North Central.....	88	42	Q	Q	46.67
West North Central.....	Q	Q	Q	12	NF
South					
South Atlantic.....	Q	Q	Q	Q	NF
East South Central.....	Q	Q	Q	Q	NF
West South Central.....	Q	Q	Q	Q	NF
West					
Mountain.....	Q	55	7	Q	NF
Pacific.....	Q	Q	9	Q	NF
<b>Climate Zone: 45-Year Average</b>					
Under 2,000 CDD and --					
Over 7,000 HDD.....	Q	Q	Q	Q	NF
5,500-7,000 HDD.....	199	120	Q	43	34.35
4,000-5,499 HDD.....	152	84	Q	24	40.29
Under 4,000 HDD.....	83	Q	Q	Q	46.05
2,000 CDD or More and --					
Under 4,000 HDD.....	Q	Q	Q	Q	NF
<b>1989 Degree-Days</b>					
Under 2,000 CDD and --					
Over 7,000 HDD.....	Q	74	Q	Q	NF
5,500-7,000 HDD.....	254	136	Q	53	32.06
4,000-5,499 HDD.....	84	55	16	Q	29.91
Under 4,000 HDD.....	Q	Q	12	Q	NF
2,000 CDD or More and --					
Under 4,000 HDD.....	Q	Q	Q	Q	NF
<b>STRUCTURE</b>					
<b>Floors</b>					
1.....	Q	Q	Q	Q	NF
2.....	70	48	Q	Q	44.61
3.....	Q	68	Q	26	NF
4 to 6.....	168	109	Q	Q	40.67
7 or More.....	177	96	Q	27	37.46

See footnotes at end of table.

**Table B12. Consumption of District Heat by End Use, 1989 (Continued)**

Building Characteristics  RSE Column Factor:	District Heat Consumption (trillion Btu)				RSE Row Factor
	Total	Space Heating	Water Heating	Other <sup>a</sup>	
	1.0	NF	NF	NF	
<b>Wall Materials</b>					
Masonry.....	385	226	107	52	27.08
Siding or Shingles.....	Q	Q	Q	Q	NF
Metal Panels.....	Q	Q	Q	Q	NF
Concrete Panels.....	113	73	11	29	41.24
Window Glass.....	23	15	Q	Q	37.95
Other.....	Q	Q	Q	Q	NF
<b>Roof Materials</b>					
Built-Up.....	309	190	59	60	21.20
Shingles (Not Wood).....	Q	Q	Q	Q	NF
Metal Surfacing.....	Q	Q	Q	Q	NF
Synthetic or Rubber.....	Q	70	Q	23	NF
Slate or Tile.....	40	33	3	Q	25.53
Concrete.....	Q	Q	Q	Q	NF
Wooden Materials.....	Q	Q	Q	NC	NF
Other.....	Q	Q	Q	Q	NF
<b>Building Shell Conservation Features (Solely or in Combination)</b>					
Roof or Ceiling Insulation.....	459	267	109	83	26.14
Wall Insulation.....	265	139	Q	52	31.63
Storm or Multiple Glazing.....	212	95	Q	40	33.22
Tinted, Reflective, or Shading Glass.....	246	150	Q	40	34.57
Exterior or Interior Shadings or Awnings.....	331	199	Q	63	27.28
Weather Stripping or Caulking.....	495	289	112	94	24.03
None of the Above.....	Q	Q	Q	Q	NF
<b>ENERGY SOURCES AND END USES</b>					
<b>Energy Sources (Solely or in Combination)</b>					
Electricity.....	585	355	129	101	20.66
Natural Gas.....	290	158	Q	44	34.05
Fuel Oil.....	143	55	Q	Q	45.15
District Heat.....	585	355	129	101	21.30
Other.....	192	115	Q	Q	41.83
<b>Energy End Uses (Solely or in Combination)</b>					
Heated Buildings.....	584	355	128	101	21.30
Air-Conditioned Buildings.....	506	312	109	85	20.96
Buildings with Water Heating.....	580	350	129	101	21.30
Buildings with Cooking.....	298	171	Q	52	28.83
Buildings with Manufacturing.....	Q	Q	Q	26	NF
<b>Space-Heating Energy Source</b>					
District Heat.....	520	355	76	89	19.83
Main.....	511	346	76	89	20.34
With Secondary.....	134	79	Q	28	40.97
Electricity Only.....	Q	Q	Q	Q	NF
Other Energy Sources or Combinations.....	60	34	13	13	39.13
With No Secondary.....	377	267	49	61	25.57
Secondary.....	Q	Q	Q	Q	NF
Other Excluding District Heat.....	Q	Q	Q	Q	NF
Building Not Heated.....	Q	NC	Q	NC	NF
<b>Main Space-Heating Energy Source</b>					
Electricity.....	Q	Q	Q	Q	NF
Natural Gas.....	Q	Q	Q	Q	NF
Fuel Oil.....	4	Q	Q	Q	11.54
District Heat.....	511	346	76	89	20.34
Other.....	Q	Q	Q	Q	NF

See footnotes at end of table.

**Table B12. Consumption of District Heat by End Use, 1989 (Continued)**

Building Characteristics	District Heat Consumption (trillion Btu)				RSE Row Factor
	Total	Space Heating	Water Heating	Other <sup>a</sup>	
	1.0	NF	NF	NF	
RSE Column Factor:					
<b>HEATING AND COOLING</b>					
<b>Percent Heated</b>					
Not Heated .....	Q	Q	Q	NC	NF
1 to 50 .....	Q	Q	Q	Q	NF
51 to 99 .....	59	48	8	Q	32.59
100 .....	519	304	119	96	22.47
<b>Percent Cooled</b>					
Not Cooled .....	Q	Q	Q	Q	NF
1 to 50 .....	113	75	16	Q	33.77
51 to 99 .....	137	100	22	Q	25.15
100 .....	256	137	Q	47	28.59
<b>Heating Equipment (Solely or in Combination)</b>					
Furnaces.....	Q	Q	Q	NC	NF
Boilers.....	50	Q	Q	Q	49.84
Individual Space Heaters .....	189	114	Q	30	40.89
Packaged Heating Units.....	Q	Q	Q	Q	NF
Heat Pumps .....	Q	Q	Q	Q	NF
Air Ducts .....	430	265	101	65	25.56
Heating or Reheating Coils .....	339	208	Q	53	27.57
Fan-Coil Units.....	267	156	Q	48	36.14
Steam or Hot Water Radiators or Baseboards.....	378	218	85	75	26.62
Other .....	Q	Q	Q	Q	NF
<b>ENERGY MANAGEMENT</b>					
<b>Occupant Control</b>					
Any Control of Heating .....	206	92	Q	40	37.85
With Thermostats .....	203	89	Q	40	38.28
Any Control of Cooling.....	223	113	Q	42	33.97
With Thermostats .....	216	108	Q	42	34.76
<b>Reduced Use During Off-Hours</b>					
Heating Only .....	Q	39	Q	Q	NF
Cooling Only.....	Q	19	Q	27	NF
Heating and Cooling .....	289	203	Q	33	33.27
<b>Computerized Energy Management and Control System</b>					
Present in Building.....	272	166	Q	35	32.90
Controls Heating and Cooling .....	271	165	Q	34	32.98
Controls Lighting .....	Q	Q	5	Q	NF
Controls Other.....	Q	12	Q	Q	NF
<b>Other Energy Management</b>					
Regular HVAC Maintenance.....	530	319	117	95	21.97
Participated in Utility Conservation Program.....	154	96	Q	Q	38.56

<sup>a</sup> Includes cooking and cooling.

NC = No cases in responding sample.

NF = No applicable RSE row/column factor.

Q = Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or data were reported for fewer than 20 buildings.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • Because of rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A through F of the 1989 Commercial Buildings Energy Consumption Survey.

**Table B13. Energy End-Use Intensities for District Heat, 1989**

Building Characteristics  RSE Column Factor:	Energy Intensity for District Heat (thousand Btu per sq. ft.)				RSE Row Factor
	Total	Space Heating	Water Heating	Other <sup>a</sup>	
	1.0	NF	NF	NF	
All Buildings .....	89.0	54.0	19.6	15.4	16.89
<b>Building Floorspace (Square Feet)</b>					
1,001 to 10,000 .....	Q	Q	23.6	Q	NF
10,001 to 25,000 .....	117.3	77.5	Q	Q	37.13
25,001 to 50,000 .....	Q	Q	Q	Q	NF
50,001 to 100,000 .....	142.0	69.6	Q	29.7	42.63
100,001 to 200,000 .....	89.6	60.1	Q	12.8	24.64
Over 200,000 .....	61.9	35.5	17.3	9.1	18.00
<b>Year Constructed</b>					
1945 or Before .....	94.5	56.5	26.3	11.7	21.71
1946 to 1959 .....	76.8	52.3	9.2	15.3	17.41
1960 to 1969 .....	128.3	70.9	35.7	21.8	32.88
1970 to 1979 .....	89.4	54.3	12.3	22.8	28.76
1980 to 1989 .....	44.0	27.7	13.0	Q	23.52
<b>BUILDING USE</b>					
<b>Principal Building Activity</b>					
Assembly .....	59.5	53.3	4.4	Q	18.37
Education .....	82.3	55.0	Q	8.3	18.33
Food Sales and Service .....	55.8	Q	11.7	Q	49.57
Health Care .....	135.1	34.2	68.8	32.2	11.83
Lodging .....	Q	59.8	Q	Q	NF
Mercantile and Service .....	56.2	Q	2.7	Q	34.98
Office .....	72.1	Q	6.3	11.0	44.69
Warehouse .....	172.5	95.6	.3	Q	45.53
Other .....	109.7	74.4	Q	Q	30.63
Vacant .....	20.9	14.8	Q	Q	17.30
<b>Weekly Operating Hours</b>					
39 or Fewer .....	Q	Q	Q	Q	NF
40 to 48 .....	113.3	84.8	Q	21.7	32.72
49 to 60 .....	56.0	46.6	2.9	6.5	24.14
61 to 84 .....	Q	Q	Q	Q	NF
85 to 167 .....	62.3	44.0	7.8	10.5	6.27
168 (Open Continuously) .....	126.6	57.4	41.7	27.5	22.14
<b>Workers</b>					
4 or Fewer .....	50.4	29.1	10.5	Q	16.88
5 to 9 .....	79.4	47.1	Q	Q	46.17
10 to 19 .....	86.4	55.2	Q	Q	23.94
20 to 49 .....	Q	96.0	Q	Q	NF
50 to 99 .....	Q	80.7	8.8	Q	NF
100 to 249 .....	110.0	59.9	29.9	20.2	12.83
250 or More .....	69.2	39.0	18.5	11.7	22.59
<b>Ownership and Occupancy</b>					
Nongovernment Owned .....	84.3	42.0	23.1	19.2	23.52
Owner Occupied .....	85.2	42.1	24.5	18.7	23.27
Single Establishment .....	112.8	53.7	32.6	26.5	16.71
Multiple Establishment .....	33.0	20.1	9.0	Q	24.53
Nonowner Occupied .....	74.4	40.8	Q	Q	34.14
Single Establishment .....	110.9	63.3	Q	Q	7.82
Multiple Establishment .....	59.6	30.9	Q	Q	38.89
Vacant .....	Q	Q	NC	Q	NF
Government Owned .....	93.8	66.6	15.9	11.3	21.48
Federal .....	58.4	43.0	3.8	11.6	4.51
State .....	121.3	88.3	Q	Q	31.38
Local .....	80.8	44.8	30.9	Q	27.05

See footnote at end of table.

**Table B13. Energy End-Use Intensities for District Heat, 1989 (Continued)**

Building Characteristics  RSE Column Factor:	Energy Intensity for District Heat (thousand Btu per sq. ft.)				RSE Row Factor
	Total	Space Heating	Water Heating	Other <sup>a</sup>	
	1.0	NF	NF	NF	
<b>Multibuilding Facility</b>					
Not on Multibuilding Facility.....	44.9	29.6	9.8	5.5	34.61
Part of Multibuilding Facility.....	99.7	59.9	22.0	17.8	16.93
On Facility with Central Plant.....	107.3	62.4	24.2	20.6	17.80
<b>Percent Vacant at Least Three Months</b>					
0.....	102.8	65.3	18.7	18.8	19.78
1 to 50.....	71.4	36.7	25.5	9.2	25.75
51 to 99.....	66.2	42.3	Q	16.0	7.15
100.....	36.4	19.8	Q	2.1	17.77
<b>Months in Use Out of Past 12 Months</b>					
0 to 8.....	35.7	15.1	13.0	Q	17.02
9 to 11.....	66.6	Q	Q	Q	37.09
12.....	92.2	55.6	20.1	16.5	16.69
<b>LOCATION</b>					
<b>Census Region</b>					
Northeast.....	80.1	49.5	17.5	Q	36.85
Midwest.....	105.3	46.6	38.7	20.0	12.36
South.....	Q	Q	Q	13.4	NF
West.....	97.1	67.2	Q	16.4	13.69
<b>Census Division</b>					
Northeast					
New England.....	Q	Q	Q	Q	NF
Middle Atlantic.....	68.3	46.6	12.0	Q	27.89
Midwest					
East North Central.....	104.0	49.6	33.4	21.0	16.02
West North Central.....	106.9	42.7	45.4	18.8	14.36
South					
South Atlantic.....	Q	Q	Q	Q	NF
East South Central.....	Q	Q	Q	Q	NF
West South Central.....	Q	Q	Q	Q	NF
West					
Mountain.....	99.1	74.8	Q	14.1	12.73
Pacific.....	94.4	56.4	18.3	Q	22.50
<b>Climate Zone: 45-Year Average</b>					
Under 2,000 CDD and --					
Over 7,000 HDD.....	206.3	117.8	Q	Q	43.76
5,500-7,000 HDD.....	90.4	54.7	Q	19.3	15.92
4,000-5,499 HDD.....	71.8	39.8	20.6	Q	28.13
Under 4,000 HDD.....	70.6	Q	13.2	Q	40.97
2,000 CDD or More and --					
Under 4,000 HDD.....	Q	Q	Q	Q	NF
<b>1989 Degree-Days</b>					
Under 2,000 CDD and --					
Over 7,000 HDD.....	Q	91.1	Q	Q	NF
5,500-7,000 HDD.....	92.5	49.4	23.7	19.3	15.79
4,000-5,499 HDD.....	63.0	Q	12.3	Q	33.84
Under 4,000 HDD.....	67.2	Q	11.3	Q	46.66
2,000 CDD or More and --					
Under 4,000 HDD.....	Q	Q	Q	Q	NF
<b>STRUCTURE</b>					
<b>Floors</b>					
1.....	Q	111.7	Q	Q	NF
2.....	82.8	56.2	Q	Q	27.67
3.....	Q	59.3	Q	22.6	NF
4 to 6.....	101.2	65.8	Q	13.4	15.37
7 or More.....	67.9	36.6	21.1	10.2	24.83

See footnote at end of table.

**Table B13. Energy End-Use Intensities for District Heat, 1989 (Continued)**

Building Characteristics  RSE Column Factor:	Energy Intensity for District Heat (thousand Btu per sq. ft.)				RSE Row Factor
	Total	Space Heating	Water Heating	Other <sup>a</sup>	
	1.0	NF	NF	NF	
<b>Wall Materials</b>					
Masonry .....	98.4	57.9	27.3	13.2	18.73
Siding or Shingles .....	Q	Q	Q	66.2	NF
Metal Panels .....	104.7	Q	Q	Q	11.99
Concrete Panels .....	87.1	56.2	8.1	22.8	19.80
Window Glass .....	Q	Q	9.5	Q	NF
Other .....	Q	Q	Q	Q	NF
<b>Roof Materials</b>					
Built-Up .....	92.1	56.6	17.6	18.0	13.19
Shingles (Not Wood) .....	Q	83.6	Q	Q	NF
Metal Surfacing .....	103.2	96.7	5.5	Q	33.13
Synthetic or Rubber .....	Q	51.2	Q	16.7	NF
Slate or Tile .....	118.2	96.8	9.2	12.2	19.74
Concrete .....	26.5	Q	Q	Q	10.27
Wooden Materials .....	71.4	37.4	Q	NC	20.16
Other .....	107.3	Q	93.1	9.4	8.42
<b>Building Shell Conservation</b>					
<b>Features (Solely or in Combination)</b>					
Roof or Ceiling Insulation .....	88.2	51.3	20.9	16.0	15.71
Wall Insulation .....	90.4	47.4	25.3	17.8	13.78
Storm or Multiple Glazing .....	90.2	40.4	32.8	17.0	14.80
Tinted, Reflective, or Shading Glass .....	77.1	46.8	17.8	12.5	25.91
Exterior or Interior Shadings or Awnings .....	75.8	45.6	15.8	14.4	19.76
Weather Stripping or Caulking .....	87.3	51.0	19.7	16.6	17.94
None of the Above .....	Q	69.9	12.8	Q	NF
<b>ENERGY SOURCES AND END USES</b>					
<b>Energy Sources</b>					
<b>(Solely or in Combination)</b>					
Electricity .....	89.0	54.0	19.6	15.4	18.75
Natural Gas .....	85.0	46.2	25.7	13.0	20.68
Fuel Oil .....	101.2	38.9	Q	Q	36.54
District Heat .....	89.0	54.0	19.6	15.4	16.89
Other .....	87.0	52.0	Q	15.6	15.37
<b>Energy End Uses</b>					
<b>(Solely or in Combination)</b>					
Heated Buildings .....	89.0	54.1	19.4	15.4	16.89
Air-Conditioned Buildings .....	84.9	52.4	18.3	14.3	15.57
Buildings with Water Heating .....	89.8	54.3	19.9	15.6	17.01
Buildings with Cooking .....	76.4	43.9	19.3	13.3	17.88
Buildings with Manufacturing .....	64.5	41.2	3.0	20.3	15.33
<b>Space-Heating Energy Source</b>					
District Heat .....	85.7	58.6	12.5	14.7	18.25
Main .....	85.7	58.1	12.7	14.9	17.86
With Secondary .....	116.0	68.7	Q	24.0	42.07
Electricity Only .....	Q	94.1	Q	Q	NF
Other Energy Sources or Combinations .....	88.7	50.8	Q	Q	39.57
With No Secondary .....	78.4	55.6	10.1	12.7	14.50
Secondary .....	Q	Q	Q	Q	NF
Other Excluding District Heat .....	129.1	Q	104.5	24.6	13.41
Building Not Heated .....	Q	NC	Q	NC	NF
<b>Main Space-Heating Energy Source</b>					
Electricity .....	52.3	Q	24.7	Q	47.59
Natural Gas .....	127.6	Q	83.8	18.6	11.34
Fuel Oil .....	88.2	Q	Q	Q	45.92
District Heat .....	85.7	58.1	12.7	14.9	17.86
Other .....	Q	Q	Q	Q	NF

See footnote at end of table.

**Table B13. Energy End-Use Intensities for District Heat, 1989 (Continued)**

Building Characteristics	Energy Intensity for District Heat (thousand Btu per sq. ft.)				RSE Row Factor
	Total	Space Heating	Water Heating	Other <sup>a</sup>	
	1.0	NF	NF	NF	
RSE Column Factor:					
<b>HEATING AND COOLING</b>					
<b>Percent Heated</b>					
Not Heated .....	Q	Q	Q	NC	NF
1 to 50 .....	46.9	Q	6.4	Q	41.52
51 to 99 .....	50.2	40.8	6.9	Q	28.01
100 .....	98.8	57.9	22.6	18.3	18.75
<b>Percent Cooled</b>					
Not Cooled .....	Q	69.7	Q	Q	NF
1 to 50 .....	104.1	68.6	15.1	Q	35.07
51 to 99 .....	77.6	56.7	12.2	8.7	15.35
100 .....	82.4	44.2	22.9	15.3	28.04
<b>Heating Equipment (Solely or in Combination)</b>					
Furnaces.....	Q	Q	Q	NC	NF
Boilers.....	Q	Q	Q	Q	NF
Individual Space Heaters .....	84.9	51.3	Q	13.6	16.32
Packaged Heating Units.....	82.9	51.3	Q	Q	37.04
Heat Pumps .....	73.9	62.0	9.2	Q	27.99
Air Ducts .....	76.8	47.2	18.0	11.6	17.11
Heating or Reheating Coils .....	72.8	44.7	16.6	11.4	18.14
Fan-Coil Units .....	85.9	50.1	20.3	15.4	13.52
Steam or Hot Water Radiators or Baseboards.....	96.9	55.9	21.7	19.2	19.24
Other.....	128.7	Q	73.9	Q	22.08
<b>ENERGY MANAGEMENT</b>					
<b>Occupant Control</b>					
Any Control of Heating .....	106.9	47.6	38.6	20.8	25.14
With Thermostats .....	107.8	47.2	39.4	21.2	25.26
Any Control of Cooling.....	99.5	50.4	30.3	18.8	17.32
With Thermostats .....	100.1	49.9	30.6	19.5	17.60
<b>Reduced Use During Off-Hours</b>					
Heating Only .....	Q	71.7	Q	Q	NF
Cooling Only .....	130.1	46.9	Q	66.4	47.68
Heating and Cooling .....	69.6	48.7	Q	7.9	20.28
<b>Computerized Energy Management and Control System</b>					
Present in Building.....	72.5	44.1	19.1	9.3	21.37
Controls Heating and Cooling .....	72.7	44.4	19.2	9.1	21.50
Controls Lighting .....	72.4	45.7	5.8	20.9	22.10
Controls Other.....	88.9	20.7	57.7	10.5	14.93
<b>Other Energy Management</b>					
Regular HVAC Maintenance.....	87.7	52.7	19.3	15.7	17.26
Participated in Utility Conservation Program.....	92.3	57.5	Q	13.6	35.95

<sup>a</sup> Includes cooking and cooling.

NC = No cases in responding sample.

NF = No applicable RSE row/column factor.

Q = Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or data were reported for fewer than 20 buildings.

Notes: • To obtain the RSE percentage for any table cell, multiply the corresponding RSE column and RSE row factors. • See Glossary for explanation of abbreviations and definitions of terms used in this report. • Because of rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Forms EIA-871A through F of the 1989 Commercial Buildings Energy Consumption Survey.