

1999 Commercial Buildings Energy Consumption Survey

Detailed Tables

Consumption and Expenditures Relative Standard Error (RSE) Tables

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RSEs for Table C1. Total Energy Consumption by Major Fuel, 1999

	RSEs for All Buildings		RSEs for Total Energy Consumption					RSEs for Primary Electricity
	Number of Buildings	Floorspace	Total of Major Fuels	Site Electricity	Natural Gas	Fuel Oil	District Heat	
All Buildings	4.2	3.5	6.3	5.5	8.1	14.3	16.7	5.5
Building Floorspace (Square Feet)								
1,001 to 5,000	6.8	6.1	15.7	13.4	21.5	33.9	93.3	13.4
5,001 to 10,000	6.7	7.1	18.2	14.5	23.5	50.4	72.8	14.5
10,001 to 25,000	7.1	6.8	16.4	8.5	25.2	31.1	44.4	8.5
25,001 to 50,000	6.9	6.8	10.0	10.6	12.0	17.0	31.2	10.6
50,001 to 100,000	10.3	10.2	12.4	13.0	14.2	19.7	33.9	13.0
100,001 to 200,000	6.3	6.4	14.6	13.1	18.5	29.1	23.5	13.1
200,001 to 500,000	6.5	6.6	17.6	10.1	29.2	28.3	22.6	10.1
Over 500,000	10.7	11.1	12.1	13.8	14.4	36.3	25.0	13.8
Principal Building Activity								
Education	12.3	6.2	8.8	6.5	11.8	21.5	36.5	6.5
Food Sales	17.2	16.0	25.2	21.5	28.0	81.2	X	21.5
Food Service	9.3	9.7	23.3	22.3	26.0	58.4	87.4	22.3
Health Care	17.6	7.6	11.8	10.4	11.9	24.8	33.3	10.4
Inpatient	25.6	9.9	13.8	12.7	13.2	26.9	36.1	12.7
Outpatient	19.1	10.3	19.6	17.2	26.6	90.1	55.9	17.2
Lodging	11.4	11.0	12.9	12.2	14.9	51.2	36.7	12.2
Mercantile	9.1	8.8	11.1	10.7	12.4	65.0	100.0	10.7
Retail (Other Than Mall)	10.8	10.7	14.7	11.6	17.4	70.6	100.0	11.6
Enclosed and Strip Malls	17.7	10.3	14.8	15.0	17.9	75.8	0.0	15.0
Office	8.3	6.9	11.2	10.4	14.0	18.0	21.3	10.4
Public Assembly	13.5	10.8	16.0	13.7	20.3	52.6	38.7	13.7
Public Order and Safety	28.1	22.2	22.4	23.5	24.9	46.2	71.6	23.5
Religious Worship	12.1	12.0	17.5	19.3	18.3	41.8	X	19.3
Service	12.8	11.8	27.2	17.7	32.8	47.0	63.7	17.7
Warehouse and Storage	12.4	9.4	23.8	13.1	30.0	41.3	89.0	13.1
Other	22.0	13.6	28.0	25.1	38.2	66.2	47.9	25.1
Vacant	14.5	12.2	32.2	40.9	40.4	65.7	X	40.9
Year Constructed								
1919 or Before	11.3	7.2	17.6	23.3	19.2	24.0	53.4	23.3
1920 to 1945	10.9	9.0	15.2	12.2	17.7	27.5	39.5	12.2
1946 to 1959	6.7	7.7	13.0	10.9	12.6	25.5	42.3	10.9
1960 to 1969	7.4	6.2	12.5	10.5	16.2	22.9	19.9	10.5
1970 to 1979	8.1	5.8	7.5	8.4	9.1	33.7	48.2	8.4
1980 to 1989	7.4	6.1	13.3	9.5	23.5	37.7	36.1	9.5
1990 to 1999	12.9	6.3	14.8	10.8	24.0	31.1	44.4	10.8
Floors								
One	5.4	4.9	10.1	8.6	15.1	30.1	73.3	8.6
Two	7.4	6.1	11.4	9.7	17.1	20.5	41.8	9.7
Three	9.0	7.4	10.6	9.8	12.5	28.2	31.4	9.8
Four to Nine	9.8	5.7	11.1	10.3	11.8	24.3	22.1	10.3
Ten or More	12.7	10.7	11.3	10.4	17.1	36.9	25.1	10.4
Census Region and Division								
Northeast	8.0	7.7	10.1	10.3	15.1	16.8	20.5	10.3
New England	15.4	9.4	18.0	18.2	32.9	12.2	52.6	18.2
Middle Atlantic	8.8	9.5	11.8	11.1	18.0	29.7	22.0	11.1
Midwest	9.7	5.0	11.1	10.6	12.9	29.3	27.3	10.6
East North Central	12.6	5.3	14.3	13.8	16.4	58.7	34.0	13.8
West North Central	15.0	9.4	17.4	15.4	18.4	21.0	46.4	15.4
South	5.6	5.3	11.3	9.6	19.0	34.6	37.1	9.6
South Atlantic	11.8	9.1	16.7	15.4	29.7	37.5	61.7	15.4
East South Central	8.2	8.6	29.9	15.3	41.0	80.7	59.2	15.3
West South Central	5.9	7.4	17.2	15.3	18.5	34.0	69.2	15.3
West	10.8	6.0	10.4	8.1	12.6	48.0	47.6	8.1
Mountain	11.1	10.8	19.5	13.7	17.6	40.6	69.1	13.7
Pacific	15.9	7.6	13.6	10.8	16.8	59.5	76.3	10.8

RSEs for Table C1. Total Energy Consumption by Major Fuel, 1999

	RSEs for All Buildings		RSEs for Total Energy Consumption					RSEs for Primary Electricity
	Number of Buildings	Floorspace	Total of Major Fuels	Site Electricity	Natural Gas	Fuel Oil	District Heat	
Climate Zone: 45-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	19.0	10.5	14.9	18.2	14.7	15.3	39.3	18.2
5,500-7,000 HDD	7.0	7.1	10.4	9.7	12.7	30.8	27.2	9.7
4,000-5,499 HDD	16.8	9.1	13.6	8.9	22.5	25.5	28.0	8.9
Fewer than 4,000 HDD	10.9	8.9	14.4	13.2	14.6	58.3	33.9	13.2
2,000 CDD or More and --								
Fewer than 4,000 HDD	11.1	9.4	14.7	11.8	21.1	35.6	64.6	11.8
Workers (main shift)								
Fewer than 5	6.0	6.3	11.5	13.2	12.7	31.1	52.3	13.2
5 to 9	7.9	7.6	11.8	12.1	15.0	34.1	62.3	12.1
10 to 19	7.6	6.7	12.8	12.6	16.6	59.7	38.7	12.6
20 to 49	9.0	6.6	15.2	9.4	22.3	24.4	40.9	9.4
50 to 99	10.7	8.9	12.6	10.8	14.0	19.3	40.8	10.8
100 to 249	11.7	7.2	13.8	13.0	16.9	23.0	25.5	13.0
250 or More	8.6	6.3	12.6	8.2	20.5	24.2	23.6	8.2
Weekly Operating Hours								
39 or Fewer	10.3	9.8	15.3	15.8	17.7	35.1	X	15.8
40 to 48	5.9	6.1	8.7	7.7	11.1	25.0	34.3	7.7
49 to 60	8.2	6.1	12.4	10.7	20.0	23.3	38.0	10.7
61 to 84	9.6	6.1	10.4	7.3	19.3	27.6	31.4	7.3
85 to 167	7.7	7.0	11.2	9.2	16.7	29.0	36.6	9.2
Open Continuously	10.4	5.0	11.4	8.7	14.6	19.1	19.5	8.7
Ownership and Occupancy								
Nongovernment Owned	4.5	4.2	7.9	6.6	10.1	18.1	25.2	6.6
Owner Occupied	5.4	4.5	8.3	6.9	10.4	20.1	26.3	6.9
Nonowner Occupied	5.8	6.4	12.8	9.6	22.1	32.9	40.5	9.6
Unoccupied	17.1	14.6	41.6	55.8	47.5	98.3	0.0	55.8
Government Owned	9.0	4.6	8.2	9.0	11.5	18.8	24.9	9.0
Federal	25.4	17.9	23.9	19.3	22.7	31.1	46.6	19.3
State	15.3	10.2	14.8	15.4	26.4	37.3	23.4	15.4
Local	12.4	6.4	7.9	10.9	12.3	22.3	47.6	10.9
Vacancy Status								
Completely Vacant	20.7	14.5	45.9	61.5	53.8	0.0	0.0	61.5
Mostly Vacant	22.9	20.0	36.9	26.5	56.9	65.7	X	26.5
Partially Vacant	7.3	6.2	9.0	8.6	11.7	21.8	25.6	8.6
Not At All Vacant	4.4	3.4	7.2	6.3	9.2	16.3	19.3	6.3
Number of Establishments								
One	4.7	3.5	7.2	5.9	9.5	17.1	19.3	5.9
2 to 5	9.4	6.5	12.7	12.1	11.3	24.5	35.8	12.1
6 to 10	15.0	10.1	20.1	17.4	21.3	62.4	39.2	17.4
11 to 20	16.8	12.1	14.4	14.7	22.7	45.7	51.6	14.7
More than 20	25.4	10.2	11.8	12.1	25.4	38.5	33.9	12.1
Currently Unoccupied	16.4	13.5	36.2	47.8	42.1	86.2	0.0	47.8
Energy Sources (more than one may apply)								
Electricity	5.2	4.0	6.3	5.5	8.7	16.2	17.3	5.5
Natural Gas	6.6	4.7	7.2	6.7	8.1	20.0	29.9	6.7
Fuel Oil	20.3	7.2	13.0	9.4	21.1	14.3	38.2	9.4
District Heat	28.6	15.7	18.1	18.7	41.0	54.9	16.7	18.7
District Chilled Water	27.2	12.1	25.8	17.9	19.3	59.3	25.0	17.9
Propane	15.0	10.9	22.0	16.4	52.8	25.2	66.2	16.4
Other	18.8	14.0	18.2	16.8	22.4	38.4	66.7	16.8

RSEs for Table C1. Total Energy Consumption by Major Fuel, 1999

	RSEs for All Buildings		RSEs for Total Energy Consumption					RSEs for Primary Electricity
	Number of Buildings	Floorspace	Total of Major Fuels	Site Electricity	Natural Gas	Fuel Oil	District Heat	
Space-Heating Energy Sources (more than one may apply)								
Electricity	5.1	4.1	7.7	6.6	8.8	26.4	27.0	6.6
Natural Gas	5.4	4.2	7.7	7.6	8.4	20.7	44.3	7.6
Fuel Oil	19.2	10.7	14.0	12.3	18.4	14.8	70.1	12.3
District Heat	16.5	9.9	18.3	12.1	17.0	55.3	16.9	12.1
Propane	18.3	18.0	26.8	27.9	58.8	33.9	X	27.9
Other	25.8	21.5	32.7	31.3	46.7	52.9	100.3	31.3
Primary Space-Heating Energy Source								
Electricity	7.1	5.5	9.5	7.7	18.2	47.2	66.0	7.7
Natural Gas	6.0	4.4	7.8	7.4	8.7	18.3	81.1	7.4
Fuel Oil	18.8	12.4	17.1	18.0	28.9	15.4	X	18.0
District Heat	16.2	10.3	18.5	12.6	19.4	27.4	16.9	12.6
Propane	19.1	19.5	39.0	38.8	X	62.0	0.0	38.8
Other	32.6	25.8	33.6	24.1	76.6	98.8	0.0	24.1
Cooling Energy Sources (more than one may apply)								
Electricity	4.0	4.0	6.3	5.7	8.7	15.1	16.2	5.7
Natural Gas	18.3	12.2	21.6	16.8	24.1	40.7	102.4	16.8
District Chilled Water	27.2	12.1	25.8	17.9	19.3	59.3	25.0	17.9
Water-Heating Energy Sources (more than one may apply)								
Electricity	6.0	5.5	9.4	8.3	19.6	20.0	32.3	8.3
Natural Gas	6.1	4.4	8.1	7.3	9.0	19.7	66.1	7.3
Fuel Oil	20.3	11.5	16.0	18.1	50.0	18.1	100.1	18.1
District Heat	17.3	10.8	19.3	12.4	43.8	49.5	17.6	12.4
Propane	18.9	17.3	32.6	35.9	15.2	50.9	100.1	35.9
Cooking Energy Sources (more than one may apply)								
Electricity	8.1	5.2	7.8	8.0	9.9	19.6	25.3	8.0
Natural Gas	8.2	5.1	6.9	7.5	7.1	24.1	25.7	7.5
Propane	22.3	16.8	26.3	29.3	57.9	33.7	X	29.3
Energy End Uses (more than one may apply)								
Buildings with Space Heating	4.2	3.5	6.3	5.6	8.0	14.4	16.9	5.6
Buildings with Cooling	3.9	3.8	6.5	5.8	8.5	15.0	17.0	5.8
Buildings with Water Heating	4.4	3.7	6.4	5.7	8.6	13.1	16.2	5.7
Buildings with Cooking	5.8	4.4	6.3	6.7	7.1	17.5	21.1	6.7
Buildings with Manufacturing	16.7	12.7	25.8	21.2	36.1	42.8	73.5	21.2
Buildings with Electricity Generation	14.2	7.4	12.2	8.6	16.5	22.2	26.3	8.6
Percent of Floorspace Heated								
Not Heated	10.5	11.3	35.3	19.0	58.6	66.8	93.6	19.0
1 to 50	10.9	8.0	15.1	12.6	30.2	45.2	99.4	12.6
51 to 99	8.2	7.1	15.6	11.4	27.7	26.4	31.4	11.4
100	4.8	4.0	7.1	6.5	7.9	16.8	18.2	6.5
Percent of Floorspace Cooled								
Not Cooled	10.4	8.8	24.6	17.5	30.1	27.3	53.9	17.5
1 to 50	9.1	6.9	15.0	9.4	20.5	23.9	27.6	9.4
51 to 99	6.9	4.5	7.5	8.0	8.3	19.9	20.0	8.0
100	4.5	5.2	8.2	7.1	9.2	29.5	22.9	7.1

RSEs for Table C1. Total Energy Consumption by Major Fuel, 1999

	RSEs for All Buildings		RSEs for Total Energy Consumption					RSEs for Primary Electricity
	Number of Buildings	Floorspace	Total of Major Fuels	Site Electricity	Natural Gas	Fuel Oil	District Heat	
Percent Lit When Open								
Zero	49.1	32.5	59.1	56.8	72.0	X	0.0	56.8
1 to 50	9.0	8.1	15.1	16.6	17.0	33.4	48.8	16.6
51 to 99	6.4	4.9	8.1	7.7	10.8	17.0	25.3	7.7
100	5.8	4.2	8.0	5.8	11.6	22.2	24.4	5.8
Building Never Open/ Electricity Not Used.....	13.0	12.0	31.3	42.6	38.2	86.4	0.0	42.6
Percent Lit When Closed								
Zero	6.2	5.9	10.9	9.1	11.7	32.1	39.5	9.1
1 to 50	4.9	4.7	8.2	6.2	13.4	17.0	18.3	6.2
51 to 100	16.3	10.0	27.1	19.9	39.6	67.3	35.6	19.9
Building Never Closed/ Electricity Not Used.....	10.4	5.0	11.4	8.7	14.6	19.1	19.5	8.7
Heating Equipment (more than one may apply)								
Heat Pumps	10.5	6.3	18.8	9.3	29.4	36.7	51.6	9.3
Furnaces	7.4	5.5	16.1	8.5	21.2	27.8	63.7	8.5
Individual Space Heaters	6.7	5.0	8.8	7.1	10.1	34.3	46.4	7.1
District Heat	16.5	9.9	18.3	12.1	17.0	55.3	16.9	12.1
Boilers	7.9	5.6	8.6	8.5	8.4	14.9	73.6	8.5
Packaged Heating Units	6.3	4.8	7.9	6.5	11.1	22.3	27.5	6.5
Other	15.1	7.9	25.7	9.2	46.0	36.5	52.3	9.2
Cooling Equipment (more than one may apply)								
Residential-Type Central Air Conditioners	10.3	6.8	11.9	6.7	17.0	27.0	40.8	6.7
Heat Pumps	10.4	6.5	18.2	9.2	29.4	44.3	60.5	9.2
Individual Air Conditioners	8.0	5.9	9.6	8.2	12.4	20.0	23.2	8.2
District Chilled Water	27.2	12.1	25.8	17.9	19.3	59.3	25.0	17.9
Central Chillers	14.5	6.0	10.8	9.8	14.7	13.4	19.9	9.8
Packaged Air Conditioning Units	4.7	4.0	7.4	6.5	9.3	16.3	29.5	6.5
Swamp Coolers	17.0	17.5	22.5	19.8	24.0	71.7	54.6	19.8
Other	29.6	16.3	29.2	22.0	40.3	77.4	50.0	22.0
Main Equipment Replaced Since 1995 (more than one may apply)								
Heating	6.8	7.6	12.0	11.0	12.3	29.5	100.1	11.0
Cooling	5.9	5.5	9.6	8.2	10.2	20.0	37.9	8.2
Lighting Equipment Types (more than one may apply)								
Incandescent	4.9	4.2	6.9	6.3	7.4	15.1	23.5	6.3
Standard Fluorescent	4.1	3.5	6.3	5.5	8.4	14.5	16.6	5.5
Compact Fluorescent	9.0	5.7	8.4	7.5	9.4	18.1	22.4	7.5
High Intensity Discharge	10.9	5.4	8.5	8.2	14.4	15.7	22.0	8.2
Halogen	9.1	4.4	9.1	6.4	14.9	21.4	30.8	6.4
Other	32.3	14.6	41.2	28.6	53.6	55.8	70.1	28.6
Water Heating Equipment								
Centralized System	5.0	4.1	7.3	6.3	10.4	17.0	18.3	6.3
Distributed System	9.5	7.3	15.1	11.8	27.3	43.2	47.8	11.8
Combination of Centralized and Distributed System	11.0	5.5	9.5	9.1	12.4	12.4	29.2	9.1

RSEs for Table C1. Total Energy Consumption by Major Fuel, 1999

	RSEs for All Buildings		RSEs for Total Energy Consumption					RSEs for Primary Electricity
	Number of Buildings	Floorspace	Total of Major Fuels	Site Electricity	Natural Gas	Fuel Oil	District Heat	
Commercial Refrigeration Equipment (more than one may apply)								
Any Equipment	5.9	3.9	6.6	6.4	7.3	15.9	21.7	6.4
Walk-In Units	6.7	5.2	7.8	7.4	8.9	17.5	25.4	7.4
Cases or Cabinets	6.2	3.9	6.8	6.7	6.9	19.1	22.5	6.7
None	4.6	4.6	10.1	7.5	13.0	23.2	20.4	7.5
Personal Computers								
None	7.0	6.3	14.3	17.1	16.7	34.7	65.6	17.1
1 to 4	7.2	6.4	12.0	11.9	13.7	29.2	61.1	11.9
5 to 9	8.1	7.9	19.3	12.8	28.8	41.9	44.1	12.8
10 to 19	11.6	8.4	18.1	8.8	28.9	46.1	24.6	8.8
20 to 49	11.1	7.4	14.9	11.8	21.8	26.2	36.7	11.8
50 to 99	11.0	7.1	18.8	8.6	31.7	28.4	42.6	8.6
100 to 249	8.8	7.7	14.7	12.5	16.0	22.1	27.2	12.5
250 or More	8.5	6.2	8.4	9.1	10.1	29.1	24.7	9.1
Photocopiers								
None	5.4	5.2	12.2	10.0	14.4	26.2	37.4	10.0
One	6.8	6.4	8.4	9.7	8.6	45.0	42.9	9.7
2 to 4	7.9	5.5	11.5	8.1	17.8	18.0	35.8	8.1
5 to 9	17.7	7.6	20.9	14.6	33.8	29.3	47.3	14.6
10 or More	12.0	6.3	8.3	8.2	10.1	19.9	17.8	8.2
Other Electronic Equipment (more than one may apply)								
Laser Printers	5.1	4.2	6.9	6.1	9.5	12.4	17.7	6.1
FAX Machines	5.1	3.8	6.6	5.9	8.8	13.9	17.8	5.9
Medical Diagnostic Equipment	19.8	7.9	12.2	10.8	12.0	22.3	34.1	10.8
Energy-Related Space Functions (more than one may apply)								
Commercial Food Preparation	5.8	4.5	6.3	6.8	7.2	17.4	21.2	6.8
Activities with Large Amounts of Hot Water	6.3	4.0	7.9	5.9	11.3	16.9	20.7	5.9
Building Shell Conservation Features (more than one may apply)								
Multipaned Windows	6.5	4.5	7.6	6.7	9.4	16.8	21.6	6.7
Tinted, Reflective, or Shading Glass	5.7	4.8	8.4	7.6	9.2	18.3	23.6	7.6
HVAC Conservation Features (more than one may apply)								
Variable Air-Volume System	9.8	5.4	8.7	8.8	9.6	16.7	21.1	8.8
Economizer Cycle	8.2	5.2	8.8	7.4	11.9	19.4	19.5	7.4
HVAC Maintenance	4.8	3.9	6.5	5.9	8.6	13.0	17.0	5.9
Energy Management and Control System (EMCS)	10.3	5.4	8.7	7.0	12.4	16.0	19.6	7.0

RSEs for Table C1. Total Energy Consumption by Major Fuel, 1999

	RSEs for All Buildings		RSEs for Total Energy Consumption					RSEs for Primary Electricity
	Number of Buildings	Floorspace	Total of Major Fuels	Site Electricity	Natural Gas	Fuel Oil	District Heat	
Lighting Conservation Features (more than one may apply)								
Specular Reflectors	8.8	6.0	8.5	8.4	9.4	18.7	18.9	8.4
Electronic Ballasts	5.3	3.9	7.2	6.3	8.7	15.0	16.4	6.3
Skylights or Atriums	8.6	5.8	9.8	8.3	15.7	19.3	26.5	8.3

X=No cases in responding sample reported their consumption for the particular fuel, so relative standard error could not be calculated.

RSEs for Table C2. Total Energy Expenditures by Major Fuel, 1999

	RSEs for All Buildings		RSEs for Total Energy Expenditures				
	Number of Buildings	Floorspace	Total of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings	4.2	3.5	5	5	8	15.4	17.1
Building Floorspace							
(Square Feet)							
1,001 to 5,000	6.8	6.1	14.5	14.6	18.7	34.2	75
5,001 to 10,000	6.7	7.1	15.5	14.4	23.6	46.1	75.8
10,001 to 25,000	7.1	6.8	12.2	10.6	24.9	34.4	42.3
25,001 to 50,000	6.9	6.8	9.7	9.9	11.8	16.5	29
50,001 to 100,000	10.3	10.2	10.9	12	12.2	21.4	36.3
100,001 to 200,000	6.3	6.4	12.4	12.4	19	29.6	32.4
200,001 to 500,000	6.5	6.6	11.2	9.2	26.4	28.1	19.3
Over 500,000	10.7	11.1	12.5	14.5	16.8	32.2	24.1
Principal Building Activity							
Education	12.3	6.2	7.4	7	12	20.8	36.7
Food Sales	17.2	16	22.9	20.4	26.6	75.9	X
Food Service	9.3	9.7	20.5	23.5	23.3	58.1	86.9
Health Care	17.6	7.6	10.5	10.2	12	22.7	43.7
Inpatient	25.6	9.9	13.7	12.4	14.2	24.8	38
Outpatient	19.1	10.3	16.2	17	24.1	88.7	79.8
Lodging	11.4	11	13.2	13	14.3	45.2	31.1
Mercantile	9.1	8.8	12.1	11.3	12.4	67.3	100
Retail (Other Than Mall)	10.8	10.7	13.9	12.5	17	69.2	100
Enclosed and Strip Malls	17.7	10.3	16.4	15.8	15.1	56.8	0
Office	8.3	6.9	9.8	9.2	14.4	18.5	22
Public Assembly	13.5	10.8	12.7	13.5	22.1	53.3	36.6
Public Order and Safety	28.1	22.2	23.7	23.5	27.4	48.9	72.1
Religious Worship	12.1	12	18.3	17.9	24.9	41.4	X
Service	12.8	11.8	20.8	17.9	33.6	46.6	87.3
Warehouse and Storage	12.4	9.4	15	13.2	24.5	49.1	89
Other	22	13.6	26.1	25.8	38.3	65.7	60.2
Vacant	14.5	12.2	34.5	41.1	33.9	71.3	X
Year Constructed							
1919 or Before	11.3	7.2	14.3	16.6	15.1	25	38.2
1920 to 1945	10.9	9	12.4	12.8	15.5	26.3	34.8
1946 to 1959	6.7	7.7	11.7	10.8	13.1	28.4	36.2
1960 to 1969	7.4	6.2	10.9	10.2	18.3	28.4	21.7
1970 to 1979	8.1	5.8	8	8.5	8.7	25.1	40.7
1980 to 1989	7.4	6.1	10.2	9.1	23.9	39.9	45.2
1990 to 1999	12.9	6.3	10.7	10.4	19.7	37.4	51.2
Floors							
One	5.4	4.9	8.5	8.6	13.8	32	63.5
Two	7.4	6.1	9.6	9.8	17.4	22.3	50.6
Three	9	7.4	10.1	9.9	11.7	32.3	30.7
Four to Nine	9.8	5.7	9.2	9	13.1	17.9	23.5
Ten or More	12.7	10.7	13.7	12.5	16.6	35.4	23.4
Census Region and Division							
Northeast	8	7.7	11.5	11.6	16.2	19.5	23.7
New England	15.4	9.4	16.5	17.2	35	15.1	47.9
Middle Atlantic	8.8	9.5	13.4	12.6	19	35.2	26.7
Midwest	9.7	5	8.8	8.7	12.5	26.5	30.7
East North Central	12.6	5.3	11	10.9	16	49.2	28.7
West North Central	15	9.4	13.5	13.2	18.6	21.6	50.8
South	5.6	5.3	8.3	8.9	20.5	33.6	30.4
South Atlantic	11.8	9.1	13.1	14.3	32.9	36.7	55.8
East South Central	8.2	8.6	16.6	13.9	42.1	85.9	11.7
West South Central	5.9	7.4	13	12.1	21.9	39.3	60.6
West	10.8	6	8.6	8.5	12.2	46.4	49.1
Mountain	11.1	10.8	14.3	15	21.4	40.7	64.3
Pacific	15.9	7.6	11.2	10.6	14.7	56.3	84.5

RSEs for Table C2. Total Energy Expenditures by Major Fuel, 1999

	RSEs for All Buildings		RSEs for Total Energy Expenditures				
	Number of Buildings	Floorspace	Total of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
Climate Zone: 45-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	19	10.5	14.3	15.5	15.4	20.4	56.8
5,500-7,000 HDD	7	7.1	8.6	9.3	11.9	34.6	28.9
4,000-5,499 HDD	16.8	9.1	10.8	9	23.1	29	26.9
Fewer than 4,000 HDD	10.9	8.9	12	12	13.9	66.6	32.2
2,000 CDD or More and --							
Fewer than 4,000 HDD	11.1	9.4	11.6	11.4	22.9	37.7	80.1
Workers (main shift)							
Fewer than 5	6	6.3	10.3	11.4	13.1	28.3	47.7
5 to 9	7.9	7.6	14.3	14.5	14.9	35.2	46.3
10 to 19	7.6	6.7	13.5	14.1	12.7	57.8	41.1
20 to 49	9	6.6	11.5	10	23.2	24.2	42.4
50 to 99	10.7	8.9	10.9	10.9	13.9	19.7	38.7
100 to 249	11.7	7.2	11.8	11.5	17.3	22.7	34.3
250 or More	8.6	6.3	9	7.8	17.3	21.7	21.2
Weekly Operating Hours							
39 or Fewer	10.3	9.8	15.7	15.2	24.4	33.4	X
40 to 48	5.9	6.1	8.7	7.8	11.3	25.8	48
49 to 60	8.2	6.1	9	9.8	20.3	25.6	31.6
61 to 84	9.6	6.1	8.2	7.1	20	30.7	36
85 to 167	7.7	7	9.4	9.7	16.6	21.1	32.3
Open Continuously	10.4	5	9.7	8	12.7	19.3	21.1
Ownership and Occupancy							
Nongovernment Owned	4.5	4.2	5.7	5.9	9.9	19.5	24.6
Owner Occupied	5.4	4.5	6.1	6.2	11.1	20.4	26.5
Nonowner Occupied	5.8	6.4	8.6	8.9	19.5	26.3	40.9
Unoccupied	17.1	14.6	45	55.9	52.5	97.2	0
Government Owned	9	4.6	8.6	8.9	10.6	15.4	23.8
Federal	25.4	17.9	22	20.2	20.4	26.7	42.6
State	15.3	10.2	14	15	22.9	36.9	28.1
Local	12.4	6.4	8.9	10.4	13.5	18.8	55.2
Vacancy Status							
Completely Vacant	20.7	14.5	56	65.2	54.6	0	0
Mostly Vacant	22.9	20	25.5	29.1	42.1	71.3	X
Partially Vacant	7.3	6.2	7.9	8.2	11.8	19.8	28.9
Not At All Vacant	4.4	3.4	5.6	5.8	8.8	17.1	20.1
Number of Establishments							
One	4.7	3.5	5.6	5.6	9.2	18.2	20.6
2 to 5	9.4	6.5	11.5	11.3	12.1	28.9	31.2
6 to 10	15	10.1	20.5	18.8	21.6	46.1	41.1
11 to 20	16.8	12.1	12.5	15.5	23.1	44	49.7
More than 20	25.4	10.2	12.3	12.7	27	41	36.3
Currently Unoccupied	16.4	13.5	41.4	49	47.3	88.8	0
Energy Sources (more than one may apply)							
Electricity	5.2	4	5.3	5	8.6	18.2	17.4
Natural Gas	6.6	4.7	5.8	6	8	16.4	28
Fuel Oil	20.3	7.2	8.2	8.5	18.4	15.4	32.2
District Heat	28.6	15.7	19.7	18.7	30.4	34.2	17.1
District Chilled Water	27.2	12.1	22.3	18	20.2	56.4	28.6
Propane	15	10.9	15.9	17.4	45.6	27.6	80
Other	18.8	14	16.6	15.8	23.8	43.9	54.6

RSEs for Table C2. Total Energy Expenditures by Major Fuel, 1999

	RSEs for All Buildings		RSEs for Total Energy Expenditures				
	Number of Buildings	Floorspace	Total of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
Space-Heating Energy Sources (more than one may apply)							
Electricity	5.1	4.1	6.5	5.9	7.9	27.1	27.4
Natural Gas	5.4	4.2	6.3	6.7	8.3	29.2	62.7
Fuel Oil	19.2	10.7	13.1	13.9	23.2	16	70.4
District Heat	16.5	9.9	16.3	12	16.3	54	17.1
Propane	18.3	18	32.4	31.8	64.1	37.9	X
Other	25.8	21.5	29.1	29.5	46.1	54.2	100.3
Primary Space-Heating Energy Source							
Electricity	7.1	5.5	8.6	7.3	13.3	54.3	47.7
Natural Gas	6	4.4	6.2	6.6	8.5	14.3	64.8
Fuel Oil	18.8	12.4	17.5	17.6	30.2	15.5	X
District Heat	16.2	10.3	17	12.6	19.1	27.4	17.2
Propane	19.1	19.5	42.5	42.7	X	60.7	0
Other	32.6	25.8	29.1	27	63.2	99	0
Cooling Energy Sources (more than one may apply)							
Electricity	4	4	5.2	5.1	8.6	17.3	20.3
Natural Gas	18.3	12.2	18.2	15.4	23.7	36.1	102.4
District Chilled Water	27.2	12.1	22.3	18	20.2	56.4	28.6
Water-Heating Energy Sources (more than one may apply)							
Electricity	6	5.5	7.7	7.7	14.6	22.7	35.8
Natural Gas	6.1	4.4	6.4	6.4	9.5	16.3	64.1
Fuel Oil	20.3	11.5	17.6	17.2	43	18.4	100.1
District Heat	17.3	10.8	17.6	13	34.9	48.3	17.9
Propane	18.9	17.3	33.6	36.7	16.6	51.6	100.1
Cooking Energy Sources (more than one may apply)							
Electricity	8.1	5.2	7.5	8	10.8	17	29
Natural Gas	8.2	5.1	6.6	6.7	7.9	19.3	30.9
Propane	22.3	16.8	26.6	29	51	35.7	X
Energy End Uses (more than one may apply)							
Buildings with Space Heating	4.2	3.5	4.9	5	7.8	15.5	17.2
Buildings with Cooling	3.9	3.8	5.2	5.2	8.3	17.2	17.9
Buildings with Water Heating	4.4	3.7	5.1	5.2	8.6	13.5	17
Buildings with Cooking	5.8	4.4	5.8	6.3	8.1	19.1	23.4
Buildings with Manufacturing	16.7	12.7	20.5	19.1	33	43.5	66.3
Buildings with Electricity Generation	14.2	7.4	8.7	8.3	13.9	22.2	25.2
Percent of Floorspace Heated							
Not Heated	10.5	11.3	23.9	19	59.6	73.1	72.2
1 to 50	10.9	8	15.3	15.1	19.4	38.8	99.4
51 to 99	8.2	7.1	11.2	10	28.4	31	38
100	4.8	4	5.8	6.1	7.5	19.3	18.4
Percent of Floorspace Cooled							
Not Cooled	10.4	8.8	20.3	17.4	32.7	29.9	50.1
1 to 50	9.1	6.9	11.7	10.1	19.5	27.9	31
51 to 99	6.9	4.5	7	7.4	8.5	20.4	24.5
100	4.5	5.2	6.5	6.6	9.3	32	22.9

RSEs for Table C2. Total Energy Expenditures by Major Fuel, 1999

	RSEs for All Buildings		RSEs for Total Energy Expenditures				
	Number of Buildings	Floorspace	Total of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
Percent Lit When Open							
Zero	49.1	32.5	58.8	57.6	78.8	X	0
1 to 50	9	8.1	15.5	16.6	16.8	32	57.4
51 to 99	6.4	4.9	7.3	6.6	12	15.5	22.6
100	5.8	4.2	6.1	5.7	11.5	24	24.8
Building Never Open/ Electricity Not Used.....	13	12	35.6	42.2	42.1	89	0
Percent Lit When Closed							
Zero	6.2	5.9	10	9.8	10.9	35.2	42.3
1 to 50	4.9	4.7	6.2	5.8	13.7	19.1	23.7
51 to 100	16.3	10	20	19.6	31.6	82.4	50.4
Building Never Closed/ Electricity Not Used.....	10.4	5	9.7	8	12.7	19.3	21.1
Heating Equipment (more than one may apply)							
Heat Pumps	10.5	6.3	12.6	9.5	31	34.6	58.6
Furnaces	7.4	5.5	11.1	8.3	19.5	31.1	78.3
Individual Space Heaters	6.7	5	7.6	6.7	10.2	38.1	38.4
District Heat	16.5	9.9	16.3	12	16.3	54	17.1
Boilers	7.9	5.6	7.5	8.2	8.8	15.9	84.7
Packaged Heating Units	6.3	4.8	6.2	5.9	9	27.2	35.4
Other	15.1	7.9	15	9.7	39	32.2	47.8
Cooling Equipment (more than one may apply)							
Residential-Type Central							
Air Conditioners	10.3	6.8	9.1	7.1	17	35	37.2
Heat Pumps	10.4	6.5	12.2	9.4	30.8	35.5	43.7
Individual Air Conditioners	8	5.9	8.3	7.9	11.5	22.9	30.2
District Chilled Water	27.2	12.1	22.3	18	20.2	56.4	28.6
Central Chillers	14.5	6	9.8	9.5	13.6	16	22.7
Packaged Air Conditioning							
Units	4.7	4	5.8	5.7	8.5	16.7	27.6
Swamp Coolers	17	17.5	19	18.7	22.3	47.9	60.8
Other	29.6	16.3	23.4	23.3	35.3	66.4	24.9
Main Equipment Replaced Since 1995 (more than one may apply)							
Heating	6.8	7.6	10.1	9.8	12.5	35.5	100.1
Cooling	5.9	5.5	7.5	6.9	11	17.8	42
Lighting Equipment Types (more than one may apply)							
Incandescent	4.9	4.2	5.8	5.8	7.1	14.6	21.4
Standard Fluorescent	4.1	3.5	4.9	5	8.2	15.3	17.2
Compact Fluorescent	9	5.7	7.7	7.2	10	20.5	21.5
High Intensity Discharge	10.9	5.4	5.9	7.3	15.2	12.9	25
Halogen	9.1	4.4	6.9	6.2	16.5	15.4	28.6
Other	32.3	14.6	37.4	28.9	51.4	61.5	67.8
Water Heating Equipment							
Centralized System	5	4.1	6.3	6	10.6	18.4	18.7
Distributed System	9.5	7.3	10.2	11.1	20	46.8	44.9
Combination of Centralized and Distributed System	11	5.5	8.5	8	13.4	14	32.7

RSEs for Table C2. Total Energy Expenditures by Major Fuel, 1999

	RSEs for All Buildings		RSEs for Total Energy Expenditures				
	Number of Buildings	Floorspace	Total of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
Commercial Refrigeration Equipment (more than one may apply)							
Any Equipment	5.9	3.9	5.4	6.1	8.1	16.6	25.4
Walk-In Units	6.7	5.2	7	7.4	9.1	18.2	29.2
Cases or Cabinets	6.2	3.9	5.8	6.5	7.7	20.5	25.9
None	4.6	4.6	7.2	6.9	11.9	24.3	19.2
Personal Computers							
None	7	6.3	13.3	14.3	17.8	35.7	62.7
1 to 4	7.2	6.4	10.9	12.1	12.2	29.8	64.8
5 to 9	8.1	7.9	13.3	13.6	29.2	46.4	56.2
10 to 19	11.6	8.4	13.9	10.9	30.6	49.1	33.8
20 to 49	11.1	7.4	10.4	11.3	19.2	28	43.6
50 to 99	11	7.1	10.8	8.8	24.9	33.8	30
100 to 249	8.8	7.7	12.9	10.7	16.7	21	32.2
250 or More	8.5	6.2	8.8	8.7	11.3	22.4	20.5
Photocopiers							
None	5.4	5.2	10.2	10.1	15	28.4	30.4
One	6.8	6.4	9.6	9.9	9.5	42.4	42.8
2 to 4	7.9	5.5	8.3	7.7	18.3	20	37.3
5 to 9	17.7	7.6	14.8	13.4	27.1	28.2	48.7
10 or More	12	6.3	8.2	7.8	10.9	20.7	20.1
Other Electronic Equipment (more than one may apply)							
Laser Printers	5.1	4.2	5.6	5.5	9.7	12.4	17.5
FAX Machines	5.1	3.8	5.1	5.2	8.9	14.6	17.9
Medical Diagnostic Equipment	19.8	7.9	11.1	10.6	12.2	22.5	45.4
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	5.8	4.5	5.8	6.3	8	19.2	23.4
Activities with Large Amounts of Hot Water	6.3	4	6.2	6	12.4	17.6	21.5
Building Shell Conservation Features (more than one may apply)							
Multipaned Windows	6.5	4.5	6.3	6.1	9.9	19.7	23.1
Tinted, Reflective, or Shading Glass	5.7	4.8	6.9	6.9	9.5	18.8	23.2
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	9.8	5.4	7.1	8	10.3	19.5	20.8
Economizer Cycle	8.2	5.2	7	6.8	10.3	18.7	20.1
HVAC Maintenance	4.8	3.9	5.1	5.3	8.5	13	17.2
Energy Management and Control System (EMCS)	10.3	5.4	7	6.7	11.5	15.1	18.7
Lighting Conservation Features (more than one may apply)							
Specular Reflectors	8.8	6	7.5	7.6	10.4	18.8	19.3
Electronic Ballasts	5.3	3.9	6.1	5.7	8	14.1	18
Skylights or Atriums	8.6	5.8	7.4	7.3	17.8	19.8	32.7

X=No cases in responding sample reported their consumption for the particular fuel, so relative standard error could not be calculated.

RSEs for Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels, 1999

	RSEs for All Buildings			RSEs for Sum of Major Fuel Consumption			
	Number of Buildings	Floorspace	Floorspace per Building	Total	per Building	per Square Foot	per Worker
All Buildings	4.2	3.5	3.6	6.3	6.3	5.2	4.7
Building Floorspace (Square Feet)							
1,001 to 5,000	6.8	6.1	2.6	15.7	15.8	15.6	14.1
5,001 to 10,000	6.7	7.1	1.4	18.2	16.3	16.1	17.1
10,001 to 25,000	7.1	6.8	1.5	16.4	17.0	17.2	16.5
25,001 to 50,000	6.9	6.8	1.1	10.0	6.9	6.9	6.5
50,001 to 100,000	10.3	10.2	1.0	12.4	8.1	8.0	8.8
100,001 to 200,000	6.3	6.4	1.4	14.6	11.1	11.1	10.1
200,001 to 500,000	6.5	6.6	1.9	17.6	17.0	16.5	16.2
Over 500,000	10.7	11.1	2.5	12.1	11.0	10.4	9.2
Principal Building Activity							
Education	12.3	6.2	11.1	8.8	13.9	8.5	9.6
Food Sales	17.2	16.0	12.2	25.2	23.6	23.0	19.5
Food Service	9.3	9.7	6.6	23.3	20.9	21.0	19.0
Health Care	17.6	7.6	16.9	11.8	20.6	10.2	12.2
Inpatient	25.6	9.9	31.7	13.8	34.2	12.1	12.4
Outpatient	19.1	10.3	16.1	19.6	28.5	15.1	20.5
Lodging	11.4	11.0	11.4	12.9	16.2	10.6	12.7
Mercantile	9.1	8.8	8.3	11.1	11.4	8.4	9.9
Retail (Other Than Mall)	10.8	10.7	8.9	14.7	13.3	10.0	16.8
Enclosed and Strip Malls	17.7	10.3	16.2	14.8	21.3	14.1	14.6
Office	8.3	6.9	7.7	11.2	12.4	7.3	7.0
Public Assembly	13.5	10.8	10.5	16.0	13.7	13.7	22.3
Public Order and Safety	28.1	22.2	15.8	22.4	27.0	23.7	22.9
Religious Worship	12.1	12.0	9.3	17.5	18.8	17.1	20.3
Service	12.8	11.8	10.4	27.2	26.3	23.9	24.1
Warehouse and Storage	12.4	9.4	9.6	23.8	25.3	22.3	24.1
Other	22.0	13.6	19.6	28.0	34.3	22.5	26.0
Vacant	14.5	12.2	9.2	32.2	32.0	31.3	77.5
Year Constructed							
1919 or Before	11.3	7.2	10.3	17.6	19.0	17.1	18.1
1920 to 1945	10.9	9.0	9.8	15.2	13.6	11.7	16.0
1946 to 1959	6.7	7.7	5.9	13.0	11.9	10.5	11.7
1960 to 1969	7.4	6.2	6.3	12.5	12.6	10.7	11.1
1970 to 1979	8.1	5.8	7.0	7.5	9.2	6.2	7.5
1980 to 1989	7.4	6.1	6.6	13.3	14.0	11.2	11.1
1990 to 1999	12.9	6.3	9.5	14.8	16.8	13.5	12.5
Floors							
One	5.4	4.9	4.2	10.1	10.3	9.5	8.0
Two	7.4	6.1	6.1	11.4	13.1	10.6	11.0
Three	9.0	7.4	7.3	10.6	11.4	9.0	9.7
Four to Nine	9.8	5.7	10.3	11.1	15.1	9.0	8.2
Ten or More	12.7	10.7	8.3	11.3	12.4	9.8	9.6
Census Region and Division							
Northeast	8.0	7.7	7.0	10.1	11.4	10.2	9.2
New England	15.4	9.4	15.5	18.0	25.8	20.8	17.1
Middle Atlantic	8.8	9.5	8.2	11.8	12.8	11.8	10.8
Midwest	9.7	5.0	7.2	11.1	9.5	8.8	8.0
East North Central	12.6	5.3	10.1	14.3	11.0	11.3	9.9
West North Central	15.0	9.4	9.9	17.4	20.5	14.0	12.2
South	5.6	5.3	5.7	11.3	11.6	8.8	8.7
South Atlantic	11.8	9.1	9.9	16.7	15.9	12.6	11.4
East South Central	8.2	8.6	7.5	29.9	32.6	30.8	28.6
West South Central	5.9	7.4	9.7	17.2	19.7	12.7	10.6
West	10.8	6.0	8.3	10.4	14.7	9.8	8.5
Mountain	11.1	10.8	9.3	19.5	28.1	19.6	16.5
Pacific	15.9	7.6	12.6	13.6	20.1	11.8	10.5

RSEs for Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels, 1999

	RSEs for All Buildings			RSEs for Sum of Major Fuel Consumption			
	Number of Buildings	Floorspace	Floorspace per Building	Total	per Building	per Square Foot	per Worker
Climate Zone: 45-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	19.0	10.5	9.5	14.9	16.5	12.9	12.1
5,500-7,000 HDD	7.0	7.1	5.2	10.4	11.6	10.4	8.4
4,000-5,499 HDD	16.8	9.1	10.7	13.6	16.0	10.4	10.7
Fewer than 4,000 HDD	10.9	8.9	9.0	14.4	15.9	9.1	7.8
2,000 CDD or More and --							
Fewer than 4,000 HDD	11.1	9.4	7.2	14.7	14.7	10.7	9.9
Workers (main shift)							
Fewer than 5	6.0	6.3	4.6	11.5	11.3	10.9	11.4
5 to 9	7.9	7.6	6.2	11.8	11.3	11.4	11.4
10 to 19	7.6	6.7	6.5	12.8	13.0	11.3	12.5
20 to 49	9.0	6.6	5.4	15.2	12.3	12.9	12.6
50 to 99	10.7	8.9	7.4	12.6	11.7	10.1	11.6
100 to 249	11.7	7.2	9.8	13.8	9.9	10.3	9.0
250 or More	8.6	6.3	7.6	12.6	12.5	10.7	12.1
Weekly Operating Hours							
39 or Fewer	10.3	9.8	5.9	15.3	13.4	13.6	17.7
40 to 48	5.9	6.1	5.5	8.7	8.4	7.3	7.2
49 to 60	8.2	6.1	7.8	12.4	14.2	11.3	12.0
61 to 84	9.6	6.1	7.4	10.4	12.1	10.3	10.8
85 to 167	7.7	7.0	7.3	11.2	11.3	9.9	9.7
Open Continuously	10.4	5.0	9.3	11.4	13.8	9.9	10.5
Ownership and Occupancy							
Nongovernment Owned	4.5	4.2	3.9	7.9	7.4	6.1	5.8
Owner Occupied	5.4	4.5	4.5	8.3	7.9	6.5	6.3
Nonowner Occupied	5.8	6.4	6.2	12.8	12.4	11.0	11.9
Unoccupied	17.1	14.6	11.9	41.6	42.5	40.2	0.0
Government Owned	9.0	4.6	7.2	8.2	11.2	7.5	7.8
Federal	25.4	17.9	24.1	23.9	31.0	12.7	19.1
State	15.3	10.2	14.5	14.8	18.6	11.0	10.0
Local	12.4	6.4	9.8	7.9	11.7	7.5	8.9
Vacancy Status							
Completely Vacant	20.7	14.5	13.7	45.9	45.4	42.4	0.0
Mostly Vacant	22.9	20.0	14.4	36.9	37.7	39.3	74.6
Partially Vacant	7.3	6.2	8.0	9.0	10.9	6.7	8.2
Not At All Vacant	4.4	3.4	3.7	7.2	7.2	6.0	5.1
Number of Establishments							
One	4.7	3.5	4.1	7.2	7.5	6.3	5.8
2 to 5	9.4	6.5	8.0	12.7	14.8	12.0	12.4
6 to 10	15.0	10.1	11.7	20.1	21.3	13.8	15.8
11 to 20	16.8	12.1	12.0	14.4	17.0	13.5	12.6
More than 20	25.4	10.2	20.1	11.8	20.6	11.0	13.3
Currently Unoccupied	16.4	13.5	11.3	36.2	37.2	35.0	0.0
Energy Sources (more than one may apply)							
Electricity	5.2	4.0	3.9	6.3	5.2	4.8	4.5
Natural Gas	6.6	4.7	5.1	7.2	6.3	5.5	5.8
Fuel Oil	20.3	7.2	15.4	13.0	20.5	11.2	10.5
District Heat	28.6	15.7	22.6	18.1	23.9	11.5	11.3
District Chilled Water	27.2	12.1	21.8	25.8	31.0	22.6	22.6
Propane	15.0	10.9	9.3	22.0	23.7	21.3	20.6
Other	18.8	14.0	17.5	18.2	24.0	14.6	24.9

RSEs for Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels, 1999

	RSEs for All Buildings			RSEs for Sum of Major Fuel Consumption			
	Number of Buildings	Floorspace	Floorspace per Building	Total	per Building	per Square Foot	per Worker
Space-Heating Energy Sources (more than one may apply)							
Electricity	5.1	4.1	5.0	7.7	7.9	5.7	5.8
Natural Gas	5.4	4.2	4.6	7.7	7.7	5.9	5.4
Fuel Oil	19.2	10.7	11.6	14.0	14.4	10.0	10.6
District Heat	16.5	9.9	12.9	18.3	21.7	16.5	16.4
Propane	18.3	18.0	10.2	26.8	26.3	27.3	25.4
Other	25.8	21.5	21.7	32.7	36.6	20.0	22.9
Primary Space-Heating Energy Source							
Electricity	7.1	5.5	6.4	9.5	10.3	7.6	8.7
Natural Gas	6.0	4.4	5.0	7.8	8.1	6.0	5.8
Fuel Oil	18.8	12.4	11.0	17.1	14.5	13.7	11.7
District Heat	16.2	10.3	13.0	18.5	19.8	16.6	16.0
Propane	19.1	19.5	11.4	39.0	38.7	40.7	36.0
Other	32.6	25.8	25.5	33.6	36.2	19.7	25.3
Cooling Energy Sources (more than one may apply)							
Electricity	4.0	4.0	3.5	6.3	6.0	4.8	4.6
Natural Gas	18.3	12.2	14.0	21.6	20.9	21.3	20.1
District Chilled Water	27.2	12.1	21.8	25.8	31.0	22.6	22.6
Water-Heating Energy Sources (more than one may apply)							
Electricity	6.0	5.5	5.4	9.4	9.6	8.0	8.4
Natural Gas	6.1	4.4	5.1	8.1	8.2	6.3	6.7
Fuel Oil	20.3	11.5	17.0	16.0	17.0	12.9	19.7
District Heat	17.3	10.8	14.4	19.3	23.4	17.5	18.9
Propane	18.9	17.3	19.3	32.6	34.6	37.3	31.8
Cooking Energy Sources (more than one may apply)							
Electricity	8.1	5.2	7.3	7.8	8.4	7.0	6.2
Natural Gas	8.2	5.1	8.1	6.9	9.6	6.7	6.7
Propane	22.3	16.8	19.1	26.3	21.0	19.1	17.6
Energy End Uses (more than one may apply)							
Buildings with Space Heating	4.2	3.5	3.9	6.3	6.5	5.2	4.7
Buildings with Cooling	3.9	3.8	3.5	6.5	6.0	5.1	4.8
Buildings with Water Heating	4.4	3.7	3.7	6.4	6.2	5.1	4.7
Buildings with Cooking	5.8	4.4	6.0	6.3	7.5	5.7	5.6
Buildings with Manufacturing	16.7	12.7	14.8	25.8	28.1	19.7	24.8
Buildings with Electricity Generation	14.2	7.4	14.6	12.2	16.6	11.6	11.0
Percent of Floorspace Heated							
Not Heated	10.5	11.3	7.0	35.3	34.9	34.8	36.6
1 to 50	10.9	8.0	7.7	15.1	15.9	14.0	15.5
51 to 99	8.2	7.1	6.4	15.6	15.3	13.7	13.8
100	4.8	4.0	4.1	7.1	7.3	6.0	5.1
Percent of Floorspace Cooled							
Not Cooled	10.4	8.8	7.0	24.6	24.3	23.7	23.8
1 to 50	9.1	6.9	6.1	15.0	13.9	12.4	13.0
51 to 99	6.9	4.5	5.8	7.5	8.4	6.0	6.7
100	4.5	5.2	5.4	8.2	8.5	6.9	6.6

RSEs for Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels, 1999

	RSEs for All Buildings			RSEs for Sum of Major Fuel Consumption			
	Number of Buildings	Floorspace	Floorspace per Building	Total	per Building	per Square Foot	per Worker
Percent Lit When Open							
Zero	49.1	32.5	25.3	59.1	63.9	47.3	51.9
1 to 50	9.0	8.1	5.6	15.1	15.6	13.9	13.4
51 to 99	6.4	4.9	4.9	8.1	7.9	6.6	6.1
100	5.8	4.2	5.2	8.0	8.8	7.2	6.7
Building Never Open/ Electricity Not Used.....	13.0	12.0	8.2	31.3	29.0	27.9	54.3
Percent Lit When Closed							
Zero	6.2	5.9	4.6	10.9	9.1	8.3	7.6
1 to 50	4.9	4.7	5.1	8.2	7.9	6.9	6.7
51 to 100	16.3	10.0	15.4	27.1	31.2	24.7	22.6
Building Never Closed/ Electricity Not Used.....	10.4	5.0	9.3	11.4	13.8	9.9	10.5
Heating Equipment (more than one may apply)							
Heat Pumps	10.5	6.3	9.3	18.8	19.8	17.8	17.8
Furnaces	7.4	5.5	5.0	16.1	15.1	14.2	14.8
Individual Space Heaters	6.7	5.0	6.0	8.8	10.1	7.8	6.1
District Heat	16.5	9.9	12.9	18.3	21.7	16.5	16.4
Boilers	7.9	5.6	6.8	8.6	8.4	7.0	6.6
Packaged Heating Units	6.3	4.8	5.1	7.9	9.3	7.1	6.4
Other	15.1	7.9	15.2	25.7	31.0	24.0	26.5
Cooling Equipment (more than one may apply)							
Residential-Type Central							
Air Conditioners	10.3	6.8	8.6	11.9	12.5	10.7	12.7
Heat Pumps	10.4	6.5	9.2	18.2	18.6	17.4	17.1
Individual Air Conditioners	8.0	5.9	6.3	9.6	10.4	8.4	11.4
District Chilled Water	27.2	12.1	21.8	25.8	31.0	22.6	22.6
Central Chillers	14.5	6.0	11.9	10.8	13.5	8.4	9.1
Packaged Air Conditioning							
Units	4.7	4.0	4.1	7.4	7.4	6.0	5.5
Swamp Coolers	17.0	17.5	12.5	22.5	24.6	20.5	20.7
Other	29.6	16.3	25.7	29.2	37.8	21.3	21.8
Main Equipment Replaced Since 1995 (more than one may apply)							
Heating	6.8	7.6	6.0	12.0	12.0	9.3	8.7
Cooling	5.9	5.5	4.5	9.6	8.6	8.5	7.8
Lighting Equipment Types (more than one may apply)							
Incandescent	4.9	4.2	4.1	6.9	7.0	5.3	5.5
Standard Fluorescent	4.1	3.5	3.7	6.3	6.1	5.2	4.7
Compact Fluorescent	9.0	5.7	6.9	8.4	8.6	5.6	6.2
High Intensity Discharge	10.9	5.4	8.0	8.5	11.3	8.1	7.5
Halogen	9.1	4.4	8.7	9.1	10.4	8.0	8.3
Other	32.3	14.6	35.3	41.2	30.7	39.3	29.8
Water Heating Equipment							
Centralized System	5.0	4.1	4.4	7.3	7.9	5.6	5.6
Distributed System	9.5	7.3	6.9	15.1	16.3	13.1	14.2
Combination of Centralized and Distributed System	11.0	5.5	9.7	9.5	11.0	8.4	9.3

RSEs for Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels, 1999

	RSEs for All Buildings			RSEs for Sum of Major Fuel Consumption			
	Number of Buildings	Floorspace	Floorspace per Building	Total	per Building	per Square Foot	per Worker
Commercial Refrigeration Equipment (more than one may apply)							
Any Equipment	5.9	3.9	5.9	6.6	8.3	6.1	5.4
Walk-In Units	6.7	5.2	6.8	7.8	8.6	6.8	6.2
Cases or Cabinets	6.2	3.9	6.2	6.8	9.2	6.4	5.6
None	4.6	4.6	4.0	10.1	9.8	8.7	8.1
Personal Computers							
None	7.0	6.3	4.9	14.3	13.9	13.6	16.2
1 to 4	7.2	6.4	5.1	12.0	10.3	10.1	9.7
5 to 9	8.1	7.9	6.4	19.3	19.8	19.8	18.6
10 to 19	11.6	8.4	8.0	18.1	14.8	14.3	16.3
20 to 49	11.1	7.4	8.7	14.9	14.1	10.2	11.9
50 to 99	11.0	7.1	7.9	18.8	20.7	17.8	18.0
100 to 249	8.8	7.7	6.2	14.7	11.2	12.5	10.6
250 or More	8.5	6.2	6.8	8.4	8.9	5.9	7.2
Photocopiers							
None	5.4	5.2	3.8	12.2	12.2	11.1	10.1
One	6.8	6.4	5.0	8.4	8.8	7.1	7.1
2 to 4	7.9	5.5	6.3	11.5	11.4	8.8	10.0
5 to 9	17.7	7.6	15.5	20.9	25.9	19.7	20.3
10 or More	12.0	6.3	9.1	8.3	10.7	5.8	6.0
Other Electronic Equipment (more than one may apply)							
Laser Printers	5.1	4.2	4.1	6.9	6.9	5.4	5.0
FAX Machines	5.1	3.8	4.2	6.6	6.8	5.5	4.8
Medical Diagnostic Equipment	19.8	7.9	19.6	12.2	21.9	9.7	12.6
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	5.8	4.5	6.1	6.3	7.2	5.7	5.6
Activities with Large Amounts of Hot Water	6.3	4.0	4.9	7.9	8.4	8.0	7.6
Building Shell Conservation Features (more than one may apply)							
Multipaned Windows	6.5	4.5	5.2	7.6	8.3	6.3	5.9
Tinted, Reflective, or Shading Glass	5.7	4.8	5.6	8.4	9.2	6.9	5.6
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	9.8	5.4	9.0	8.7	10.5	6.4	6.5
Economizer Cycle	8.2	5.2	7.2	8.8	10.2	7.5	6.6
HVAC Maintenance	4.8	3.9	4.0	6.5	5.9	5.0	4.7
Energy Management and Control System (EMCS)	10.3	5.4	8.7	8.7	11.5	8.6	7.4
Lighting Conservation Features (more than one may apply)							
Specular Reflectors	8.8	6.0	7.9	8.5	10.1	7.4	6.9
Electronic Ballasts	5.3	3.9	4.5	7.2	7.1	5.5	5.6
Skylights or Atriums	8.6	5.8	8.4	9.8	12.1	8.5	8.6

RSEs for Table C4. Expenditures for Sum of Major Fuels, 1999

	RSEs for All Buildings			RSEs for Sum of Major Fuel Expenditures			
	Number of Buildings	Floorspace	Floorspace per Building	Total	per Building	per Square Foot	per Million Btu
All Buildings	4.2	3.5	3.6	4.3	4.8	3.3	3.5
Building Floorspace (Square Feet)							
1,001 to 5,000	6.8	6.1	2.6	8.5	8.1	7.5	12.9
5,001 to 10,000	6.7	7.1	1.4	12.6	10.6	10.5	10.0
10,001 to 25,000	7.1	6.8	1.5	10.2	9.5	9.4	10.9
25,001 to 50,000	6.9	6.8	1.1	9.4	5.9	5.8	4.7
50,001 to 100,000	10.3	10.2	1.0	10.7	6.1	6.1	6.5
100,001 to 200,000	6.3	6.4	1.4	11.6	8.1	8.0	6.7
200,001 to 500,000	6.5	6.6	1.9	10.8	10.1	9.5	12.9
Over 500,000	10.7	11.1	2.5	12.2	10.5	9.6	6.2
Principal Building Activity							
Education	12.3	6.2	11.1	7.0	13.0	6.7	8.5
Food Sales	17.2	16.0	12.2	19.7	15.1	11.5	20.2
Food Service	9.3	9.7	6.6	13.9	11.5	11.2	15.2
Health Care	17.6	7.6	16.9	9.6	20.1	9.0	8.6
Inpatient	25.6	9.9	31.7	13.7	37.9	11.3	10.3
Outpatient	19.1	10.3	16.1	12.7	21.9	9.9	11.1
Lodging	11.4	11.0	11.4	12.3	12.6	6.3	8.7
Mercantile	9.1	8.8	8.3	9.6	10.5	8.5	5.9
Retail (Other Than Mall)	10.8	10.7	8.9	11.5	10.5	7.2	10.2
Enclosed and Strip Malls	17.7	10.3	16.2	13.9	19.6	13.9	8.3
Office	8.3	6.9	7.7	9.2	10.1	6.0	4.9
Public Assembly	13.5	10.8	10.5	12.9	10.5	9.5	12.3
Public Order and Safety	28.1	22.2	15.8	23.8	25.4	22.8	10.9
Religious Worship	12.1	12.0	9.3	12.9	12.5	10.5	13.9
Service	12.8	11.8	10.4	17.8	16.4	14.3	13.5
Warehouse and Storage	12.4	9.4	9.6	13.6	15.3	10.6	17.0
Other	22.0	13.6	19.6	25.9	30.3	21.1	18.5
Vacant	14.5	12.2	9.2	29.7	26.2	26.4	25.1
Year Constructed							
1919 or Before	11.3	7.2	10.3	10.9	12.3	11.1	11.1
1920 to 1945	10.9	9.0	9.8	12.3	11.8	10.4	9.2
1946 to 1959	6.7	7.7	5.9	11.0	10.4	9.1	8.3
1960 to 1969	7.4	6.2	6.3	10.2	10.3	8.1	5.7
1970 to 1979	8.1	5.8	7.0	6.8	7.7	6.1	7.0
1980 to 1989	7.4	6.1	6.6	8.6	8.6	6.6	8.1
1990 to 1999	12.9	6.3	9.5	10.4	10.8	8.1	10.0
Floors							
One	5.4	4.9	4.2	6.2	6.2	5.1	6.1
Two	7.4	6.1	6.1	8.5	9.7	7.1	6.6
Three	9.0	7.4	7.3	9.0	9.2	6.7	5.9
Four to Nine	9.8	5.7	10.3	8.2	13.9	6.2	7.0
Ten or More	12.7	10.7	8.3	13.3	9.3	8.3	9.2
Census Region and Division							
Northeast	8.0	7.7	7.0	9.3	9.1	7.6	7.1
New England	15.4	9.4	15.5	12.0	17.7	14.9	10.7
Middle Atlantic	8.8	9.5	8.2	11.0	11.3	8.6	8.9
Midwest	9.7	5.0	7.2	8.1	6.9	6.2	5.4
East North Central	12.6	5.3	10.1	10.4	8.4	8.0	6.9
West North Central	15.0	9.4	9.9	11.2	14.7	7.8	9.8
South	5.6	5.3	5.7	7.9	7.5	4.1	6.2
South Atlantic	11.8	9.1	9.9	13.4	11.3	7.2	8.0
East South Central	8.2	8.6	7.5	11.9	13.7	11.4	16.9
West South Central	5.9	7.4	9.7	11.5	14.1	6.5	8.1
West	10.8	6.0	8.3	7.8	11.5	6.5	7.8
Mountain	11.1	10.8	9.3	16.4	16.5	10.9	17.1
Pacific	15.9	7.6	12.6	9.7	15.8	7.7	10.3

RSEs for Table C4. Expenditures for Sum of Major Fuels, 1999

	RSEs for All Buildings			RSEs for Sum of Major Fuel Expenditures			
	Number of Buildings	Floorspace	Floorspace per Building	Total	per Building	per Square Foot	per Million Btu
Climate Zone: 45-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	19.0	10.5	9.5	13.8	13.2	10.6	6.1
5,500-7,000 HDD	7.0	7.1	5.2	6.6	8.2	7.3	6.7
4,000-5,499 HDD	16.8	9.1	10.7	10.3	13.5	7.4	8.0
Fewer than 4,000 HDD	10.9	8.9	9.0	10.8	11.9	5.2	5.7
2,000 CDD or More and --							
Fewer than 4,000 HDD	11.1	9.4	7.2	12.0	9.5	5.3	9.8
Workers (main shift)							
Fewer than 5	6.0	6.3	4.6	9.3	7.5	7.0	9.6
5 to 9	7.9	7.6	6.2	10.7	9.1	10.2	8.6
10 to 19	7.6	6.7	6.5	9.7	9.2	9.3	8.9
20 to 49	9.0	6.6	5.4	10.8	7.4	7.8	8.0
50 to 99	10.7	8.9	7.4	10.0	9.5	7.5	6.3
100 to 249	11.7	7.2	9.8	10.9	8.6	7.7	6.2
250 or More	8.6	6.3	7.6	8.9	9.4	6.1	10.2
Weekly Operating Hours							
39 or Fewer	10.3	9.8	5.9	13.9	10.0	10.4	9.2
40 to 48	5.9	6.1	5.5	7.8	7.2	6.4	5.2
49 to 60	8.2	6.1	7.8	7.9	10.2	6.9	6.9
61 to 84	9.6	6.1	7.4	8.0	9.6	7.3	6.6
85 to 167	7.7	7.0	7.3	7.4	7.2	7.4	7.5
Open Continuously	10.4	5.0	9.3	8.6	10.5	6.5	7.0
Ownership and Occupancy							
Nongovernment Owned	4.5	4.2	3.9	4.7	4.8	3.4	4.4
Owner Occupied	5.4	4.5	4.5	5.1	5.3	3.8	4.7
Nonowner Occupied	5.8	6.4	6.2	7.3	6.6	5.7	8.5
Unoccupied	17.1	14.6	11.9	39.8	36.4	32.2	35.7
Government Owned	9.0	4.6	7.2	8.1	10.9	6.3	5.9
Federal	25.4	17.9	24.1	21.7	27.5	13.8	12.9
State	15.3	10.2	14.5	14.1	16.6	11.7	8.7
Local	12.4	6.4	9.8	8.9	12.7	7.5	7.4
Vacancy Status							
Completely Vacant	20.7	14.5	13.7	46.8	45.3	42.4	33.9
Mostly Vacant	22.9	20.0	14.4	31.0	28.0	28.9	36.8
Partially Vacant	7.3	6.2	8.0	7.1	9.3	6.0	5.7
Not At All Vacant	4.4	3.4	3.7	4.8	5.4	3.9	4.2
Number of Establishments							
One	4.7	3.5	4.1	4.8	5.5	3.8	4.5
2 to 5	9.4	6.5	8.0	8.9	10.7	7.9	6.6
6 to 10	15.0	10.1	11.7	19.2	18.4	14.8	12.0
11 to 20	16.8	12.1	12.0	11.4	16.2	11.6	10.2
More than 20	25.4	10.2	20.1	12.3	21.1	9.5	9.2
Currently Unoccupied	16.4	13.5	11.3	37.0	33.9	30.1	31.4
Energy Sources (more than one may apply)							
Electricity	5.2	4.0	3.9	5.3	4.7	3.9	3.3
Natural Gas	6.6	4.7	5.1	5.8	6.3	4.5	3.4
Fuel Oil	20.3	7.2	15.4	8.2	17.5	5.7	9.1
District Heat	28.6	15.7	22.6	19.7	21.9	10.7	14.8
District Chilled Water	27.2	12.1	21.8	21.2	24.6	14.6	22.7
Propane	15.0	10.9	9.3	13.3	13.3	12.3	17.3
Other	18.8	14.0	17.5	15.9	17.4	11.5	12.1

RSEs for Table C4. Expenditures for Sum of Major Fuels, 1999

	RSEs for All Buildings			RSEs for Sum of Major Fuel Expenditures			
	Number of Buildings	Floorspace	Floorspace per Building	Total	per Building	per Square Foot	per Million Btu
Space-Heating Energy Sources (more than one may apply)							
Electricity	5.1	4.1	5.0	6.0	6.2	4.4	4.1
Natural Gas	5.4	4.2	4.6	6.0	5.9	4.0	4.1
Fuel Oil	19.2	10.7	11.6	12.3	13.2	7.7	6.6
District Heat	16.5	9.9	12.9	15.6	18.1	11.8	15.7
Propane	18.3	18.0	10.2	24.7	22.2	24.5	11.4
Other	25.8	21.5	21.7	26.1	25.6	14.0	17.8
Primary Space-Heating Energy Source							
Electricity	7.1	5.5	6.4	7.8	7.8	5.9	5.2
Natural Gas	6.0	4.4	5.0	6.0	6.5	4.1	4.0
Fuel Oil	18.8	12.4	11.0	15.9	11.8	11.0	5.0
District Heat	16.2	10.3	13.0	16.4	16.4	12.1	15.8
Propane	19.1	19.5	11.4	30.8	29.0	31.7	17.7
Other	32.6	25.8	25.5	26.8	29.1	20.9	23.7
Cooling Energy Sources (more than one may apply)							
Electricity	4.0	4.0	3.5	4.5	4.6	3.4	3.3
Natural Gas	18.3	12.2	14.0	17.2	17.6	16.7	11.2
District Chilled Water	27.2	12.1	21.8	21.2	24.6	14.6	22.7
Water-Heating Energy Sources (more than one may apply)							
Electricity	6.0	5.5	5.4	6.6	6.4	5.3	6.1
Natural Gas	6.1	4.4	5.1	5.9	6.0	3.7	4.6
Fuel Oil	20.3	11.5	17.0	15.5	15.9	12.3	6.4
District Heat	17.3	10.8	14.4	17.0	22.1	13.5	16.1
Propane	18.9	17.3	19.3	27.0	27.6	32.8	12.2
Cooking Energy Sources (more than one may apply)							
Electricity	8.1	5.2	7.3	6.3	8.0	6.2	5.1
Natural Gas	8.2	5.1	8.1	5.9	9.0	4.9	5.1
Propane	22.3	16.8	19.1	22.6	18.0	18.0	9.0
Energy End Uses (more than one may apply)							
Buildings with Space Heating	4.2	3.5	3.9	4.3	5.0	3.3	3.6
Buildings with Cooling	3.9	3.8	3.5	4.5	4.6	3.3	3.6
Buildings with Water Heating	4.4	3.7	3.7	4.5	4.7	3.4	3.5
Buildings with Cooking	5.8	4.4	6.0	4.6	6.6	4.3	4.0
Buildings with Manufacturing	16.7	12.7	14.8	17.7	19.8	11.5	14.3
Buildings with Electricity Generation	14.2	7.4	14.6	8.4	14.7	6.7	9.3
Percent of Floorspace Heated							
Not Heated	10.5	11.3	7.0	19.9	18.4	17.1	31.1
1 to 50	10.9	8.0	7.7	13.6	12.7	10.6	9.4
51 to 99	8.2	7.1	6.4	10.4	9.3	7.2	9.4
100	4.8	4.0	4.1	5.2	6.0	4.3	3.8
Percent of Floorspace Cooled							
Not Cooled	10.4	8.8	7.0	16.8	14.2	14.6	13.3
1 to 50	9.1	6.9	6.1	10.7	8.1	6.7	8.9
51 to 99	6.9	4.5	5.8	6.5	7.1	4.6	4.7
100	4.5	5.2	5.4	5.4	6.2	4.4	5.1

RSEs for Table C4. Expenditures for Sum of Major Fuels, 1999

	RSEs for All Buildings			RSEs for Sum of Major Fuel Expenditures			
	Number of Buildings	Floorspace	Floorspace per Building	Total	per Building	per Square Foot	per Million Btu
Percent Lit When Open							
Zero	49.1	32.5	25.3	54.4	52.8	40.6	11.9
1 to 50	9.0	8.1	5.6	13.2	10.6	10.6	11.7
51 to 99	6.4	4.9	4.9	7.0	7.7	5.7	4.6
100	5.8	4.2	5.2	5.2	6.0	3.8	4.9
Building Never Open/ Electricity Not Used.....	13.0	12.0	8.2	31.2	27.0	24.2	21.3
Percent Lit When Closed							
Zero	6.2	5.9	4.6	8.3	6.9	5.6	7.0
1 to 50	4.9	4.7	5.1	5.7	5.7	4.8	4.1
51 to 100	16.3	10.0	15.4	16.2	16.9	14.1	21.6
Building Never Closed/ Electricity Not Used.....	10.4	5.0	9.3	8.6	10.5	6.5	7.0
Heating Equipment (more than one may apply)							
Heat Pumps	10.5	6.3	9.3	11.0	11.9	8.9	11.1
Furnaces	7.4	5.5	5.0	9.3	8.0	7.2	9.2
Individual Space Heaters	6.7	5.0	6.0	6.3	8.1	5.2	6.1
District Heat	16.5	9.9	12.9	15.6	18.1	11.8	15.7
Boilers	7.9	5.6	6.8	7.3	8.0	5.6	4.6
Packaged Heating Units	6.3	4.8	5.1	5.5	5.9	3.8	4.8
Other	15.1	7.9	15.2	13.6	20.5	12.1	20.6
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	10.3	6.8	8.6	9.2	8.6	7.4	8.8
Heat Pumps	10.4	6.5	9.2	10.9	11.6	9.4	11.0
Individual Air Conditioners	8.0	5.9	6.3	7.6	7.8	5.5	6.8
District Chilled Water	27.2	12.1	21.8	21.2	24.6	14.6	22.7
Central Chillers	14.5	6.0	11.9	9.6	12.7	6.7	5.3
Packaged Air Conditioning Units	4.7	4.0	4.1	5.0	4.8	3.8	4.4
Swamp Coolers	17.0	17.5	12.5	17.8	15.3	12.0	13.1
Other	29.6	16.3	25.7	20.5	28.9	14.0	15.2
Main Equipment Replaced Since 1995 (more than one may apply)							
Heating	6.8	7.6	6.0	9.7	8.8	5.6	8.3
Cooling	5.9	5.5	4.5	7.1	5.8	5.3	7.1
Lighting Equipment Types (more than one may apply)							
Incandescent	4.9	4.2	4.1	5.5	5.9	4.4	3.9
Standard Fluorescent	4.1	3.5	3.7	4.2	4.7	3.4	3.6
Compact Fluorescent	9.0	5.7	6.9	7.5	8.2	4.2	4.9
High Intensity Discharge	10.9	5.4	8.0	5.8	9.3	4.9	5.5
Halogen	9.1	4.4	8.7	5.9	9.5	5.1	5.8
Other	32.3	14.6	35.3	35.3	23.2	32.9	15.0
Water Heating Equipment							
Centralized System	5.0	4.1	4.4	5.3	5.9	3.6	4.2
Distributed System	9.5	7.3	6.9	9.4	11.2	7.0	10.6
Combination of Centralized and Distributed System	11.0	5.5	9.7	7.8	8.9	6.5	6.4

RSEs for Table C4. Expenditures for Sum of Major Fuels, 1999

	RSEs for All Buildings			RSEs for Sum of Major Fuel Expenditures			
	Number of Buildings	Floorspace	Floorspace per Building	Total	per Building	per Square Foot	per Million Btu
Commercial Refrigeration							
Equipment (more than one may apply)							
Any Equipment	5.9	3.9	5.9	4.2	5.9	3.9	4.5
Walk-In Units	6.7	5.2	6.8	5.4	5.6	4.5	5.1
Cases or Cabinets	6.2	3.9	6.2	4.4	6.6	4.1	4.6
None	4.6	4.6	4.0	6.3	6.4	4.8	5.8
Personal Computers							
None	7.0	6.3	4.9	9.9	9.1	8.8	9.7
1 to 4	7.2	6.4	5.1	7.8	5.8	5.7	7.9
5 to 9	8.1	7.9	6.4	10.3	10.0	10.1	11.6
10 to 19	11.6	8.4	8.0	12.2	10.0	8.9	10.2
20 to 49	11.1	7.4	8.7	10.4	10.8	6.5	9.4
50 to 99	11.0	7.1	7.9	10.4	12.7	8.9	13.6
100 to 249	8.8	7.7	6.2	12.5	9.5	9.7	5.9
250 or More	8.5	6.2	6.8	8.6	8.7	5.8	6.8
Photocopiers							
None	5.4	5.2	3.8	7.3	6.4	5.8	7.6
One	6.8	6.4	5.0	8.9	8.0	7.2	6.3
2 to 4	7.9	5.5	6.3	7.9	8.6	4.9	6.7
5 to 9	17.7	7.6	15.5	14.0	20.1	12.2	13.3
10 or More	12.0	6.3	9.1	7.8	11.0	5.2	5.2
Other Electronic Equipment (more than one may apply)							
Laser Printers	5.1	4.2	4.1	5.3	5.8	3.8	3.7
FAX Machines	5.1	3.8	4.2	4.7	5.3	3.5	3.8
Medical Diagnostic Equipment	19.8	7.9	19.6	10.7	20.7	8.0	9.4
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	5.8	4.5	6.1	4.7	6.6	4.3	3.9
Activities with Large Amounts of Hot Water	6.3	4.0	4.9	5.4	6.4	5.2	5.0
Building Shell Conservation Features (more than one may apply)							
Multipaned Windows	6.5	4.5	5.2	5.5	7.0	4.6	4.4
Tinted, Reflective, or Shading Glass	5.7	4.8	5.6	6.1	7.3	4.5	5.0
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	9.8	5.4	9.0	6.8	9.4	5.3	4.7
Economizer Cycle	8.2	5.2	7.2	6.5	8.0	4.8	6.0
HVAC Maintenance	4.8	3.9	4.0	4.5	4.9	3.3	3.6
Energy Management and Control System (EMCS)	10.3	5.4	8.7	6.9	9.3	6.3	5.9
Lighting Conservation Features (more than one may apply)							
Specular Reflectors	8.8	6.0	7.9	6.8	9.2	6.6	4.5
Electronic Ballasts	5.3	3.9	4.5	5.4	5.8	4.0	3.9
Skylights or Atriums	8.6	5.8	8.4	6.7	9.9	4.8	5.5

RSEs for Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Consumption				RSEs for Total Floorspace of Buildings				RSEs for Energy Intensity for Sum of Major Fuels			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	10.1	11.1	11.3	10.4	7.7	5.0	5.3	6.0	10.2	8.8	8.8	9.8
Building Floorspace (Square Feet)												
1,001 to 5,000	45.8	24.6	28.8	28.5	12.8	15.1	9.3	11.9	39.4	21.6	28.3	27.1
5,001 to 10,000	38.5	24.8	39.0	27.1	15.7	15.7	10.0	13.0	29.8	19.2	37.3	22.5
10,001 to 25,000	22.0	18.6	36.8	24.4	18.2	11.5	10.9	12.4	19.5	17.2	38.5	20.5
25,001 to 50,000	21.1	12.9	18.0	16.4	15.2	9.9	11.3	7.6	12.4	9.9	13.2	13.5
50,001 to 100,000	18.5	19.2	17.9	23.0	17.1	12.9	12.9	13.3	11.8	10.6	11.6	20.0
100,001 to 200,000	22.4	26.6	19.0	29.8	10.2	10.2	11.5	13.9	18.4	21.2	12.5	25.8
200,001 to 500,000	19.6	36.5	19.3	32.4	15.7	13.1	12.6	11.2	19.7	34.4	15.9	28.2
Over 500,000	20.9	20.9	30.3	31.1	24.7	17.8	20.5	24.8	26.7	20.7	15.9	17.1
Principal Building Activity												
Education	14.4	14.9	16.3	30.7	14.4	13.4	10.1	15.3	14.0	12.4	11.0	29.7
Food Sales	46.0	62.1	28.4	41.2	49.7	49.8	14.8	28.6	26.4	58.2	27.7	28.8
Food Service	64.5	34.5	41.9	57.4	41.5	19.6	19.1	17.1	57.1	27.4	39.0	55.2
Health Care	22.8	18.2	19.4	36.6	13.8	14.5	13.5	18.4	21.2	16.6	18.4	25.6
Inpatient	24.9	20.9	23.5	48.5	14.8	20.4	18.8	21.6	24.2	18.6	24.7	31.2
Outpatient	71.5	37.6	34.0	36.9	35.2	19.7	18.1	26.2	41.7	32.0	23.6	23.4
Lodging	18.0	25.8	25.9	29.1	16.9	13.1	17.7	23.0	21.1	22.1	24.1	24.3
Mercantile	29.7	18.1	14.9	27.8	17.9	18.6	11.1	14.3	20.8	13.1	12.4	27.8
Retail (Other Than Mall)	32.5	24.7	15.8	17.3	21.8	22.0	13.3	20.1	22.5	16.4	12.5	19.8
Enclosed and Strip Malls	46.7	22.1	24.0	41.5	21.4	19.8	16.9	16.7	39.1	21.5	21.4	39.3
Office	16.3	19.5	20.6	25.5	13.9	14.3	10.5	11.1	17.2	16.6	12.4	18.4
Public Assembly	30.5	24.3	23.8	41.2	22.9	15.4	13.6	29.4	27.9	18.0	22.2	27.5
Public Order and Safety	51.8	33.0	33.6	44.2	39.9	23.7	23.4	32.4	70.0	24.1	28.9	23.2
Religious Worship	28.1	30.6	27.0	42.3	30.5	21.8	23.5	18.1	23.7	30.1	27.4	40.0
Service	56.6	26.0	47.9	40.2	36.1	16.9	19.4	22.7	46.3	16.5	42.0	28.7
Warehouse and Storage	30.3	40.7	14.6	43.4	21.5	12.2	13.6	23.3	31.7	38.0	14.9	36.4
Other	48.8	56.9	42.2	60.7	28.2	23.9	28.7	28.6	36.0	45.2	23.9	56.7
Vacant	44.5	51.6	66.8	62.4	34.2	17.5	30.5	16.4	33.5	44.9	71.8	62.2
Year Constructed												
1919 or Before	18.2	38.8	37.8	42.6	16.6	13.8	24.0	26.9	17.8	31.4	34.3	31.0
1920 to 1945	27.8	24.0	21.6	37.5	21.0	14.6	17.1	18.3	22.7	19.1	18.6	34.6
1946 to 1959	27.7	16.1	19.0	38.9	14.4	13.8	10.9	17.9	27.8	13.5	14.0	30.6
1960 to 1969	23.0	20.7	28.7	23.2	13.7	10.6	11.5	10.1	16.7	17.2	25.5	21.4
1970 to 1979	19.0	12.5	11.1	23.1	20.3	10.5	7.3	11.7	25.5	11.0	12.0	20.1
1980 to 1989	25.5	20.8	25.0	20.0	19.8	14.3	8.9	11.2	22.4	19.6	20.6	16.1
1990 to 1999	20.6	33.3	22.6	26.1	14.6	14.0	11.9	10.6	17.2	30.1	21.2	22.6
Floors												
One	27.1	20.1	15.2	19.3	13.1	5.9	7.9	10.5	23.7	18.6	14.7	15.0
Two	21.7	15.5	27.3	19.9	11.9	12.5	7.9	13.7	20.2	11.1	28.5	17.8
Three	21.0	17.9	15.7	23.9	17.5	8.0	15.1	16.2	8.9	14.0	16.9	22.1
Four to Nine	14.6	17.6	26.8	26.9	16.0	13.0	15.0	13.0	14.4	10.4	16.6	22.6
Ten or More	30.1	24.1	20.9	23.9	23.9	14.7	17.1	27.4	27.2	22.6	12.7	17.4
Climate Zone: 45-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	24.9	19.8	0.0	22.6	18.4	13.6	0.0	15.4	23.7	16.3	0.0	12.6
5,500-7,000 HDD	14.6	14.8	0.0	27.7	11.7	8.6	0.0	15.3	15.2	12.8	0.0	33.0
4,000-5,499 HDD	14.5	23.3	28.6	16.6	11.2	19.8	18.8	25.7	14.1	15.3	19.7	13.8
Fewer than 4,000 HDD	0.0	0.0	19.5	17.3	0.0	0.0	13.6	8.5	0.0	0.0	11.0	13.8
2,000 CDD or More and --												
Fewer than 4,000 HDD	0.0	0.0	14.3	35.2	0.0	0.0	9.1	24.7	0.0	0.0	10.5	31.0

RSEs for Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Consumption				RSEs for Total Floorspace of Buildings				RSEs for Energy Intensity for Sum of Major Fuels			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Workers (main shift)												
Fewer than 5	27.6	19.7	15.7	26.6	20.3	11.1	8.9	14.3	24.8	16.1	14.5	23.5
5 to 9	31.5	13.7	21.1	27.1	19.8	10.9	10.2	13.9	30.9	12.2	21.8	20.3
10 to 19	32.2	25.1	21.0	30.6	21.1	17.5	9.9	14.0	23.1	16.9	21.1	33.6
20 to 49	29.5	18.3	29.3	16.8	14.5	13.0	8.3	11.1	24.9	16.1	26.1	13.4
50 to 99	19.0	21.0	21.2	25.5	17.0	11.2	10.7	15.8	19.7	18.1	14.1	20.0
100 to 249	17.4	25.7	20.6	22.3	12.1	14.4	11.5	12.0	17.0	22.0	14.1	16.2
250 or More	14.7	22.5	18.0	22.8	12.5	9.9	12.1	12.5	15.3	18.7	10.0	19.9
Weekly Operating Hours												
39 or Fewer	38.5	18.8	28.2	29.4	29.3	16.6	13.5	14.2	39.7	22.2	24.1	24.5
40 to 48	24.8	13.2	12.3	18.0	18.7	9.4	9.6	12.7	17.8	14.5	12.2	15.5
49 to 60	19.8	16.0	26.3	16.8	13.4	9.5	8.8	11.1	15.7	13.4	24.0	17.9
61 to 84	26.2	16.0	24.4	11.3	14.9	8.3	8.6	11.4	26.7	13.3	23.3	14.3
85 to 167	22.1	22.2	23.9	23.3	15.1	13.5	12.3	12.6	24.2	16.4	23.0	24.5
Open Continuously	16.4	22.7	16.6	18.3	10.4	7.8	10.7	12.7	16.4	19.4	13.7	15.4
Ownership and Occupancy												
Nongovernment Owned	12.9	13.5	13.1	12.1	9.2	6.3	5.2	7.6	11.9	11.1	10.6	10.0
Owner Occupied	14.9	12.7	13.7	16.6	11.6	7.3	5.6	7.8	13.7	11.0	11.8	14.9
Nonowner Occupied	24.4	31.8	23.6	12.5	14.4	11.1	9.1	10.1	20.5	30.8	21.8	10.6
Unoccupied	65.5	60.1	70.0	45.2	37.8	21.3	29.5	14.8	65.8	54.7	71.3	46.9
Government Owned	15.8	16.2	12.0	26.8	11.3	11.8	9.7	8.4	13.1	11.1	10.3	26.2
Federal	50.0	54.9	25.5	57.9	40.8	40.3	23.3	43.2	37.7	37.9	23.1	18.8
State	17.4	33.4	27.5	24.2	25.4	23.4	14.1	23.3	23.2	14.5	20.8	24.6
Local	19.7	14.2	14.4	22.2	14.9	15.3	13.9	11.7	18.5	10.8	11.4	24.0
Vacancy Status												
Completely Vacant	0.0	62.7	70.6	89.1	72.9	21.4	33.8	16.5	0.0	50.4	69.2	88.8
Mostly Vacant	44.5	66.1	70.5	71.6	36.0	30.3	51.7	27.5	33.5	60.6	115.0	73.0
Partially Vacant	18.8	13.4	18.5	19.8	15.0	7.5	9.5	11.2	16.7	11.9	13.0	18.7
Not At All Vacant	11.9	13.1	12.0	11.7	8.9	5.7	5.4	7.0	10.9	10.3	10.3	9.9
Number of Establishments												
One	12.8	12.1	12.8	12.0	8.0	5.9	5.1	7.7	12.0	9.4	11.9	11.6
2 to 5	17.2	25.7	21.7	24.5	16.1	11.6	10.8	15.8	18.0	23.6	16.7	20.8
6 to 10	32.8	26.6	36.0	36.9	23.4	19.5	16.4	17.4	27.1	24.0	27.6	28.2
11 to 20	33.8	23.3	26.4	42.5	27.5	16.8	15.6	26.4	43.0	17.5	18.4	36.1
More than 20	30.0	40.1	13.3	25.9	21.8	16.0	14.1	19.7	26.4	38.0	14.5	23.8
Currently Unoccupied	64.3	56.9	69.7	69.8	36.1	19.7	28.5	14.7	61.0	52.9	70.9	65.3
Energy Sources (more than one may apply)												
Electricity	10.1	11.1	11.3	10.4	9.7	6.5	5.6	7.4	8.4	7.7	8.6	9.2
Natural Gas	13.0	12.1	14.3	11.7	9.2	7.7	9.1	7.4	11.4	7.4	11.6	8.0
Fuel Oil	16.3	25.0	17.9	30.1	12.0	12.4	13.6	14.8	11.3	20.4	11.5	25.9
District Heat	26.0	30.7	32.6	45.7	23.8	25.0	31.7	41.7	16.0	20.4	14.7	25.5
District Chilled Water	34.8	38.8	29.3	62.5	25.2	26.1	20.1	18.2	37.1	28.7	28.0	58.2
Propane	26.2	51.2	31.6	25.8	14.8	23.2	23.6	31.3	24.8	49.0	22.3	27.7
Other	20.1	41.4	20.3	30.5	31.4	32.5	16.8	25.5	26.4	30.1	20.4	25.8
Space-Heating Energy Sources (more than one may apply)												
Electricity	13.5	13.3	11.4	13.8	10.5	6.3	5.9	6.5	10.8	10.9	8.7	12.2
Natural Gas	15.0	13.0	16.0	12.9	7.6	6.3	7.6	8.4	12.8	9.4	13.8	10.4
Fuel Oil	17.6	28.2	29.0	57.4	12.3	16.7	24.8	43.7	13.2	25.6	12.9	26.1
District Heat	25.6	30.7	32.6	48.2	16.4	18.9	20.8	21.8	18.6	30.2	35.9	38.7
Propane	38.3	36.6	41.9	43.0	27.4	31.6	36.4	34.6	40.7	32.4	34.4	31.9
Other	44.5	68.1	38.1	50.5	45.1	44.4	29.6	50.4	22.9	24.4	28.1	49.5

RSEs for Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Consumption				RSEs for Total Floorspace of Buildings				RSEs for Energy Intensity for Sum of Major Fuels			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Primary Space-Heating Energy Source												
Electricity	20.0	24.1	13.4	18.4	17.5	12.0	7.4	9.3	13.8	24.8	11.0	14.8
Natural Gas	16.6	12.7	16.6	14.2	7.8	6.7	7.9	9.5	14.1	8.7	15.5	10.8
Fuel Oil	20.5	69.7	36.5	64.1	13.3	61.6	32.9	61.4	18.8	16.0	12.9	31.7
District Heat	25.6	31.3	33.2	49.0	17.0	19.9	22.2	23.2	18.3	30.1	35.8	39.6
Propane	56.6	31.0	37.0	61.7	32.0	35.4	36.9	49.6	57.9	29.3	35.0	35.4
Other	29.5	95.9	13.5	72.1	41.8	55.3	33.2	44.8	12.2	92.2	51.0	72.5
Cooling Energy Sources (more than one may apply)												
Electricity	11.3	11.8	10.8	11.1	9.2	6.3	5.6	7.3	11.0	9.4	8.3	8.8
Natural Gas	37.8	44.7	46.1	34.7	26.5	12.6	31.3	25.3	32.2	41.2	56.3	35.5
District Chilled Water	34.8	38.8	29.3	62.5	25.2	26.1	20.1	18.2	37.1	28.7	28.0	58.2
Water-Heating Energy Sources (more than one may apply)												
Electricity	12.8	25.3	9.8	15.4	15.2	10.9	7.4	8.7	13.9	22.2	7.1	16.0
Natural Gas	15.7	11.2	16.7	14.8	9.1	6.3	8.3	9.2	14.6	9.6	14.0	12.4
Fuel Oil	16.1	46.9	47.3	66.8	12.0	28.9	40.5	66.7	16.2	34.3	23.3	3.6
District Heat	28.6	33.1	43.9	52.8	17.9	19.8	19.5	27.2	21.4	34.4	43.4	32.7
Propane	52.0	63.2	46.9	57.2	27.9	38.4	42.0	56.3	61.2	57.7	38.2	23.0
Cooking Energy Sources (more than one may apply)												
Electricity	16.4	15.2	14.3	17.2	12.2	11.2	9.2	9.7	19.7	12.6	11.2	14.9
Natural Gas	15.8	10.2	14.4	19.5	11.1	8.1	8.4	13.4	13.8	9.9	12.7	14.2
Propane	34.3	73.8	57.2	27.1	22.6	38.5	31.4	34.2	30.9	45.0	26.4	45.0
Energy End Uses (more than one may apply)												
Buildings with Space Heating	10.2	11.2	11.1	10.5	7.8	5.3	5.2	6.2	9.9	8.7	8.7	10.1
Buildings with Cooling	11.1	11.4	10.7	10.5	8.5	6.0	5.5	6.5	10.8	8.9	8.1	9.4
Buildings with Water Heating	9.7	11.9	12.0	10.5	7.5	5.0	5.8	6.4	10.3	9.6	9.2	9.9
Buildings with Cooking	10.4	11.4	12.6	13.7	9.6	7.9	7.7	9.1	12.4	9.8	9.9	12.0
Buildings with Manufacturing	59.5	43.9	26.5	39.8	28.8	26.0	14.0	31.8	55.2	32.0	23.8	35.3
Buildings with Electricity Generation	14.8	21.3	15.6	24.4	15.3	12.1	10.2	13.6	17.0	22.3	11.8	22.2
Percent of Floorspace Heated												
Not Heated	52.6	70.3	48.9	37.7	32.0	22.1	16.5	16.3	59.9	72.0	49.4	35.8
1 to 50	20.1	27.5	17.0	32.9	22.0	16.8	9.5	17.6	26.8	19.0	16.8	28.0
51 to 99	14.2	26.6	28.6	14.6	16.2	17.6	9.9	15.4	13.6	23.2	26.1	13.5
100	12.2	12.0	12.5	14.6	8.5	6.3	6.4	9.9	10.0	9.4	9.1	13.2
Percent of Floorspace Cooled												
Not Cooled	22.8	26.0	72.0	35.5	22.9	18.2	12.3	14.9	22.2	25.3	71.9	30.4
1 to 50	23.1	24.9	35.8	24.7	15.2	9.1	11.5	14.6	17.0	21.1	32.3	20.6
51 to 99	13.7	11.9	15.0	14.8	10.8	7.4	7.7	12.2	12.6	10.9	11.8	10.6
100	16.6	18.3	13.3	14.5	14.5	8.8	7.6	7.0	20.4	15.2	9.1	14.1
Percent Lit When Open												
Zero	X	82.6	73.5	87.7	68.9	58.8	45.6	68.5	X	64.6	57.9	22.2
1 to 50	25.2	21.5	35.1	30.1	19.1	14.3	11.5	16.8	20.9	17.5	34.7	24.3
51 to 99	12.6	11.3	18.6	20.9	8.4	9.5	7.4	9.8	12.8	10.2	16.1	16.7
100	15.8	15.8	13.7	15.5	12.2	6.4	6.8	7.1	13.2	13.3	11.5	13.5
Building Never Open/ Electricity Not Used.....	58.0	49.5	54.9	65.1	37.1	16.1	23.0	16.4	43.5	45.9	49.5	61.0

RSEs for Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Consumption				RSEs for Total Floorspace of Buildings				RSEs for Energy Intensity for Sum of Major Fuels			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Percent Lit When Closed												
Zero	30.7	9.8	17.2	24.4	20.1	9.0	7.4	11.1	16.5	7.5	16.5	19.5
1 to 50	13.2	12.6	17.0	13.5	9.1	7.7	6.5	9.6	14.3	9.9	14.1	11.9
51 to 100	32.6	37.8	41.1	41.9	20.9	29.6	18.0	22.6	29.4	28.7	40.6	32.6
Building Never Closed/ Electricity Not Used.....	16.4	22.7	16.6	18.3	10.4	7.8	10.7	12.7	16.4	19.4	13.7	15.4
Heating Equipment (more than one may apply)												
Heat Pumps	29.2	37.2	27.0	29.5	15.8	18.1	7.7	12.1	28.1	32.7	27.7	26.1
Furnaces	31.3	26.6	35.5	20.6	14.5	9.1	10.2	13.5	23.6	22.8	30.5	15.8
Individual Space Heaters	15.3	19.2	9.3	21.3	16.3	9.8	5.5	9.9	12.9	16.4	8.0	19.8
District Heat	25.6	30.7	32.6	48.2	16.4	18.9	20.8	21.8	18.6	30.2	35.9	38.7
Boilers	12.8	13.3	16.1	19.9	10.0	8.7	7.9	11.9	13.5	9.7	10.4	16.7
Packaged Heating Units	17.4	17.0	11.7	11.2	10.3	7.9	6.7	10.6	17.3	15.2	8.9	11.3
Other	20.9	53.0	19.7	39.5	24.0	20.1	15.1	14.4	18.7	47.9	21.7	28.4
Cooling Equipment (more than one may apply)												
Residential-Type Central												
Air Conditioners	19.4	19.1	23.2	41.6	11.9	9.9	13.4	18.1	19.9	17.8	18.9	30.9
Heat Pumps	26.1	34.4	26.4	28.1	17.1	19.8	7.1	12.3	26.3	29.6	27.4	25.2
Individual Air Conditioners	16.7	21.2	12.2	20.1	13.1	9.7	9.7	15.4	12.6	17.0	8.9	20.5
District Chilled Water	34.8	38.8	29.3	62.5	25.2	26.1	20.1	18.2	37.1	28.7	28.0	58.2
Central Chillers	11.9	19.0	17.1	21.9	12.5	8.9	12.0	11.2	13.7	17.0	7.8	17.5
Packaged Air Conditioning												
Units	13.7	13.5	10.6	11.6	8.9	6.7	5.7	9.0	12.3	10.6	8.3	12.9
Swamp Coolers	50.9	60.1	45.9	30.6	59.8	35.3	41.4	21.3	127.1	52.3	54.1	25.8
Other	50.0	49.7	37.0	63.5	36.9	30.8	19.9	27.1	56.5	32.9	35.0	36.3
Main Equipment Replaced Since 1995 (more than one may apply)												
Heating	19.5	25.2	17.1	27.8	13.5	15.7	9.2	14.4	15.5	18.1	14.6	24.3
Cooling	17.0	24.0	15.6	14.5	12.4	9.4	7.4	12.9	14.5	19.8	12.4	12.2
Lighting Equipment Types (more than one may apply)												
Incandescent	10.4	11.1	11.9	13.8	9.9	7.0	5.8	7.6	12.6	8.6	8.7	12.3
Standard Fluorescent	10.8	11.0	11.3	10.2	7.9	5.4	5.1	6.4	10.4	8.7	9.0	9.8
Compact Fluorescent	13.3	12.4	17.0	16.7	9.4	8.5	11.1	9.4	10.5	8.9	8.1	15.2
High Intensity Discharge	11.3	15.5	21.2	18.1	12.5	9.0	10.0	12.5	12.4	14.2	18.4	16.1
Halogen	16.0	13.6	23.1	18.2	10.2	7.2	8.0	9.7	14.1	11.0	20.3	18.4
Other	48.7	54.6	57.0	37.9	35.0	35.2	18.7	36.1	33.6	51.5	57.5	24.2
Water Heating Equipment												
Centralized System	11.5	10.7	15.0	14.7	7.2	5.9	7.0	8.9	9.2	9.0	12.9	12.1
Distributed System	17.9	35.3	17.3	13.4	19.8	11.5	9.9	10.7	18.5	32.1	11.4	13.3
Combination of Centralized and Distributed System	21.0	16.4	15.6	28.2	14.8	8.6	10.5	8.7	19.1	16.6	10.8	24.2
Commercial Refrigeration Equipment (more than one may apply)												
Any Equipment	10.5	12.3	12.7	12.3	9.2	6.7	7.4	7.4	12.7	9.6	10.2	10.0
Walk-In Units	12.6	13.7	14.7	14.1	10.5	7.6	9.0	10.3	13.5	10.2	11.2	11.7
Cases or Cabinets	12.6	12.3	12.9	13.9	10.3	8.1	6.7	8.6	13.5	10.2	11.3	10.6
None	16.5	17.4	16.2	14.5	10.7	7.7	5.9	7.1	13.3	14.2	14.5	14.9

RSEs for Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Consumption				RSEs for Total Floorspace of Buildings				RSEs for Energy Intensity for Sum of Major Fuels			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Personal Computers												
None	33.3	21.8	23.4	40.7	23.1	11.0	7.9	15.5	28.5	19.5	22.3	36.1
1 to 4	20.9	19.2	17.3	28.1	14.5	11.5	9.9	14.9	21.7	15.8	16.1	20.0
5 to 9	32.7	22.9	34.0	22.2	19.1	14.4	11.4	18.1	31.1	21.5	33.9	21.9
10 to 19	34.8	23.7	36.9	19.4	21.7	18.3	10.7	17.3	21.9	15.4	34.7	14.0
20 to 49	27.3	34.3	19.6	18.9	14.2	15.9	10.5	15.1	22.7	27.7	13.1	14.4
50 to 99	19.2	44.8	20.4	16.7	10.8	16.0	13.2	13.2	15.4	42.4	16.3	13.5
100 to 249	18.7	23.8	24.6	29.8	17.0	13.7	13.6	15.9	25.5	19.0	16.3	17.2
250 or More	15.1	12.9	20.4	26.1	11.2	10.5	14.4	10.6	15.8	7.8	8.5	23.6
Photocopiers												
None	26.9	17.2	23.3	24.4	14.0	7.8	6.7	11.1	26.4	14.5	22.7	17.6
One	25.0	15.4	15.5	17.1	16.4	9.4	9.1	15.7	15.8	14.5	12.9	14.0
2 to 4	15.6	19.3	27.9	22.5	13.7	10.7	9.1	10.8	11.7	14.3	21.9	19.0
5 to 9	15.7	39.4	16.0	25.6	14.5	16.9	12.1	14.9	16.6	37.3	17.3	26.7
10 or More	14.1	12.2	17.8	21.9	13.4	8.9	13.0	12.0	15.3	9.2	7.3	14.9
Other Electronic Equipment (more than one may apply)												
Laser Printers	8.5	11.3	12.6	14.3	9.1	6.6	6.3	7.0	9.4	10.0	9.8	11.4
FAX Machines	9.6	11.5	11.7	12.5	9.3	5.3	5.7	6.8	11.0	9.7	9.1	11.0
Medical Diagnostic Equipment	23.5	18.5	20.5	38.2	14.5	13.7	13.2	19.3	19.8	16.7	18.5	26.2
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	10.6	11.4	13.0	13.9	9.7	7.8	8.0	8.8	11.7	9.6	10.1	12.5
Activities with Large Amounts of Hot Water	12.3	11.0	17.8	15.6	10.3	8.0	7.2	8.4	13.7	8.9	17.6	13.5
Building Shell Conservation Features (more than one may apply)												
Multipaned Windows	12.6	11.0	16.5	11.2	8.2	6.1	7.2	9.1	12.6	9.7	12.5	11.8
Tinted, Reflective, or Shading Glass	9.4	17.3	10.6	14.5	10.4	7.5	6.5	8.5	10.6	14.1	7.0	14.6
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	13.3	12.3	16.9	18.1	12.2	7.1	9.6	8.7	17.4	9.3	10.0	14.5
Economizer Cycle	12.1	13.8	17.5	16.2	11.3	8.2	11.3	8.1	12.8	12.4	8.9	13.5
HVAC Maintenance	9.8	11.3	11.3	11.6	7.7	6.7	5.9	7.1	9.9	8.3	8.8	9.8
Energy Management and Control System (EMCS)	12.3	14.3	12.0	18.1	12.0	6.3	8.6	9.5	14.6	13.4	6.5	17.5
Lighting Conservation Features (more than one may apply)												
Specular Reflectors	17.0	17.2	12.7	16.3	11.5	11.6	6.8	10.7	18.2	14.8	9.6	12.2
Electronic Ballasts	12.9	13.1	11.0	11.4	8.0	6.7	6.3	7.0	11.8	9.6	7.4	9.7
Skylights or Atriums	12.7	15.1	26.8	16.5	13.1	8.4	8.8	10.2	15.8	11.7	22.2	16.5

RSEs for Table C6. Expenditures by Census Region for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Expenditures				RSEs for Sum of Major Fuel Expenditures							
					per Million Btu				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	9.3	8.1	7.9	7.8	7.1	5.4	6.2	7.8	7.6	6.2	4.1	6.5
Building Floorspace (Square Feet)												
1,001 to 5,000	23.2	18.3	15.9	12.9	39.9	17.1	27.4	24.0	15.2	14.6	11.6	12.4
5,001 to 10,000	29.5	24.1	21.9	24.4	15.5	14.2	35.6	14.4	23.4	16.6	18.6	18.3
10,001 to 25,000	21.1	15.9	22.0	24.1	18.0	10.6	21.6	10.3	19.6	13.5	20.5	18.2
25,001 to 50,000	19.0	10.7	16.2	15.7	10.8	8.0	8.9	10.2	13.6	8.6	9.6	10.9
50,001 to 100,000	20.6	14.0	15.6	15.9	11.3	15.6	5.6	20.7	12.4	11.1	9.6	11.9
100,001 to 200,000	22.6	19.9	17.1	23.5	10.9	11.5	10.0	13.2	17.0	14.1	11.3	17.7
200,001 to 500,000	14.2	22.4	19.6	25.8	19.8	26.3	17.2	19.5	13.0	18.8	16.5	20.3
Over 500,000	22.7	21.1	22.0	29.4	14.3	5.7	13.7	13.9	26.1	20.2	14.6	13.5
Principal Building Activity												
Education	14.7	14.0	14.0	14.8	9.7	8.3	7.9	40.9	12.8	9.9	9.4	19.1
Food Sales	58.7	48.2	20.5	30.7	30.8	42.4	24.4	21.8	16.0	42.8	17.4	14.8
Food Service	59.2	27.1	23.7	23.5	15.2	22.1	32.2	47.9	50.4	15.0	16.6	18.9
Health Care	14.2	15.0	17.5	28.3	14.7	14.2	20.8	12.7	17.9	12.4	15.9	18.2
Inpatient	16.8	19.0	26.0	46.1	15.6	13.8	29.2	15.5	21.0	16.8	21.6	29.2
Outpatient	38.5	29.4	23.8	30.1	21.8	29.9	17.6	13.1	21.4	15.4	13.0	18.1
Lodging	16.3	21.1	21.1	27.6	16.8	19.9	13.9	21.5	14.5	11.5	14.7	14.3
Mercantile	23.6	16.2	16.8	28.6	15.9	12.5	9.2	5.6	14.6	14.8	14.0	28.4
Retail (Other Than Mall)	27.1	21.1	19.6	17.8	17.8	20.4	13.5	13.3	14.0	17.4	11.4	14.8
Enclosed and Strip Malls	35.2	21.5	21.7	42.3	39.3	10.6	10.8	10.5	27.7	20.1	18.6	39.6
Office	18.6	15.9	16.1	17.9	7.4	8.9	8.1	11.1	16.9	12.1	8.0	10.4
Public Assembly	25.9	20.7	23.3	28.6	18.8	11.7	29.7	13.4	23.1	13.2	15.5	14.9
Public Order and Safety	57.7	28.7	27.9	47.8	27.9	19.5	22.9	27.7	72.7	14.7	18.9	32.9
Religious Worship	27.3	22.2	25.3	15.9	17.5	28.4	16.0	53.6	17.6	22.3	18.9	16.1
Service	44.7	22.3	30.8	38.2	16.9	12.3	19.9	25.8	37.0	12.8	22.3	29.4
Warehouse and Storage	24.5	27.3	13.0	30.5	10.7	24.3	13.8	40.8	23.1	24.4	9.0	15.7
Other	52.3	55.1	45.3	56.9	22.8	61.0	14.2	15.5	35.3	47.9	28.2	53.9
Vacant	40.1	46.0	73.2	41.7	45.0	45.0	68.8	49.4	32.5	36.0	78.0	35.1
Year Constructed												
1919 or Before	16.0	27.6	30.0	28.7	9.8	18.6	21.4	26.3	15.7	20.3	20.6	17.1
1920 to 1945	28.0	17.3	21.1	30.7	11.9	9.1	16.0	44.6	27.4	14.0	18.7	20.0
1946 to 1959	23.0	19.7	17.1	22.0	27.3	11.9	14.8	21.3	22.4	16.1	11.2	14.6
1960 to 1969	22.1	16.8	20.5	19.5	10.2	7.8	18.4	12.8	16.0	12.8	15.3	16.6
1970 to 1979	20.4	14.5	10.2	11.1	10.9	11.9	8.8	25.3	24.8	12.9	9.1	9.2
1980 to 1989	29.0	14.1	15.1	16.9	9.6	14.4	13.2	9.7	25.7	13.2	9.6	13.2
1990 to 1999	21.7	23.0	17.1	19.7	19.5	19.7	15.2	12.7	15.9	17.9	13.0	15.0
Floors												
One	17.3	13.5	10.1	12.0	17.5	12.1	10.0	11.2	13.1	12.3	6.8	6.7
Two	18.3	14.0	12.2	18.7	9.0	10.2	16.6	11.5	16.0	9.2	11.5	15.1
Three	23.6	15.2	14.5	15.6	11.8	6.8	14.6	14.8	13.0	11.5	12.3	14.1
Four to Nine	13.3	16.4	22.9	16.9	11.2	11.0	10.7	22.9	11.9	11.3	12.5	12.4
Ten or More	29.4	19.3	19.8	35.2	15.2	13.5	13.3	18.6	23.9	16.9	12.5	13.1
Climate Zone: 45-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	20.3	19.4	0.0	31.8	12.1	7.4	0.0	13.7	14.8	14.6	0.0	26.6
5,500-7,000 HDD	12.1	8.8	0.0	10.0	9.2	9.3	0.0	18.0	12.1	7.8	0.0	14.0
4,000-5,499 HDD	15.5	20.8	20.2	23.6	12.5	8.4	13.2	20.6	10.7	11.4	11.6	20.3
Fewer than 4,000 HDD	0.0	0.0	15.8	11.7	0.0	0.0	5.9	9.5	0.0	0.0	6.7	7.6
2,000 CDD or More and --												
Fewer than 4,000 HDD	0.0	0.0	11.4	27.8	0.0	0.0	8.8	40.5	0.0	0.0	4.6	15.8

RSEs for Table C6. Expenditures by Census Region for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Expenditures				RSEs for Sum of Major Fuel Expenditures							
					per Million Btu				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Workers (main shift)												
Fewer than 5	28.6	19.3	14.2	19.2	24.6	12.1	15.6	20.0	28.4	13.3	8.9	11.9
5 to 9	29.2	15.7	12.6	17.8	12.8	11.8	18.5	24.2	28.3	12.5	8.2	18.9
10 to 19	30.6	18.8	13.0	21.8	15.8	16.3	12.9	23.7	27.2	15.0	10.5	21.1
20 to 49	23.5	19.0	18.1	11.2	12.5	11.0	16.7	10.6	15.6	14.6	13.6	9.5
50 to 99	19.0	12.0	16.2	19.4	10.0	18.6	10.8	13.6	18.5	8.3	8.9	15.7
100 to 249	17.6	20.3	18.6	17.4	8.7	12.2	9.2	11.5	15.7	17.8	11.4	11.4
250 or More	15.1	15.4	15.8	17.5	15.5	13.9	10.4	22.3	11.8	10.3	10.4	10.8
Weekly Operating Hours												
39 or Fewer	29.0	24.5	22.2	27.9	33.5	25.9	14.9	16.4	30.9	19.8	16.0	18.4
40 to 48	26.3	13.0	9.7	13.4	15.1	8.8	5.5	15.0	19.3	11.4	9.7	11.1
49 to 60	21.3	11.9	14.5	14.9	7.6	7.7	14.6	10.0	18.1	9.4	10.2	13.0
61 to 84	19.1	13.6	17.2	12.2	13.9	10.2	16.7	15.2	18.4	11.9	13.8	13.7
85 to 167	22.9	15.5	12.7	18.1	11.4	12.6	17.5	27.1	24.7	12.1	10.8	17.9
Open Continuously	14.3	17.5	13.4	16.7	11.7	10.8	9.7	10.6	14.9	13.7	10.1	10.5
Ownership and Occupancy												
Nongovernment Owned	10.6	9.0	8.0	8.9	8.4	7.1	7.5	8.7	8.4	7.4	4.6	6.6
Owner Occupied	11.7	8.5	8.3	10.1	8.8	7.8	8.2	12.6	11.1	7.2	4.9	9.3
Nonowner Occupied	19.7	17.2	13.8	11.0	13.0	24.7	16.7	9.7	12.7	16.5	10.5	7.9
Unoccupied	59.9	45.6	61.6	85.0	58.2	24.3	85.1	112.7	58.9	38.6	49.2	83.9
Government Owned	21.4	16.3	13.6	16.0	11.5	5.3	10.2	15.8	17.9	10.2	9.0	14.7
Federal	68.7	57.0	25.3	40.3	43.9	10.1	12.1	16.9	60.2	39.2	16.3	15.9
State	27.7	34.3	18.9	29.8	15.1	9.0	14.9	23.4	28.5	15.1	13.6	31.9
Local	18.6	15.7	18.5	15.5	8.0	7.2	14.5	21.6	16.3	8.6	12.3	18.6
Vacancy Status												
Completely Vacant	0.0	51.1	78.6	88.7	0.0	25.6	77.8	659.8	0.0	39.2	78.2	88.6
Mostly Vacant	40.1	75.4	74.0	37.8	45.0	102.8	24.0	38.3	33.4	49.5	116.5	29.8
Partially Vacant	16.7	10.6	11.9	21.6	15.0	8.8	11.7	10.3	17.1	9.5	8.7	21.0
Not At All Vacant	10.1	10.2	7.9	9.0	8.0	6.5	7.4	8.8	8.5	7.6	4.7	7.3
Number of Establishments												
One	10.2	9.0	7.8	10.3	7.8	6.6	8.6	9.4	9.3	6.8	5.5	8.4
2 to 5	18.6	19.9	16.2	18.6	11.0	13.4	12.5	16.6	15.4	16.0	11.6	13.8
6 to 10	31.2	24.8	28.0	39.1	27.1	11.9	22.0	9.8	32.8	23.1	22.9	31.7
11 to 20	27.7	20.9	19.6	35.0	27.1	17.2	13.6	18.0	40.2	10.4	14.0	26.9
More than 20	29.2	26.6	16.6	20.3	17.2	35.0	14.3	11.4	21.9	21.7	14.3	19.4
Currently Unoccupied	65.9	43.1	61.4	64.2	18.1	25.2	84.4	62.4	63.4	38.1	49.2	58.9
Energy Sources (more than one may apply)												
Electricity	12.8	9.3	8.8	9.0	6.7	4.3	5.3	6.7	9.7	6.5	5.1	8.1
Natural Gas	12.7	10.6	11.3	10.2	5.7	4.8	4.8	7.1	11.4	7.4	7.8	6.6
Fuel Oil	13.6	18.7	15.6	20.2	9.2	11.7	8.2	30.5	9.0	13.5	9.6	15.4
District Heat	36.7	31.8	27.2	40.1	19.2	19.3	17.4	46.0	23.7	19.3	12.7	12.9
District Chilled Water	36.2	38.7	33.7	35.1	44.8	26.2	32.1	120.6	44.6	23.7	20.5	24.1
Propane	23.8	35.2	26.0	30.8	9.1	39.0	18.0	20.6	24.1	32.3	11.8	18.6
Other	33.0	37.3	22.2	29.3	21.5	10.9	17.8	23.5	28.3	23.4	15.2	19.5
Space-Heating Energy Sources (more than one may apply)												
Electricity	14.4	10.3	9.1	12.0	11.9	7.7	5.1	6.3	11.2	8.9	6.2	9.9
Natural Gas	13.9	10.1	10.7	9.4	8.4	5.9	9.1	7.7	10.6	7.1	6.7	9.0
Fuel Oil	16.6	25.4	25.7	51.7	5.6	14.2	14.1	39.1	11.2	20.0	14.6	27.7
District Heat	28.9	26.2	30.5	33.5	15.7	24.6	34.5	52.9	20.7	19.8	23.3	24.8
Propane	36.2	28.0	40.5	47.2	11.4	25.4	38.7	22.7	39.1	20.7	20.1	24.4
Other	50.4	59.3	40.5	53.1	6.8	13.8	33.1	18.1	24.1	21.7	21.8	26.9

RSEs for Table C6. Expenditures by Census Region for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Expenditures				RSEs for Sum of Major Fuel Expenditures							
					per Million Btu				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Primary Space-Heating												
Energy Source												
Electricity	23.9	16.3	10.6	16.3	19.3	17.8	7.7	7.6	16.7	16.0	7.9	11.2
Natural Gas	14.8	9.7	11.0	10.3	9.5	5.5	9.5	7.9	11.4	5.9	8.7	6.2
Fuel Oil	18.0	67.2	35.4	77.6	5.3	4.7	10.7	62.1	15.0	15.6	10.9	49.4
District Heat	28.9	28.0	33.3	33.9	15.7	24.5	32.2	55.0	20.4	20.7	19.4	26.1
Propane	46.8	34.4	41.8	58.4	23.4	31.2	41.6	17.6	49.4	25.0	25.2	26.6
Other	45.3	65.1	25.7	62.2	12.8	934.5	14.0	70.9	9.2	27.9	67.9	38.6
Cooling Energy Sources (more than one may apply)												
Electricity	10.4	8.2	7.7	9.2	7.1	5.8	6.0	6.6	8.6	7.0	3.9	6.9
Natural Gas	29.1	32.4	43.6	33.9	22.3	25.7	45.4	8.1	18.0	28.8	32.7	34.1
District Chilled Water	36.2	38.7	33.7	35.1	44.8	26.2	32.1	120.6	44.6	23.7	20.5	24.1
Water-Heating Energy Sources (more than one may apply)												
Electricity	16.6	15.6	8.2	13.7	11.9	16.1	6.0	8.5	16.6	12.2	3.7	12.7
Natural Gas	14.2	9.4	10.6	11.4	10.5	7.5	9.5	8.8	10.9	7.2	7.1	7.5
Fuel Oil	16.5	40.5	42.6	68.4	4.4	37.3	26.2	4.6	16.3	21.3	12.9	4.6
District Heat	31.2	28.0	36.7	40.6	19.6	32.6	40.8	15.4	24.9	21.3	29.1	25.9
Propane	41.5	55.0	41.4	54.5	24.0	14.8	21.7	22.5	53.7	49.6	34.0	37.8
Cooking Energy Sources (more than one may apply)												
Electricity	20.6	13.8	10.2	13.0	12.3	6.5	8.3	11.3	21.0	12.1	7.8	9.6
Natural Gas	16.4	10.5	9.8	13.9	11.7	8.7	10.1	12.4	13.8	7.6	7.5	8.2
Propane	37.2	66.0	41.0	32.2	7.3	14.5	18.9	27.2	35.2	37.7	16.3	38.0
Energy End Uses (more than one may apply)												
Buildings with Space Heating	9.4	8.1	7.9	6.9	7.1	5.4	6.1	7.9	7.4	6.3	4.3	6.5
Buildings with Cooling	9.9	8.2	7.8	8.5	7.6	5.5	5.8	7.7	8.2	7.0	3.9	6.7
Buildings with Water Heating	8.9	8.5	8.2	8.0	7.4	6.1	6.7	7.0	8.0	6.8	4.1	6.8
Buildings with Cooking	11.9	11.1	8.6	9.8	9.3	6.5	7.4	10.8	12.8	8.5	5.9	7.1
Buildings with Manufacturing	51.7	34.4	16.7	35.0	27.1	21.6	24.6	32.0	44.9	22.6	12.6	16.8
Buildings with Electricity Generation	15.8	16.6	11.9	17.2	10.7	11.8	9.5	24.0	15.4	16.6	8.5	12.2
Percent of Floorspace Heated												
Not Heated	48.2	45.3	30.1	28.2	88.2	95.1	44.2	35.8	56.0	43.2	25.4	25.2
1 to 50	22.4	27.1	14.7	28.3	13.5	10.1	11.2	17.0	21.6	16.5	15.1	18.4
51 to 99	21.5	21.5	16.3	14.2	20.1	10.1	16.3	8.3	12.3	18.0	12.1	12.3
100	12.7	9.3	10.3	8.6	7.1	5.8	4.9	10.7	9.9	6.7	5.6	8.7
Percent of Floorspace Cooled												
Not Cooled	20.9	25.5	58.3	21.1	15.9	13.4	44.3	19.7	19.2	19.5	57.6	12.6
1 to 50	20.3	16.6	19.5	24.2	9.0	12.9	18.6	15.9	11.1	12.8	13.5	20.5
51 to 99	18.1	9.5	11.7	13.4	9.5	6.6	9.1	9.1	13.7	9.3	7.7	7.8
100	12.4	12.9	9.7	10.4	13.4	11.9	6.2	12.5	16.4	10.1	4.4	8.7
Percent Lit When Open												
Zero	100.1	65.5	69.2	84.7	X	23.8	7.2	4.0	106.5	38.4	50.0	19.7
1 to 50	41.5	18.7	17.3	29.8	35.0	13.5	18.1	15.2	32.3	16.4	16.9	21.1
51 to 99	13.1	11.5	13.6	14.5	9.1	5.8	11.3	20.0	12.8	9.0	9.9	10.1
100	15.1	10.5	8.2	10.1	8.0	9.1	9.0	9.5	11.5	7.4	4.4	8.2
Building Never Open/ Electricity Not Used.....	55.5	37.0	46.7	58.0	19.8	20.3	39.9	56.4	37.4	32.3	34.0	53.5

RSEs for Table C6. Expenditures by Census Region for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Expenditures				RSEs for Sum of Major Fuel Expenditures							
					per Million Btu				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Percent Lit When Closed												
Zero	23.4	12.3	10.7	18.5	9.6	8.2	8.8	20.4	11.9	7.1	9.5	14.6
1 to 50	13.9	8.9	10.2	13.0	8.9	6.5	9.0	7.7	13.9	7.7	6.2	9.4
51 to 100	45.5	26.3	26.3	37.7	42.2	35.6	32.7	28.6	34.2	25.4	23.6	26.1
Building Never Closed/ Electricity Not Used.....	14.3	17.5	13.4	16.7	11.7	10.8	9.7	10.6	14.9	13.7	10.1	10.5
Heating Equipment (more than one may apply)												
Heat Pumps	19.0	26.9	13.4	27.4	22.6	21.7	15.4	15.9	19.7	22.0	12.4	22.0
Furnaces	23.1	15.2	18.4	17.4	10.6	17.1	16.4	8.3	14.4	10.7	13.0	12.6
Individual Space Heaters	16.5	12.8	10.4	12.0	10.4	9.7	7.5	22.0	10.1	9.9	6.7	14.2
District Heat	28.9	26.2	30.5	33.5	15.7	24.6	34.5	52.9	20.7	19.8	23.3	24.8
Boilers	12.2	10.8	13.2	16.4	7.0	7.1	6.9	8.8	12.6	6.7	8.0	11.5
Packaged Heating Units	11.1	12.1	9.8	10.1	12.6	9.1	7.0	8.6	9.1	11.3	4.8	5.2
Other	29.6	33.9	15.5	31.1	27.7	45.8	17.7	11.1	20.6	25.4	17.7	21.2
Cooling Equipment (more than one may apply)												
Residential-Type Central												
Air Conditioners	15.3	10.3	19.6	26.3	18.6	16.6	11.9	22.2	11.5	11.5	12.8	15.6
Heat Pumps	16.8	24.8	13.0	26.2	22.4	20.3	15.2	16.6	19.4	20.0	12.4	20.8
Individual Air Conditioners	15.8	14.1	15.1	12.8	9.2	11.7	9.3	16.4	10.3	10.0	7.6	13.7
District Chilled Water	36.2	38.7	33.7	35.1	44.8	26.2	32.1	120.6	44.6	23.7	20.5	24.1
Central Chillers	16.7	16.0	16.5	17.6	14.3	9.3	7.0	8.2	15.6	12.4	7.7	12.8
Packaged Air Conditioning												
Units	12.1	9.3	9.0	8.2	8.3	7.2	6.0	11.1	8.8	8.0	5.0	7.9
Swamp Coolers	53.3	45.4	39.7	23.0	12.5	36.3	37.5	15.2	127.7	32.3	44.0	12.4
Other	47.8	38.3	22.6	45.7	59.7	25.0	31.7	18.8	55.6	23.4	19.7	20.6
Main Equipment Replaced Since 1995 (more than one may apply)												
Heating	19.5	20.9	15.0	20.0	15.8	9.4	13.8	19.6	15.2	14.1	9.7	13.9
Cooling	16.9	17.2	12.0	16.4	11.2	11.2	12.7	13.8	12.1	13.0	8.5	12.3
Lighting Equipment Types (more than one may apply)												
Incandescent	11.9	8.3	10.0	11.1	6.8	7.5	4.8	11.8	13.0	4.9	6.7	9.4
Standard Fluorescent	9.6	8.1	7.5	7.8	7.3	5.4	6.5	8.0	8.0	6.5	3.9	7.2
Compact Fluorescent	14.0	10.0	14.2	12.4	9.5	7.8	6.2	15.5	10.7	7.4	5.9	9.6
High Intensity Discharge	13.6	10.9	12.5	13.2	8.5	8.5	10.2	14.1	9.6	8.9	8.2	11.5
Halogen	16.3	9.8	12.0	10.6	11.8	9.2	12.9	18.1	12.8	8.0	9.3	10.4
Other	51.9	48.1	51.6	33.0	17.1	60.9	20.6	15.1	33.3	45.2	51.1	26.0
Water Heating Equipment												
Centralized System	10.5	8.0	10.0	12.3	6.9	7.8	8.6	9.2	7.5	7.4	6.4	8.1
Distributed System	16.9	21.4	15.9	16.4	10.8	25.6	8.0	6.8	16.9	15.4	9.6	14.5
Combination of Centralized and Distributed System	20.5	14.7	14.2	17.5	14.9	8.3	12.5	13.9	16.1	15.3	10.0	13.8
Commercial Refrigeration Equipment (more than one may apply)												
Any Equipment	9.7	9.8	8.5	9.3	9.7	6.6	8.0	8.7	10.5	7.1	5.8	6.8
Walk-In Units	11.0	10.7	10.0	12.0	9.6	8.2	9.2	9.8	10.9	8.1	6.4	8.6
Cases or Cabinets	11.4	10.3	8.9	9.9	10.6	6.7	8.2	9.6	11.9	8.0	6.6	6.6
None	13.4	11.1	10.0	10.4	7.5	9.6	9.5	11.3	10.9	8.0	6.7	9.0

RSEs for Table C6. Expenditures by Census Region for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Expenditures				RSEs for Sum of Major Fuel Expenditures							
					per Million Btu				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Personal Computers												
None	24.9	20.8	15.7	25.2	18.7	15.8	16.6	34.4	23.2	17.1	14.2	19.6
1 to 4	13.8	16.3	11.4	25.6	18.8	10.7	13.2	16.1	13.9	11.3	9.1	18.1
5 to 9	34.9	17.1	19.7	9.6	12.2	14.4	15.9	17.7	32.1	16.5	17.3	11.8
10 to 19	29.8	23.1	19.7	21.4	8.0	17.3	31.3	7.8	17.2	21.5	16.0	11.8
20 to 49	25.1	22.3	20.1	13.8	16.4	23.0	7.7	14.8	22.0	13.6	12.3	10.6
50 to 99	20.5	28.7	17.5	12.6	11.2	36.2	13.1	9.5	16.5	22.4	13.0	12.2
100 to 249	16.6	22.3	22.2	22.3	9.4	12.8	6.0	10.3	20.8	17.4	13.5	12.8
250 or More	17.3	12.8	17.6	17.0	15.0	5.6	10.8	23.5	13.0	8.1	10.6	14.2
Photocopiers												
None	23.3	12.7	12.2	15.6	12.9	11.9	16.7	13.8	22.5	10.7	9.0	9.1
One	27.4	14.3	13.5	14.4	20.7	10.1	7.4	10.8	22.9	12.7	8.9	12.4
2 to 4	16.3	14.0	16.1	14.1	6.9	11.9	13.5	21.4	11.1	9.8	9.4	8.2
5 to 9	12.5	28.8	16.6	23.2	11.0	23.8	17.8	8.1	15.4	24.6	14.5	24.2
10 or More	15.9	11.7	14.6	17.3	12.2	5.5	8.7	9.8	12.9	8.0	7.9	10.3
Other Electronic Equipment (more than one may apply)												
Laser Printers	10.5	7.9	9.4	9.7	8.4	6.1	6.5	6.9	8.4	7.0	5.4	7.8
FAX Machines	9.1	8.3	8.4	8.7	7.7	5.9	6.4	8.5	8.1	6.8	4.5	7.2
Medical Diagnostic Equipment	15.5	15.6	20.1	29.1	14.9	13.4	22.9	13.1	14.6	8.3	16.0	18.5
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	12.5	10.8	8.7	9.8	8.9	6.6	7.5	11.0	12.8	8.7	5.9	7.2
Activities with Large Amounts of Hot Water	13.4	10.4	10.5	12.3	8.8	7.4	10.3	11.1	14.8	8.1	8.9	7.9
Building Shell Conservation Features (more than one may apply)												
Multipaned Windows	11.2	8.6	10.3	7.6	7.5	5.9	8.7	11.6	10.5	6.6	6.0	10.1
Tinted, Reflective, or Shading Glass	13.1	12.7	8.5	9.9	9.6	7.2	4.8	12.1	10.9	9.6	4.7	10.0
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	15.0	12.2	12.6	14.3	13.4	7.4	8.0	12.5	15.7	9.8	6.1	10.3
Economizer Cycle	12.2	10.0	14.8	12.1	6.6	7.9	8.2	11.7	11.2	9.0	6.4	7.8
HVAC Maintenance	9.5	8.7	8.3	8.4	7.3	5.0	6.3	8.8	7.8	6.7	4.4	6.1
Energy Management and Control System (EMCS)	15.3	11.1	10.8	14.5	9.4	7.8	7.4	12.9	16.3	9.4	5.5	12.4
Lighting Conservation Features (more than one may apply)												
Specular Reflectors	15.2	15.8	8.7	12.9	10.9	5.1	7.2	7.9	15.9	12.6	6.2	11.7
Electronic Ballasts	13.0	9.7	8.9	9.2	8.2	6.2	5.4	7.4	10.7	7.3	4.1	7.1
Skylights or Atriums	11.9	12.6	13.8	14.1	10.9	7.2	13.9	8.6	12.1	9.6	8.4	11.6

RSEs for Table C7. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
All Buildings	12.3	7.9	7.7	5.0	5.9	4.6	11.9	6.6	7.4
Principal Building Activity									
Education	24.6	16.5	12.6	23.4	7.4	11.4	24.8	13.6	12.8
Food Sales	38.1	23.9	85.0	21.2	24.8	54.6	37.9	18.0	90.4
Food Service	26.1	37.0	84.9	12.6	28.5	70.0	22.9	38.5	82.8
Health Care	28.0	23.5	14.5	24.0	17.7	10.4	22.9	16.5	12.9
Inpatient	0.0	48.0	15.3	0.0	30.1	11.0	0.0	39.1	13.4
Outpatient	28.0	28.2	43.4	24.0	20.0	28.7	22.9	15.9	22.8
Lodging	51.0	13.6	26.2	18.2	14.4	18.5	47.8	12.7	24.4
Mercantile	23.2	17.1	18.4	12.3	13.7	11.7	18.9	12.1	18.3
Retail (Other Than Mall)	23.6	18.8	31.2	14.4	16.2	14.7	17.9	12.7	22.7
Enclosed and Strip Malls	64.9	24.9	20.7	34.9	18.7	13.0	60.7	22.2	21.8
Office	20.4	21.4	14.4	10.8	12.6	8.8	17.1	12.8	9.6
Public Assembly	35.1	15.4	30.0	20.1	13.8	18.2	24.5	11.2	30.2
Public Order and Safety	38.9	33.6	51.2	43.8	25.5	33.9	62.6	35.9	55.9
Religious Worship	27.8	22.5	32.2	18.5	15.4	45.3	18.8	23.7	65.2
Service	36.6	54.3	50.8	15.3	21.3	48.7	32.9	45.3	8.7
Warehouse and Storage	22.4	17.1	40.1	16.1	13.3	13.4	20.9	13.6	37.3
Other	57.7	37.1	38.0	26.8	16.9	27.9	54.5	35.3	25.3
Vacant	49.0	40.0	84.9	17.6	24.0	29.5	48.3	47.3	88.4
Year Constructed									
1919 or Before	20.0	14.2	55.9	12.8	13.0	23.8	19.2	16.2	40.3
1920 to 1945	23.4	24.0	26.3	15.3	15.7	20.0	17.9	19.0	17.6
1946 to 1959	18.3	13.7	24.5	9.5	10.3	14.4	16.1	12.4	17.6
1960 to 1969	31.5	16.7	15.7	9.6	10.4	8.8	28.2	12.9	14.7
1970 to 1979	17.2	13.0	12.3	11.7	6.9	12.0	15.3	11.6	12.3
1980 to 1989	23.9	20.1	19.3	9.1	9.3	9.1	22.7	19.8	15.5
1990 to 1999	34.1	13.7	25.3	15.1	7.6	7.7	33.2	13.7	23.4
Floors									
One	16.6	9.4	31.0	5.6	7.5	7.5	16.4	7.0	31.0
Two	17.1	16.6	18.4	10.1	7.9	10.7	15.8	16.0	15.2
Three	26.8	12.6	18.8	15.7	8.9	11.0	20.1	10.9	17.2
Four to Nine	26.1	20.5	12.5	26.6	10.4	8.0	27.8	16.1	9.2
Ten or More	0.0	59.2	11.1	0.0	28.5	10.8	0.0	38.8	10.1
Census Region and Division									
Northeast	28.5	14.5	11.7	11.9	13.6	11.7	22.4	9.5	15.7
New England	32.5	19.0	25.8	21.3	12.7	27.7	27.2	14.9	45.6
Middle Atlantic	33.1	20.4	13.0	14.4	18.5	10.9	26.0	11.2	17.2
Midwest	20.6	10.6	15.2	12.5	7.8	6.3	15.8	7.6	13.8
East North Central	27.0	11.9	20.8	15.5	8.6	7.7	21.0	7.3	20.7
West North Central	19.7	17.7	22.8	21.0	14.4	12.4	21.3	14.3	12.9
South	23.9	15.1	14.2	5.2	9.0	9.9	23.6	14.2	8.4
South Atlantic	37.8	19.3	20.9	9.1	15.1	10.2	35.7	10.8	13.7
East South Central	37.6	38.7	9.6	14.4	14.2	13.6	43.2	45.3	14.5
West South Central	29.8	12.8	26.8	7.5	12.5	25.2	34.6	15.7	5.4
West	20.0	14.2	21.9	11.0	7.5	8.2	18.5	12.8	17.6
Mountain	32.2	17.4	43.2	17.2	16.0	17.7	34.9	20.4	23.7
Pacific	24.4	19.3	26.7	16.4	8.1	12.5	22.7	16.9	19.4
Climate Zone: 45-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	23.1	14.2	26.1	22.3	9.0	13.3	24.6	12.6	19.8
5,500-7,000 HDD	22.3	11.5	15.9	8.0	11.8	6.4	19.9	8.0	17.0
4,000-5,499 HDD	25.7	24.1	12.7	17.4	11.5	8.8	23.8	20.8	11.8
Fewer than 4,000 HDD	24.8	16.5	22.5	13.6	11.2	15.6	22.4	12.5	11.8
2,000 CDD or More and --									
Fewer than 4,000 HDD	26.0	19.4	20.0	10.4	14.2	9.8	26.2	15.4	15.9

RSEs for Table C7. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
Workers (main shift)									
Fewer than 5	12.7	14.2	58.2	7.4	11.1	23.2	11.5	15.1	53.8
5 to 9	16.6	16.7	64.8	8.8	12.3	28.5	15.0	17.0	52.4
10 to 19	19.8	15.1	44.8	11.1	9.2	20.4	19.6	11.0	48.7
20 to 49	34.6	16.2	27.1	18.4	6.6	13.7	28.2	16.5	18.5
50 to 99	54.9	13.4	21.9	51.9	9.9	14.2	56.5	10.5	21.7
100 to 249	60.0	17.4	17.1	63.7	13.1	8.2	23.9	9.7	15.4
250 or More	0.0	36.8	11.3	0.0	18.8	6.7	0.0	30.7	9.3
Weekly Operating Hours									
39 or Fewer	23.0	23.5	47.3	11.4	16.3	21.3	19.8	26.3	43.4
40 to 48	15.7	10.9	21.8	8.5	8.6	17.1	13.4	9.2	17.6
49 to 60	14.8	18.9	19.8	10.1	8.3	12.9	15.3	18.1	15.2
61 to 84	31.6	10.0	13.4	14.3	8.9	9.2	27.1	9.2	15.3
85 to 167	25.0	13.8	21.9	11.0	8.7	9.9	22.4	13.1	16.7
Open Continuously	31.5	15.2	14.8	15.0	10.0	7.2	29.9	12.3	13.0
Ownership and Occupancy									
Nongovernment Owned	13.2	9.2	10.0	5.5	7.0	5.4	12.7	8.0	9.1
Owner Occupied	15.3	12.0	9.7	7.0	7.5	7.0	14.2	11.2	9.1
Nonowner Occupied	29.5	10.0	30.1	8.6	9.7	9.4	28.3	7.4	28.4
Unoccupied	73.1	48.1	84.9	18.5	26.8	35.0	72.9	50.7	88.6
Government Owned	16.7	8.6	15.6	13.2	6.2	7.8	17.0	8.2	11.9
Federal	56.3	30.6	28.6	36.7	23.2	24.3	71.6	28.5	11.3
State	40.3	11.1	26.3	38.4	12.3	16.2	43.5	11.3	18.3
Local	25.0	11.1	18.3	16.5	9.2	11.7	17.2	9.6	15.4
Vacancy Status									
Completely Vacant	75.6	53.6	79.7	22.0	20.4	50.5	73.5	51.5	76.7
Mostly Vacant	59.8	40.5	99.3	27.8	36.4	34.3	66.8	59.6	105.2
Partially Vacant	21.9	11.9	14.2	10.7	8.8	10.7	18.4	8.7	10.5
Not At All Vacant	12.8	8.6	10.2	5.4	5.8	4.1	12.5	7.8	9.0
Number of Establishments									
One	13.5	8.8	9.9	6.0	6.1	4.8	13.3	8.6	9.8
2 to 5	18.7	12.0	22.4	12.7	9.8	12.1	17.7	12.2	20.6
6 to 10	32.3	24.5	36.5	34.9	13.6	18.8	40.9	16.6	21.4
11 to 20	96.3	24.2	17.9	56.1	16.4	14.5	114.5	19.9	19.5
More than 20	99.1	33.2	13.2	89.7	23.5	10.8	9.3	28.2	12.7
Currently Unoccupied	57.0	44.1	84.9	17.8	25.1	29.4	55.5	46.6	88.5
Energy Sources (more than one may apply)									
Electricity	12.4	7.9	7.7	7.5	5.9	5.9	9.8	5.8	7.9
Natural Gas	14.7	8.7	9.3	9.6	6.3	6.3	12.4	7.3	8.2
Fuel Oil	38.3	20.2	13.5	27.3	13.1	7.1	24.0	15.1	12.3
District Heat	65.9	31.0	20.7	65.2	19.2	18.1	52.9	23.3	10.9
District Chilled Water	100.1	41.4	28.0	59.4	14.1	15.6	109.5	38.9	22.1
Propane	34.9	18.2	42.0	19.2	18.8	13.4	29.1	16.0	40.3
Other	40.6	19.4	34.5	25.4	17.4	22.1	40.8	13.9	27.4
Space-Heating Energy Sources (more than one may apply)									
Electricity	17.9	9.0	10.9	5.8	6.4	5.5	17.3	5.6	9.8
Natural Gas	12.9	9.7	10.5	8.4	5.9	6.0	13.2	8.8	8.7
Fuel Oil	38.9	17.8	15.4	21.9	15.8	12.8	25.2	11.2	17.2
District Heat	65.9	32.2	20.7	42.6	12.4	12.1	57.1	29.9	15.9
Propane	47.0	26.4	40.5	20.0	27.5	27.5	46.1	24.1	49.4
Other	62.9	30.7	73.5	33.6	29.8	50.4	61.0	15.9	22.8

RSEs for Table C7. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
Primary Space-Heating									
Energy Source									
Electricity	26.9	10.3	12.7	8.8	8.0	7.3	26.6	6.3	12.7
Natural Gas	13.1	10.8	10.6	8.9	6.4	6.1	13.4	9.5	9.6
Fuel Oil	36.1	20.6	15.9	21.8	17.3	21.0	25.3	14.8	27.1
District Heat	74.8	32.3	21.1	47.6	12.8	12.7	63.3	29.7	16.0
Propane	50.3	33.5	100.0	21.0	32.0	59.9	50.2	29.7	113.5
Other	71.8	42.8	44.3	37.8	44.6	46.1	71.2	19.9	7.4
Cooling Energy Sources (more than one may apply)									
Electricity	12.5	8.6	7.8	5.7	6.2	5.5	11.9	6.7	7.6
Natural Gas	44.5	23.1	32.4	29.8	17.3	19.4	42.4	17.5	31.5
District Chilled Water	100.1	41.4	28.0	59.4	14.1	15.6	109.5	38.9	22.1
Water-Heating Energy Sources (more than one may apply)									
Electricity	14.6	10.6	16.7	7.4	7.8	8.4	13.8	7.7	16.2
Natural Gas	19.3	10.7	10.4	9.4	6.8	6.7	18.3	9.7	8.4
Fuel Oil	53.8	21.2	18.5	25.3	22.3	17.1	47.1	15.8	20.0
District Heat	100.0	30.7	21.6	48.8	16.2	13.7	106.4	26.8	17.4
Propane	50.6	40.0	43.0	32.4	35.1	43.3	46.2	39.5	47.5
Cooking Energy Sources (more than one may apply)									
Electricity	24.9	13.2	10.7	14.3	10.3	7.2	20.4	7.8	8.1
Natural Gas	27.4	10.5	10.8	15.8	9.2	8.2	26.5	7.3	8.0
Propane	48.0	34.0	27.0	27.4	26.5	26.4	39.0	14.6	23.4
Energy End Uses (more than one may apply)									
Buildings with Space Heating	12.0	8.1	7.7	5.6	5.8	4.6	12.2	6.7	7.5
Buildings with Cooling	12.6	8.3	7.7	5.7	6.1	5.2	12.0	6.7	7.5
Buildings with Water Heating	13.4	8.3	7.8	6.3	5.8	4.9	12.6	7.0	7.7
Buildings with Cooking	20.7	10.0	9.0	11.0	8.1	6.7	19.5	5.9	7.3
Buildings with Manufacturing	38.2	19.3	38.6	27.4	15.3	21.3	31.5	16.5	26.9
Buildings with Electricity Generation	63.6	19.0	14.0	35.9	11.1	9.2	74.4	15.0	13.5
Percent of Floorspace Heated									
Not Heated	53.8	28.5	40.6	12.1	17.6	23.5	52.4	31.7	37.9
1 to 50	22.2	20.2	37.1	14.9	12.2	12.2	20.3	16.4	34.0
51 to 99	27.9	27.1	17.4	11.5	11.1	11.1	26.3	26.3	13.6
100	13.4	7.9	9.4	5.8	6.2	4.9	14.4	5.7	8.5
Percent of Floorspace Cooled									
Not Cooled	42.5	14.7	50.6	10.9	12.2	25.6	41.3	18.2	46.3
1 to 50	22.9	18.7	29.6	12.8	9.1	9.5	18.7	17.8	27.8
51 to 99	20.2	13.9	10.2	11.5	9.7	6.2	19.0	11.0	7.4
100	16.9	10.1	12.8	6.2	7.1	10.7	17.5	6.7	14.2
Percent Lit When Open									
Zero	87.7	85.6	100.1	49.8	33.4	100.1	41.5	69.0	0.0
1 to 50	25.0	16.6	28.5	11.2	11.5	17.4	25.2	16.1	33.9
51 to 99	20.1	11.7	11.4	8.9	7.9	6.0	18.7	10.5	9.3
100	16.5	10.8	12.6	8.6	6.3	5.9	15.3	9.6	12.8
Building Never Open/ Electricity Not Used.....	42.5	42.9	70.5	13.4	26.2	24.6	40.6	49.1	75.0

RSEs for Table C7. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
Percent Lit When Closed									
Zero	16.3	13.0	23.8	6.7	9.1	11.5	15.7	9.6	19.5
1 to 50	17.7	11.3	10.5	7.4	6.6	8.4	14.5	10.3	9.9
51 to 100	66.1	26.0	23.0	24.8	12.9	16.1	69.1	20.9	16.6
Building Never Closed/ Electricity Not Used.....	31.5	15.2	14.8	15.0	10.0	7.2	29.9	12.3	13.0
Heating Equipment (more than one may apply)									
Heat Pumps	47.4	30.6	22.6	15.2	8.9	8.7	46.7	29.5	20.5
Furnaces	17.0	23.1	31.4	10.4	8.5	7.6	13.6	22.1	29.5
Individual Space Heaters	21.6	13.2	11.8	9.8	8.4	7.0	23.5	10.7	11.3
District Heat	65.9	32.2	20.7	42.6	12.4	12.1	57.1	29.9	15.9
Boilers	21.3	11.7	9.8	14.6	8.2	7.9	17.6	9.1	9.3
Packaged Heating Units	16.6	8.5	15.0	10.4	6.6	5.3	20.1	5.8	14.9
Other	31.0	14.3	38.3	23.4	11.8	13.2	30.6	11.7	34.8
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	26.9	13.6	19.8	15.4	11.0	12.8	20.7	12.6	20.4
Heat Pumps	50.6	29.8	20.7	14.6	8.7	9.3	48.9	28.9	19.3
Individual Air Conditioners	18.8	12.3	15.0	12.4	9.9	8.4	14.6	9.9	13.7
District Chilled Water	100.1	41.4	28.0	59.4	14.1	15.6	109.5	38.9	22.1
Central Chillers	63.6	19.7	11.4	49.8	12.7	7.7	39.1	13.0	9.2
Packaged Air Conditioning Units	14.7	7.6	10.9	7.3	5.8	4.8	15.5	5.3	9.7
Swamp Coolers	65.6	29.2	39.1	24.9	23.8	21.1	67.6	21.2	38.0
Other	54.1	26.1	42.4	48.5	14.2	24.5	27.3	25.1	33.0
Main Equipment Replaced Since 1995 (more than one may apply)									
Heating	22.6	12.6	25.2	9.9	9.1	11.6	24.0	9.5	22.4
Cooling	21.1	9.8	16.2	7.8	7.8	8.6	20.8	9.1	13.5
Lighting Equipment Types (more than one may apply)									
Incandescent	13.5	9.4	8.5	6.9	6.8	7.1	14.6	8.2	7.9
Standard Fluorescent	12.4	7.9	7.5	5.5	5.9	4.8	11.8	6.6	7.4
Compact Fluorescent	25.9	12.9	9.5	12.5	8.7	6.5	24.7	9.0	6.9
High Intensity Discharge	33.4	17.4	9.5	20.1	9.0	6.1	26.2	15.7	9.6
Halogen	31.8	18.6	9.6	16.3	6.7	6.5	29.3	17.5	8.1
Other	70.5	20.2	41.8	42.4	23.0	25.2	54.7	21.0	32.2
Water Heating Equipment									
Centralized System	14.6	10.6	9.9	7.5	6.3	6.0	13.7	9.4	7.5
Distributed System	22.8	12.6	30.4	12.7	10.2	9.8	22.9	7.1	29.4
Combination of Centralized and Distributed System	45.2	12.3	11.1	26.2	7.7	7.7	37.2	11.5	10.8
Commercial Refrigeration Equipment (more than one may apply)									
Any Equipment	21.5	8.6	8.5	8.5	7.0	6.4	21.0	6.7	8.0
Walk-In Units	23.4	9.8	9.2	10.5	8.6	7.0	21.8	6.8	8.3
Cases or Cabinets	21.7	8.8	9.4	8.8	7.3	6.5	22.0	7.6	7.8
None	14.0	11.3	19.7	5.3	6.9	7.2	13.2	9.9	18.8

RSEs for Table C7. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
Personal Computers									
None	16.4	25.1	49.0	8.3	13.7	27.1	14.6	25.7	56.5
1 to 4	16.6	13.0	37.8	9.3	8.7	16.1	14.4	11.4	39.5
5 to 9	33.0	26.8	33.2	12.3	10.1	20.5	30.3	28.5	24.6
10 to 19	43.5	13.4	25.6	17.2	10.0	15.9	40.6	9.3	19.8
20 to 49	35.1	14.3	30.4	28.5	9.5	9.1	18.5	10.3	25.8
50 to 99	80.8	11.4	38.8	50.3	9.6	11.0	89.9	9.7	36.2
100 to 249	72.9	19.4	16.1	78.2	11.6	9.3	38.3	11.6	16.9
250 or More	0.0	40.7	8.9	0.0	19.6	6.6	0.0	34.1	6.1
Photocopiers									
None	16.0	14.2	26.3	5.9	8.1	13.2	16.6	11.3	24.0
One	15.0	11.4	19.8	9.4	7.4	14.7	13.4	10.2	18.6
2 to 4	20.0	15.4	18.3	15.3	8.4	8.3	14.9	14.1	17.6
5 to 9	71.1	16.8	31.0	55.4	10.0	8.7	53.4	12.7	29.6
10 or More	0.0	21.8	8.9	0.0	13.8	6.6	0.0	13.4	6.3
Other Electronic Equipment (more than one may apply)									
Laser Printers	20.3	9.4	7.8	7.2	6.8	5.1	17.8	7.7	7.7
FAX Machines	16.1	8.4	7.7	6.9	6.4	4.6	14.4	6.9	7.6
Medical Diagnostic Equipment	34.2	23.4	14.7	27.7	17.6	10.2	25.6	14.1	12.2
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	22.3	9.9	9.0	10.0	8.1	6.9	19.9	5.7	7.2
Activities with Large Amounts of Hot Water	24.0	14.3	8.6	10.1	6.8	5.6	22.0	13.9	9.4
Building Shell Conservation Features (more than one may apply)									
Multipaned Windows	17.3	11.8	8.7	7.2	7.1	5.8	16.7	10.2	7.7
Tinted, Reflective, or Shading Glass	20.2	11.9	10.2	9.4	6.9	6.8	21.1	8.9	8.2
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	29.7	12.7	9.6	17.7	7.3	6.9	22.2	9.5	7.6
Economizer Cycle	25.1	13.2	9.5	16.5	7.9	6.3	21.2	9.0	9.3
HVAC Maintenance	15.3	8.3	7.8	6.9	6.1	4.7	14.2	6.8	7.6
Energy Management and Control System (EMCS)	37.8	11.4	9.2	23.6	6.7	7.0	35.2	9.2	9.6
Lighting Conservation Features (more than one may apply)									
Specular Reflectors	22.9	11.5	10.2	11.9	7.4	8.1	20.8	7.8	10.4
Electronic Ballasts	13.3	9.1	9.1	7.0	6.3	5.4	12.8	6.2	7.9
Skylights or Atriums	32.8	20.1	10.7	14.6	8.0	7.6	29.9	19.8	9.3

RSEs for Table C8. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
All Buildings	9.2	7.4	14.8	5.7	4.2	6.3	7.6	6.3	13.5
Building Floorspace (Square Feet)									
1,001 to 5,000	16.9	20.5	44.0	9.4	7.4	18.9	13.2	19.8	46.7
5,001 to 10,000	20.0	27.2	31.3	11.0	9.7	24.0	17.4	25.6	27.0
10,001 to 25,000	20.8	25.4	15.6	13.3	8.5	17.9	19.9	24.8	22.9
25,001 to 50,000	19.2	12.6	15.6	11.1	8.8	10.2	18.6	8.8	13.9
50,001 to 100,000	16.5	15.1	21.7	13.2	11.9	11.4	10.5	10.1	20.8
100,001 to 200,000	24.1	18.0	20.7	14.6	8.8	11.3	21.8	13.3	18.1
200,001 to 500,000	23.5	13.5	52.5	19.6	7.8	12.8	15.1	12.9	49.0
Over 500,000	28.6	17.9	27.0	20.2	15.6	16.7	22.8	11.9	20.7
Principal Building Activity									
Education	18.2	14.2	20.6	11.9	11.3	13.5	10.8	14.4	12.5
Food Sales	40.3	36.2	32.4	46.0	22.7	18.8	49.5	35.7	23.2
Food Service	30.8	29.9	49.4	23.6	14.5	41.9	22.1	25.7	65.1
Health Care	31.8	15.3	27.9	21.7	9.0	17.8	31.0	12.3	19.0
Inpatient	35.7	17.3	48.7	25.5	11.9	26.7	35.3	13.6	44.4
Outpatient	48.5	26.0	33.8	29.1	12.7	21.6	36.2	21.7	20.8
Lodging	35.3	16.1	20.6	19.9	13.2	17.7	34.1	12.3	23.0
Mercantile	20.5	16.3	17.7	14.8	10.9	12.6	17.0	13.3	12.9
Retail (Other Than Mall)	24.5	17.5	23.4	15.9	13.8	16.0	21.1	10.5	17.4
Enclosed and Strip Malls	33.6	22.7	28.9	25.6	12.4	20.0	28.8	20.4	18.5
Office	19.8	13.0	17.7	12.5	7.6	15.0	17.7	8.8	11.0
Public Assembly	25.6	18.8	34.2	17.3	13.8	20.2	19.1	17.9	26.8
Public Order and Safety	34.6	30.9	31.1	33.7	30.6	28.6	32.1	46.4	41.4
Religious Worship	21.7	22.0	41.5	15.8	15.7	38.5	21.6	21.1	35.3
Service	25.4	34.8	40.2	18.9	13.7	28.2	21.3	30.1	40.5
Warehouse and Storage	24.9	24.6	53.4	15.0	12.2	13.5	22.1	23.4	51.8
Other	55.6	27.6	51.0	30.2	14.2	38.7	48.2	23.1	45.4
Vacant	40.2	45.2	X	18.1	18.6	42.3	38.8	44.4	X
Floors									
One	13.4	11.4	23.7	9.1	5.5	9.8	12.6	10.0	22.7
Two	14.4	17.4	24.0	10.1	6.8	11.2	13.1	17.3	19.6
Three	16.5	14.7	18.3	9.1	11.9	13.2	12.9	12.9	14.1
Four to Nine	17.2	13.3	26.9	8.7	7.8	15.2	14.6	11.9	21.7
Ten or More	31.2	11.7	22.6	20.6	11.5	22.8	24.6	11.7	23.1
Census Region and Division									
Northeast	16.1	15.6	20.6	11.4	13.0	14.6	15.0	14.6	17.2
New England	30.2	20.7	34.5	16.3	21.0	30.7	33.5	29.5	26.0
Middle Atlantic	19.1	21.4	24.8	14.5	15.2	14.9	15.1	19.2	21.4
Midwest	17.3	12.8	33.3	9.4	6.2	14.0	11.8	12.3	30.1
East North Central	19.7	14.8	40.4	11.6	7.6	14.7	12.9	14.9	36.0
West North Central	27.3	23.3	36.0	11.7	10.1	22.5	22.4	21.2	29.2
South	12.3	14.4	22.6	10.8	5.8	11.9	7.2	12.1	21.2
South Atlantic	12.6	20.7	31.5	15.1	8.8	18.5	12.5	15.9	30.7
East South Central	21.0	40.1	37.9	25.0	11.8	26.0	11.7	40.6	18.5
West South Central	29.0	21.2	35.8	19.4	9.8	14.9	14.6	16.1	35.5
West	21.9	12.4	26.1	12.7	7.3	10.6	21.5	11.0	22.6
Mountain	33.2	24.1	28.7	9.4	14.4	17.5	32.1	22.6	21.8
Pacific	21.0	16.2	35.4	18.0	9.0	14.0	20.4	13.7	31.2
Climate Zone: 45-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	18.2	18.0	29.6	16.9	11.8	18.3	15.3	17.9	24.8
5,500-7,000 HDD	16.5	14.4	31.4	9.9	9.9	13.0	11.7	14.8	30.9
4,000-5,499 HDD	17.8	19.1	29.0	11.7	9.3	15.5	15.8	14.7	27.5
Fewer than 4,000 HDD	18.8	17.8	25.3	13.7	9.9	13.7	15.3	11.7	22.1
2,000 CDD or More and --									
Fewer than 4,000 HDD	29.4	16.1	31.0	17.7	9.9	14.4	18.7	12.9	31.0

RSEs for Table C8. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
Workers (main shift)									
Fewer than 5	13.9	15.3	29.3	8.4	8.6	19.0	13.8	14.7	26.5
5 to 9	19.0	18.8	25.8	12.4	10.7	13.7	18.1	16.7	22.1
10 to 19	25.3	17.0	44.6	12.6	10.1	17.7	17.6	13.8	42.7
20 to 49	21.0	23.0	31.8	11.6	7.2	12.0	16.6	20.6	27.3
50 to 99	19.1	14.8	28.1	17.6	10.1	9.9	12.5	13.1	25.5
100 to 249	22.0	17.5	18.6	13.4	8.9	12.0	19.5	12.9	15.8
250 or More	22.6	10.8	36.2	12.5	7.9	13.2	17.2	8.0	31.6
Weekly Operating Hours									
39 or Fewer	22.2	20.2	58.1	13.6	10.7	28.2	20.7	19.5	39.8
40 to 48	12.4	12.0	17.8	9.3	8.2	15.7	11.2	10.2	15.8
49 to 60	17.2	19.5	21.1	10.4	9.3	11.1	12.7	18.9	18.5
61 to 84	20.2	15.2	17.3	12.9	6.3	13.3	14.7	14.6	10.9
85 to 167	21.0	15.8	27.8	16.6	9.1	9.7	14.0	15.4	25.5
Open Continuously	21.6	12.0	29.5	12.7	7.3	9.1	18.0	9.2	27.1
Ownership and Occupancy									
Nongovernment Owned	10.7	9.0	18.3	6.8	4.7	7.3	8.9	7.2	16.5
Owner Occupied	11.0	9.9	19.5	7.6	5.3	8.2	8.3	8.6	17.8
Nonowner Occupied	18.8	15.6	37.2	9.9	7.8	9.7	17.8	12.4	35.0
Unoccupied	57.7	54.1	100.3	16.7	24.2	51.7	55.0	55.7	106.3
Government Owned	15.8	10.3	13.5	8.9	7.0	9.2	12.3	9.6	11.3
Federal	39.5	22.7	29.0	28.4	18.9	26.0	23.2	11.0	33.4
State	17.0	22.2	31.8	14.2	14.8	16.4	16.9	14.6	25.3
Local	20.0	11.8	18.0	14.1	8.6	11.7	14.0	12.1	13.2
Vacancy Status									
Completely Vacant	63.1	59.7	X	19.6	26.7	47.9	60.8	59.9	X
Mostly Vacant	34.2	62.7	X	25.4	26.2	84.3	32.9	63.1	X
Partially Vacant	20.4	11.6	20.3	9.8	8.2	9.9	15.9	9.4	14.4
Not At All Vacant	9.3	8.7	16.2	6.1	4.1	7.4	7.8	7.3	15.7
Number of Establishments									
One	9.7	8.2	17.6	6.1	4.5	7.0	8.8	7.6	16.6
2 to 5	15.5	17.6	24.3	11.8	9.3	14.0	14.9	15.6	22.4
6 to 10	19.7	25.5	39.9	24.3	11.4	18.3	26.5	20.5	26.4
11 to 20	33.0	16.6	38.8	20.2	15.3	21.4	30.6	17.0	25.2
More than 20	40.4	12.1	41.9	23.0	11.0	24.3	34.3	11.5	36.8
Currently Unoccupied	50.8	46.7	100.3	15.3	23.2	51.7	48.1	47.9	106.3
Energy Sources (more than one may apply)									
Electricity	9.2	7.4	14.8	6.2	5.3	8.2	7.2	6.1	12.0
Natural Gas	10.6	8.5	17.2	8.4	5.9	9.3	7.2	7.4	13.3
Fuel Oil	18.3	12.5	34.1	13.1	8.7	12.9	14.6	10.5	31.3
District Heat	28.0	23.1	57.1	23.5	15.3	35.2	12.9	15.0	67.7
District Chilled Water	41.7	38.2	63.0	22.5	14.2	20.5	26.1	35.0	64.8
Propane	27.0	19.1	61.4	17.5	13.0	21.7	29.4	18.3	60.7
Other	33.9	29.1	25.2	17.7	18.3	31.0	30.4	20.5	36.1
Space-Heating Energy Sources (more than one may apply)									
Electricity	11.7	9.4	15.4	8.5	5.0	6.8	9.7	7.3	13.3
Natural Gas	11.5	9.9	19.0	7.2	4.9	7.5	7.5	8.4	17.5
Fuel Oil	17.9	18.7	26.1	15.3	16.7	24.4	15.2	15.5	24.6
District Heat	28.0	23.5	60.4	16.2	10.1	18.9	22.4	21.6	61.5
Propane	41.3	30.9	36.7	29.2	19.4	34.3	37.3	33.3	45.7
Other	32.7	51.4	71.1	26.7	33.1	58.2	26.0	28.1	34.8

RSEs for Table C8. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
Primary Space-Heating									
Energy Source									
Electricity	16.2	10.6	22.5	12.9	6.4	8.8	19.0	8.7	20.0
Natural Gas	12.1	10.3	20.5	7.5	5.4	7.9	7.9	9.0	18.6
Fuel Oil	23.2	22.3	35.0	17.1	20.9	34.2	21.8	19.7	36.4
District Heat	28.4	23.7	65.7	17.0	10.4	22.6	22.3	21.2	68.2
Propane	34.9	46.3	35.7	35.9	21.8	38.8	34.0	48.4	41.6
Other	32.4	61.1	100.9	30.5	45.1	74.1	20.7	39.3	34.8
Cooling Energy Sources									
(more than one may apply)									
Electricity	10.2	8.0	15.7	7.0	4.6	6.9	7.5	6.6	13.8
Natural Gas	43.8	32.6	39.9	31.9	14.4	30.2	34.1	31.1	40.6
District Chilled Water	41.7	38.2	63.0	22.5	14.2	20.5	26.1	35.0	64.8
Water-Heating Energy Sources									
(more than one may apply)									
Electricity	16.3	9.4	27.8	9.8	6.3	10.7	12.4	7.6	26.0
Natural Gas	11.0	11.0	17.1	7.5	5.6	7.0	8.4	9.0	15.1
Fuel Oil	19.1	21.7	43.0	18.2	21.0	39.7	24.8	20.4	21.6
District Heat	29.4	20.5	61.0	18.2	10.5	22.9	24.5	17.2	62.4
Propane	45.5	37.3	46.0	49.0	25.6	34.7	46.3	43.6	56.2
Cooking Energy Sources									
(more than one may apply)									
Electricity	17.6	10.6	17.6	10.6	6.9	9.2	14.0	9.2	17.7
Natural Gas	16.9	11.4	20.0	10.4	7.7	8.9	12.1	8.6	19.5
Propane	41.1	31.1	41.3	25.0	19.2	26.6	31.7	23.4	31.2
Energy End Uses (more than one may apply)									
Buildings with Space Heating	9.2	7.5	15.1	5.6	4.4	6.2	7.3	6.6	13.6
Buildings with Cooling	10.0	7.6	15.1	6.6	4.4	6.6	8.0	6.2	13.2
Buildings with Water Heating	9.5	7.9	15.1	5.8	4.3	6.0	7.6	6.6	13.6
Buildings with Cooking	14.1	9.3	16.5	9.0	6.3	7.5	10.6	7.6	15.6
Buildings with Manufacturing	33.7	36.0	25.9	22.0	18.2	19.3	31.1	29.5	18.2
Buildings with Electricity Generation	22.0	11.1	29.6	13.7	9.3	10.3	20.8	10.8	28.1
Percent of Floorspace Heated									
Not Heated	45.7	41.6	50.0	14.2	15.6	26.9	46.7	40.9	48.5
1 to 50	22.0	26.6	33.8	13.4	11.3	15.8	19.9	22.6	32.3
51 to 99	18.2	25.3	17.5	10.3	9.2	12.3	18.4	22.5	17.2
100	11.0	7.8	17.6	6.6	5.0	7.2	7.6	6.4	16.3
Percent of Floorspace Cooled									
Not Cooled	16.8	42.2	43.1	12.0	9.8	21.9	16.0	40.8	37.4
1 to 50	14.6	22.4	45.2	10.8	8.4	12.1	10.7	20.1	43.7
51 to 99	16.6	9.8	15.1	7.8	5.9	9.8	15.3	6.9	13.4
100	15.2	9.8	18.6	8.7	6.3	7.9	11.6	8.4	17.6
Percent Lit When Open									
Zero	X	71.9	95.8	91.6	31.8	88.3	X	56.6	10.0
1 to 50	15.2	24.9	53.9	11.2	11.6	19.5	14.1	20.2	51.8
51 to 99	12.7	11.0	12.1	8.3	5.6	9.5	12.1	8.8	8.4
100	13.4	10.0	19.0	7.4	5.8	7.2	10.8	9.3	17.5
Building Never Open/ Electricity Not Used.....	46.1	37.2	100.3	15.7	20.4	39.7	43.4	39.8	103.9

RSEs for Table C8. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
Percent Lit When Closed									
Zero	15.2	12.5	20.5	9.0	7.5	10.4	11.8	9.3	18.3
1 to 50	10.4	11.1	12.7	7.7	6.0	8.5	8.4	9.9	8.9
51 to 100	45.0	17.6	44.2	29.2	12.7	18.8	49.0	14.9	40.8
Building Never Closed/ Electricity Not Used.....	21.6	12.0	29.5	12.7	7.3	9.1	18.0	9.2	27.1
Heating Equipment (more than one may apply)									
Heat Pumps	23.0	23.5	35.8	14.2	7.2	12.1	18.5	22.9	32.9
Furnaces	13.2	23.3	45.1	7.8	7.2	13.4	10.9	20.7	41.5
Individual Space Heaters	15.1	12.6	13.2	8.9	6.6	8.9	13.1	10.3	12.4
District Heat	28.0	23.5	60.4	16.2	10.1	18.9	22.4	21.6	61.5
Boilers	12.5	10.5	20.5	8.6	7.5	10.4	7.5	9.1	16.9
Packaged Heating Units	17.0	8.8	19.4	10.9	5.4	7.7	12.5	7.9	18.1
Other	33.6	19.7	64.3	18.2	10.4	18.5	31.2	17.6	58.9
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	15.6	16.6	33.6	11.9	8.0	19.9	12.7	14.5	33.3
Heat Pumps	21.7	22.3	36.1	15.0	7.4	12.3	15.6	21.8	33.1
Individual Air Conditioners	13.7	13.2	21.7	9.2	8.3	12.4	11.4	13.0	19.7
District Chilled Water	41.7	38.2	63.0	22.5	14.2	20.5	26.1	35.0	64.8
Central Chillers	19.8	11.3	32.0	10.4	7.8	10.2	15.4	7.0	29.4
Packaged Air Conditioning Units	12.1	8.6	16.8	8.0	4.6	7.5	8.6	6.8	15.9
Swamp Coolers	37.2	27.4	42.9	26.8	18.9	23.8	27.9	27.1	36.3
Other	59.0	37.8	48.5	32.3	20.1	24.5	43.7	27.3	46.4
Main Equipment Replaced Since 1995 (more than one may apply)									
Heating	16.8	13.3	46.6	11.9	8.0	18.1	12.2	10.8	43.0
Cooling	15.8	11.1	38.2	9.1	6.6	17.8	13.8	8.7	33.3
Lighting Equipment Types (more than one may apply)									
Incandescent	10.5	8.2	16.4	6.2	5.2	8.3	8.8	7.0	15.7
Standard Fluorescent	9.2	7.5	14.1	5.9	4.3	6.5	7.2	6.4	13.0
Compact Fluorescent	15.8	10.1	15.5	9.5	6.8	8.2	13.6	7.3	13.0
High Intensity Discharge	16.8	12.9	20.9	11.1	7.1	9.3	14.1	12.3	19.9
Halogen	18.3	13.5	18.8	10.4	5.5	7.4	16.3	12.3	17.5
Other	51.1	41.3	62.1	35.8	16.6	25.4	45.5	43.7	59.0
Water Heating Equipment									
Centralized System	9.6	9.4	17.0	6.5	4.9	6.7	7.8	7.8	16.1
Distributed System	22.0	12.4	50.6	12.3	9.8	12.3	18.1	9.7	47.6
Combination of Centralized and Distributed System	16.6	14.6	14.7	9.8	7.8	9.8	14.2	12.7	12.1
Commercial Refrigeration Equipment (more than one may apply)									
Any Equipment	13.6	8.9	16.1	9.7	6.3	7.4	11.0	7.3	14.1
Walk-In Units	15.4	9.7	17.4	10.3	7.0	9.2	12.8	7.8	15.6
Cases or Cabinets	14.4	9.4	17.5	10.5	5.9	8.1	11.7	7.9	16.2
None	9.8	11.0	25.7	7.0	5.2	8.6	9.5	9.8	23.9

RSEs for Table C8. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels, 1999

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
Personal Computers									
None	19.9	20.7	39.2	9.4	8.3	23.5	19.9	19.5	36.3
1 to 4	14.1	16.6	31.6	10.0	8.3	14.6	12.4	14.4	29.6
5 to 9	17.9	31.2	37.1	14.0	9.8	13.8	15.6	31.6	32.4
10 to 19	24.8	25.3	18.3	15.3	11.1	15.4	17.9	21.9	19.2
20 to 49	20.8	19.3	17.8	14.9	8.8	11.1	17.0	16.4	13.4
50 to 99	27.3	12.2	51.9	16.3	10.0	13.7	15.8	11.3	47.7
100 to 249	23.9	17.3	24.8	15.8	10.5	12.8	20.7	13.2	22.8
250 or More	22.7	12.4	22.5	13.0	9.3	15.2	16.8	8.3	14.0
Photocopiers									
None	11.8	17.3	29.3	7.1	7.1	11.9	11.4	14.6	28.3
One	15.3	12.7	14.2	10.0	7.1	11.2	12.5	11.6	15.4
2 to 4	16.8	17.4	16.0	11.5	7.1	9.6	10.9	15.3	14.6
5 to 9	21.4	16.3	49.6	15.1	9.0	16.1	16.1	14.3	46.2
10 or More	21.0	10.4	18.4	12.5	7.8	12.8	16.6	6.4	10.6
Other Electronic Equipment (more than one may apply)									
Laser Printers	10.6	8.4	16.3	6.4	5.2	6.5	9.3	6.7	14.6
FAX Machines	10.2	7.9	15.5	6.1	4.8	6.3	8.4	6.6	14.1
Medical Diagnostic Equipment	33.1	15.5	30.1	17.4	9.5	19.5	28.1	11.6	21.0
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	14.3	9.5	17.2	9.3	6.5	7.8	10.7	7.5	16.6
Activities with Large Amounts of Hot Water	14.2	11.9	19.1	10.2	5.8	7.9	11.9	12.1	17.5
Building Shell Conservation Features (more than one may apply)									
Multipaned Windows	11.7	9.6	13.7	7.6	5.1	7.0	10.1	8.8	11.7
Tinted, Reflective, or Shading Glass	16.0	9.1	14.1	8.3	5.8	7.1	14.4	7.7	12.0
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	18.4	10.2	16.1	11.1	7.5	7.9	13.8	7.3	13.9
Economizer Cycle	14.5	10.0	18.7	8.3	6.8	7.8	11.3	7.3	17.0
HVAC Maintenance	9.7	7.9	15.3	6.6	4.6	6.9	7.6	6.4	13.9
Energy Management and Control System (EMCS)	16.0	9.1	18.6	7.8	8.1	6.4	12.3	8.4	17.5
Lighting Conservation Features (more than one may apply)									
Specular Reflectors	17.0	10.5	11.3	10.9	8.3	6.5	13.9	9.7	8.3
Electronic Ballasts	12.4	8.4	15.9	7.5	4.8	6.1	9.4	6.6	15.0
Skylights or Atriums	16.1	15.1	16.0	9.4	7.4	7.6	15.7	13.4	13.8

RSEs for Table C9. Total Electricity Consumption and Expenditures, 1999

	RSEs for All Buildings Using Electricity			RSEs for Electricity Consumption			RSEs for Electricity Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Primary	Site		Total
				Total	Total	Total	
All Buildings	5.2	4.0	3.9	5.5	5.5	5.5	5.0
Building Floorspace (Square Feet)							
1,001 to 5,000	8.9	8.7	3.3	13.4	13.4	13.4	14.6
5,001 to 10,000	10.4	10.9	1.7	14.5	14.5	14.5	14.4
10,001 to 25,000	8.2	8.0	2.0	8.5	8.5	8.5	10.6
25,001 to 50,000	8.3	8.0	1.5	10.6	10.6	10.6	9.9
50,001 to 100,000	10.4	10.2	1.2	13.0	13.0	13.0	12.0
100,001 to 200,000	7.7	7.9	1.6	13.1	13.1	13.1	12.4
200,001 to 500,000	7.3	7.4	2.6	10.1	10.1	10.1	9.2
Over 500,000	13.5	13.4	2.8	13.8	13.8	13.8	14.5
Principal Building Activity							
Education	13.9	6.6	11.2	6.5	6.5	6.5	7.0
Food Sales	23.3	17.4	18.2	21.5	21.5	21.5	20.4
Food Service	16.8	16.8	10.7	22.3	22.3	22.3	23.5
Health Care	18.0	9.6	17.6	10.4	10.4	10.4	10.2
Inpatient	32.2	10.9	41.0	12.7	12.7	12.7	12.4
Outpatient	19.5	14.7	18.0	17.2	17.2	17.2	17.0
Lodging	15.4	11.3	14.8	12.2	12.2	12.2	13.0
Mercantile	13.5	10.8	11.4	10.7	10.7	10.7	11.3
Retail (Other Than Mall)	15.3	14.1	10.6	11.6	11.6	11.6	12.5
Enclosed and Strip Malls	20.4	11.5	23.1	15.0	15.0	15.0	15.8
Office	10.3	8.0	9.5	10.4	10.4	10.4	9.2
Public Assembly	17.6	12.9	12.5	13.7	13.7	13.7	13.5
Public Order and Safety	30.3	22.3	22.1	23.5	23.5	23.5	23.5
Religious Worship	16.6	17.0	9.0	19.3	19.3	19.3	17.9
Service	13.2	13.2	10.9	17.7	17.7	17.7	17.9
Warehouse and Storage	16.8	11.1	13.2	13.1	13.1	13.1	13.2
Other	33.0	18.3	34.2	25.1	25.1	25.1	25.8
Vacant	29.0	22.2	18.6	40.9	40.9	40.9	41.1
Year Constructed							
1919 or Before	12.4	10.0	11.3	23.3	23.3	23.3	16.6
1920 to 1945	12.8	10.6	11.5	12.2	12.2	12.2	12.8
1946 to 1959	11.2	9.3	8.8	10.9	10.9	10.9	10.8
1960 to 1969	9.6	7.0	7.8	10.5	10.5	10.5	10.2
1970 to 1979	10.3	9.0	8.6	8.4	8.4	8.4	8.5
1980 to 1989	10.6	6.5	8.8	9.5	9.5	9.5	9.1
1990 to 1999	16.5	8.2	12.3	10.8	10.8	10.8	10.4
Census Region and Division							
Northeast	13.9	9.7	10.9	10.3	10.3	10.3	11.6
New England	18.1	14.8	19.3	18.2	18.2	18.2	17.2
Middle Atlantic	15.4	10.9	12.0	11.1	11.1	11.1	12.6
Midwest	10.8	6.5	7.2	10.6	10.6	10.6	8.7
East North Central	14.0	7.6	10.3	13.8	13.8	13.8	10.9
West North Central	18.3	10.3	13.5	15.4	15.4	15.4	13.2
South	5.9	5.6	5.8	9.6	9.6	9.6	8.9
South Atlantic	9.6	8.6	9.1	15.4	15.4	15.4	14.3
East South Central	13.3	11.1	8.4	15.3	15.3	15.3	13.9
West South Central	9.4	9.0	11.8	15.3	15.3	15.3	12.1
West	12.2	7.4	9.3	8.1	8.1	8.1	8.5
Mountain	18.3	15.0	12.7	13.7	13.7	13.7	15.0
Pacific	14.6	8.6	12.6	10.8	10.8	10.8	10.6

RSEs for Table C9. Total Electricity Consumption and Expenditures, 1999

	RSEs for All Buildings Using Electricity			RSEs for Electricity Consumption			RSEs for Electricity Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Primary	Site		Total
				Total	Total	Total	
Climate Zone: 45-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	13.7	9.5	7.6	18.2	18.2	18.2	15.5
5,500-7,000 HDD	11.5	8.7	7.4	9.7	9.7	9.7	9.3
4,000-5,499 HDD	15.8	8.9	10.4	8.9	8.9	8.9	9.0
Fewer than 4,000 HDD	12.5	9.9	9.6	13.2	13.2	13.2	12.0
2,000 CDD or More and --							
Fewer than 4,000 HDD	13.4	10.1	8.3	11.8	11.8	11.8	11.4
Workers (main shift)							
Fewer than 5	6.9	7.9	6.0	13.2	13.2	13.2	11.4
5 to 9	11.2	10.1	6.9	12.1	12.1	12.1	14.5
10 to 19	11.4	9.9	7.6	12.6	12.6	12.6	14.1
20 to 49	11.5	7.1	8.0	9.4	9.4	9.4	10.0
50 to 99	11.2	10.0	7.9	10.8	10.8	10.8	10.9
100 to 249	14.3	8.5	12.2	13.0	13.0	13.0	11.5
250 or More	9.6	7.2	8.7	8.2	8.2	8.2	7.8
Weekly Operating Hours							
39 or Fewer	15.0	13.6	9.7	15.8	15.8	15.8	15.2
40 to 48	7.4	6.5	6.5	7.7	7.7	7.7	7.8
49 to 60	9.4	7.9	8.5	10.7	10.7	10.7	9.8
61 to 84	14.3	6.4	11.9	7.3	7.3	7.3	7.1
85 to 167	12.1	7.9	10.6	9.2	9.2	9.2	9.7
Open Continuously	11.1	6.6	10.6	8.7	8.7	8.7	8.0
Ownership and Occupancy							
Nongovernment Owned	5.9	5.1	4.3	6.6	6.6	6.6	5.9
Owner Occupied	7.1	5.8	5.3	6.9	6.9	6.9	6.2
Nonowner Occupied	9.4	7.1	7.8	9.6	9.6	9.6	8.9
Unoccupied	57.1	33.4	71.1	55.8	55.8	55.8	55.9
Government Owned	12.8	6.4	9.4	9.0	9.0	9.0	8.9
Federal	25.7	19.7	30.6	19.3	19.3	19.3	20.2
State	17.0	12.5	18.6	15.4	15.4	15.4	15.0
Local	17.5	8.2	12.1	10.9	10.9	10.9	10.4
Vacancy Status							
Completely Vacant	56.2	44.0	18.4	61.5	61.5	61.5	65.2
Mostly Vacant	33.0	24.6	27.2	26.5	26.5	26.5	29.1
Partially Vacant	13.8	8.0	13.2	8.6	8.6	8.6	8.2
Not At All Vacant	5.4	3.8	4.2	6.3	6.3	6.3	5.8
Number of Establishments							
One	5.4	4.2	3.8	5.9	5.9	5.9	5.6
2 to 5	10.9	7.0	8.7	12.1	12.1	12.1	11.3
6 to 10	23.2	14.0	22.9	17.4	17.4	17.4	18.8
11 to 20	24.0	15.6	20.6	14.7	14.7	14.7	15.5
More than 20	31.8	11.0	24.5	12.1	12.1	12.1	12.7
Currently Unoccupied	49.6	29.8	49.8	47.8	47.8	47.8	49.0
Energy Sources (more than one may apply)							
Electricity	5.2	4.0	3.9	5.5	5.5	5.5	5.0
Natural Gas	7.1	4.9	5.5	6.7	6.7	6.7	6.0
Fuel Oil	23.0	7.8	17.7	9.4	9.4	9.4	8.5
District Heat	26.4	16.0	22.1	18.7	18.7	18.7	18.7
District Chilled Water	14.0	14.2	10.2	17.9	17.9	17.9	18.0
Propane	17.1	12.0	11.0	16.4	16.4	16.4	17.4
Other	23.6	15.4	21.6	16.8	16.8	16.8	15.8

RSEs for Table C9. Total Electricity Consumption and Expenditures, 1999

	RSEs for All Buildings Using Electricity			RSEs for Electricity Consumption			RSEs for Electricity Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Primary	Site		Total
				Total	Total	Total	
Space-Heating Energy Source							
Electricity	6.8	4.9	6.0	6.6	6.6	6.6	5.9
Electricity Main	7.5	5.9	7.7	7.7	7.7	7.7	7.3
Electricity Secondary	9.8	6.3	8.0	9.2	9.2	9.2	8.5
Other Excluding Electricity	6.8	5.2	5.0	6.6	6.6	6.6	6.4
Buildings without Heating	18.9	16.1	14.8	19.0	19.0	19.0	19.0
Primary Space-Heating Energy Source							
Electricity	7.5	5.9	7.7	7.7	7.7	7.7	7.3
Natural Gas	6.4	5.0	5.0	7.4	7.4	7.4	6.6
Fuel Oil	22.1	13.0	16.2	18.0	18.0	18.0	17.6
District Heat	15.9	11.0	14.8	12.6	12.6	12.6	12.6
Propane	22.4	24.3	16.0	38.8	38.8	38.8	42.7
Other	55.0	32.7	33.6	24.1	24.1	24.1	27.0
Cooling Energy Source							
Electricity	5.8	4.8	4.2	5.7	5.7	5.7	5.1
Other Excluding Electricity	28.9	14.0	27.6	17.5	17.5	17.5	15.9
Buildings without Cooling	11.1	12.0	9.2	17.5	17.5	17.5	17.4
Water-Heating Energy Source							
Electricity	7.2	6.6	6.5	8.3	8.3	8.3	7.7
Other Excluding Electricity	8.1	4.1	6.3	5.9	5.9	5.9	5.4
Buildings without Water Heating	10.9	9.5	9.0	12.3	12.3	12.3	10.5
Cooking Energy Source							
Electricity	11.0	6.9	8.6	8.0	8.0	8.0	8.0
Other Excluding Electricity	13.0	6.8	12.0	7.9	7.9	7.9	7.9
Buildings without Cooking	5.5	5.3	4.1	7.5	7.5	7.5	6.8
Energy End Uses (more than one may apply)							
Buildings with Space Heating	5.4	4.1	4.1	5.6	5.6	5.6	5.0
Buildings with Cooling	5.7	4.5	4.0	5.8	5.8	5.8	5.2
Buildings with Water Heating	5.9	4.2	4.1	5.7	5.7	5.7	5.2
Buildings with Cooking	8.1	5.7	7.2	6.7	6.7	6.7	6.3
Buildings with Manufacturing	19.8	15.8	18.4	21.2	21.2	21.2	19.1
Buildings with Electricity Generation	16.4	7.9	17.1	8.6	8.6	8.6	8.3
Percent of Floorspace Heated							
Not Heated	18.9	16.1	14.8	19.0	19.0	19.0	19.0
1 to 50	13.8	9.6	9.3	12.6	12.6	12.6	15.1
51 to 99	10.0	7.9	8.9	11.4	11.4	11.4	10.0
100	5.6	4.6	4.4	6.5	6.5	6.5	6.1
Percent of Floorspace Cooled							
Not Cooled	11.1	12.0	9.2	17.5	17.5	17.5	17.4
1 to 50	11.1	8.1	7.2	9.4	9.4	9.4	10.1
51 to 99	8.3	5.5	7.0	8.0	8.0	8.0	7.4
100	6.6	6.3	6.2	7.1	7.1	7.1	6.6
Percent Lit When Open							
Zero	74.3	40.3	31.9	56.8	56.8	56.8	57.6
1 to 50	9.5	9.5	6.1	16.6	16.6	16.6	16.6
51 to 99	8.4	5.6	6.2	7.7	7.7	7.7	6.6
100	8.2	5.3	6.2	5.8	5.8	5.8	5.7
Building Never Open/ Electricity Not Used	34.8	27.7	27.9	42.6	42.6	42.6	42.2

RSEs for Table C9. Total Electricity Consumption and Expenditures, 1999

	RSEs for All Buildings Using Electricity			RSEs for Electricity Consumption			RSEs for Electricity Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Primary	Site		Total
				Total	Total	Total	
Percent Lit When Closed							
Zero	8.4	7.6	5.1	9.1	9.1	9.1	9.8
1 to 50	6.3	5.1	5.9	6.2	6.2	6.2	5.8
51 to 100	19.9	12.6	19.7	19.9	19.9	19.9	19.6
Building Never Closed/ Electricity Not Used	11.1	6.6	10.6	8.7	8.7	8.7	8.0
Heating Equipment (more than one may apply)							
Heat Pumps	13.8	6.7	13.0	9.3	9.3	9.3	9.5
Furnaces	9.9	7.1	6.2	8.5	8.5	8.5	8.3
Individual Space Heaters	8.7	6.4	6.5	7.1	7.1	7.1	6.7
District Heat	15.5	10.7	14.3	12.1	12.1	12.1	12.0
Boilers	11.2	6.4	9.0	8.5	8.5	8.5	8.2
Packaged Heating Units	6.9	5.2	5.5	6.5	6.5	6.5	5.9
Other	17.5	9.7	16.7	9.2	9.2	9.2	9.7
Cooling Equipment (more than one may apply)							
Residential-Type Central							
Air Conditioners	12.6	7.2	10.9	6.7	6.7	6.7	7.1
Heat Pumps	14.4	7.1	13.1	9.2	9.2	9.2	9.4
Individual Air Conditioners	10.8	7.2	8.6	8.2	8.2	8.2	7.9
District Chilled Water	14.0	14.2	10.2	17.9	17.9	17.9	18.0
Central Chillers	18.0	7.7	14.1	9.8	9.8	9.8	9.5
Packaged Air Conditioning							
Units	6.0	4.8	5.2	6.5	6.5	6.5	5.7
Swamp Coolers	21.4	18.7	14.8	19.8	19.8	19.8	18.7
Other	34.7	20.3	35.0	22.0	22.0	22.0	23.3
Main Equipment Replaced Since 1995 (more than one may apply)							
Heating	10.2	8.9	7.2	11.0	11.0	11.0	9.8
Cooling	8.6	6.4	6.0	8.2	8.2	8.2	6.9
Lighting Equipment Types (more than one may apply)							
Incandescent	6.1	4.9	4.9	6.3	6.3	6.3	5.8
Standard Fluorescent	5.8	4.1	4.2	5.5	5.5	5.5	5.0
Compact Fluorescent	10.1	6.2	7.9	7.5	7.5	7.5	7.2
High Intensity Discharge	11.5	6.0	8.3	8.2	8.2	8.2	7.3
Halogen	11.6	5.5	11.2	6.4	6.4	6.4	6.2
Other	34.5	15.6	34.4	28.6	28.6	28.6	28.9
Water Heating Equipment							
Centralized System	6.5	4.7	4.9	6.3	6.3	6.3	6.0
Distributed System	12.2	8.0	9.4	11.8	11.8	11.8	11.1
Combination of Centralized and Distributed System	12.5	6.7	12.0	9.1	9.1	9.1	8.0
Commercial Refrigeration Equipment (more than one may apply)							
Any Equipment	8.0	4.8	8.0	6.4	6.4	6.4	6.1
Walk-In Units	10.5	6.7	10.0	7.4	7.4	7.4	7.4
Cases or Cabinets	7.8	5.0	8.1	6.7	6.7	6.7	6.5
None	5.8	5.3	4.0	7.5	7.5	7.5	6.9

RSEs for Table C9. Total Electricity Consumption and Expenditures, 1999

	RSEs for All Buildings Using Electricity			RSEs for Electricity Consumption			RSEs for Electricity Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Primary	Site		Total
				Total	Total	Total	
Personal Computers							
None	9.8	10.4	6.3	17.1	17.1	17.1	14.3
1 to 4	8.5	8.2	6.5	11.9	11.9	11.9	12.1
5 to 9	10.8	9.2	7.0	12.8	12.8	12.8	13.6
10 to 19	15.1	11.4	9.3	8.8	8.8	8.8	10.9
20 to 49	13.7	9.1	10.5	11.8	11.8	11.8	11.3
50 to 99	11.1	7.3	9.6	8.6	8.6	8.6	8.8
100 to 249	10.5	8.9	7.8	12.5	12.5	12.5	10.7
250 or More	9.6	7.3	7.8	9.1	9.1	9.1	8.7
Photocopiers							
None	6.5	6.8	4.8	10.0	10.0	10.0	10.1
One	9.5	7.5	5.7	9.7	9.7	9.7	9.9
2 to 4	8.9	6.0	7.4	8.1	8.1	8.1	7.7
5 to 9	20.9	9.3	21.0	14.6	14.6	14.6	13.4
10 or More	10.2	7.2	8.2	8.2	8.2	8.2	7.8
Other Electronic Equipment (more than one may apply)							
Laser Printers	6.0	4.5	4.9	6.1	6.1	6.1	5.5
FAX Machines	6.4	4.1	5.0	5.9	5.9	5.9	5.2
Medical Diagnostic Equipment	20.9	9.8	20.9	10.8	10.8	10.8	10.6
Annual Consumption (kilowatthours)							
10,000 or Less	13.3	15.4	9.4	14.6	14.6	14.6	15.7
10,001 to 50,000	8.0	9.3	5.9	8.4	8.4	8.4	9.0
50,001 to 100,000	12.1	12.3	5.8	12.3	12.3	12.3	13.5
100,001 to 500,000	8.1	5.4	6.6	8.4	8.4	8.4	8.8
500,001 to 1,000,000	11.2	8.4	10.1	10.7	10.7	10.7	11.3
1,000,001 to 5,000,000	8.5	6.4	3.6	9.4	9.4	9.4	8.9
Over 5,000,000	10.2	9.1	8.3	10.0	10.0	10.0	9.6
Provider of Purchased Electricity (more than one may apply)							
Local Utility	5.3	3.9	4.0	5.5	5.5	5.5	4.9
Some Other Provider	19.7	14.2	20.4	18.6	18.6	18.6	19.1

RSEs for Table C10. Electricity Consumption and Expenditure Intensities, 1999

	RSEs for Electricity Consumption						RSEs for Electricity Expenditures		
		per Square Foot	per Worker	RSEs Not Available for Percentiles					
				25th Percentile	Median	75th Percentile	per Building	per Square Foot	per kWh
All Buildings	5.6	3.7	3.9	—	—	—	4.6	3.1	1.9
Building Floorspace (Square Feet)									
1,001 to 5,000	10.1	10.0	11.0	—	—	—	11.2	10.8	4.6
5,001 to 10,000	10.7	10.9	15.9	—	—	—	10.6	10.7	4.3
10,001 to 25,000	7.6	7.5	6.9	—	—	—	8.0	7.9	3.7
25,001 to 50,000	7.0	6.6	6.0	—	—	—	6.3	6.0	2.3
50,001 to 100,000	6.7	6.5	8.3	—	—	—	5.3	5.2	2.8
100,001 to 200,000	9.2	8.9	7.9	—	—	—	8.0	7.5	3.2
200,001 to 500,000	7.0	6.1	9.1	—	—	—	6.3	5.5	3.8
Over 500,000	7.6	6.3	7.2	—	—	—	8.0	6.1	4.4
Principal Building Activity									
Education	12.6	5.4	8.9	—	—	—	12.5	5.5	2.4
Food Sales	17.1	12.0	10.7	—	—	—	16.5	10.7	4.1
Food Service	12.6	13.8	11.4	—	—	—	14.2	16.9	7.2
Health Care	19.8	4.3	10.5	—	—	—	19.0	4.8	3.9
Inpatient	43.1	4.5	7.5	—	—	—	41.9	5.1	4.0
Outpatient	22.7	8.3	19.9	—	—	—	20.8	8.2	5.4
Lodging	15.2	6.2	8.8	—	—	—	15.4	6.7	3.4
Mercantile	14.2	6.9	11.0	—	—	—	13.7	8.2	3.2
Retail (Other Than Mall)	12.4	7.2	24.8	—	—	—	12.0	7.5	3.7
Enclosed and Strip Malls	26.6	9.9	10.5	—	—	—	25.4	11.9	4.7
Office	12.2	5.8	6.5	—	—	—	11.0	4.7	3.2
Public Assembly	16.9	8.9	22.4	—	—	—	16.4	8.8	4.1
Public Order and Safety	28.2	13.0	19.4	—	—	—	24.6	11.8	9.7
Religious Worship	16.6	11.1	14.3	—	—	—	15.2	9.7	6.6
Service	18.5	12.3	15.3	—	—	—	18.0	12.6	6.3
Warehouse and Storage	16.6	9.5	17.8	—	—	—	15.0	7.5	4.5
Other	38.6	14.3	25.1	—	—	—	36.7	13.8	7.2
Vacant	37.6	32.7	403.7	—	—	—	35.7	31.3	10.0
Year Constructed									
1919 or Before	24.7	20.1	24.9	—	—	—	18.6	13.6	7.6
1920 to 1945	13.0	8.7	15.4	—	—	—	13.3	9.0	3.2
1946 to 1959	12.7	7.6	8.7	—	—	—	12.4	8.1	3.7
1960 to 1969	10.2	6.7	8.0	—	—	—	9.6	6.6	4.0
1970 to 1979	10.3	5.2	7.4	—	—	—	9.5	5.2	2.8
1980 to 1989	10.8	7.0	7.1	—	—	—	9.4	7.0	3.7
1990 to 1999	14.4	5.9	7.6	—	—	—	13.5	5.4	2.4
Census Region and Division									
Northeast	11.1	7.3	7.5	—	—	—	10.1	7.6	3.4
New England	22.0	7.5	15.4	—	—	—	19.0	7.4	4.1
Middle Atlantic	11.3	10.3	8.6	—	—	—	10.5	10.4	4.2
Midwest	10.6	7.0	5.3	—	—	—	8.3	5.4	3.6
East North Central	14.2	9.5	5.5	—	—	—	10.6	7.2	5.3
West North Central	21.0	10.7	12.2	—	—	—	18.7	8.2	3.6
South	9.9	6.2	8.1	—	—	—	8.9	5.4	2.1
South Atlantic	15.2	9.6	9.8	—	—	—	13.9	8.4	2.3
East South Central	16.2	9.6	16.7	—	—	—	13.5	7.3	3.4
West South Central	14.9	9.6	14.0	—	—	—	11.8	7.4	4.1
West	12.2	5.8	5.4	—	—	—	12.1	6.5	2.4
Mountain	19.3	12.4	7.6	—	—	—	17.1	12.7	5.9
Pacific	15.5	6.0	7.1	—	—	—	14.8	6.9	3.0

RSEs for Table C10. Electricity Consumption and Expenditure Intensities, 1999

	RSEs for Electricity Consumption								
		per Square Foot	per Worker	RSEs Not Available for Percentiles					
				per Building	25th Percentile	Median	75th Percentile	per Building	per Square Foot
Climate Zone: 45-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	16.8	14.6	14.7	—	—	—	12.4	10.7	6.8
5,500-7,000 HDD	9.0	6.3	5.9	—	—	—	7.9	6.5	4.2
4,000-5,499 HDD	13.6	6.7	7.8	—	—	—	13.0	6.7	3.2
Fewer than 4,000 HDD	14.4	6.8	6.3	—	—	—	12.7	5.4	3.0
2,000 CDD or More and --				—	—	—			
Fewer than 4,000 HDD	12.2	7.7	12.1	—	—	—	10.9	7.4	3.1
Workers (main shift)									
Fewer than 5	10.7	9.9	11.8	—	—	—	8.8	8.5	3.4
5 to 9	10.9	10.5	11.1	—	—	—	12.3	12.4	5.7
10 to 19	10.3	11.7	9.8	—	—	—	11.0	13.1	4.7
20 to 49	6.9	6.9	6.3	—	—	—	6.2	6.6	3.1
50 to 99	8.7	5.6	9.7	—	—	—	8.9	5.4	2.6
100 to 249	9.9	7.9	8.1	—	—	—	10.1	6.8	2.9
250 or More	8.4	3.6	6.2	—	—	—	8.6	3.8	3.3
Weekly Operating Hours									
39 or Fewer	12.0	12.6	17.9	—	—	—	11.4	11.7	4.4
40 to 48	7.5	5.6	7.1	—	—	—	7.3	5.5	2.2
49 to 60	11.5	7.9	10.3	—	—	—	10.8	6.7	3.5
61 to 84	15.3	5.5	7.7	—	—	—	13.9	4.5	2.9
85 to 167	7.9	7.6	5.9	—	—	—	7.8	8.5	3.2
Open Continuously	10.1	5.2	6.9	—	—	—	9.9	4.4	2.6
Ownership and Occupancy									
Nongovernment Owned	6.4	4.3	4.8	—	—	—	5.2	3.7	2.2
Owner Occupied	7.0	5.0	5.6	—	—	—	6.0	4.5	2.5
Nonowner Occupied	10.2	5.3	7.1	—	—	—	9.3	4.8	2.5
Unoccupied	114.8	48.1	0.0	—	—	—	104.7	45.3	15.1
Government Owned	12.2	5.7	4.9	—	—	—	11.8	5.5	2.5
Federal	30.3	13.0	13.0	—	—	—	31.2	14.4	6.7
State	17.8	7.9	9.2	—	—	—	17.0	8.0	3.2
Local	15.7	7.9	7.7	—	—	—	15.1	7.7	2.8
Vacancy Status									
Completely Vacant	46.3	39.9	0.0	—	—	—	48.3	44.3	20.7
Mostly Vacant	24.5	18.4	359.6	—	—	—	24.7	18.2	10.6
Partially Vacant	15.6	4.5	9.0	—	—	—	15.0	4.8	3.1
Not At All Vacant	6.7	4.7	3.9	—	—	—	5.9	4.2	2.0
Number of Establishments									
One	5.7	4.2	5.0	—	—	—	4.9	4.0	2.2
2 to 5	15.1	10.3	11.3	—	—	—	13.6	8.6	4.0
6 to 10	21.3	8.8	10.5	—	—	—	19.5	12.6	7.0
11 to 20	27.8	10.1	14.7	—	—	—	26.9	8.7	4.5
More than 20	25.7	8.4	9.6	—	—	—	25.5	8.7	3.3
Currently Unoccupied	86.0	40.7	0.0	—	—	—	79.0	39.0	12.9
Energy Sources (more than one may apply)									
Electricity	5.6	3.7	3.9	—	—	—	4.6	3.1	1.9
Natural Gas	7.2	4.5	4.4	—	—	—	6.6	4.1	2.1
Fuel Oil	21.4	6.1	6.6	—	—	—	20.0	4.5	3.7
District Heat	25.7	12.1	12.1	—	—	—	24.4	11.5	5.3
District Chilled Water	17.7	11.1	12.5	—	—	—	17.4	11.7	3.7
Propane	13.9	12.7	11.0	—	—	—	13.5	13.4	4.8
Other	25.6	10.4	32.1	—	—	—	22.1	8.4	5.7

RSEs for Table C10. Electricity Consumption and Expenditure Intensities, 1999

	RSEs for Electricity Consumption								
	per Building	per Square Foot	per Worker	RSEs Not Available for Percentiles					
				25th Percentile	Median	75th Percentile	RSEs for Electricity Expenditures		
							per Building	per Square Foot	per kWh
Space-Heating Energy Source									
Electricity	8.5	4.7	5.1	—	—	—	7.4	4.0	2.1
Electricity Main	9.4	5.4	7.6	—	—	—	8.5	5.2	2.2
Electricity Secondary	12.1	6.7	7.3	—	—	—	10.8	6.0	3.5
Other Excluding Electricity	6.3	4.6	4.8	—	—	—	5.5	4.2	2.5
Buildings without Heating	21.0	15.4	26.0	—	—	—	20.6	14.3	4.8
Primary Space-Heating Energy Source									
Electricity	9.4	5.4	7.6	—	—	—	8.5	5.2	2.2
Natural Gas	8.0	5.5	4.8	—	—	—	7.1	4.7	2.4
Fuel Oil	20.8	9.4	13.3	—	—	—	18.7	8.3	4.6
District Heat	18.6	7.8	8.8	—	—	—	17.8	7.8	4.2
Propane	35.0	36.0	29.0	—	—	—	39.1	39.7	6.2
Other	57.4	29.8	27.5	—	—	—	50.9	27.4	8.2
Cooling Energy Source									
Electricity	6.0	3.8	4.1	—	—	—	5.0	3.4	2.0
Other Excluding Electricity	27.7	11.6	10.2	—	—	—	25.5	10.7	4.0
Buildings without Cooling	13.6	12.5	12.9	—	—	—	13.5	12.5	4.0
Water-Heating Energy Source									
Electricity	8.9	5.1	7.1	—	—	—	7.9	4.5	2.5
Other Excluding Electricity	8.0	4.2	4.7	—	—	—	6.7	3.6	2.2
Buildings without Water Heating	14.3	10.2	10.6	—	—	—	12.3	7.3	4.0
Cooking Energy Source									
Electricity	8.5	5.3	4.2	—	—	—	8.9	6.0	2.8
Other Excluding Electricity	14.5	7.5	8.2	—	—	—	13.4	7.1	3.2
Buildings without Cooking	7.1	5.2	5.4	—	—	—	5.9	4.4	2.2
Energy End Uses (more than one may apply)									
Buildings with Space Heating	5.9	3.8	3.5	—	—	—	4.9	3.2	2.0
Buildings with Cooling	5.8	3.8	3.9	—	—	—	4.9	3.4	2.0
Buildings with Water Heating	5.9	3.7	4.1	—	—	—	4.8	3.2	2.0
Buildings with Cooking	7.6	4.8	4.2	—	—	—	7.2	4.5	2.2
Buildings with Manufacturing	25.1	14.6	18.6	—	—	—	23.0	12.3	6.1
Buildings with Electricity Generation	15.1	5.7	6.5	—	—	—	15.1	4.7	2.7
Percent of Floorspace Heated									
Not Heated	21.0	15.4	26.0	—	—	—	20.6	14.3	4.8
1 to 50	14.5	9.8	10.5	—	—	—	15.2	11.1	4.5
51 to 99	11.3	7.5	7.0	—	—	—	9.8	6.3	2.9
100	6.5	4.0	4.2	—	—	—	5.8	3.7	2.2
Percent of Floorspace Cooled									
Not Cooled	13.6	12.5	12.9	—	—	—	13.5	12.5	4.0
1 to 50	9.9	6.4	10.0	—	—	—	8.3	5.4	3.8
51 to 99	8.8	5.8	5.8	—	—	—	8.1	5.4	2.7
100	7.6	4.2	5.5	—	—	—	6.9	3.8	2.3
Percent Lit When Open									
Zero	55.9	36.2	36.2	—	—	—	54.7	36.5	3.3
1 to 50	14.1	15.0	14.8	—	—	—	13.7	14.4	5.8
51 to 99	8.8	5.4	6.7	—	—	—	7.7	4.6	3.1
100	8.2	4.5	5.0	—	—	—	7.3	4.0	2.0
Building Never Open/ Electricity Not Used	26.3	34.3	64.6	—	—	—	27.4	33.0	9.2

RSEs for Table C10. Electricity Consumption and Expenditure Intensities, 1999

	RSEs for Electricity Consumption						RSEs for Electricity Expenditures		
	per Building	per Square Foot	per Worker	RSEs Not Available for Percentiles					
				25th Percentile	Median	75th Percentile	per Building	per Square Foot	per kWh
Percent Lit When Closed									
Zero	6.6	5.6	7.2	—	—	—	6.5	5.5	2.6
1 to 50	6.7	4.2	4.5	—	—	—	6.3	4.2	2.2
51 to 100	21.6	12.4	9.7	—	—	—	21.5	12.1	4.2
Building Never Closed/ Electricity Not Used	10.1	5.2	6.9	—	—	—	9.9	4.4	2.6
Heating Equipment (more than one may apply)									
Heat Pumps	16.2	6.7	10.4	—	—	—	15.0	6.7	3.4
Furnaces	10.4	6.1	9.5	—	—	—	8.7	5.3	3.5
Individual Space Heaters	9.6	5.9	5.4	—	—	—	8.9	5.3	3.0
District Heat	17.8	7.4	8.4	—	—	—	17.0	7.2	4.0
Boilers	11.1	6.1	7.8	—	—	—	9.7	5.2	2.6
Packaged Heating Units	7.0	5.1	4.5	—	—	—	6.4	4.6	2.4
Other	19.6	6.9	13.6	—	—	—	19.8	7.7	4.8
Cooling Equipment (more than one may apply)									
Residential-Type Central									
Air Conditioners	13.6	6.9	13.4	—	—	—	12.0	5.8	3.8
Heat Pumps	14.9	6.6	8.7	—	—	—	13.7	6.8	3.4
Individual Air Conditioners	12.3	6.0	12.1	—	—	—	11.2	5.5	3.1
District Chilled Water	17.7	11.1	12.5	—	—	—	17.4	11.7	3.7
Central Chillers	14.2	5.6	7.4	—	—	—	13.6	5.1	2.6
Packaged Air Conditioning									
Units	6.9	4.5	3.6	—	—	—	5.9	4.0	2.4
Swamp Coolers	21.1	15.1	14.6	—	—	—	21.2	14.5	6.1
Other	40.4	9.7	12.0	—	—	—	37.8	11.3	10.9
Main Equipment Replaced Since 1995 (more than one may apply)									
Heating	10.7	7.3	7.1	—	—	—	9.2	5.4	3.2
Cooling	8.1	5.8	8.6	—	—	—	6.9	4.2	3.3
Lighting Equipment Types (more than one may apply)									
Incandescent	7.1	4.2	5.1	—	—	—	6.2	3.8	2.3
Standard Fluorescent	6.0	3.8	4.1	—	—	—	4.9	3.2	2.0
Compact Fluorescent	9.6	3.9	4.1	—	—	—	8.9	3.9	2.5
High Intensity Discharge	10.0	5.0	4.5	—	—	—	9.5	4.2	2.6
Halogen	11.2	4.5	5.1	—	—	—	10.7	4.4	2.5
Other	33.5	25.0	21.7	—	—	—	33.3	24.9	4.8
Water Heating Equipment									
Centralized System	7.0	3.9	4.4	—	—	—	6.2	3.9	2.1
Distributed System	11.0	7.5	11.5	—	—	—	10.6	6.4	3.1
Combination of Centralized and Distributed System	10.3	7.5	8.1	—	—	—	10.3	5.9	3.7
Commercial Refrigeration Equipment (more than one may apply)									
Any Equipment	7.9	4.7	3.7	—	—	—	6.9	4.6	2.3
Walk-In Units	8.2	5.1	3.2	—	—	—	7.4	5.2	2.4
Cases or Cabinets	8.6	4.8	3.8	—	—	—	7.9	4.7	2.4
None	7.0	5.3	5.1	—	—	—	5.8	4.5	2.1

RSEs for Table C10. Electricity Consumption and Expenditure Intensities, 1999

	RSEs for Electricity Consumption								
		per Square Foot	per Worker	RSEs Not Available for Percentiles					
				25th Percentile	Median	75th Percentile	per Building	per Square Foot	per kWh
Personal Computers									
None	12.9	14.3	18.1	—	—	—	10.0	11.0	4.4
1 to 4	7.6	8.5	11.7	—	—	—	7.9	8.6	3.8
5 to 9	8.6	10.0	8.3	—	—	—	9.5	11.2	4.0
10 to 19	11.2	6.2	12.3	—	—	—	9.2	6.1	4.1
20 to 49	13.4	6.9	9.0	—	—	—	12.8	6.0	3.3
50 to 99	13.2	7.0	8.2	—	—	—	12.7	7.1	2.8
100 to 249	9.2	8.2	7.2	—	—	—	8.0	6.3	3.4
250 or More	8.5	4.2	5.8	—	—	—	8.0	4.4	3.3
Photocopiers									
None	6.9	7.2	8.6	—	—	—	7.1	7.4	2.7
One	8.2	7.4	9.1	—	—	—	8.2	7.3	2.9
2 to 4	9.9	4.5	6.7	—	—	—	8.9	3.6	2.9
5 to 9	24.3	10.6	12.5	—	—	—	23.1	9.1	3.4
10 or More	9.2	3.8	5.0	—	—	—	9.3	4.1	2.8
Other Electronic Equipment (more than one may apply)									
Laser Printers	6.6	3.5	4.2	—	—	—	5.7	3.0	1.9
FAX Machines	7.0	4.1	4.2	—	—	—	6.1	3.5	2.0
Medical Diagnostic Equipment	22.8	4.1	11.0	—	—	—	22.0	5.0	4.0
Annual Consumption (kilowatthours)									
10,000 or Less	6.5	9.7	11.3	—	—	—	7.4	10.6	4.6
10,001 to 50,000	2.4	5.6	14.5	—	—	—	3.6	5.8	2.9
50,001 to 100,000	2.0	5.8	15.8	—	—	—	3.9	5.8	3.8
100,001 to 500,000	4.4	7.8	7.4	—	—	—	5.0	7.9	3.1
500,001 to 1,000,000	2.1	9.3	8.7	—	—	—	3.2	10.1	2.8
1,000,001 to 5,000,000	2.4	4.6	5.0	—	—	—	2.2	4.4	2.0
Over 5,000,000	4.9	5.9	6.0	—	—	—	6.2	5.4	3.4
Provider of Purchased Electricity (more than one may apply)									
Local Utility	5.9	3.5	4.1	—	—	—	4.8	2.8	2.1
Some Other Provider	24.1	14.2	12.9	—	—	—	24.1	15.6	4.5

RSEs for Table C11. Electricity Consumption and Conditional Energy Intensity by Census Region, 1999

	RSEs for Total Electricity Consumption				RSEs for Total Floorspace of Buildings Using Electricity				RSEs for Electricity Energy Intensity			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	10.3	10.6	9.6	8.1	9.7	6.5	5.6	7.4	7.3	7.0	6.2	5.8
Building Floorspace (Square Feet)												
1,001 to 5,000	50.2	26.4	18.1	27.0	27.2	15.1	13.3	15.2	34.4	23.5	13.7	23.2
5,001 to 10,000	39.4	31.5	22.0	23.2	20.3	23.1	18.4	20.0	26.9	27.9	17.7	16.8
10,001 to 25,000	27.4	15.6	12.9	32.1	22.9	14.4	13.0	18.7	23.3	13.2	13.8	20.7
25,001 to 50,000	17.0	12.5	18.9	14.1	23.7	12.8	14.3	9.2	15.2	8.4	9.8	10.1
50,001 to 100,000	22.2	20.0	19.4	14.9	18.0	13.5	13.7	13.8	11.9	12.4	10.8	10.1
100,001 to 200,000	20.8	23.4	19.5	29.1	12.3	11.1	14.3	19.3	15.1	17.6	11.0	21.5
200,001 to 500,000	15.1	16.8	21.3	19.6	17.5	13.0	13.7	12.6	13.6	8.8	12.5	11.8
Over 500,000	24.3	22.1	26.8	22.0	28.0	16.9	23.0	30.4	15.7	12.9	10.7	8.8
Principal Building Activity												
Education	13.5	12.4	12.5	19.3	13.0	12.4	11.9	16.8	7.6	6.3	6.5	19.4
Food Sales	53.1	58.4	26.1	38.1	55.9	49.1	22.0	36.0	19.7	31.7	20.7	12.3
Food Service	69.9	44.6	33.5	50.2	53.4	22.7	35.8	39.8	41.6	29.5	23.6	14.4
Health Care	12.9	16.3	20.2	22.4	16.2	14.7	17.7	19.7	9.2	6.4	7.5	9.0
Inpatient	14.2	18.0	24.6	28.6	17.6	17.4	22.2	24.4	8.3	4.4	6.5	6.7
Outpatient	45.2	38.5	27.2	31.4	42.9	26.1	25.8	27.7	22.5	22.0	10.9	15.9
Lodging	17.7	21.4	21.7	26.1	13.1	14.6	19.9	26.3	11.1	13.1	13.3	14.0
Mercantile	25.3	21.2	15.2	24.7	26.2	23.6	13.1	15.8	14.6	6.5	10.9	16.8
Retail (Other Than Mall)	29.3	24.4	13.5	17.9	27.6	26.3	16.9	17.4	20.3	6.9	13.0	10.3
Enclosed and Strip Malls	34.2	24.9	22.8	38.8	35.9	26.4	17.5	24.7	24.7	11.7	15.0	24.4
Office	16.3	19.1	18.2	20.0	17.6	14.8	12.4	13.8	10.2	15.8	8.3	9.3
Public Assembly	37.3	19.4	19.8	35.5	27.0	18.9	17.6	38.8	27.0	13.1	12.2	13.3
Public Order and Safety	50.5	26.6	34.3	49.0	44.0	26.7	32.0	41.4	32.4	14.2	18.6	41.8
Religious Worship	33.7	22.5	26.8	41.5	30.4	38.2	28.9	35.3	20.1	20.1	11.7	22.2
Service	63.1	37.6	25.6	36.0	44.1	22.3	20.0	33.1	47.9	21.4	16.0	19.5
Warehouse and Storage	26.7	26.6	25.1	29.6	28.2	18.0	16.2	27.0	22.6	17.9	21.4	12.3
Other	45.6	55.3	40.1	60.2	32.1	46.3	34.4	40.9	31.7	31.8	16.6	45.3
Vacant	49.6	66.4	73.9	39.3	40.2	42.0	49.6	37.0	24.1	66.5	52.6	29.3
Year Constructed												
1919 or Before	25.1	50.8	25.6	32.4	20.1	21.5	27.7	32.0	12.4	40.3	15.4	11.4
1920 to 1945	31.5	19.3	19.0	29.0	23.2	16.8	20.2	23.6	24.4	14.5	18.5	22.3
1946 to 1959	26.2	19.2	16.2	24.9	19.4	14.5	16.0	22.1	18.9	14.2	11.7	13.3
1960 to 1969	19.2	22.1	20.3	19.1	17.1	13.5	14.0	10.8	14.2	13.0	13.4	15.1
1970 to 1979	25.5	15.4	10.3	17.7	29.5	15.9	9.5	16.7	15.1	11.0	7.6	11.6
1980 to 1989	28.9	17.4	15.2	17.7	21.7	12.5	9.4	14.0	25.3	15.7	9.4	13.0
1990 to 1999	23.3	18.0	19.4	20.3	20.0	18.0	15.0	14.2	15.0	12.8	8.8	13.5
Climate Zone: 45-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	25.6	23.1	0.0	47.3	24.5	11.0	0.0	17.1	8.1	18.9	0.0	38.8
5,500-7,000 HDD	16.4	15.0	0.0	12.8	14.9	11.4	0.0	14.5	15.7	6.3	0.0	11.5
4,000-5,499 HDD	12.4	20.3	18.4	16.2	11.4	20.9	17.7	22.7	5.8	17.9	12.5	6.9
Fewer than 4,000 HDD	0.0	0.0	18.4	15.0	0.0	0.0	14.1	9.7	0.0	0.0	9.9	8.5
2,000 CDD or More and --												
Fewer than 4,000 HDD	0.0	0.0	12.6	26.0	0.0	0.0	9.9	28.7	0.0	0.0	8.4	18.9
Workers (main shift)												
Fewer than 5	29.5	25.6	19.5	25.5	21.1	15.0	12.0	21.2	36.0	18.7	18.2	17.4
5 to 9	36.4	21.0	15.8	18.1	25.0	16.1	12.9	20.3	30.3	21.2	12.7	12.7
10 to 19	35.9	21.0	18.1	33.5	26.3	22.6	12.8	21.4	36.5	12.7	13.3	27.6
20 to 49	23.3	21.3	15.7	12.1	18.4	13.2	11.9	11.8	9.1	18.5	11.2	9.4
50 to 99	26.2	18.5	17.8	18.7	22.6	12.3	12.8	18.8	9.4	14.5	8.7	12.7
100 to 249	16.4	21.5	21.6	19.9	12.5	16.3	13.0	16.1	11.9	15.4	11.4	12.6
250 or More	15.2	14.7	17.1	15.0	15.0	11.3	15.1	13.3	10.1	8.1	6.2	8.1

RSEs for Table C11. Electricity Consumption and Conditional Energy Intensity by Census Region, 1999

	RSEs for Total Electricity Consumption				RSEs for Total Floorspace of Buildings Using Electricity				RSEs for Electricity Energy Intensity			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Weekly Operating Hours												
39 or Fewer	39.9	19.5	26.3	25.8	23.3	25.9	21.7	27.0	40.6	24.5	23.0	22.8
40 to 48	28.3	16.7	9.5	11.4	21.9	11.5	9.2	15.4	15.0	18.4	6.7	11.3
49 to 60	18.9	19.3	19.9	16.5	18.8	9.7	10.0	15.1	12.4	15.5	13.2	16.9
61 to 84	18.7	15.3	12.0	9.9	20.5	10.3	7.8	11.4	11.8	13.0	6.7	9.9
85 to 167	22.9	18.1	14.2	18.0	14.6	14.0	16.3	15.6	19.4	13.1	15.4	12.8
Open Continuously	17.0	17.6	14.2	15.5	15.0	12.4	12.4	14.4	10.0	10.4	7.4	11.1
Ownership and Occupancy												
Nongovernment Owned	12.2	11.8	10.6	11.1	12.0	8.0	5.6	10.8	7.8	8.2	7.8	6.2
Owner Occupied	14.2	12.2	10.7	11.2	13.5	9.7	5.5	11.8	10.7	9.9	9.4	7.8
Nonowner Occupied	21.6	16.5	14.4	16.8	18.7	10.4	10.4	14.1	8.3	10.6	8.8	10.9
Unoccupied	74.9	74.6	80.2	67.0	58.0	54.1	54.9	54.1	85.3	103.5	59.4	53.9
Government Owned	22.1	21.6	11.7	18.4	14.4	13.5	12.0	13.9	14.9	13.2	7.3	12.8
Federal	51.4	65.3	24.6	34.8	49.3	42.4	22.2	45.4	7.3	48.8	9.4	18.6
State	29.0	39.9	19.6	31.2	27.3	31.3	16.3	25.0	19.8	11.9	9.7	22.5
Local	33.7	19.3	17.3	15.4	17.5	16.3	16.8	16.3	26.1	11.1	11.3	15.0
Vacancy Status												
Completely Vacant	0.0	80.2	80.3	100.0	0.0	56.9	61.3	87.2	0.0	81.7	48.4	99.9
Mostly Vacant	49.6	59.9	71.7	40.8	40.2	63.9	76.6	38.9	24.1	31.6	67.3	31.2
Partially Vacant	22.3	9.9	16.1	16.9	21.3	10.0	13.1	12.9	13.8	6.7	8.5	13.2
Not At All Vacant	11.4	12.8	9.5	9.2	10.9	7.2	5.1	8.1	9.7	9.2	6.9	7.0
Number of Establishments												
One	12.6	10.9	8.4	10.9	10.1	7.5	5.4	10.0	11.0	7.0	7.2	8.1
2 to 5	21.8	29.9	18.0	23.0	17.5	15.1	13.3	18.1	14.1	25.2	13.4	13.6
6 to 10	41.7	22.0	28.0	33.6	33.7	21.1	23.5	22.7	40.1	14.4	9.3	23.1
11 to 20	44.7	25.4	22.8	34.6	51.8	20.3	20.1	38.3	17.4	15.6	8.8	34.3
More than 20	31.4	24.4	17.1	21.6	26.4	21.9	15.7	20.6	24.7	11.2	12.3	10.5
Currently Unoccupied	74.9	59.3	79.9	63.4	58.0	46.4	50.1	52.6	85.3	74.8	63.8	21.1
Energy Sources (more than one may apply)												
Electricity	10.3	10.6	9.6	8.1	9.7	6.5	5.6	7.4	7.3	7.0	6.2	5.8
Natural Gas	11.6	12.9	11.5	9.6	10.1	8.1	9.0	8.8	8.1	9.3	7.3	6.8
Fuel Oil	15.7	20.4	17.0	15.2	13.9	14.8	15.5	16.9	8.9	13.5	10.8	10.9
District Heat	29.7	34.8	27.7	37.2	24.9	26.2	34.0	41.7	18.3	24.1	11.2	19.5
District Chilled Water	45.2	36.4	24.2	32.0	31.5	29.1	24.5	25.3	28.6	25.4	6.9	19.1
Propane	32.7	38.7	26.3	24.0	28.0	26.4	23.2	25.7	30.1	33.9	12.8	7.4
Other	27.6	41.0	20.7	25.9	26.2	35.0	19.4	29.2	21.6	18.4	18.1	14.5
Space-Heating Energy Source												
Electricity	12.4	13.3	9.7	10.3	12.7	8.3	5.8	9.0	9.1	10.4	6.5	9.4
Electricity Main	17.2	22.2	10.4	14.0	18.0	14.5	6.8	12.1	6.0	18.0	7.0	11.0
Electricity Secondary	15.3	15.9	14.6	17.9	12.9	10.5	8.6	14.5	12.6	10.2	11.7	12.3
Other Excluding Electricity	14.3	11.5	13.5	13.4	12.1	7.9	7.8	12.5	11.7	7.8	9.4	7.8
Buildings without Heating	49.4	68.0	25.6	30.9	44.9	47.9	22.7	24.7	54.8	68.6	21.4	24.1
Primary Space-Heating Energy Source												
Electricity	17.2	22.2	10.4	14.0	18.0	14.5	6.8	12.1	6.0	18.0	7.0	11.0
Natural Gas	14.5	11.6	12.6	13.9	12.7	6.9	8.5	12.0	12.2	7.2	10.3	8.4
Fuel Oil	21.3	71.2	37.5	68.1	13.8	64.7	35.1	69.8	13.1	17.9	11.3	58.7
District Heat	21.8	27.0	26.4	25.3	18.8	20.3	24.3	26.6	11.7	17.6	12.1	17.9
Propane	56.2	30.4	33.5	64.3	52.8	44.0	39.7	49.7	52.7	30.4	22.1	39.2
Other	57.7	66.9	18.3	87.0	41.8	72.0	40.4	60.4	12.1	80.3	82.0	90.8

RSEs for Table C11. Electricity Consumption and Conditional Energy Intensity by Census Region, 1999

	RSEs for Total Electricity Consumption				RSEs for Total Floorspace of Buildings Using Electricity				RSEs for Electricity Energy Intensity			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Cooling Energy Source												
Electricity	11.4	11.5	9.5	8.3	11.4	7.4	5.6	9.6	7.2	7.5	6.2	7.0
Other Excluding Electricity	27.0	36.1	21.8	29.6	28.0	27.2	19.1	25.9	12.5	25.7	8.3	18.1
Buildings without Cooling	26.7	27.7	48.1	28.5	25.6	21.3	23.2	21.9	16.3	25.3	43.9	12.2
Water-Heating Energy Source												
Electricity	17.7	20.0	12.8	11.1	18.4	14.6	7.4	9.9	11.1	13.8	8.1	9.7
Other Excluding Electricity	11.9	9.5	12.1	12.6	8.9	7.1	8.6	10.2	9.3	5.6	8.5	8.2
Buildings without Water Heating	32.6	32.4	14.1	18.1	35.4	16.0	11.8	20.1	10.0	26.3	14.3	16.5
Cooking Energy Source												
Electricity	20.0	16.6	13.6	12.8	13.4	14.0	12.1	13.9	16.9	14.1	6.9	8.8
Other Excluding Electricity	17.3	13.0	18.2	16.1	13.7	12.3	13.8	17.3	12.1	10.9	11.5	9.5
Buildings without Cooking	13.0	14.4	9.0	13.6	13.5	9.5	5.9	9.4	9.7	8.5	7.4	9.7
Energy End Uses (more than one may apply)												
Buildings with Space Heating	10.4	10.6	9.8	8.0	10.0	6.4	5.5	7.7	7.2	7.1	6.4	6.2
Buildings with Cooling	10.8	10.9	9.7	8.4	10.6	7.2	5.7	8.3	7.0	7.0	6.1	6.9
Buildings with Water Heating	10.7	10.5	10.2	8.4	9.6	6.0	6.2	7.9	7.0	7.1	6.4	6.5
Buildings with Cooking	13.0	12.1	12.8	11.1	11.1	7.9	10.1	13.1	10.8	9.5	6.2	7.4
Buildings with Manufacturing	45.3	38.2	28.9	37.5	33.1	29.9	21.6	34.9	19.1	30.2	16.1	29.8
Buildings with Electricity Generation	15.5	14.9	16.0	12.5	19.6	12.6	12.2	16.0	9.0	11.9	7.3	9.5
Percent of Floorspace Heated												
Not Heated	49.4	68.0	25.6	30.9	44.9	47.9	22.7	24.7	54.8	68.6	21.4	24.1
1 to 50	21.1	30.7	14.2	27.2	23.4	19.3	12.1	20.8	26.5	20.3	12.4	17.3
51 to 99	15.8	26.8	16.2	14.7	16.3	16.4	11.8	18.9	15.8	19.5	11.8	12.2
100	12.5	11.7	11.6	11.9	11.2	7.0	7.1	11.8	7.3	7.5	6.4	8.0
Percent of Floorspace Cooled												
Not Cooled	26.7	27.7	48.1	28.5	25.6	21.3	23.2	21.9	16.3	25.3	43.9	12.2
1 to 50	16.8	16.7	17.7	20.8	17.7	12.0	11.7	19.7	9.8	9.3	14.6	13.6
51 to 99	14.4	12.4	14.7	16.0	12.3	9.4	10.1	16.4	7.2	9.7	9.1	14.6
100	17.2	16.4	11.8	8.4	19.8	9.6	8.4	7.8	14.5	11.8	5.3	6.6
Percent Lit When Open												
Zero	X	82.6	68.1	87.5	X	73.9	53.6	68.5	X	133.0	42.5	23.9
1 to 50	19.3	24.6	23.3	38.9	24.1	18.6	14.4	18.4	23.2	17.3	24.2	34.1
51 to 99	12.0	14.0	14.5	16.3	8.8	10.2	9.1	15.7	7.3	12.3	10.6	8.2
100	13.9	12.0	9.7	10.8	16.3	8.4	7.9	7.8	10.6	8.9	6.8	6.9
Building Never Open/ Electricity Not Used	52.1	52.1	60.2	53.6	46.8	37.6	46.8	45.2	64.9	56.9	55.0	18.9
Percent Lit When Closed												
Zero	28.4	12.4	10.3	21.3	25.4	10.5	8.8	16.8	11.6	9.4	9.2	12.9
1 to 50	13.3	11.5	12.0	12.1	10.5	8.7	6.4	10.6	9.2	8.6	8.0	9.3
51 to 100	48.0	38.8	27.5	40.6	32.0	31.1	16.5	28.1	29.4	23.6	19.4	26.0
Building Never Closed/ Electricity Not Used	17.0	17.6	14.2	15.5	15.0	12.4	12.4	14.4	10.0	10.4	7.4	11.1
Heating Equipment (more than one may apply)												
Heat Pumps	25.0	28.6	11.0	23.6	19.2	18.8	8.1	13.0	22.1	24.5	8.8	16.3
Furnaces	28.1	15.0	13.0	18.8	22.2	11.5	11.4	22.8	15.9	10.1	7.4	13.6
Individual Space Heaters	15.0	17.1	8.7	15.9	15.0	12.2	7.3	15.8	9.9	11.2	7.9	14.4
District Heat	21.2	25.3	25.2	23.2	18.6	19.2	23.7	25.3	11.3	16.7	11.2	17.0
Boilers	15.3	12.2	17.7	16.5	13.0	9.3	9.9	13.3	9.3	11.3	9.8	12.5
Packaged Heating Units	15.3	15.5	10.6	11.8	12.0	10.7	7.6	9.8	11.6	11.5	8.7	6.7
Other	19.7	20.8	15.9	24.0	23.0	25.3	20.1	20.1	13.9	15.8	8.9	17.4

RSEs for Table C11. Electricity Consumption and Conditional Energy Intensity by Census Region, 1999

	RSEs for Total Electricity Consumption				RSEs for Total Floorspace of Buildings Using Electricity				RSEs for Electricity Energy Intensity			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Cooling Equipment (more than one may apply)												
Residential-Type Central												
Air Conditioners	14.9	11.7	13.6	32.7	17.6	10.4	14.2	22.7	13.7	11.3	8.2	22.1
Heat Pumps	17.5	28.3	10.4	22.2	20.4	21.4	7.5	13.7	16.5	23.4	8.9	14.7
Individual Air Conditioners	18.0	17.4	13.3	13.2	13.9	14.2	10.5	16.1	11.7	8.0	10.3	12.9
District Chilled Water	45.2	36.4	24.2	32.0	31.5	29.1	24.5	25.3	28.6	25.4	6.9	19.1
Central Chillers	15.0	15.7	18.3	15.9	15.1	10.1	14.7	14.6	10.0	11.3	6.3	12.9
Packaged Air Conditioning												
Units	12.7	13.6	10.4	9.0	11.6	8.0	6.0	9.5	8.6	9.6	7.4	6.6
Swamp Coolers	51.5	48.3	47.7	24.2	49.1	43.0	40.4	23.4	18.5	18.4	47.2	17.7
Other	41.4	41.1	28.3	49.8	43.2	39.4	26.8	37.1	24.3	26.0	17.1	18.5
Main Equipment Replaced Since 1995 (more than one may apply)												
Heating	26.7	25.5	13.6	20.1	20.7	16.7	10.9	18.4	19.4	21.5	8.4	13.1
Cooling	18.7	23.2	12.9	15.4	14.2	12.4	9.0	16.9	8.5	15.9	9.3	10.4
Lighting Equipment Types (more than one may apply)												
Incandescent	13.0	10.4	10.6	11.6	11.7	8.4	6.0	10.0	8.1	7.0	6.8	8.8
Standard Fluorescent	10.9	10.2	9.9	8.2	10.2	6.5	5.5	7.9	7.6	7.4	6.1	6.1
Compact Fluorescent	12.1	11.5	16.1	12.8	11.6	8.5	13.0	12.6	6.8	7.1	5.9	8.4
High Intensity Discharge	11.3	13.9	18.6	8.4	10.4	9.1	13.0	14.9	7.2	8.0	7.5	11.2
Halogen	13.1	14.6	11.9	13.9	11.8	9.6	9.2	13.0	7.1	10.2	7.7	10.9
Other	51.3	37.6	40.8	35.4	41.2	44.3	18.5	38.2	21.1	35.0	35.3	18.8
Water Heating Equipment												
Centralized System	14.0	11.7	10.3	13.7	8.9	7.4	8.5	10.6	10.7	7.2	6.7	8.5
Distributed System	23.8	19.9	21.1	13.3	23.1	12.2	10.1	11.3	10.4	12.0	14.5	9.8
Combination of Centralized and Distributed System	17.5	18.7	17.9	17.0	16.8	10.4	12.1	15.7	9.7	16.4	10.8	10.0
Commercial Refrigeration Equipment (more than one may apply)												
Any Equipment	12.8	11.9	12.0	9.6	11.3	7.3	8.8	10.7	9.6	8.7	6.1	8.1
Walk-In Units	13.7	13.0	13.6	12.1	12.5	9.3	11.3	14.7	9.7	9.5	6.2	10.8
Cases or Cabinets	14.5	12.9	11.8	12.0	13.7	7.5	7.8	13.3	11.1	9.3	7.2	7.2
None	14.6	13.9	9.8	11.8	14.0	10.1	5.9	8.6	10.5	8.4	7.7	9.8
Personal Computers												
None	30.7	21.7	28.0	42.0	26.5	20.9	14.9	25.0	21.7	18.7	26.3	32.3
1 to 4	29.2	25.1	13.5	28.9	18.5	14.7	10.6	22.1	32.9	17.8	12.0	13.6
5 to 9	38.1	23.5	18.4	27.4	22.4	21.3	13.4	18.4	31.1	20.5	12.8	19.8
10 to 19	26.5	20.3	14.3	21.8	27.9	23.8	14.2	19.0	15.7	11.6	9.8	10.6
20 to 49	23.4	21.3	19.1	16.0	20.4	18.5	10.2	17.6	7.3	10.7	11.8	9.6
50 to 99	24.3	20.3	17.1	13.1	15.8	16.0	15.8	17.5	14.2	11.0	12.3	11.4
100 to 249	18.9	23.5	23.5	25.0	18.2	16.2	15.3	22.1	9.6	19.6	12.4	11.5
250 or More	16.0	15.5	19.1	18.7	12.7	12.4	17.7	11.3	8.9	8.7	5.7	11.1
Photocopiers												
None	29.0	17.0	14.2	24.6	18.9	11.6	8.9	18.3	26.4	13.4	11.2	11.6
One	27.1	20.2	14.5	16.7	21.1	11.0	12.8	16.5	26.9	16.2	11.1	12.2
2 to 4	17.7	13.8	15.1	18.8	15.1	12.5	9.4	12.8	7.3	8.2	8.3	9.0
5 to 9	11.9	28.6	16.8	18.0	15.7	18.9	13.5	18.9	10.9	22.1	12.6	19.7
10 or More	15.3	13.7	17.6	17.6	15.4	10.3	15.3	13.8	8.4	8.3	6.0	10.2

RSEs for Table C11. Electricity Consumption and Conditional Energy Intensity by Census Region, 1999

	RSEs for Total Electricity Consumption				RSEs for Total Floorspace of Buildings Using Electricity				RSEs for Electricity Energy Intensity			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Other Electronic Equipment (more than one may apply)												
Laser Printers	10.4	10.6	10.4	10.5	10.8	7.1	6.5	8.2	6.4	7.0	5.6	7.2
FAX Machines	10.6	10.9	10.4	9.5	11.1	6.0	5.8	8.2	8.0	7.1	6.4	6.0
Medical Diagnostic Equipment	11.2	16.4	21.5	23.6	15.9	15.5	19.3	20.6	11.1	6.5	7.0	9.4
Annual Consumption (kilowatthours)												
10,000 or Less	34.7	22.9	28.6	33.3	19.2	20.8	31.6	33.7	18.3	11.5	16.7	27.0
10,001 to 50,000	17.3	15.2	14.6	18.8	19.8	17.6	18.3	20.1	13.0	7.4	11.9	9.2
50,001 to 100,000	35.6	23.6	19.4	20.6	34.9	23.6	17.8	20.3	15.5	13.2	9.6	11.0
100,001 to 500,000	25.0	17.2	12.0	12.3	15.7	9.2	6.7	12.5	25.6	13.8	11.5	15.0
500,001 to 1,000,000	28.2	20.9	19.5	18.2	20.1	14.0	15.8	12.6	21.5	20.9	14.5	14.1
1,000,001 to 5,000,000	19.9	15.5	14.5	9.9	15.4	12.4	10.4	7.6	11.1	7.0	7.6	5.0
Over 5,000,000	18.6	18.3	18.6	21.7	20.9	15.2	18.6	20.0	11.1	11.5	6.7	15.7
Provider of Purchased Electricity (more than one may apply)												
Local Utility	11.1	10.9	10.1	6.1	10.0	6.4	5.9	6.8	7.9	7.4	6.3	4.9
Some Other Provider	18.9	41.7	27.2	51.1	19.2	36.4	35.3	35.8	18.1	10.1	28.5	29.4

X=No cases in responding sample reported their consumption for the particular fuel, so relative standard error could not be calculated.

RSEs for Table C12. Electricity Expenditures by Census Region, 1999

	RSEs for Total Electricity Expenditures				RSEs for Electricity Expenditure							
					per kWh				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	11.6	8.7	8.9	8.5	3.4	3.6	2.1	2.4	7.6	5.4	5.4	6.5
Building Floorspace (Square Feet)												
1,001 to 5,000	51.5	23.1	18.2	22.9	5.1	8.4	3.9	5.5	35.4	19.4	13.1	20.2
5,001 to 10,000	41.3	29.0	21.3	22.1	5.1	6.7	5.2	8.7	29.3	22.1	15.7	16.0
10,001 to 25,000	24.2	19.1	13.1	37.8	12.0	6.6	3.5	8.8	15.0	16.5	12.1	27.0
25,001 to 50,000	18.2	11.8	18.0	14.9	6.5	3.8	2.5	2.8	11.9	9.4	8.6	10.6
50,001 to 100,000	22.4	17.2	17.9	16.2	3.9	4.3	3.3	5.3	12.4	9.7	9.0	10.5
100,001 to 200,000	19.5	19.6	20.3	31.3	4.5	6.5	3.4	5.8	13.9	13.3	11.1	22.0
200,001 to 500,000	14.2	18.6	19.7	21.0	11.8	6.3	4.7	6.7	13.4	11.2	12.0	13.5
Over 500,000	24.9	20.7	22.0	25.6	5.8	4.4	5.2	8.1	13.8	11.9	9.8	9.8
Principal Building Activity												
Education	14.7	12.8	12.8	20.7	5.5	4.6	3.3	6.1	7.6	4.4	5.2	19.1
Food Sales	48.4	55.4	26.3	36.7	11.1	25.4	7.9	7.4	28.4	39.6	24.1	16.2
Food Service	68.9	38.9	34.7	48.6	4.4	7.8	5.6	13.0	39.0	25.0	27.0	15.1
Health Care	16.2	14.4	20.5	24.7	6.3	4.3	7.2	5.5	9.6	7.5	10.0	11.5
Inpatient	17.7	16.8	24.6	33.9	6.7	4.0	7.3	8.2	9.1	6.0	11.2	11.2
Outpatient	45.8	35.6	27.7	30.7	5.7	5.1	10.2	5.2	24.5	20.4	10.3	17.2
Lodging	19.4	22.6	23.8	27.4	5.9	4.0	4.4	8.6	14.3	13.2	14.7	14.7
Mercantile	26.8	19.4	15.7	28.6	3.7	5.0	3.0	8.0	14.9	9.5	12.0	21.9
Retail (Other Than Mall)	29.7	22.4	13.6	18.8	6.1	5.0	4.1	7.2	18.5	8.1	11.1	9.8
Enclosed and Strip Malls	33.9	25.5	23.3	43.6	3.8	7.9	4.3	9.7	25.9	15.3	16.1	30.6
Office	19.2	16.3	15.4	19.3	4.9	5.3	3.9	3.6	12.1	11.3	6.4	8.3
Public Assembly	33.4	22.3	18.2	28.4	10.7	7.9	4.9	7.6	21.2	13.6	9.1	15.5
Public Order and Safety	41.9	26.8	32.1	53.5	46.3	14.8	5.0	10.0	22.1	16.6	16.9	45.0
Religious Worship	33.3	23.0	27.0	36.7	8.0	8.0	6.2	21.5	22.9	23.9	10.9	15.8
Service	57.6	31.2	24.2	35.1	19.3	7.6	7.5	9.8	39.1	15.4	14.5	17.2
Warehouse and Storage	25.4	26.2	22.3	30.9	14.4	10.3	4.2	5.7	11.8	15.8	18.7	12.9
Other	48.6	52.0	43.8	61.2	18.6	10.8	11.8	7.4	28.1	25.9	20.0	44.3
Vacant	50.5	53.3	77.8	44.5	25.2	55.6	18.5	18.4	29.3	44.7	60.5	21.2
Year Constructed												
1919 or Before	23.7	40.6	28.6	32.9	7.0	9.1	6.7	9.2	13.9	29.5	16.6	15.5
1920 to 1945	31.9	17.9	18.7	30.6	5.3	4.6	3.0	12.0	23.7	12.7	17.3	26.4
1946 to 1959	25.6	19.2	17.0	21.1	10.6	3.4	5.5	8.1	19.4	13.6	11.3	12.1
1960 to 1969	23.2	20.4	19.8	19.5	5.7	5.2	5.1	4.3	17.0	11.3	13.2	14.6
1970 to 1979	26.4	13.5	9.3	15.2	3.7	4.8	3.7	5.7	15.8	11.9	7.0	10.0
1980 to 1989	31.6	15.5	13.9	20.6	5.0	7.7	3.2	6.0	27.3	14.5	7.8	16.4
1990 to 1999	20.1	18.4	19.4	21.4	8.4	8.3	2.8	2.8	12.8	10.1	8.9	14.5
Climate Zone: 45-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	27.8	20.2	0.0	46.0	4.2	5.2	0.0	5.7	7.2	15.6	0.0	35.1
5,500-7,000 HDD	16.5	11.5	0.0	8.1	4.4	5.9	0.0	6.9	14.4	5.3	0.0	9.0
4,000-5,499 HDD	15.0	19.4	17.7	14.8	5.4	4.3	3.7	7.3	8.1	14.9	12.3	12.8
Fewer than 4,000 HDD	0.0	0.0	17.4	13.8	0.0	0.0	3.4	3.1	0.0	0.0	7.7	7.0
2,000 CDD or More and --												
Fewer than 4,000 HDD	0.0	0.0	11.4	25.8	0.0	0.0	2.9	5.3	0.0	0.0	8.0	19.6
Workers (main shift)												
Fewer than 5	23.2	22.4	17.7	21.4	7.7	10.2	4.2	6.1	28.2	14.8	16.5	15.4
5 to 9	39.6	18.0	14.8	17.4	5.8	5.1	6.5	6.4	32.4	19.3	9.1	15.0
10 to 19	36.1	20.2	16.1	39.4	7.7	7.4	3.9	11.1	35.4	13.3	11.1	35.3
20 to 49	26.5	21.7	16.4	14.0	5.0	4.9	3.8	4.2	11.0	17.4	11.8	9.8
50 to 99	25.8	15.7	19.0	17.0	4.8	5.5	3.8	5.8	10.9	11.1	8.7	13.7
100 to 249	14.7	19.2	20.9	19.0	4.2	4.9	3.0	6.8	10.2	13.7	10.8	13.2
250 or More	15.8	12.7	16.1	16.4	8.0	5.2	4.5	3.2	10.0	5.7	6.9	8.7

RSEs for Table C12. Electricity Expenditures by Census Region, 1999

	RSEs for Total Electricity Expenditures				RSEs for Electricity Expenditure							
					per kWh				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Weekly Operating Hours												
39 or Fewer	37.7	18.3	24.4	24.7	5.1	9.3	6.9	10.9	37.6	20.5	19.8	20.8
40 to 48	26.4	15.3	10.2	11.1	6.3	5.9	2.7	5.3	13.4	16.8	6.9	9.9
49 to 60	22.6	15.0	18.0	17.4	6.5	5.2	4.3	4.7	14.4	11.4	11.2	15.7
61 to 84	18.6	13.0	12.1	10.5	4.0	6.4	2.9	6.5	13.6	9.6	7.2	10.4
85 to 167	23.7	16.7	14.7	23.6	5.6	4.8	2.2	9.3	20.4	14.4	15.6	18.8
Open Continuously	17.2	16.9	13.7	16.8	4.3	5.9	3.0	3.6	10.4	8.8	7.6	12.0
Ownership and Occupancy												
Nongovernment Owned	13.8	9.5	9.6	10.9	4.2	4.2	2.2	3.2	8.5	6.4	6.8	7.3
Owner Occupied	15.6	10.4	9.3	11.7	5.3	3.8	2.7	3.7	11.8	8.2	7.9	10.1
Nonowner Occupied	21.8	14.4	14.3	15.3	3.5	6.9	2.8	4.4	8.4	11.1	8.8	9.1
Unoccupied	71.5	54.0	83.8	68.3	16.0	108.8	22.7	10.8	78.1	58.3	68.0	56.7
Government Owned	21.2	20.0	12.1	16.9	5.7	3.5	2.8	6.1	14.0	10.7	7.5	11.5
Federal	53.9	61.8	24.1	31.5	5.1	3.2	3.8	8.7	8.9	46.6	10.0	22.4
State	27.9	42.2	19.2	29.4	4.6	3.5	3.2	11.1	17.3	11.9	8.8	25.5
Local	29.1	18.1	17.6	17.7	10.9	5.4	3.9	5.8	21.5	9.0	12.0	14.4
Vacancy Status												
Completely Vacant	0.0	66.2	83.9	95.7	0.0	101.5	22.5	2133.4	0.0	55.3	59.2	68.6
Mostly Vacant	50.5	57.9	75.3	47.0	25.2	7.3	16.4	20.2	29.3	24.8	68.3	22.7
Partially Vacant	21.1	9.8	12.4	18.9	4.5	4.4	4.9	5.7	11.8	7.1	7.1	15.5
Not At All Vacant	12.8	10.8	9.2	9.9	4.2	3.9	1.9	2.4	9.7	7.3	6.3	7.9
Number of Establishments												
One	13.8	9.4	7.7	12.1	4.5	4.0	2.3	3.0	10.8	6.4	6.2	9.3
2 to 5	23.0	24.6	17.8	21.4	6.9	10.0	3.6	4.9	14.4	18.6	12.3	12.7
6 to 10	29.0	22.6	25.3	38.0	31.5	6.8	7.2	9.5	22.9	17.9	9.2	28.0
11 to 20	42.3	23.6	22.1	38.6	6.6	5.3	5.1	13.7	22.8	14.0	8.9	34.1
More than 20	28.3	24.4	18.5	21.6	9.4	7.2	4.2	6.5	19.9	15.7	13.6	9.0
Currently Unoccupied	71.5	46.6	83.5	59.8	16.0	43.9	22.0	9.2	78.1	44.6	71.1	23.4
Energy Sources (more than one may apply)												
Electricity	11.6	8.7	8.9	8.5	3.4	3.6	2.1	2.4	7.6	5.4	5.4	6.5
Natural Gas	12.8	11.0	10.8	10.4	3.6	4.3	2.8	2.5	9.6	6.9	6.1	7.7
Fuel Oil	15.6	19.2	16.3	17.6	7.2	6.7	3.6	4.8	6.9	11.6	9.4	11.3
District Heat	29.1	33.1	27.3	35.9	7.4	4.5	5.3	9.8	14.0	20.4	15.8	26.7
District Chilled Water	47.2	35.4	22.8	32.2	10.4	4.0	4.3	6.7	29.0	22.2	9.0	22.1
Propane	33.9	38.7	29.6	26.9	3.3	8.6	5.0	10.6	29.5	33.8	15.0	12.5
Other	28.5	38.3	22.2	31.7	12.4	6.3	7.3	13.2	19.9	16.3	18.4	17.6
Space-Heating Energy Source												
Electricity	14.6	11.1	9.1	11.0	5.7	4.1	2.2	2.8	9.4	8.8	6.1	9.1
Electricity Main	22.8	20.2	9.6	14.6	8.4	6.2	2.2	4.3	10.5	17.0	7.0	10.0
Electricity Secondary	17.5	13.8	13.9	20.4	6.8	4.0	4.1	3.9	13.6	8.4	10.5	14.2
Other Excluding Electricity	14.7	10.0	12.9	12.0	3.1	4.9	2.8	3.5	10.8	5.4	8.1	8.7
Buildings without Heating	51.7	57.8	26.6	29.4	20.5	10.7	5.4	9.3	53.1	59.7	21.4	20.5
Primary Space-Heating Energy Source												
Electricity	22.8	20.2	9.6	14.6	8.4	6.2	2.2	4.3	10.5	17.0	7.0	10.0
Natural Gas	14.8	9.6	12.6	12.8	4.9	4.4	2.7	3.7	11.8	4.9	9.2	8.3
Fuel Oil	20.8	71.5	35.9	70.6	6.1	1.1	3.4	11.3	10.4	18.7	9.7	64.2
District Heat	22.4	23.8	23.3	26.5	6.1	6.0	4.3	7.5	10.9	12.9	10.9	22.5
Propane	56.0	31.3	36.7	64.5	1.3	6.3	5.6	9.6	52.2	30.4	22.4	40.3
Other	50.2	68.6	29.6	91.0	5.1	25.4	12.2	32.9	7.5	39.9	102.8	100.8

RSEs for Table C12. Electricity Expenditures by Census Region, 1999

	RSEs for Total Electricity Expenditures				RSEs for Electricity Expenditure							
					per kWh				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Cooling Energy Source												
Electricity	12.8	9.4	8.9	9.2	3.6	4.0	2.0	2.3	7.8	6.2	5.4	7.9
Other Excluding Electricity	26.5	32.8	20.5	27.6	4.3	7.7	6.3	5.6	14.5	21.8	9.0	19.4
Buildings without Cooling	25.5	26.2	51.4	27.2	6.3	4.9	9.9	8.1	12.4	22.6	47.8	12.3
Water-Heating Energy Source												
Electricity	18.4	18.1	11.5	13.7	5.4	5.0	2.4	3.8	12.0	12.2	6.8	12.1
Other Excluding Electricity	12.8	8.4	11.2	13.2	3.0	4.3	2.9	3.2	10.1	3.9	7.1	8.4
Buildings without Water Heating	32.8	26.4	13.6	17.4	5.4	6.4	3.4	5.2	10.8	20.4	13.0	13.1
Cooking Energy Source												
Electricity	22.6	15.0	12.9	14.6	6.4	3.4	2.7	5.0	19.5	12.8	7.3	9.1
Other Excluding Electricity	17.4	13.8	19.1	17.4	5.5	7.6	3.0	5.4	11.4	9.3	12.3	11.8
Buildings without Cooking	14.6	11.9	8.3	13.6	3.9	4.1	2.2	3.2	9.5	5.8	6.4	9.6
Energy End Uses (more than one may apply)												
Buildings with Space Heating	11.7	8.7	9.0	8.4	3.4	3.6	2.2	2.4	7.5	5.4	5.4	7.0
Buildings with Cooling	12.2	9.0	8.9	9.2	3.4	3.7	2.1	2.2	7.6	5.8	5.3	7.3
Buildings with Water Heating	11.8	8.6	9.4	8.9	3.4	3.9	2.2	2.5	7.8	5.6	5.4	7.4
Buildings with Cooking	14.0	11.2	12.5	11.3	4.1	3.8	2.3	3.8	11.9	8.4	5.9	8.3
Buildings with Manufacturing	43.9	33.1	27.0	36.5	9.9	9.7	8.6	14.9	14.5	24.5	14.3	23.3
Buildings with Electricity Generation	17.1	13.4	16.0	14.9	4.5	5.2	2.1	4.2	9.5	10.7	7.5	9.2
Percent of Floorspace Heated												
Not Heated	51.7	57.8	26.6	29.4	20.5	10.7	5.4	9.3	53.1	59.7	21.4	20.5
1 to 50	19.6	31.6	13.0	32.1	11.8	9.6	3.2	9.0	17.0	17.4	11.1	21.7
51 to 99	14.6	24.4	15.0	15.7	8.8	4.7	3.3	3.4	11.9	17.2	10.6	11.7
100	13.7	9.6	11.2	11.7	3.5	4.1	2.2	3.5	8.1	5.6	5.6	9.7
Percent of Floorspace Cooled												
Not Cooled	25.5	26.2	51.4	27.2	6.3	4.9	9.9	8.1	12.4	22.6	47.8	12.3
1 to 50	20.6	16.6	16.2	25.0	7.5	5.0	4.0	7.1	7.5	8.4	12.4	17.6
51 to 99	17.5	11.0	13.8	17.0	5.5	3.6	3.0	4.1	9.3	8.5	7.7	14.7
100	17.7	13.2	11.3	9.1	4.3	6.4	2.0	2.9	15.1	9.7	5.0	6.3
Percent Lit When Open												
Zero	X	76.9	67.3	85.0	X	12.1	1.7	2.5	X	106.8	40.6	21.0
1 to 50	19.2	24.5	20.7	43.4	8.4	8.3	4.2	7.6	20.6	16.3	21.3	38.8
51 to 99	15.4	12.2	13.1	15.9	5.8	4.1	3.6	4.3	10.7	9.9	8.3	10.4
100	15.1	9.4	9.0	11.3	3.8	4.6	2.1	3.2	10.3	6.1	6.1	7.7
Building Never Open/ Electricity Not Used	50.7	41.1	58.9	51.5	8.7	34.1	19.1	8.9	61.4	33.5	52.0	19.5
Percent Lit When Closed												
Zero	31.3	12.0	8.9	22.5	4.6	3.4	3.2	5.0	11.4	7.1	8.2	14.4
1 to 50	14.4	9.6	11.0	11.9	3.4	3.9	2.6	3.2	10.9	8.0	6.9	8.3
51 to 100	44.9	35.5	29.1	43.2	16.5	7.6	5.1	10.3	22.8	19.4	22.0	28.6
Building Never Closed/ Electricity Not Used	17.2	16.9	13.7	16.8	4.3	5.9	3.0	3.6	10.4	8.8	7.6	12.0
Heating Equipment (more than one may apply)												
Heat Pumps	22.4	23.6	11.0	28.6	6.7	10.7	3.3	9.0	19.8	18.2	8.6	21.8
Furnaces	24.4	15.5	12.4	22.3	10.8	6.3	3.4	6.8	10.3	8.7	6.4	17.5
Individual Space Heaters	16.7	14.6	7.3	17.0	6.2	4.5	3.5	3.5	8.5	8.9	6.2	16.1
District Heat	21.9	22.2	22.5	23.7	5.8	5.6	4.1	7.1	10.8	12.3	10.3	20.9
Boilers	15.6	10.4	18.1	17.4	4.9	4.2	2.9	4.0	9.8	8.4	9.4	12.8
Packaged Heating Units	16.8	13.7	9.6	10.8	5.5	5.5	2.5	4.0	13.5	10.9	7.2	5.3
Other	28.1	24.8	14.1	27.1	21.0	7.3	3.8	5.6	21.7	15.5	9.6	17.0

RSEs for Table C12. Electricity Expenditures by Census Region, 1999

	RSEs for Total Electricity Expenditures				RSEs for Electricity Expenditure							
					per kWh				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Cooling Equipment (more than one may apply)												
Residential-Type Central												
Air Conditioners	15.9	10.5	14.0	32.6	6.3	7.4	5.9	4.7	11.0	10.1	7.0	20.9
Heat Pumps	13.4	23.7	10.4	26.4	8.5	9.8	3.3	8.1	14.9	17.6	8.6	19.9
Individual Air Conditioners	17.3	16.4	12.4	16.5	5.7	4.3	4.1	7.8	9.8	7.7	8.1	14.9
District Chilled Water	47.2	35.4	22.8	32.2	10.4	4.0	4.3	6.7	29.0	22.2	9.0	22.1
Central Chillers	16.0	13.7	19.1	17.6	6.0	4.5	3.5	3.6	10.6	9.4	6.5	13.4
Packaged Air Conditioning												
Units	14.2	10.5	9.2	9.0	3.8	5.5	2.6	2.6	10.2	8.1	5.7	6.9
Swamp Coolers	51.9	53.8	42.6	24.5	4.7	12.4	13.2	6.9	18.5	24.5	42.8	18.3
Other	46.1	43.3	27.2	48.6	43.4	9.8	5.2	18.5	24.5	26.7	16.6	13.6
Main Equipment Replaced Since 1995 (more than one may apply)												
Heating	24.8	21.6	11.9	19.5	9.1	7.0	3.0	5.3	14.5	16.4	7.1	12.8
Cooling	19.5	20.5	10.6	15.9	3.8	4.0	3.6	6.6	9.4	13.3	6.7	11.6
Lighting Equipment Types (more than one may apply)												
Incandescent	14.5	9.0	9.2	12.7	3.6	4.3	2.4	3.2	9.8	5.3	5.8	10.3
Standard Fluorescent	12.3	8.2	9.1	8.8	3.5	3.9	2.1	2.4	8.0	5.4	5.3	6.8
Compact Fluorescent	14.8	10.3	16.1	13.0	4.9	2.6	3.1	4.1	9.6	6.6	5.8	8.9
High Intensity Discharge	12.7	11.9	18.4	8.9	6.2	3.8	2.1	4.0	6.9	6.9	7.7	11.8
Halogen	16.0	13.3	10.9	14.0	6.0	4.3	1.9	3.5	10.1	9.8	7.4	10.6
Other	50.2	46.4	43.4	35.1	5.4	30.1	8.7	9.7	18.6	10.4	38.2	22.8
Water Heating Equipment												
Centralized System	14.5	9.3	9.8	14.3	3.7	4.4	2.1	2.8	10.8	5.6	5.7	9.2
Distributed System	22.2	19.7	20.3	17.4	4.0	6.5	3.1	5.7	8.4	11.2	13.5	13.3
Combination of Centralized and Distributed System	19.3	15.9	16.5	18.4	10.2	6.2	3.0	5.8	7.8	13.7	10.2	12.0
Commercial Refrigeration Equipment (more than one may apply)												
Any Equipment	13.9	10.7	11.9	10.3	4.5	4.3	2.2	4.0	10.8	7.5	6.0	9.8
Walk-In Units	15.5	12.0	13.6	12.9	4.7	4.6	2.6	5.1	11.5	8.9	6.1	12.9
Cases or Cabinets	15.7	11.1	11.7	12.5	4.2	3.8	2.6	4.7	12.1	7.7	7.2	10.2
None	16.2	12.5	8.9	11.6	4.1	4.1	2.4	2.9	10.8	6.0	6.4	9.5
Personal Computers												
None	30.6	20.9	24.4	33.9	8.1	6.9	4.9	15.4	22.3	16.1	22.3	25.4
1 to 4	29.0	23.3	13.0	32.0	6.8	8.6	4.0	10.2	31.2	14.8	11.2	18.9
5 to 9	44.8	23.2	19.4	22.3	11.8	4.5	3.3	7.2	38.6	20.8	13.6	16.6
10 to 19	28.8	19.7	16.2	22.1	5.3	4.7	4.4	8.7	13.8	12.0	10.1	11.9
20 to 49	23.8	19.0	20.4	17.1	5.4	6.3	4.3	4.9	9.0	5.9	12.5	8.5
50 to 99	24.5	23.1	16.9	12.4	5.2	7.5	4.1	3.2	15.0	12.6	10.4	12.8
100 to 249	19.1	19.9	22.0	22.2	4.6	5.6	3.4	6.2	9.2	16.3	11.5	12.8
250 or More	17.3	14.1	17.7	19.3	7.4	3.2	5.1	4.0	8.6	7.8	6.4	11.0
Photocopiers												
None	29.7	15.7	13.5	25.1	3.4	5.0	2.8	4.8	26.8	11.8	10.8	13.0
One	26.9	18.7	14.5	16.6	8.6	4.9	3.5	3.6	24.6	14.7	10.0	13.3
2 to 4	18.7	12.4	13.9	15.1	3.8	5.8	2.7	6.2	8.4	8.0	6.9	6.4
5 to 9	13.1	26.0	17.4	18.9	6.1	9.4	3.5	4.2	9.6	17.2	12.3	19.2
10 or More	16.5	12.2	15.6	19.3	5.4	3.2	3.9	3.7	8.1	7.5	6.2	11.3

RSEs for Table C12. Electricity Expenditures by Census Region, 1999

	RSEs for Total Electricity Expenditures				RSEs for Electricity Expenditure							
					per kWh				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Other Electronic Equipment (more than one may apply)												
Laser Printers	11.5	8.4	9.6	10.8	3.6	3.3	2.2	2.4	6.3	5.7	5.1	7.7
FAX Machines	11.7	8.8	9.5	10.0	3.4	3.4	2.1	2.8	8.1	5.5	5.5	7.0
Medical Diagnostic Equipment	11.2	14.5	22.3	25.9	4.6	4.3	7.8	5.8	11.5	7.2	9.6	12.3
Annual Consumption (kilowatthours)												
10,000 or Less	37.9	25.8	28.4	34.5	4.0	10.7	4.3	8.3	21.4	11.4	16.2	24.7
10,001 to 50,000	18.8	15.7	14.9	21.3	4.8	5.3	3.6	7.0	10.6	10.5	12.2	11.0
50,001 to 100,000	39.7	23.7	20.8	21.5	7.2	4.4	5.7	5.6	14.3	14.0	8.8	13.0
100,001 to 500,000	25.6	17.4	11.0	11.9	3.4	5.8	3.6	5.6	25.8	12.6	9.6	13.2
500,001 to 1,000,000	25.9	19.4	21.0	22.4	8.5	3.8	2.4	7.9	16.3	19.9	16.0	19.3
1,000,001 to 5,000,000	18.4	14.5	14.6	9.6	4.3	2.7	2.7	4.3	11.2	6.5	7.4	5.5
Over 5,000,000	19.2	16.8	17.5	24.3	7.2	5.7	3.3	5.1	8.8	9.5	8.3	18.8
Provider of Purchased Electricity (more than one may apply)												
Local Utility	12.2	9.0	9.3	6.8	3.8	3.8	2.3	2.7	7.8	5.7	5.5	5.7
Some Other Provider	23.2	41.0	27.6	52.2	7.5	8.5	6.0	5.2	21.6	11.7	30.9	31.0

X=No cases in responding sample reported their consumption for the particular fuel, so relative standard error could not be calculated.

RSEs for Table C13. Electricity Consumption and Conditional Energy Intensity, 1999

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
All Buildings	10.4	7.5	7.1	7.5	5.9	5.9	8.5	4.2	4.4
Principal Building Activity									
Education	24.0	11.0	10.6	25.6	9.0	10.9	16.7	7.6	9.3
Food Sales	30.6	27.1	85.8	23.4	26.6	63.6	22.9	6.0	71.7
Food Service	24.6	38.7	89.9	20.0	41.2	89.8	15.5	14.1	1.2
Health Care	29.7	19.3	13.3	24.3	21.4	11.5	15.5	9.7	4.5
Inpatient	0.0	33.8	13.8	0.0	34.4	11.9	0.0	18.6	4.7
Outpatient	29.7	23.3	40.3	24.3	23.9	37.6	15.5	10.1	13.2
Lodging	43.7	14.9	22.4	29.3	14.1	19.6	35.5	7.1	14.9
Mercantile	20.5	18.0	13.5	20.0	16.4	13.8	13.0	10.6	9.5
Retail (Other Than Mall)	22.0	17.6	20.4	21.3	18.7	21.0	15.3	11.6	9.6
Enclosed and Strip Malls	48.6	23.3	16.7	49.1	21.0	15.6	13.4	11.7	12.6
Office	17.7	19.8	12.9	15.3	14.5	10.8	12.6	9.1	7.6
Public Assembly	31.3	15.4	26.3	28.3	16.0	19.8	17.3	8.0	17.6
Public Order and Safety	40.4	28.8	45.9	43.4	29.3	42.0	38.9	13.6	17.9
Religious Worship	30.5	24.6	24.2	25.0	21.9	39.2	15.4	14.2	49.5
Service	23.5	27.5	52.3	17.9	20.8	51.1	17.5	23.5	7.3
Warehouse and Storage	53.0	12.8	19.8	21.9	14.8	15.2	42.3	9.4	13.0
Other	65.1	33.2	30.0	34.2	21.8	29.6	51.4	23.4	17.3
Vacant	62.3	51.4	66.5	37.1	25.0	55.3	51.8	47.3	42.5
Year Constructed									
1919 or Before	19.0	16.5	61.9	18.1	13.5	31.0	12.1	11.7	40.9
1920 to 1945	22.7	17.3	24.9	18.9	18.1	21.2	16.5	12.6	14.6
1946 to 1959	17.3	14.9	18.6	15.6	12.0	14.9	12.7	12.5	10.4
1960 to 1969	24.0	17.6	11.7	15.4	11.8	9.6	18.4	11.4	8.7
1970 to 1979	20.3	10.3	14.1	15.2	9.2	15.5	14.6	6.8	8.2
1980 to 1989	24.7	11.3	14.2	14.1	9.5	10.5	20.7	7.7	10.6
1990 to 1999	26.8	13.1	12.7	22.0	10.2	10.0	20.6	9.0	6.4
Census Region and Division									
Northeast	32.8	16.0	13.5	15.6	17.0	14.3	25.6	10.3	8.9
New England	32.4	20.2	30.2	27.2	19.8	35.6	14.8	10.8	15.8
Middle Atlantic	40.8	19.7	13.4	17.2	22.1	10.4	33.7	13.9	9.9
Midwest	24.5	11.5	12.4	16.7	7.6	7.3	20.9	6.5	7.9
East North Central	32.1	13.9	16.5	23.3	8.0	8.9	28.6	7.7	11.0
West North Central	30.8	18.4	20.0	24.6	13.3	12.8	30.8	11.9	11.2
South	12.5	11.9	15.3	9.0	9.0	11.6	11.7	7.5	7.4
South Atlantic	20.9	20.7	19.4	10.4	14.1	12.4	20.0	11.0	10.5
East South Central	23.6	20.8	19.5	26.0	15.5	22.4	30.5	13.3	16.6
West South Central	21.2	9.5	31.5	15.5	13.5	28.1	14.5	13.7	6.0
West	18.7	10.5	13.8	15.9	8.5	11.1	12.2	6.7	8.2
Mountain	36.9	14.5	25.6	29.7	18.8	20.4	32.8	10.4	7.3
Pacific	21.4	14.1	18.0	17.5	8.8	16.3	12.7	7.7	10.3
Climate Zone: 45-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	28.9	13.1	23.9	16.7	10.1	15.0	23.0	7.8	18.9
5,500-7,000 HDD	28.8	12.8	10.9	15.7	12.0	9.0	24.8	7.0	7.3
4,000-5,499 HDD	21.9	13.6	10.5	18.4	12.2	9.2	18.8	7.4	6.9
Fewer than 4,000 HDD	18.8	14.6	21.8	17.2	11.5	18.4	13.0	8.7	6.4
2,000 CDD or More and --									
Fewer than 4,000 HDD	18.1	15.0	19.3	16.1	13.7	13.0	14.4	7.2	15.3

RSEs for Table C13. Electricity Consumption and Conditional Energy Intensity, 1999

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
Workers (main shift)									
Fewer than 5	15.4	16.4	39.1	9.2	12.5	32.8	14.1	13.3	31.8
5 to 9	17.1	16.7	45.5	13.0	14.1	36.8	14.1	14.6	18.1
10 to 19	20.9	14.2	33.8	16.5	12.6	21.4	18.3	11.2	43.8
20 to 49	29.0	8.3	21.2	23.4	7.1	16.9	14.8	6.3	14.0
50 to 99	58.9	12.6	15.6	71.9	10.6	17.0	47.5	7.0	5.5
100 to 249	66.5	19.5	12.7	72.5	14.4	9.3	16.1	8.6	10.1
250 or More	0.0	22.1	8.9	0.0	21.3	7.9	0.0	9.0	3.9
Weekly Operating Hours									
39 or Fewer	25.3	24.5	37.0	16.9	22.9	28.7	19.3	23.2	22.7
40 to 48	14.7	9.4	19.6	11.7	9.1	19.0	11.8	7.6	14.2
49 to 60	23.0	11.1	18.0	13.8	10.3	15.8	19.2	7.2	11.5
61 to 84	21.4	11.1	11.8	22.6	10.2	10.8	13.1	7.8	8.6
85 to 167	24.9	12.3	11.1	18.0	10.4	12.0	16.6	8.3	6.6
Open Continuously	29.4	14.3	10.1	15.4	10.2	9.3	24.6	8.0	5.3
Ownership and Occupancy									
Nongovernment Owned	11.0	8.4	8.1	8.3	7.0	7.4	9.6	4.8	5.4
Owner Occupied	13.7	8.5	8.8	9.9	7.6	9.3	11.4	6.2	5.6
Nonowner Occupied	20.0	11.6	13.6	14.1	9.8	9.7	16.5	7.0	8.9
Unoccupied	90.6	58.7	84.9	57.4	31.8	64.1	100.8	54.3	89.7
Government Owned	20.4	10.5	13.9	21.0	8.0	9.5	23.3	6.6	8.9
Federal	57.9	29.3	24.9	38.8	25.8	25.2	73.6	23.1	16.1
State	43.8	17.6	21.3	43.5	12.9	19.7	24.1	10.6	9.4
Local	24.9	11.2	21.3	26.2	11.6	13.1	23.6	8.0	14.8
Vacancy Status									
Completely Vacant	97.0	63.3	79.7	76.0	35.2	71.0	90.8	55.8	23.9
Mostly Vacant	35.7	47.2	69.9	39.6	36.1	62.6	25.7	36.5	42.0
Partially Vacant	21.9	12.1	13.1	21.5	10.3	13.5	12.1	9.5	6.8
Not At All Vacant	11.0	7.7	8.4	7.9	5.9	4.8	9.9	5.1	5.8
Number of Establishments									
One	11.1	6.9	8.3	7.8	6.3	5.4	9.5	5.0	5.4
2 to 5	16.3	14.9	18.0	17.0	10.7	13.4	8.1	11.0	16.2
6 to 10	27.7	24.3	27.8	33.1	17.5	23.7	38.9	13.7	12.0
11 to 20	98.3	22.5	18.0	66.2	22.4	19.5	97.8	18.7	9.8
More than 20	99.1	33.2	12.8	99.1	27.2	11.8	0.0	18.1	9.4
Currently Unoccupied	79.3	57.0	78.9	51.4	29.1	53.5	80.5	53.7	72.5
Energy Sources (more than one may apply)									
Electricity	10.4	7.5	7.1	7.5	5.9	5.9	8.5	4.2	4.4
Natural Gas	14.1	9.0	8.0	10.8	6.5	7.2	10.8	5.9	4.6
Fuel Oil	33.5	21.9	10.3	30.3	15.2	7.9	12.7	15.5	6.3
District Heat	69.0	30.2	22.2	76.2	20.6	18.4	60.8	24.3	12.6
District Chilled Water	77.5	27.6	21.7	65.1	18.3	17.0	62.3	21.5	11.4
Propane	37.9	20.4	15.5	22.9	19.4	14.6	32.1	11.8	11.6
Other	50.7	18.0	27.9	32.9	20.9	24.7	38.2	18.0	8.3
Space-Heating Energy Source									
Electricity	15.5	9.2	9.1	10.0	6.8	7.6	12.5	5.7	6.7
Electricity Main	21.5	10.2	11.3	13.6	8.1	10.3	18.9	5.2	9.7
Electricity Secondary	22.0	15.9	11.8	13.2	10.1	8.9	17.8	10.3	7.7
Other Excluding Electricity	14.7	9.1	8.7	10.6	8.1	7.0	13.7	7.0	4.7
Buildings without Heating	28.5	25.3	37.1	22.1	23.6	30.9	25.1	25.2	30.2

RSEs for Table C13. Electricity Consumption and Conditional Energy Intensity, 1999

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
Primary Space-Heating									
Energy Source									
Electricity	21.5	10.2	11.3	13.6	8.1	10.3	18.9	5.2	9.7
Natural Gas	13.3	11.2	8.1	10.6	7.3	7.0	12.2	7.3	5.0
Fuel Oil	34.0	21.5	26.6	29.5	18.7	23.3	15.0	11.6	13.3
District Heat	52.3	20.1	16.1	56.6	15.8	13.3	48.7	16.5	8.3
Propane	50.3	32.9	74.1	27.9	38.4	71.1	49.3	21.4	60.2
Other	69.1	24.9	54.2	76.7	49.4	46.1	22.2	65.2	20.9
Cooling Energy Source									
Electricity	10.5	8.0	7.0	8.9	6.4	7.0	9.2	4.5	4.5
Other Excluding Electricity	44.6	27.4	23.9	42.6	19.5	16.1	42.7	21.6	12.9
Buildings without Cooling	26.9	14.8	35.2	12.9	16.0	29.8	22.0	14.3	27.4
Water-Heating Energy Source									
Electricity	14.5	10.8	11.3	10.3	8.6	10.4	13.0	6.5	7.2
Other Excluding Electricity	16.0	9.0	7.5	13.1	7.0	6.1	13.2	5.4	4.4
Buildings without Water Heating	15.7	16.6	29.1	13.3	15.2	19.9	12.8	14.4	25.6
Cooking Energy Source									
Electricity	22.7	11.7	9.9	17.9	12.5	8.7	16.3	5.7	4.9
Other Excluding Electricity	33.5	13.3	11.7	26.0	11.7	10.7	31.4	9.0	9.1
Buildings without Cooking	10.0	9.5	11.4	7.5	7.1	7.2	8.7	5.6	8.7
Energy End Uses (more than one may apply)									
Buildings with Space Heating	10.9	7.7	7.1	8.2	5.9	5.9	9.3	4.5	4.4
Buildings with Cooling	10.9	7.7	7.3	8.8	6.2	6.6	9.6	4.3	4.6
Buildings with Water Heating	11.3	7.6	7.0	9.3	5.8	6.2	9.9	4.3	4.3
Buildings with Cooking	18.8	10.2	8.7	15.1	8.5	8.4	16.1	5.0	4.8
Buildings with Manufacturing	42.1	18.8	31.2	32.1	18.1	24.3	31.9	14.6	17.7
Buildings with Electricity Generation	62.2	17.4	9.5	41.6	12.5	10.0	25.0	9.9	5.9
Percent of Floorspace Heated									
Not Heated	28.5	25.3	37.1	22.1	23.6	30.9	25.1	25.2	30.2
1 to 50	19.5	22.5	19.7	18.6	15.0	13.5	11.3	14.8	16.2
51 to 99	30.1	17.7	15.5	16.9	13.0	13.0	25.7	12.2	10.9
100	11.4	7.9	8.3	7.4	6.6	6.3	10.4	4.7	4.6
Percent of Floorspace Cooled									
Not Cooled	26.9	14.8	35.2	12.9	16.0	29.8	22.0	14.3	27.4
1 to 50	25.2	10.2	13.6	16.1	9.7	10.5	19.4	7.8	10.0
51 to 99	23.4	13.3	9.3	16.7	10.8	8.2	21.0	7.1	6.0
100	13.4	8.8	11.6	9.3	7.2	13.4	11.9	4.4	7.9
Percent Lit When Open									
Zero	93.9	79.2	100.1	78.9	36.5	100.1	20.4	55.4	0.0
1 to 50	25.6	22.1	28.6	11.5	14.4	23.7	21.5	19.4	23.9
51 to 99	16.1	11.7	10.5	14.0	8.0	8.0	13.1	7.6	6.1
100	14.2	8.0	7.4	10.8	7.5	7.0	13.0	4.9	5.4
Building Never Open/ Electricity Not Used	56.9	51.8	71.6	33.9	48.1	47.0	41.5	54.3	65.3
Percent Lit When Closed									
Zero	13.3	12.3	13.7	10.0	10.4	12.6	10.5	7.3	8.5
1 to 50	14.5	8.1	9.9	10.8	6.5	10.0	12.5	4.7	6.5
51 to 100	57.9	21.5	26.1	34.4	13.9	22.2	61.0	15.2	12.1
Building Never Closed/ Electricity Not Used	29.4	14.3	10.1	15.4	10.2	9.3	24.6	8.0	5.3

RSEs for Table C13. Electricity Consumption and Conditional Energy Intensity, 1999

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
Heating Equipment (more than one may apply)									
Heat Pumps	30.9	15.3	15.3	21.2	11.9	10.3	26.0	7.5	11.5
Furnaces	14.2	11.3	16.6	14.2	8.8	10.2	8.7	8.8	12.8
Individual Space Heaters	13.7	11.1	10.1	11.4	9.5	8.4	16.5	8.4	9.0
District Heat	48.7	19.1	15.5	55.9	15.1	13.0	46.0	15.5	7.8
Boilers	36.9	13.2	9.2	20.9	8.2	9.4	23.2	9.2	6.0
Packaged Heating Units	17.7	8.7	9.1	11.6	6.9	7.4	16.5	6.0	8.1
Other	38.7	17.0	16.2	26.9	18.0	16.8	37.6	16.4	5.7
Cooling Equipment (more than one may apply)									
Residential-Type Central									
Air Conditioners	23.1	12.5	15.7	19.9	12.4	14.4	18.8	9.3	13.3
Heat Pumps	32.8	15.1	13.9	20.6	11.7	10.7	25.0	8.1	10.6
Individual Air Conditioners	16.5	13.5	13.7	16.9	11.0	10.1	14.2	8.3	9.1
District Chilled Water	77.5	27.6	21.7	65.1	18.3	17.0	62.3	21.5	11.4
Central Chillers	73.7	19.2	10.1	53.8	13.1	9.7	33.2	8.7	5.9
Packaged Air Conditioning									
Units	15.0	7.7	8.3	10.0	6.4	7.2	13.4	5.1	5.5
Swamp Coolers	73.1	30.6	28.2	38.9	25.1	20.5	51.1	19.9	21.5
Other	71.2	25.4	27.5	58.8	18.4	27.3	55.4	19.6	14.1
Main Equipment Replaced Since 1995 (more than one may apply)									
Heating	14.6	11.8	19.4	14.6	10.1	14.2	13.4	8.0	16.4
Cooling	12.1	9.7	12.7	12.8	8.6	10.8	10.1	6.4	8.9
Lighting Equipment Types (more than one may apply)									
Incandescent	12.9	8.5	8.4	9.8	6.7	8.6	13.0	5.4	5.5
Standard Fluorescent	10.6	7.5	7.2	8.5	5.9	6.1	9.2	4.2	4.6
Compact Fluorescent	24.4	12.8	8.6	16.1	9.0	7.4	21.0	6.8	4.8
High Intensity Discharge	48.4	11.9	8.6	26.9	8.8	6.8	38.3	7.7	5.2
Halogen	29.7	7.3	8.2	20.8	6.8	8.8	26.4	5.6	6.0
Other	68.0	19.8	32.2	42.7	25.6	27.4	55.0	18.3	15.9
Water Heating Equipment									
Centralized System	12.2	9.3	9.0	10.3	6.6	7.0	10.9	5.1	4.8
Distributed System	29.2	11.9	13.5	17.3	10.7	12.5	20.7	8.4	7.9
Combination of Centralized and Distributed System	42.0	11.3	10.4	33.9	8.6	9.3	33.3	8.0	8.5
Commercial Refrigeration Equipment (more than one may apply)									
Any Equipment	19.7	8.8	8.0	13.7	6.9	7.8	13.5	6.4	4.8
Walk-In Units	21.2	10.6	8.3	16.7	9.1	8.6	13.1	6.2	5.0
Cases or Cabinets	18.8	9.1	8.7	13.7	7.1	8.1	14.7	7.4	4.9
None	10.7	9.8	11.7	8.1	7.3	7.5	9.2	5.9	10.0
Personal Computers									
None	22.4	20.2	48.0	12.3	16.6	37.9	18.5	15.1	61.7
1 to 4	17.6	14.7	31.9	11.4	11.8	19.3	14.3	10.0	34.1
5 to 9	25.5	13.0	28.4	16.3	11.2	26.4	17.8	12.2	13.5
10 to 19	21.9	11.1	21.4	20.0	13.2	22.6	11.3	8.9	13.8
20 to 49	35.3	14.8	18.6	41.1	11.7	11.4	25.8	9.3	11.2
50 to 99	83.9	11.1	15.9	68.8	8.9	14.5	29.1	8.1	9.3
100 to 249	98.8	20.0	11.5	78.2	13.0	11.7	94.0	11.0	9.0
250 or More	0.0	25.0	10.0	0.0	22.6	8.0	0.0	9.2	4.6

RSEs for Table C13. Electricity Consumption and Conditional Energy Intensity, 1999

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
Photocopiers									
None	13.6	13.4	25.2	7.8	9.9	19.9	11.1	7.2	20.2
One	19.0	10.2	16.6	13.2	8.6	16.6	15.5	7.7	17.4
2 to 4	28.9	10.4	12.0	21.9	8.9	9.4	18.4	6.5	8.1
5 to 9	58.6	16.7	17.4	74.6	12.7	10.7	109.0	10.3	14.1
10 or More	0.0	18.1	9.3	0.0	15.0	8.2	0.0	7.6	4.6
Other Electronic Equipment (more than one may apply)									
Laser Printers	16.6	8.7	7.3	10.2	6.5	6.4	11.8	4.8	4.4
FAX Machines	12.5	7.8	7.1	9.6	6.1	5.8	10.9	4.7	4.3
Medical Diagnostic Equipment	34.0	20.8	13.4	27.3	21.6	11.7	16.3	10.8	4.6
Annual Consumption (kilowatthours)									
10,000 or Less	15.0	60.0	100.3	14.8	48.2	100.3	8.3	14.5	0.0
10,001 to 50,000	9.3	18.2	75.2	10.2	15.7	71.2	5.9	8.1	40.8
50,001 to 100,000	14.4	17.1	60.2	16.7	14.7	68.2	6.8	6.7	41.8
100,001 to 500,000	15.7	6.6	19.6	14.4	6.6	17.5	10.6	5.6	12.6
500,001 to 1,000,000	50.7	10.4	17.7	49.9	9.4	18.8	13.9	6.1	7.7
1,000,001 to 5,000,000	101.0	13.7	7.1	101.0	12.1	5.7	0.0	3.9	4.9
Over 5,000,000	0.0	54.7	10.0	0.0	51.9	9.3	0.0	37.5	5.5
Provider of Purchased Electricity (more than one may apply)									
Local Utility	10.5	7.3	7.5	7.7	5.8	6.0	8.7	4.1	4.2
Some Other Provider	46.8	26.0	23.4	35.8	23.8	20.1	40.5	23.5	15.0

RSEs for Table C14. Electricity Consumption and Conditional Energy Intensity by Year Constructed, 1999

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
All Buildings	7.4	6.7	10.8	6.2	5.3	8.2	5.9	4.4	5.9
Building Floorspace (Square Feet)									
1,001 to 5,000	18.3	19.2	33.2	12.8	11.3	27.4	14.6	14.1	30.5
5,001 to 10,000	19.9	18.8	41.1	14.6	13.2	32.2	12.7	15.8	33.0
10,001 to 25,000	18.9	13.9	19.3	16.0	12.1	21.3	17.6	10.4	14.7
25,001 to 50,000	15.3	13.0	13.1	12.3	10.8	14.2	11.9	7.5	10.0
50,001 to 100,000	18.0	16.6	18.1	17.2	11.9	13.2	12.5	8.9	11.7
100,001 to 200,000	21.8	15.5	17.6	14.8	10.9	13.4	17.1	10.2	10.4
200,001 to 500,000	20.8	12.9	21.0	22.1	9.6	17.5	12.5	8.4	8.8
Over 500,000	28.1	18.7	27.0	20.2	19.6	20.2	13.3	6.9	14.0
Principal Building Activity									
Education	15.4	10.5	22.4	14.5	10.9	18.0	7.2	7.2	11.3
Food Sales	56.4	29.8	27.9	52.3	23.3	25.3	13.6	22.2	10.4
Food Service	29.0	30.7	44.9	31.5	22.2	50.4	18.0	19.6	36.2
Health Care	19.6	12.9	23.9	20.3	11.4	22.6	7.5	5.4	11.0
Inpatient	21.6	15.6	30.8	23.0	13.8	30.2	8.4	5.1	8.5
Outpatient	42.0	23.6	25.4	41.4	18.9	26.2	22.9	11.5	13.3
Lodging	28.6	14.5	23.6	20.1	14.7	25.1	22.4	8.0	8.6
Mercantile	17.8	15.3	16.0	18.4	13.9	16.8	11.0	9.5	10.6
Retail (Other Than Mall)	17.5	17.5	17.9	20.7	17.1	23.5	12.7	9.0	17.1
Enclosed and Strip Malls	33.2	18.2	31.6	29.4	15.4	25.9	14.5	12.1	12.5
Office	18.1	11.5	18.2	15.0	8.4	17.5	14.3	6.2	11.4
Public Assembly	25.7	14.9	39.6	20.5	16.4	27.1	15.9	8.2	30.5
Public Order and Safety	28.8	33.5	42.2	32.0	31.7	37.7	18.5	23.1	10.6
Religious Worship	27.5	27.1	34.9	20.2	24.2	47.3	26.4	11.1	15.7
Service	37.8	17.4	59.7	19.6	17.4	37.2	30.9	9.8	54.5
Warehouse and Storage	23.9	14.5	31.2	20.9	13.4	17.6	15.7	10.6	22.1
Other	53.5	25.1	48.2	33.8	22.6	43.3	37.9	17.7	22.9
Vacant	66.6	41.9	X	26.7	34.5	X	60.2	39.3	X
Census Region and Division									
Northeast	18.1	15.9	23.3	12.6	16.1	20.0	13.4	10.2	15.0
New England	35.1	24.1	36.4	21.7	26.9	39.4	29.3	7.5	16.3
Middle Atlantic	20.6	18.9	27.8	15.5	17.0	21.5	15.1	14.1	17.1
Midwest	15.7	13.5	18.0	10.7	8.2	18.0	11.4	11.6	12.8
East North Central	15.2	17.9	21.5	13.6	10.1	20.6	9.5	17.3	14.4
West North Central	30.5	18.8	31.8	11.7	12.9	28.7	24.1	10.6	31.0
South	11.5	11.1	19.4	14.0	6.7	15.0	8.7	6.4	8.8
South Atlantic	13.4	15.9	28.2	23.5	8.7	22.3	16.3	10.2	12.7
East South Central	25.4	17.7	53.7	21.3	15.5	40.4	16.2	7.0	24.0
West South Central	21.5	21.3	20.4	26.3	12.0	20.1	14.5	11.4	17.7
West	14.8	9.5	20.3	13.3	9.1	14.2	10.1	5.9	13.5
Mountain	22.8	15.6	31.3	17.0	17.6	24.3	17.7	13.1	23.9
Pacific	18.0	12.5	25.1	18.3	10.9	17.0	13.5	5.9	15.2
Climate Zone: 45-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	19.4	20.6	34.0	12.9	13.0	21.5	12.6	21.7	22.6
5,500-7,000 HDD	15.3	13.3	17.3	12.9	12.5	15.5	10.6	8.6	13.6
4,000-5,499 HDD	14.3	10.5	20.4	11.9	8.6	16.3	13.6	6.2	15.0
Fewer than 4,000 HDD	16.0	15.8	21.7	18.0	11.0	17.9	11.8	7.8	9.0
2,000 CDD or More and --									
Fewer than 4,000 HDD	20.9	13.9	16.0	21.4	12.0	14.2	13.1	9.2	15.0

RSEs for Table C14. Electricity Consumption and Conditional Energy Intensity by Year Constructed, 1999

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
Workers (main shift)									
Fewer than 5	14.2	17.3	36.0	10.1	10.6	24.2	12.8	15.1	31.0
5 to 9	17.4	17.4	21.2	15.8	14.3	22.9	19.2	13.9	18.8
10 to 19	23.2	17.8	41.8	18.4	12.0	29.4	17.4	15.9	28.0
20 to 49	15.4	12.2	23.7	13.7	9.0	15.0	9.0	8.3	13.9
50 to 99	20.1	10.7	22.3	20.5	11.6	14.2	9.3	4.7	13.7
100 to 249	19.4	15.9	17.7	15.5	11.4	13.7	13.8	10.4	10.1
250 or More	17.5	9.5	19.3	13.6	8.9	16.1	9.4	5.0	8.1
Weekly Operating Hours									
39 or Fewer	27.4	20.6	42.7	21.8	13.2	50.3	26.3	16.9	47.7
40 to 48	12.6	9.5	17.1	11.1	8.9	20.4	9.0	6.6	16.5
49 to 60	17.7	11.9	22.4	11.6	11.4	14.4	14.5	9.7	14.5
61 to 84	16.3	8.6	21.2	16.5	7.0	17.6	9.1	7.0	10.0
85 to 167	22.3	13.9	19.8	18.7	11.6	12.7	15.5	10.5	11.4
Open Continuously	17.7	11.1	16.5	15.9	8.4	13.8	8.1	7.3	9.9
Ownership and Occupancy									
Nongovernment Owned	8.3	7.6	12.8	7.1	6.2	9.9	5.7	5.3	6.8
Owner Occupied	9.0	8.5	14.1	8.5	7.1	11.1	6.2	6.8	7.9
Nonowner Occupied	16.7	11.6	16.2	10.9	9.4	13.3	12.6	7.0	9.6
Unoccupied	91.6	55.3	100.3	41.8	36.9	100.3	89.6	45.5	0.0
Government Owned	16.1	10.6	19.3	11.1	9.2	11.9	13.3	4.9	13.9
Federal	38.4	19.9	37.7	32.5	20.6	28.5	22.9	11.3	19.8
State	19.8	22.4	28.1	16.6	17.4	20.4	11.7	10.3	18.2
Local	20.0	12.8	30.1	17.9	11.5	16.4	13.5	6.7	22.7
Vacancy Status									
Completely Vacant	92.9	66.0	X	53.5	45.5	X	87.6	54.4	X
Mostly Vacant	38.5	41.6	X	29.5	50.8	X	23.4	42.4	X
Partially Vacant	13.6	10.4	20.3	12.8	10.2	16.3	9.5	5.7	14.1
Not At All Vacant	8.4	7.5	11.8	6.8	4.8	8.6	7.0	5.2	6.9
Number of Establishments									
One	8.7	7.0	11.8	6.8	5.2	8.7	7.6	5.3	7.3
2 to 5	12.3	16.5	21.3	14.2	10.2	17.5	14.7	10.8	16.9
6 to 10	22.3	21.1	31.3	27.7	15.0	28.1	21.4	12.0	18.3
11 to 20	42.9	16.7	35.1	27.6	19.1	25.6	31.2	10.8	14.8
More than 20	31.3	8.7	40.6	26.7	12.0	30.1	8.2	7.9	24.7
Currently Unoccupied	76.7	48.9	100.3	35.6	34.7	100.3	68.5	38.5	0.0
Energy Sources (more than one may apply)									
Electricity	7.4	6.7	10.8	6.2	5.3	8.2	5.9	4.4	5.9
Natural Gas	10.2	8.3	12.2	8.7	5.9	10.0	7.2	6.1	7.5
Fuel Oil	22.0	10.7	16.8	13.6	9.9	15.0	14.7	7.7	9.0
District Heat	31.2	18.9	52.9	23.7	16.1	35.2	18.9	8.3	32.4
District Chilled Water	37.3	16.9	39.7	26.2	16.2	24.6	23.0	6.8	24.2
Propane	25.3	21.4	24.4	20.9	15.6	20.5	27.5	17.8	9.0
Other	30.6	24.2	29.8	20.5	24.2	26.7	18.1	15.2	16.8
Space-Heating Energy Source									
Electricity	11.7	8.4	11.1	9.7	6.3	9.1	9.7	5.8	6.9
Electricity Main	16.0	9.5	15.9	15.0	7.9	11.8	14.7	6.5	8.5
Electricity Secondary	15.7	12.9	17.2	10.9	7.7	12.0	13.1	8.6	11.8
Other Excluding Electricity	10.2	8.1	15.6	8.1	6.7	12.5	7.2	5.6	12.2
Buildings without Heating	38.9	23.2	51.7	32.6	19.9	44.7	43.7	15.3	43.3

RSEs for Table C14. Electricity Consumption and Conditional Energy Intensity by Year Constructed, 1999

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
Primary Space-Heating Energy Source									
Electricity	16.0	9.5	15.9	15.0	7.9	11.8	14.7	6.5	8.5
Natural Gas	10.4	9.3	12.5	9.1	5.9	10.5	7.7	7.0	8.8
Fuel Oil	23.1	24.1	33.9	18.1	21.5	42.6	14.5	9.0	35.2
District Heat	22.2	13.9	38.0	17.1	11.0	27.9	13.4	8.0	23.2
Propane	34.9	46.0	32.3	42.5	30.8	34.6	35.4	41.9	18.5
Other	47.3	46.0	100.9	32.8	64.8	100.9	23.1	131.2	0.0
Cooling Energy Source									
Electricity	7.8	7.2	10.8	7.5	6.2	8.6	5.4	4.9	5.7
Other Excluding Electricity	45.0	16.6	32.9	31.6	14.2	17.8	28.8	7.4	24.9
Buildings without Cooling	15.7	24.4	60.3	15.0	14.4	39.0	11.0	17.2	39.9
Water-Heating Energy Source									
Electricity	15.7	9.4	19.0	12.4	8.1	13.2	10.1	5.8	8.2
Other Excluding Electricity	8.3	8.0	14.0	6.8	5.7	9.8	6.1	5.4	10.0
Buildings without Water Heating	32.2	13.4	23.4	15.2	12.8	27.6	29.8	11.5	18.1
Cooking Energy Source									
Electricity	18.7	10.4	16.0	12.3	8.9	12.8	12.7	6.8	10.7
Other Excluding Electricity	14.8	9.8	21.9	15.1	10.9	15.6	11.1	6.9	14.1
Buildings without Cooking	8.4	8.4	13.3	7.4	6.5	9.8	6.4	6.0	9.6
Energy End Uses (more than one may apply)									
Buildings with Space Heating	7.3	6.8	11.1	6.0	5.4	8.5	5.9	4.5	5.9
Buildings with Cooling	7.8	7.0	10.9	7.1	5.9	8.5	6.3	4.6	5.7
Buildings with Water Heating	7.5	6.9	11.4	6.5	5.3	8.3	5.3	4.6	6.1
Buildings with Cooking	12.3	8.7	13.6	10.3	8.4	10.9	9.6	5.9	8.4
Buildings with Manufacturing	33.1	31.9	27.7	27.5	21.0	21.9	27.8	23.6	11.9
Buildings with Electricity Generation	19.9	10.8	15.0	15.9	10.6	11.8	15.2	7.8	7.0
Percent of Floorspace Heated									
Not Heated	38.9	23.2	51.7	32.6	19.9	44.7	43.7	15.3	43.3
1 to 50	19.2	22.9	29.1	16.5	14.5	23.8	14.9	15.0	21.0
51 to 99	20.9	14.4	16.5	12.5	11.0	15.5	17.5	9.8	15.1
100	8.9	7.4	12.3	7.5	5.7	8.8	5.8	4.6	7.0
Percent of Floorspace Cooled									
Not Cooled	15.7	24.4	60.3	15.0	14.4	39.0	11.0	17.2	39.9
1 to 50	15.7	13.9	25.7	13.0	11.3	14.8	9.3	7.5	19.6
51 to 99	14.6	9.2	14.8	10.1	7.3	11.5	11.8	5.6	10.5
100	11.1	8.9	12.9	10.5	7.6	9.8	6.8	6.1	8.9
Percent Lit When Open									
Zero	X	72.2	95.8	X	37.5	95.8	X	49.6	1.6
1 to 50	17.6	27.9	44.1	12.8	17.1	25.9	14.9	20.8	24.7
51 to 99	13.2	10.3	10.5	9.5	7.6	12.6	10.2	6.9	8.4
100	10.0	7.4	12.4	9.4	7.0	8.2	7.9	4.8	7.4
Building Never Open/ Electricity Not Used	68.5	51.9	100.3	37.6	28.6	100.3	65.7	52.9	0.0
Percent Lit When Closed									
Zero	14.8	11.2	16.3	11.7	9.6	13.8	11.8	6.6	11.1
1 to 50	9.7	7.3	17.3	7.8	7.1	12.3	7.9	5.7	9.6
51 to 100	55.2	18.7	32.2	45.3	15.4	23.5	25.0	9.8	21.2
Building Never Closed/ Electricity Not Used	17.7	11.1	16.5	15.9	8.4	13.8	8.1	7.3	9.9

RSEs for Table C14. Electricity Consumption and Conditional Energy Intensity by Year Constructed, 1999

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
Heating Equipment (more than one may apply)									
Heat Pumps	17.6	11.9	21.7	18.1	8.4	16.1	9.4	8.8	14.8
Furnaces	12.9	12.9	22.7	8.4	10.2	18.2	11.1	6.6	16.4
Individual Space Heaters	18.2	9.5	11.7	11.5	8.7	9.8	16.0	7.0	8.7
District Heat	21.8	13.2	34.6	16.8	10.6	22.8	13.1	7.6	21.1
Boilers	10.1	10.2	19.6	9.6	9.0	13.7	5.5	7.3	10.1
Packaged Heating Units	14.0	8.7	11.6	12.0	6.0	8.5	9.3	7.0	7.0
Other	17.3	11.7	24.1	23.2	12.3	23.2	20.1	8.8	9.7
Cooling Equipment (more than one may apply)									
Residential-Type Central									
Air Conditioners	14.3	12.4	23.7	14.1	10.5	22.2	10.9	8.6	23.5
Heat Pumps	17.4	11.7	22.5	18.7	9.0	16.6	9.6	9.1	15.3
Individual Air Conditioners	12.4	10.3	26.8	10.7	10.2	14.0	8.9	7.5	19.5
District Chilled Water	37.3	16.9	39.7	26.2	16.2	24.6	23.0	6.8	24.2
Central Chillers	16.5	11.2	18.9	11.9	9.8	13.9	9.7	6.9	9.4
Packaged Air Conditioning									
Units	11.1	8.4	11.0	8.9	5.9	8.8	7.4	6.3	5.3
Swamp Coolers	49.4	24.7	50.1	33.9	20.4	30.5	37.1	17.3	36.5
Other	50.1	28.4	31.1	39.7	26.3	22.0	23.6	11.6	22.9
Main Equipment Replaced Since 1995 (more than one may apply)									
Heating	18.0	13.4	27.7	13.7	10.5	24.1	9.9	9.2	21.8
Cooling	11.7	11.3	25.5	10.7	8.9	21.6	8.0	7.6	15.0
Lighting Equipment Types (more than one may apply)									
Incandescent	9.8	7.5	13.4	6.5	6.3	10.4	8.4	5.2	8.6
Standard Fluorescent	7.3	6.8	11.0	6.1	5.5	8.5	6.2	4.5	6.3
Compact Fluorescent	14.6	8.9	12.4	10.0	7.8	10.1	10.4	6.0	7.4
High Intensity Discharge	16.7	8.9	16.4	11.8	7.6	11.5	11.5	5.5	7.4
Halogen	18.1	8.2	13.7	10.8	7.4	9.9	13.9	6.8	8.7
Other	41.8	26.8	50.0	40.6	21.2	28.9	25.7	21.4	41.9
Water Heating Equipment									
Centralized System	9.8	8.2	13.3	7.2	5.6	9.0	7.3	5.3	9.5
Distributed System	19.4	13.2	28.1	14.6	11.2	18.0	14.0	7.0	15.2
Combination of Centralized and Distributed System	13.5	12.5	16.8	11.4	10.4	13.5	9.2	10.4	8.4
Commercial Refrigeration Equipment (more than one may apply)									
Any Equipment	12.5	7.8	13.6	10.5	7.8	10.9	10.7	5.6	7.8
Walk-In Units	14.0	8.6	14.9	12.5	8.8	13.1	9.0	6.4	8.1
Cases or Cabinets	13.4	8.6	14.5	11.2	8.1	11.8	10.5	6.3	8.3
None	8.2	8.1	13.5	7.1	6.2	10.5	6.3	6.2	10.0
Personal Computers									
None	21.4	18.5	44.9	15.4	12.3	29.6	21.6	14.2	36.9
1 to 4	15.4	15.6	27.4	10.9	11.9	15.4	14.1	12.0	24.6
5 to 9	18.3	16.1	25.6	18.8	11.2	18.4	13.7	11.3	17.3
10 to 19	18.5	12.9	17.5	19.7	14.9	18.5	9.9	8.7	14.9
20 to 49	18.7	14.0	19.2	17.5	10.0	17.0	12.7	8.7	11.6
50 to 99	20.8	9.5	20.9	19.5	9.0	18.5	9.6	8.4	10.4
100 to 249	22.8	16.3	21.4	19.9	11.8	16.0	14.5	9.9	16.3
250 or More	18.6	10.9	22.3	14.5	10.2	16.8	11.3	5.1	9.6

RSEs for Table C14. Electricity Consumption and Conditional Energy Intensity by Year Constructed, 1999

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
Photocopiers									
None	8.3	13.2	24.7	9.1	9.6	18.6	9.1	9.2	18.5
One	17.4	12.2	16.2	11.0	9.5	12.1	14.5	9.4	12.5
2 to 4	14.9	10.5	14.6	14.1	8.4	12.7	6.7	6.9	9.3
5 to 9	17.7	18.3	20.6	18.0	12.0	20.0	12.7	12.9	12.5
10 or More	17.3	9.3	18.8	14.9	8.6	14.2	10.1	3.9	9.1
Other Electronic Equipment (more than one may apply)									
Laser Printers	8.2	7.4	10.2	6.5	6.1	8.0	7.3	4.3	5.3
FAX Machines	7.7	7.1	11.3	6.9	5.8	8.2	6.5	4.7	5.7
Medical Diagnostic Equipment	19.9	13.2	24.6	20.5	11.8	23.1	8.6	5.5	9.8
Annual Consumption (kilowatthours)									
10,000 or Less	18.9	21.1	68.7	23.3	20.4	63.1	11.5	14.7	62.9
10,001 to 50,000	9.7	12.5	28.1	11.6	13.5	32.0	8.2	7.9	15.3
50,001 to 100,000	18.9	16.1	32.9	18.5	16.9	33.0	11.2	9.1	17.7
100,001 to 500,000	13.5	11.7	25.3	9.8	7.6	13.5	8.9	9.8	16.4
500,001 to 1,000,000	24.8	11.8	26.5	18.5	9.6	14.7	20.8	9.6	22.5
1,000,001 to 5,000,000	15.6	11.0	12.5	14.4	7.5	10.7	7.9	6.2	6.0
Over 5,000,000	21.1	11.7	18.7	17.3	12.4	15.5	10.0	7.6	8.9
Provider of Purchased Electricity (more than one may apply)									
Local Utility	7.8	6.9	10.8	6.3	5.3	8.2	6.0	4.2	6.2
Some Other Provider	31.1	16.6	48.7	29.1	17.9	31.8	19.4	16.5	27.1

X=No cases in responding sample reported their consumption for the particular fuel, so relative standard error could not be calculated.

RSEs for Table C15. Total Natural Gas Consumption and Expenditures, 1999

	RSEs for All Buildings Using Natural Gas			RSEs for Natural Gas Consumption		RSEs for Natural Gas Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total	Total
All Buildings	6.6	4.7	5.1	8.1	8.1	8.0
Building Floorspace (Square Feet)						
1,001 to 5,000	12.0	12.7	3.5	21.5	21.5	18.7
5,001 to 10,000	11.4	12.1	2.1	23.5	23.5	23.6
10,001 to 25,000	9.8	9.6	2.7	25.2	25.2	24.9
25,001 to 50,000	7.3	7.2	1.2	12.0	12.0	11.8
50,001 to 100,000	11.3	11.2	1.5	14.2	14.2	12.2
100,001 to 200,000	10.9	11.1	1.7	18.5	18.5	19.0
200,001 to 500,000	7.8	7.5	2.5	29.2	29.2	26.4
Over 500,000	15.1	15.1	4.2	14.4	14.4	16.8
Principal Building Activity						
Education	17.4	8.7	13.5	11.8	11.8	12.0
Food Sales	35.7	25.5	25.4	28.0	28.0	26.6
Food Service	19.2	16.8	11.1	26.0	26.0	23.3
Health Care	36.3	11.8	45.3	11.9	11.9	12.0
Inpatient	19.1	14.0	15.5	13.2	13.2	14.2
Outpatient	40.7	20.5	44.4	26.6	26.6	24.1
Lodging	20.9	14.2	20.0	14.9	14.9	14.3
Mercantile	14.1	12.7	11.4	12.4	12.4	12.4
Retail (Other Than Mall)	16.1	17.4	11.1	17.4	17.4	17.0
Enclosed and Strip Malls	29.0	14.6	36.0	17.9	17.9	15.1
Office	13.9	10.8	13.9	14.0	14.0	14.4
Public Assembly	19.9	15.5	13.2	20.3	20.3	22.1
Public Order and Safety	37.0	26.2	17.7	24.9	24.9	27.4
Religious Worship	19.8	17.9	12.3	18.3	18.3	24.9
Service	19.5	16.9	17.3	32.8	32.8	33.6
Warehouse and Storage	23.5	11.5	17.9	30.0	30.0	24.5
Other	31.7	24.5	34.7	38.2	38.2	38.3
Vacant	35.6	26.7	21.1	40.4	40.4	33.9
Year Constructed						
1919 or Before	16.2	16.6	13.4	19.2	19.2	15.1
1920 to 1945	16.3	11.2	13.1	17.7	17.7	15.5
1946 to 1959	16.4	11.0	11.9	12.6	12.6	13.1
1960 to 1969	10.7	8.8	10.0	16.2	16.2	18.3
1970 to 1979	13.4	8.8	9.6	9.1	9.1	8.7
1980 to 1989	14.3	11.1	11.4	23.5	23.5	23.9
1990 to 1999	18.0	9.3	13.0	24.0	24.0	19.7
Census Region and Division						
Northeast	15.2	9.2	11.8	15.1	15.1	16.2
New England	35.5	24.5	21.4	32.9	32.9	35.0
Middle Atlantic	18.0	9.7	13.7	18.0	18.0	19.0
Midwest	13.0	7.7	9.3	12.9	12.9	12.5
East North Central	16.5	8.3	12.5	16.4	16.4	16.0
West North Central	18.7	13.9	12.4	18.4	18.4	18.6
South	12.6	9.1	8.1	19.0	19.0	20.5
South Atlantic	28.9	16.8	24.3	29.7	29.7	32.9
East South Central	21.8	13.7	11.6	41.0	41.0	42.1
West South Central	15.2	12.7	8.1	18.5	18.5	21.9
West	11.6	7.4	13.0	12.6	12.6	12.2
Mountain	8.4	13.1	13.3	17.6	17.6	21.4
Pacific	18.3	9.4	18.8	16.8	16.8	14.7

RSEs for Table C15. Total Natural Gas Consumption and Expenditures, 1999

	RSEs for All Buildings Using Natural Gas			RSEs for Natural Gas Consumption		RSEs for Natural Gas Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total	Total
Climate Zone: 45-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	17.2	10.2	11.0	14.7	14.7	15.4
5,500-7,000 HDD	10.0	7.8	7.7	12.7	12.7	11.9
4,000-5,499 HDD	21.9	10.5	17.5	22.5	22.5	23.1
Fewer than 4,000 HDD	16.6	12.1	12.7	14.6	14.6	13.9
2,000 CDD or More and --						
Fewer than 4,000 HDD	18.1	15.1	10.3	21.1	21.1	22.9
Workers (main shift)						
Fewer than 5	10.7	11.7	7.7	12.7	12.7	13.1
5 to 9	13.0	10.2	9.8	15.0	15.0	14.9
10 to 19	10.4	10.2	9.5	16.6	16.6	12.7
20 to 49	15.5	8.5	10.3	22.3	22.3	23.2
50 to 99	11.1	9.8	7.1	14.0	14.0	13.9
100 to 249	19.5	10.2	17.9	16.9	16.9	17.3
250 or More	11.3	8.0	10.5	20.5	20.5	17.3
Weekly Operating Hours						
39 or Fewer	22.0	16.8	12.2	17.7	17.7	24.4
40 to 48	9.3	7.2	7.7	11.1	11.1	11.3
49 to 60	10.0	8.7	8.8	20.0	20.0	20.3
61 to 84	17.8	8.4	13.4	19.3	19.3	20.0
85 to 167	13.5	10.4	10.1	16.7	16.7	16.6
Open Continuously	16.9	8.4	13.9	14.6	14.6	12.7
Ownership and Occupancy						
Nongovernment Owned						
Owner Occupied	7.6	5.6	5.6	10.1	10.1	9.9
Nonowner Occupied	9.5	6.1	7.3	10.4	10.4	11.1
Unoccupied	10.0	8.0	7.9	22.1	22.1	19.5
Government Owned						
Federal	41.1	42.5	27.1	47.5	47.5	52.5
State	15.7	6.8	13.2	11.5	11.5	10.6
Local	42.5	22.1	44.2	22.7	22.7	20.4
State	21.9	16.1	18.5	26.4	26.4	22.9
Local	20.2	8.9	15.2	12.3	12.3	13.5
Vacancy Status						
Completely Vacant	48.7	44.0	25.9	53.8	53.8	54.6
Mostly Vacant	50.4	31.9	36.6	56.9	56.8	42.1
Partially Vacant	15.5	9.2	13.0	11.7	11.7	11.8
Not At All Vacant	6.9	4.6	5.5	9.2	9.2	8.8
Number of Establishments						
One	7.3	5.3	5.2	9.5	9.5	9.2
2 to 5	14.7	7.9	12.6	11.3	11.3	12.1
6 to 10	18.5	15.2	22.0	21.3	21.3	21.6
11 to 20	24.5	15.2	19.8	22.7	22.7	23.1
More than 20	43.4	14.6	30.4	25.4	25.4	27.0
Currently Unoccupied	36.9	39.0	25.0	42.1	42.1	47.3
Energy Sources (more than one may apply)						
Electricity	7.1	4.9	5.5	8.7	8.7	8.6
Natural Gas	6.6	4.7	5.1	8.1	8.1	8.0
Fuel Oil	26.5	8.9	28.9	21.1	21.1	18.4
District Heat	55.8	25.0	38.8	41.0	41.0	30.4
District Chilled Water	44.2	16.9	30.7	19.3	19.3	20.2
Propane	36.6	17.4	30.8	52.8	52.8	45.6
Other	30.7	20.4	32.9	22.4	22.4	23.8

RSEs for Table C15. Total Natural Gas Consumption and Expenditures, 1999

	RSEs for All Buildings Using Natural Gas			RSEs for Natural Gas Consumption		RSEs for Natural Gas Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total	Total
Space-Heating Energy Source						
Natural Gas	7.0	5.3	5.2	8.4	8.4	8.3
Natural Gas Main	7.3	5.6	5.3	8.7	8.7	8.5
Natural Gas Secondary	19.2	12.4	17.0	14.5	14.5	15.8
Other Excluding Natural Gas	20.8	6.9	22.0	22.3	22.3	16.8
Buildings without Heating	33.4	33.1	19.6	58.6	58.6	59.6
Primary Space-Heating Energy Source						
Electricity	13.3	9.0	12.4	18.2	18.2	13.3
Natural Gas	7.3	5.6	5.3	8.7	8.7	8.5
Fuel Oil	50.1	20.5	98.9	28.9	28.9	30.2
District Heat	35.6	17.7	29.8	19.4	19.4	19.1
Propane	X	X	X	X	X	X
Other	73.6	43.9	131.2	76.6	76.6	63.2
Cooling Energy Source						
Natural Gas	25.0	14.6	18.9	24.1	24.1	23.7
Other Excluding Natural Gas	7.5	5.5	5.3	8.8	8.8	8.6
Buildings without Cooling	18.7	12.8	12.5	30.1	30.1	32.7
Water-Heating Energy Source						
Natural Gas	7.8	5.4	6.0	9.0	9.0	9.5
Other Excluding Natural Gas	10.9	8.4	8.6	21.4	21.4	16.0
Buildings without Water Heating	16.4	11.7	11.1	15.7	15.7	15.6
Cooking Energy Source						
Natural Gas	10.6	6.0	10.4	7.1	7.1	7.9
Other Excluding Natural Gas	26.0	13.5	23.5	18.6	18.6	20.8
Buildings without Cooking	7.1	6.7	5.7	13.2	13.2	12.1
Energy End Uses (more than one may apply)						
Buildings with Space Heating	6.8	4.7	5.2	8.0	8.0	7.8
Buildings with Cooling	7.1	5.3	4.9	8.5	8.5	8.3
Buildings with Water Heating	6.6	4.8	4.6	8.6	8.6	8.6
Buildings with Cooking	11.2	5.9	9.9	7.1	7.1	8.1
Buildings with Manufacturing	25.3	19.6	23.7	36.1	36.1	33.0
Buildings with Electricity Generation	16.6	8.5	17.2	16.5	16.5	13.9
Percent of Floorspace Heated						
Not Heated	33.4	33.1	19.6	58.6	58.6	59.6
1 to 50	18.9	10.1	12.9	30.2	30.2	19.4
51 to 99	12.6	9.9	10.0	27.7	27.7	28.4
100	6.9	5.1	5.7	7.9	7.9	7.5
Percent of Floorspace Cooled						
Not Cooled	18.7	12.8	12.5	30.1	30.1	32.7
1 to 50	12.4	8.6	8.6	20.5	20.5	19.5
51 to 99	10.5	6.3	9.5	8.3	8.3	8.5
100	8.5	7.2	6.6	9.2	9.2	9.3
Heating Equipment (more than one may apply)						
Heat Pumps	18.9	9.8	16.5	29.4	29.4	31.0
Furnaces	12.0	9.1	6.9	21.2	21.2	19.5
Individual Space Heaters	10.1	7.4	8.3	10.1	10.1	10.2
District Heat	33.9	16.1	28.4	17.0	17.0	16.3
Boilers	7.9	6.1	6.7	8.4	8.4	8.8
Packaged Heating Units	9.5	7.4	6.4	11.1	11.1	9.0
Other	29.2	16.1	23.6	46.0	46.0	39.0

RSEs for Table C15. Total Natural Gas Consumption and Expenditures, 1999

	RSEs for All Buildings Using Natural Gas			RSEs for Natural Gas Consumption		RSEs for Natural Gas Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total	Total
Cooling Equipment (more than one may apply)						
Residential-Type Central						
Air Conditioners	17.0	10.0	14.0	17.0	17.0	17.0
Heat Pumps	22.5	10.5	21.3	29.4	29.4	30.8
Individual Air Conditioners	12.9	8.4	10.6	12.4	12.4	11.5
District Chilled Water	44.2	16.9	30.7	19.3	19.3	20.2
Central Chillers	15.9	8.3	13.5	14.7	14.7	13.6
Packaged Air Conditioning						
Units	7.3	5.6	5.3	9.3	9.3	8.5
Swamp Coolers	27.1	18.3	29.8	24.0	24.0	22.3
Other	47.0	26.9	72.7	40.3	40.3	35.3
Main Equipment Replaced Since 1995 (more than one may apply)						
Heating	13.5	10.4	9.2	12.3	12.3	12.5
Cooling	11.7	7.5	9.1	10.2	10.2	11.0
Water Heating Equipment						
Centralized System	6.9	5.7	5.8	10.4	10.4	10.6
Distributed System	16.6	8.1	13.2	27.3	27.3	20.0
Combination of Centralized and Distributed System	16.8	6.8	17.3	12.4	12.4	13.4
Annual Consumption (hundred cubic feet)						
1,000 or Less	11.7	10.8	8.2	11.8	11.8	11.1
1,001 to 5,000	10.6	8.5	5.8	11.1	11.1	12.0
5,001 to 10,000	11.8	9.1	8.8	11.6	11.6	12.1
10,001 to 25,000	12.9	10.6	10.4	13.3	13.3	13.9
25,001 to 50,000	15.8	9.1	16.1	13.9	13.9	11.6
50,001 to 100,000	31.6	16.3	29.9	32.6	32.6	36.0
Over 100,000	14.2	9.3	10.4	15.3	15.3	15.4
Provider of Natural Gas (more than one may apply)						
Local Utility	6.4	4.9	5.0	9.3	9.3	8.7
Some Other Provider	22.4	11.2	21.2	13.5	13.5	14.9

X=No cases in responding sample reported their consumption for the particular fuel, so relative standard error could not be calculated.

RSEs for Table C16. Natural Gas Consumption and Expenditure Intensities, 1999

	RSEs for Natural Gas Consumption						RSEs for Natural Gas Expenditures		
	per Building	per Square Foot	per Worker	RSEs Not Available for Percentiles					
				25th Percentile	Median	75th Percentile	per Building	per Square Foot	per Thousand Cubic Feet
All Buildings	7.8	7.3	8.1	—	—	—	8.0	7.2	2.2
Building Floorspace (Square Feet)									
1,001 to 5,000	16.4	16.1	23.0	—	—	—	13.6	13.2	5.8
5,001 to 10,000	21.3	20.9	23.7	—	—	—	20.8	20.3	4.2
10,001 to 25,000	25.8	26.3	28.3	—	—	—	25.3	25.9	3.5
25,001 to 50,000	9.4	10.0	12.3	—	—	—	8.4	9.1	3.1
50,001 to 100,000	11.6	11.7	15.4	—	—	—	9.3	9.3	6.4
100,001 to 200,000	12.6	12.4	12.7	—	—	—	13.7	13.5	4.2
200,001 to 500,000	28.9	27.9	28.9	—	—	—	25.6	24.7	6.0
Over 500,000	13.0	13.4	14.6	—	—	—	13.5	13.9	5.4
Principal Building Activity									
Education	14.9	7.7	13.4	—	—	—	15.7	8.0	5.6
Food Sales	28.2	19.8	18.6	—	—	—	23.5	17.9	9.5
Food Service	19.0	20.3	12.8	—	—	—	16.6	16.8	9.7
Health Care	48.1	9.3	8.9	—	—	—	47.7	10.0	3.0
Inpatient	15.7	10.4	8.6	—	—	—	16.1	11.6	3.4
Outpatient	56.3	16.8	14.6	—	—	—	52.7	15.8	5.8
Lodging	20.0	11.7	7.8	—	—	—	19.2	9.0	5.3
Mercantile	10.4	8.9	17.7	—	—	—	10.7	8.1	3.9
Retail (Other Than Mall)	11.5	10.7	42.5	—	—	—	11.1	10.0	5.4
Enclosed and Strip Malls	27.9	17.3	18.9	—	—	—	30.3	13.4	8.4
Office	15.2	7.0	9.2	—	—	—	14.2	7.4	3.1
Public Assembly	17.4	15.4	32.5	—	—	—	18.3	16.7	6.7
Public Order and Safety	18.3	11.0	15.2	—	—	—	14.9	10.0	8.3
Religious Worship	14.8	8.7	21.6	—	—	—	14.0	13.3	11.1
Service	31.6	32.0	36.8	—	—	—	30.5	31.5	8.4
Warehouse and Storage	29.3	25.6	22.1	—	—	—	23.4	19.0	10.6
Other	48.5	26.9	27.2	—	—	—	46.6	26.9	10.7
Vacant	45.9	37.5	517.7	—	—	—	34.8	27.6	12.8
Year Constructed									
1919 or Before	13.7	13.5	51.5	—	—	—	13.1	10.3	6.8
1920 to 1945	15.4	13.1	16.3	—	—	—	14.5	11.7	5.6
1946 to 1959	14.5	9.9	12.6	—	—	—	14.0	9.6	4.7
1960 to 1969	12.7	15.2	16.8	—	—	—	14.3	17.4	4.2
1970 to 1979	12.4	8.0	10.8	—	—	—	12.0	7.9	3.4
1980 to 1989	26.5	20.5	22.7	—	—	—	25.8	20.3	5.0
1990 to 1999	20.4	20.3	19.6	—	—	—	15.8	15.6	8.0
Census Region and Division									
Northeast	12.5	12.4	13.7	—	—	—	13.1	13.2	3.8
New England	27.0	19.7	25.6	—	—	—	26.1	20.3	8.4
Middle Atlantic	13.9	15.1	16.4	—	—	—	14.4	16.2	4.0
Midwest	8.8	8.7	11.4	—	—	—	8.7	8.6	3.3
East North Central	7.8	10.7	15.6	—	—	—	7.3	10.9	4.7
West North Central	23.5	13.8	13.1	—	—	—	22.4	13.0	2.9
South	19.6	18.6	21.9	—	—	—	19.7	19.1	5.7
South Atlantic	28.9	26.9	27.1	—	—	—	32.8	29.0	8.6
East South Central	46.3	39.4	46.9	—	—	—	44.5	38.4	11.5
West South Central	11.6	12.4	16.5	—	—	—	12.3	12.9	9.5
West	18.1	9.2	9.7	—	—	—	17.9	8.2	3.6
Mountain	20.5	11.6	16.8	—	—	—	23.4	13.3	5.2
Pacific	24.7	12.9	12.9	—	—	—	23.4	9.8	4.5

RSEs for Table C16. Natural Gas Consumption and Expenditure Intensities, 1999

	RSEs for Natural Gas Consumption						RSEs for Natural Gas Expenditures		
	per Building	per Square Foot	per Worker	RSEs Not Available for Percentiles					
				25th Percentile	Median	75th Percentile	per Building	per Square Foot	per Thousand Cubic Feet
Climate Zone: 45-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	14.2	9.6	10.3	—	—	—	13.2	9.8	3.8
5,500-7,000 HDD	13.5	10.9	11.2	—	—	—	12.7	10.0	4.3
4,000-5,499 HDD	23.9	18.6	21.4	—	—	—	24.7	19.1	3.8
Fewer than 4,000 HDD	19.7	11.2	13.5	—	—	—	16.8	7.0	7.0
2,000 CDD or More and --									
Fewer than 4,000 HDD	13.4	13.6	18.0	—	—	—	12.7	13.2	7.2
Workers (main shift)									
Fewer than 5	11.7	10.2	12.4	—	—	—	11.4	9.3	5.3
5 to 9	13.7	13.1	14.0	—	—	—	12.5	13.1	3.9
10 to 19	18.6	15.1	17.8	—	—	—	13.8	11.6	8.9
20 to 49	17.8	19.6	19.7	—	—	—	19.4	20.7	3.6
50 to 99	10.3	8.1	10.6	—	—	—	9.5	8.1	4.0
100 to 249	18.7	12.4	15.9	—	—	—	18.3	13.0	3.3
250 or More	20.0	18.7	20.8	—	—	—	17.4	15.2	5.3
Weekly Operating Hours									
39 or Fewer	17.6	12.0	16.9	—	—	—	15.7	12.7	13.0
40 to 48	11.6	9.1	16.3	—	—	—	11.5	8.9	3.3
49 to 60	19.9	20.5	23.4	—	—	—	19.9	21.2	3.7
61 to 84	22.4	18.7	19.6	—	—	—	21.8	19.0	7.1
85 to 167	14.0	13.9	12.7	—	—	—	13.8	12.9	4.2
Open Continuously	18.1	12.3	15.6	—	—	—	16.2	9.8	4.3
Ownership and Occupancy									
Nongovernment Owned	8.8	8.4	9.4	—	—	—	9.2	8.2	2.4
Owner Occupied	11.7	9.6	10.0	—	—	—	12.3	10.1	2.1
Nonowner Occupied	20.6	20.5	19.7	—	—	—	17.8	17.4	8.4
Unoccupied	41.9	28.7	0.0	—	—	—	41.7	24.4	12.4
Government Owned	16.3	9.9	12.2	—	—	—	15.4	8.4	5.3
Federal	53.8	26.6	33.1	—	—	—	51.8	24.9	5.8
State	27.1	24.6	26.0	—	—	—	23.0	18.3	10.5
Local	18.2	7.2	9.3	—	—	—	18.0	8.3	4.1
Vacancy Status									
Completely Vacant	58.0	58.6	0.0	—	—	—	51.0	51.0	16.3
Mostly Vacant	71.4	50.1	517.0	—	—	—	53.5	32.8	14.7
Partially Vacant	16.4	6.8	13.0	—	—	—	13.9	7.7	6.4
Not At All Vacant	9.5	8.5	9.1	—	—	—	9.5	8.1	2.7
Number of Establishments									
One	9.5	9.1	10.2	—	—	—	9.6	8.9	2.8
2 to 5	15.9	8.5	12.3	—	—	—	14.7	8.7	3.4
6 to 10	28.6	11.8	11.9	—	—	—	27.8	11.1	6.3
11 to 20	27.4	17.5	25.5	—	—	—	25.9	21.2	13.4
More than 20	26.0	23.3	26.4	—	—	—	20.9	23.7	7.9
Currently Unoccupied	34.4	26.0	0.0	—	—	—	35.8	22.0	11.3
Energy Sources (more than one may apply)									
Electricity	8.6	7.8	8.4	—	—	—	8.7	7.7	2.4
Natural Gas	7.8	7.3	8.1	—	—	—	8.0	7.2	2.2
Fuel Oil	31.9	19.5	18.8	—	—	—	30.9	16.9	6.4
District Heat	53.9	42.4	34.9	—	—	—	45.3	37.0	57.2
District Chilled Water	33.5	15.5	16.7	—	—	—	33.6	18.1	13.3
Propane	60.5	51.6	46.0	—	—	—	53.4	44.1	15.4
Other	33.8	15.1	50.9	—	—	—	31.2	15.7	9.7

RSEs for Table C16. Natural Gas Consumption and Expenditure Intensities, 1999

	RSEs for Natural Gas Consumption						RSEs for Natural Gas Expenditures		
	per Building	per Square Foot	per Worker	RSEs Not Available for Percentiles					
				25th Percentile	Median	75th Percentile	per Building	per Square Foot	per Thousand Cubic Feet
Space-Heating Energy Source									
Natural Gas	8.4	7.3	8.2	—	—	—	8.4	7.2	2.4
Natural Gas Main	8.5	7.7	8.9	—	—	—	8.5	7.5	2.5
Natural Gas Secondary	18.3	13.2	12.8	—	—	—	19.1	14.0	5.7
Other Excluding Natural Gas	11.1	21.6	23.2	—	—	—	10.6	16.3	9.9
Buildings without Heating	54.8	55.5	61.5	—	—	—	55.2	55.8	7.4
Primary Space-Heating Energy Source									
Electricity	15.2	16.0	14.3	—	—	—	12.4	11.2	7.9
Natural Gas	8.5	7.7	8.9	—	—	—	8.5	7.5	2.5
Fuel Oil	87.5	27.6	32.2	—	—	—	83.3	30.5	16.6
District Heat	30.7	20.2	22.6	—	—	—	29.2	21.4	15.2
Propane	X	X	X	—	—	—	X	X	X
Other	16.5	62.9	56.4	—	—	—	49.7	39.7	65.2
Cooling Energy Source									
Natural Gas	23.2	20.7	16.3	—	—	—	21.5	19.3	7.7
Other Excluding Natural Gas	8.1	7.6	8.4	—	—	—	8.3	7.4	2.1
Buildings without Cooling	27.4	26.7	19.8	—	—	—	30.3	29.7	11.6
Water-Heating Energy Source									
Natural Gas	9.4	8.3	9.9	—	—	—	9.7	8.7	2.1
Other Excluding Natural Gas	21.8	20.1	22.9	—	—	—	15.2	14.1	8.6
Buildings without Water Heating	13.2	11.7	16.4	—	—	—	13.6	12.8	5.9
Cooking Energy Source									
Natural Gas	10.5	7.7	7.5	—	—	—	10.2	8.1	2.9
Other Excluding Natural Gas	23.7	15.5	14.3	—	—	—	23.2	16.1	5.6
Buildings without Cooking	12.6	11.3	12.3	—	—	—	11.5	10.1	4.2
Energy End Uses (more than one may apply)									
Buildings with Space Heating	7.8	7.2	7.8	—	—	—	7.9	6.9	2.3
Buildings with Cooling	7.7	7.2	7.9	—	—	—	8.0	7.1	2.0
Buildings with Water Heating	8.4	7.9	8.9	—	—	—	8.4	7.8	2.2
Buildings with Cooking	10.1	7.0	7.3	—	—	—	9.7	7.7	2.7
Buildings with Manufacturing	38.7	25.0	31.6	—	—	—	35.7	20.5	9.1
Buildings with Electricity Generation	19.9	15.7	16.5	—	—	—	15.9	13.2	5.5
Percent of Floorspace Heated									
Not Heated	54.8	55.5	61.5	—	—	—	55.2	55.8	7.4
1 to 50	32.5	29.2	28.3	—	—	—	21.0	16.8	18.3
51 to 99	26.5	27.2	27.2	—	—	—	27.1	27.8	3.1
100	6.7	6.7	6.6	—	—	—	6.5	6.0	2.4
Percent of Floorspace Cooled									
Not Cooled	27.4	26.7	19.8	—	—	—	30.3	29.7	11.6
1 to 50	20.2	17.8	20.7	—	—	—	19.9	17.3	5.4
51 to 99	11.0	6.8	9.0	—	—	—	10.1	7.0	2.7
100	9.5	8.2	9.6	—	—	—	9.3	7.0	3.4

RSEs for Table C16. Natural Gas Consumption and Expenditure Intensities, 1999

	RSEs for Natural Gas Consumption						RSEs for Natural Gas Expenditures		
	per Building	per Square Foot	per Worker	RSEs Not Available for Percentiles					
				25th Percentile	Median	75th Percentile	per Building	per Square Foot	per Thousand Cubic Feet
Heating Equipment (more than one may apply)									
Heat Pumps	26.1	28.4	26.1	—	—	—	28.1	30.1	6.8
Furnaces	18.5	17.4	20.9	—	—	—	17.9	16.3	5.3
Individual Space Heaters	10.3	8.1	7.8	—	—	—	10.5	7.9	3.0
District Heat	31.1	18.4	20.1	—	—	—	30.0	18.9	10.4
Boilers	8.4	6.3	7.4	—	—	—	8.7	6.9	2.4
Packaged Heating Units	13.9	11.3	11.1	—	—	—	10.9	8.3	4.8
Other	50.2	42.2	44.1	—	—	—	42.9	34.3	13.6
Cooling Equipment (more than one may apply)									
Residential-Type Central									
Air Conditioners	21.6	15.4	21.1	—	—	—	19.8	15.3	3.9
Heat Pumps	24.8	28.1	26.0	—	—	—	29.0	29.8	6.7
Individual Air Conditioners	13.9	9.4	15.9	—	—	—	12.3	8.8	3.5
District Chilled Water	33.5	15.5	16.7	—	—	—	33.6	18.1	13.3
Central Chillers	18.2	13.3	15.4	—	—	—	16.0	11.4	4.0
Packaged Air Conditioning									
Units	9.4	7.8	7.6	—	—	—	8.2	6.8	3.3
Swamp Coolers	33.1	20.7	19.4	—	—	—	30.9	20.2	5.7
Other	85.0	21.4	26.3	—	—	—	79.2	19.4	10.7
Main Equipment Replaced Since 1995 (more than one may apply)									
Heating	11.0	8.4	8.9	—	—	—	11.1	8.7	3.0
Cooling	7.8	7.3	9.0	—	—	—	8.1	8.6	3.4
Water Heating Equipment									
Centralized System	11.4	9.8	11.4	—	—	—	11.2	9.6	2.7
Distributed System	29.5	25.2	25.3	—	—	—	22.8	17.7	11.6
Combination of Centralized and Distributed System	18.5	12.4	14.2	—	—	—	17.8	13.4	4.8
Annual Consumption (hundred cubic feet)									
1,000 or Less	5.4	7.9	10.2	—	—	—	5.5	7.1	3.1
1,001 to 5,000	4.8	7.2	14.8	—	—	—	6.0	7.3	4.8
5,001 to 10,000	2.0	9.4	16.2	—	—	—	4.1	9.5	4.0
10,001 to 25,000	3.4	11.5	11.0	—	—	—	6.3	12.8	3.9
25,001 to 50,000	3.0	12.2	13.9	—	—	—	8.7	8.9	6.5
50,001 to 100,000	7.5	28.9	25.1	—	—	—	6.9	32.4	5.2
Over 100,000	13.6	12.9	11.5	—	—	—	12.1	12.5	4.0
Provider of Natural Gas (more than one may apply)									
Local Utility	9.2	8.2	9.1	—	—	—	8.9	7.7	2.8
Some Other Provider	23.8	8.7	12.1	—	—	—	23.3	9.9	3.9

X=No cases in responding sample reported their consumption for the particular fuel, so relative standard error could not be calculated.

RSEs for Table C17. Natural Gas Consumption and Conditional Energy Intensity by Census Region, 1999

	RSEs for Total Natural Gas Consumption				RSEs for Total Floorspace of Buildings Using Natural Gas				RSEs for Natural Gas Energy Intensity			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	15.1	12.9	19.0	12.6	9.2	7.7	9.1	7.4	12.4	8.7	18.6	9.2
Building Floorspace (Square Feet)												
1,001 to 5,000	52.1	28.3	40.5	32.7	39.9	20.8	24.6	17.7	33.6	19.1	29.0	20.9
5,001 to 10,000	52.4	25.1	54.0	31.7	27.6	22.0	25.9	20.0	26.2	18.6	52.6	26.0
10,001 to 25,000	23.9	20.1	57.0	20.2	22.2	13.8	22.9	15.6	15.1	11.7	60.1	14.1
25,001 to 50,000	22.2	13.3	23.7	25.8	20.2	13.2	14.9	13.8	15.1	10.5	20.5	20.2
50,001 to 100,000	25.5	17.4	39.6	27.6	18.7	17.4	16.2	16.0	16.2	12.8	39.2	21.0
100,001 to 200,000	27.3	28.4	31.9	36.8	16.0	15.0	18.1	26.2	17.7	20.8	21.1	23.7
200,001 to 500,000	28.2	46.8	28.5	44.8	22.3	14.9	18.2	17.7	26.9	44.9	23.2	30.0
Over 500,000	25.3	20.3	41.5	28.6	24.8	19.7	25.5	37.5	31.4	19.0	28.4	17.4
Principal Building Activity												
Education	24.5	17.0	17.8	29.1	20.9	13.9	15.7	20.1	17.0	11.7	6.1	20.4
Food Sales	51.9	57.1	40.0	48.6	42.9	57.9	30.7	36.7	10.1	43.8	18.5	25.3
Food Service	74.9	40.8	41.5	52.9	70.1	25.2	28.9	41.3	114.0	35.0	33.7	23.9
Health Care	28.4	17.5	17.8	38.5	24.4	22.0	15.6	31.6	16.5	17.4	12.4	12.9
Inpatient	28.7	19.7	22.7	45.4	25.6	28.6	21.2	48.2	16.8	20.7	10.4	5.4
Outpatient	70.4	35.7	63.2	50.7	70.7	36.0	45.8	33.1	7.9	27.2	44.3	23.0
Lodging	22.4	29.1	28.5	30.4	26.5	24.4	20.2	32.2	15.5	25.3	13.6	24.9
Mercantile	32.7	17.4	25.5	22.0	30.6	21.3	18.9	21.4	30.7	13.9	21.0	17.9
Retail (Other Than Mall)	37.4	25.7	35.3	20.2	31.8	29.9	22.9	21.3	19.4	18.8	23.9	17.9
Enclosed and Strip Malls	43.7	27.5	35.4	33.7	53.7	22.2	24.9	29.3	58.0	24.6	34.2	25.1
Office	22.6	15.8	36.8	31.8	23.1	16.9	19.0	21.3	19.8	11.4	22.4	15.9
Public Assembly	33.5	22.8	23.2	51.2	27.5	27.1	24.8	34.8	21.5	18.6	24.5	28.9
Public Order and Safety	60.9	35.0	40.9	57.7	47.9	34.0	39.5	46.1	31.5	10.6	33.9	17.7
Religious Worship	36.9	30.3	33.7	39.7	34.5	35.6	35.7	32.3	16.0	13.7	8.0	26.2
Service	88.2	23.1	49.3	51.9	65.8	25.2	32.7	41.2	165.8	14.6	42.4	25.7
Warehouse and Storage	30.3	40.8	24.5	67.5	27.0	18.7	21.3	33.5	9.5	32.3	11.2	61.9
Other	83.9	55.3	42.2	71.2	54.4	50.3	38.7	50.0	73.6	31.9	24.0	47.5
Vacant	67.2	59.3	92.8	64.9	45.9	39.7	76.7	53.3	42.5	41.5	263.9	70.1
Year Constructed												
1919 or Before	19.9	30.6	38.4	49.5	25.6	34.6	32.5	39.6	16.1	23.8	17.5	18.5
1920 to 1945	30.4	24.6	24.2	46.3	25.9	17.7	29.0	29.5	35.9	15.0	24.5	35.9
1946 to 1959	28.7	15.6	28.7	16.7	22.0	16.4	24.7	21.5	21.1	13.7	23.5	21.6
1960 to 1969	41.6	20.6	44.1	26.5	11.3	15.8	16.9	15.7	34.8	16.7	41.8	15.9
1970 to 1979	20.8	13.4	20.1	20.3	24.2	15.1	12.6	20.2	25.0	13.0	15.5	17.7
1980 to 1989	27.0	26.3	42.6	30.6	27.2	15.9	21.9	18.7	18.7	20.7	33.9	20.4
1990 to 1999	18.6	46.2	36.0	34.0	21.8	20.7	14.5	14.8	13.7	40.4	32.6	30.1
Climate Zone: 45-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	97.8	16.0	0.0	39.2	97.8	11.6	0.0	16.1	0.0	9.7	0.0	29.2
5,500-7,000 HDD	17.6	17.4	0.0	11.6	15.5	10.4	0.0	20.4	10.4	14.6	0.0	17.1
4,000-5,499 HDD	27.6	28.2	44.3	8.7	11.1	29.0	20.5	28.1	24.7	15.7	28.8	16.9
Fewer than 4,000 HDD	0.0	0.0	18.5	22.4	0.0	0.0	18.4	11.7	0.0	0.0	16.6	17.2
2,000 CDD or More and --												
Fewer than 4,000 HDD	0.0	0.0	21.4	44.9	0.0	0.0	15.6	32.8	0.0	0.0	15.3	21.2
Workers (main shift)												
Fewer than 5	28.4	19.2	22.2	32.2	27.2	21.2	24.2	17.9	11.8	16.0	22.7	20.2
5 to 9	31.3	24.4	25.1	34.0	25.1	16.0	17.9	22.1	28.3	25.2	14.7	19.6
10 to 19	25.2	18.8	37.2	26.1	23.1	22.7	16.7	15.1	15.2	12.2	35.9	24.4
20 to 49	45.9	21.3	44.3	22.5	16.1	14.7	13.3	14.8	36.1	17.1	39.0	14.8
50 to 99	28.4	16.2	34.1	37.6	21.0	13.1	17.4	23.3	20.3	11.7	19.3	23.5
100 to 249	31.2	31.7	25.6	23.5	19.8	13.8	14.8	18.4	20.4	24.4	22.6	19.0
250 or More	19.7	37.2	22.0	28.8	19.5	11.9	14.9	18.0	25.2	33.2	17.5	21.4

RSEs for Table C17. Natural Gas Consumption and Conditional Energy Intensity by Census Region, 1999

	RSEs for Total Natural Gas Consumption				RSEs for Total Floorspace of Buildings Using Natural Gas				RSEs for Natural Gas Energy Intensity			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Weekly Operating Hours												
39 or Fewer	48.8	20.3	43.3	30.1	30.5	20.9	37.7	22.4	35.2	17.5	20.1	24.8
40 to 48	27.6	12.7	16.7	30.4	17.7	11.4	14.6	15.8	19.4	12.8	12.8	20.8
49 to 60	19.0	16.3	47.6	23.8	17.2	12.2	15.6	17.6	10.6	12.1	51.1	18.6
61 to 84	36.1	16.1	51.7	24.4	21.3	12.0	14.4	13.2	30.7	12.5	51.2	15.0
85 to 167	29.4	27.4	33.2	27.1	26.5	16.7	21.4	20.1	25.1	19.9	33.7	26.4
Open Continuously	18.3	31.6	13.3	21.5	17.2	13.3	14.0	19.9	19.2	26.8	9.2	16.9
Ownership and Occupancy												
Nongovernment Owned	17.3	15.3	23.1	15.7	9.7	8.9	9.8	9.2	13.0	10.5	21.4	10.7
Owner Occupied	19.5	12.1	25.2	20.3	12.0	9.2	10.4	10.7	14.3	9.7	25.7	14.2
Nonowner Occupied	34.1	38.5	47.8	15.2	20.4	12.3	14.9	13.7	24.8	35.1	46.0	13.4
Unoccupied	88.2	70.7	71.3	59.7	75.2	53.6	68.3	50.3	61.7	20.8	46.6	24.4
Government Owned	23.1	14.4	32.5	18.7	21.0	13.6	14.5	12.1	20.9	9.1	30.4	13.9
Federal	37.9	46.5	35.0	41.4	61.5	45.6	25.4	27.0	113.7	55.1	16.8	40.7
State	27.6	31.8	55.8	24.4	38.8	32.3	24.2	29.6	31.5	17.9	55.2	23.8
Local	31.5	14.4	18.0	32.5	26.0	16.6	15.2	22.1	22.5	9.5	10.8	18.8
Vacancy Status												
Completely Vacant	0.0	73.1	94.1	98.7	0.0	52.8	80.2	86.5	0.0	21.5	313.0	87.6
Mostly Vacant	67.2	83.4	100.0	76.0	45.9	62.1	100.0	65.9	42.5	93.0	.	136.7
Partially Vacant	22.1	13.2	31.1	22.1	24.3	10.2	17.2	17.7	21.5	10.2	22.6	13.5
Not At All Vacant	16.3	15.2	20.7	14.1	10.6	9.0	8.5	8.6	12.2	11.2	21.0	9.4
Number of Establishments												
One	17.1	15.5	21.5	15.0	10.7	9.4	9.4	10.6	14.9	11.2	22.7	10.4
2 to 5	21.3	16.2	27.7	23.8	15.3	14.3	17.7	16.5	11.6	12.0	18.9	18.1
6 to 10	41.3	20.7	49.2	32.5	47.7	21.5	25.9	29.2	25.9	15.9	30.7	28.3
11 to 20	44.6	31.8	44.6	45.8	33.5	22.8	32.8	44.0	38.5	24.7	30.3	29.7
More than 20	44.0	44.6	30.5	48.5	44.7	18.8	22.2	21.6	56.3	41.3	32.0	32.1
Currently Unoccupied	88.2	66.5	71.1	69.3	75.2	49.3	66.0	44.4	61.7	20.6	45.3	44.2
Energy Sources (more than one may apply)												
Electricity	17.1	13.7	20.7	13.3	10.1	8.1	9.0	8.8	13.4	9.1	20.2	9.5
Natural Gas	15.1	12.9	19.0	12.6	9.2	7.7	9.1	7.4	12.4	8.7	18.6	9.2
Fuel Oil	21.7	37.4	16.2	33.2	16.4	17.1	17.9	23.6	20.5	31.0	14.5	22.4
District Heat	51.7	45.0	37.0	76.1	44.6	27.8	35.2	54.6	83.4	29.9	44.6	49.7
District Chilled Water	52.8	47.4	30.3	44.7	32.7	32.2	26.6	33.9	40.6	34.0	22.6	34.1
Propane	41.2	72.8	36.0	52.9	53.6	31.8	35.2	37.2	31.8	67.5	53.5	40.0
Other	42.3	38.5	25.8	30.3	35.5	38.6	27.8	38.2	29.7	21.2	30.8	22.6
Space-Heating Energy Source												
Natural Gas	16.1	13.2	20.5	14.2	11.4	8.4	9.6	8.4	12.0	9.0	20.7	10.2
Natural Gas Main	16.6	13.7	21.7	15.9	12.1	8.5	9.8	10.3	10.7	8.9	22.7	10.8
Natural Gas Secondary	35.8	36.5	24.1	24.9	34.4	21.6	24.1	17.5	49.1	29.0	20.4	21.7
Other Excluding Natural Gas	24.9	30.0	36.1	39.9	19.0	18.8	8.4	14.1	25.6	23.3	35.3	35.7
Buildings without Heating	79.7	81.0	75.4	78.2	82.3	72.2	48.1	36.0	20.8	66.2	74.7	70.3
Primary Space-Heating Energy Source												
Electricity	45.9	27.6	29.6	36.6	36.3	18.8	14.3	16.1	27.3	24.4	27.6	30.7
Natural Gas	16.6	13.7	21.7	15.9	12.1	8.5	9.8	10.3	10.7	8.9	22.7	10.8
Fuel Oil	35.8	X	48.7	100.0	26.2	X	29.6	100.0	34.8	X	52.4	0.3
District Heat	42.9	53.6	23.4	50.0	32.1	27.1	34.5	33.7	53.9	45.4	25.3	31.9
Propane	X	X	0.0	0.0	X	X	0.0	0.0	X	X	0.0	0.0
Other	80.9	96.4	100.0	91.5	49.6	83.8	100.0	75.2	21.4	79.2	.	75.8

RSEs for Table C17. Natural Gas Consumption and Conditional Energy Intensity by Census Region, 1999

	RSEs for Total Natural Gas Consumption				RSEs for Total Floorspace of Buildings Using Natural Gas				RSEs for Natural Gas Energy Intensity			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Cooling Energy Source												
Natural Gas	34.6	47.8	45.3	27.9	30.1	23.7	35.6	28.4	24.7	41.3	22.2	25.6
Other Excluding Natural Gas	15.8	13.5	19.2	14.6	10.1	8.7	9.1	9.3	13.6	9.2	18.0	10.8
Buildings without Cooling	34.6	34.4	62.0	23.7	32.1	25.2	29.5	20.4	19.1	23.2	52.0	18.1
Water-Heating Energy Source												
Natural Gas	17.4	10.7	22.8	15.1	11.6	8.8	9.8	10.3	13.5	8.7	21.2	11.0
Other Excluding Natural Gas	17.1	40.5	28.2	28.3	15.8	14.7	15.6	18.8	19.4	36.2	29.6	21.9
Buildings without Water Heating	44.4	21.5	23.3	41.6	39.1	18.6	16.6	21.3	19.0	19.0	17.2	36.3
Cooking Energy Source												
Natural Gas	13.9	10.4	15.5	17.8	14.5	8.1	8.5	17.0	15.1	10.1	15.9	13.0
Other Excluding Natural Gas	35.9	23.0	40.5	36.6	26.8	24.8	24.0	29.9	25.2	16.0	43.9	26.5
Buildings without Cooking	26.5	21.0	28.2	18.8	13.8	11.4	11.9	9.7	17.8	16.0	28.1	14.1
Energy End Uses (more than one may apply)												
Buildings with Space Heating	15.4	13.0	18.1	12.7	9.3	7.7	8.8	7.3	12.6	8.9	18.5	9.5
Buildings with Cooling	15.1	13.2	18.8	13.8	9.5	8.6	9.0	8.9	13.0	9.0	17.7	9.9
Buildings with Water Heating	15.1	14.3	19.8	13.1	9.2	7.8	9.2	8.4	13.4	10.3	19.1	9.3
Buildings with Cooking	13.7	10.0	15.1	18.2	12.5	8.8	9.1	16.5	14.5	8.9	15.2	12.7
Buildings with Manufacturing	66.2	52.9	32.0	44.8	38.2	31.3	30.6	35.1	54.6	42.4	14.6	43.5
Buildings with Electricity Generation	17.2	30.9	13.1	20.8	20.4	14.1	13.7	18.1	20.8	29.8	11.3	16.8
Percent of Floorspace Heated												
Not Heated	79.7	81.0	75.4	78.2	82.3	72.2	48.1	36.0	20.8	66.2	74.7	70.3
1 to 50	30.1	28.9	72.4	44.3	30.9	22.7	17.6	16.3	21.6	23.3	73.1	38.1
51 to 99	27.0	22.6	55.8	12.2	19.0	23.2	15.8	20.2	18.3	13.3	55.8	19.2
100	15.4	13.2	14.3	16.0	10.0	8.2	10.4	10.0	13.4	9.8	10.8	11.8
Percent of Floorspace Cooled												
Not Cooled	34.6	34.4	62.0	23.7	32.1	25.2	29.5	20.4	19.1	23.2	52.0	18.1
1 to 50	30.2	28.0	57.8	27.0	15.4	14.2	16.0	20.4	26.0	20.4	60.2	22.8
51 to 99	15.5	11.9	18.1	22.5	11.8	9.2	12.3	21.6	15.0	7.2	15.9	20.3
100	18.6	14.7	17.3	16.7	19.1	10.3	12.5	8.5	21.4	13.6	13.7	13.9
Heating Equipment (more than one may apply)												
Heat Pumps	30.9	31.8	43.6	40.6	32.1	24.8	10.9	14.8	27.3	16.8	43.0	28.3
Furnaces	38.5	29.6	55.6	20.4	20.0	16.1	16.8	19.6	25.8	20.0	47.9	12.8
Individual Space Heaters	19.6	20.2	9.8	17.5	17.2	13.9	13.0	11.9	16.8	14.8	10.2	12.5
District Heat	32.4	42.7	27.8	40.2	30.1	24.9	29.0	28.1	44.8	34.2	28.0	26.3
Boilers	15.3	12.4	15.0	19.7	10.8	11.1	9.9	13.0	13.8	7.7	11.6	13.8
Packaged Heating Units	18.8	21.3	16.2	15.2	14.5	11.4	13.1	9.1	16.7	20.7	18.4	13.5
Other	44.7	70.3	29.8	51.7	35.7	29.8	23.4	34.7	30.4	67.5	29.9	20.5
Cooling Equipment (more than one may apply)												
Residential-Type Central												
Air Conditioners	25.6	28.1	30.4	50.5	24.0	16.0	19.0	28.0	21.5	25.4	27.3	24.7
Heat Pumps	29.3	33.5	43.6	39.9	29.1	28.4	10.4	17.3	27.7	15.2	42.5	26.9
Individual Air Conditioners	18.5	23.0	12.1	27.4	15.9	17.8	14.6	17.7	15.6	14.2	11.0	18.7
District Chilled Water	52.8	47.4	30.3	44.7	32.7	32.2	26.6	33.9	40.6	34.0	22.6	34.1
Central Chillers	17.2	28.9	23.2	26.2	17.7	10.1	16.2	18.1	21.0	27.8	12.2	19.4
Packaged Air Conditioning												
Units	17.7	16.0	11.6	12.4	10.7	8.4	9.8	9.4	16.3	13.6	8.4	10.5
Swamp Coolers	73.6	61.2	66.4	30.0	75.0	39.1	58.7	20.7	216.9	39.9	107.7	20.7
Other	74.9	54.8	68.5	84.2	56.0	43.3	42.3	48.2	56.3	29.2	70.6	30.8

RSEs for Table C17. Natural Gas Consumption and Conditional Energy Intensity by Census Region, 1999

	RSEs for Total Natural Gas Consumption				RSEs for Total Floorspace of Buildings Using Natural Gas				RSEs for Natural Gas Energy Intensity			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Main Equipment Replaced Since 1995 (more than one may apply)												
Heating	22.9	20.4	22.9	29.0	19.9	19.4	16.4	18.1	9.5	11.6	20.0	19.3
Cooling	19.5	18.1	19.4	13.9	17.2	13.6	14.7	14.5	19.4	10.3	13.1	9.0
Water Heating Equipment												
Centralized System	17.9	10.7	25.2	16.9	10.4	9.6	10.6	10.7	13.8	8.6	24.7	10.0
Distributed System	23.4	44.3	24.4	10.5	24.9	12.9	15.8	13.8	16.6	41.2	13.2	13.4
Combination of Centralized and Distributed System	24.8	19.3	19.2	34.4	20.3	9.7	12.4	21.8	25.9	20.1	17.7	23.9
Annual Consumption (hundred cubic feet)												
1,000 or Less	29.0	22.2	22.0	20.7	21.2	28.2	16.7	15.5	17.2	20.5	15.8	12.5
1,001 to 5,000	26.0	18.9	17.8	15.6	17.2	16.9	17.1	13.9	16.5	11.3	9.6	14.1
5,001 to 10,000	34.2	23.1	17.4	23.2	22.6	17.3	13.3	19.9	19.1	17.8	14.5	32.1
10,001 to 25,000	40.9	20.1	25.5	23.9	20.9	17.6	15.2	16.4	41.0	15.6	21.6	16.9
25,001 to 50,000	27.2	20.8	31.6	27.2	29.4	19.0	14.1	21.8	22.6	9.2	33.5	17.1
50,001 to 100,000	27.4	27.7	60.3	24.9	28.3	31.6	24.2	20.1	31.5	13.1	40.4	15.5
Over 100,000	18.1	24.7	27.7	33.7	18.1	15.4	15.6	28.4	17.5	20.2	23.2	26.3
Provider of Natural Gas (more than one may apply)												
Local Utility	17.7	15.5	20.8	10.7	9.0	8.0	9.1	7.2	16.1	10.7	20.6	8.9
Some Other Provider	24.7	14.7	28.5	57.7	23.3	18.1	21.2	43.0	13.1	12.0	17.2	38.2

X=No cases in responding sample reported their consumption for the particular fuel, so relative standard error could not be calculated.

RSEs for Table C18. Natural Gas Expenditures by Census Region, 1999

	RSEs for Total Natural Gas Expenditures				RSEs for Natural Gas Expenditures							
					per Thousand Cubic Feet				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	16.2	12.5	20.5	12.2	3.8	3.3	5.7	3.6	13.2	8.6	19.1	8.2
Building Floorspace (Square Feet)												
1,001 to 5,000	49.2	26.6	35.1	30.9	7.6	4.5	19.1	7.5	29.6	17.4	23.9	16.9
5,001 to 10,000	49.8	23.9	53.4	32.4	3.7	6.4	10.1	5.9	23.2	16.2	49.4	25.1
10,001 to 25,000	22.5	14.8	55.8	21.5	5.1	7.4	3.8	4.6	12.6	7.5	58.0	14.0
25,001 to 50,000	23.3	13.5	21.2	26.0	4.7	2.5	6.8	5.9	15.5	10.4	17.4	19.9
50,001 to 100,000	28.5	17.2	25.1	27.0	5.5	4.9	28.2	8.0	18.0	13.0	22.2	20.6
100,001 to 200,000	30.3	31.6	34.3	35.5	12.1	8.9	6.3	6.8	21.8	25.9	22.8	20.8
200,001 to 500,000	28.0	47.9	29.2	39.2	5.4	5.3	12.0	10.1	27.3	45.9	26.3	24.8
Over 500,000	26.8	25.6	38.6	37.1	9.1	10.7	5.9	14.1	30.7	20.5	27.5	18.0
Principal Building Activity												
Education	24.2	12.9	19.6	33.3	8.5	7.7	4.8	16.0	17.7	8.6	7.1	26.7
Food Sales	54.4	54.1	40.3	47.6	19.4	30.6	8.2	5.1	25.2	38.2	15.4	25.4
Food Service	76.4	37.7	37.1	53.7	6.7	10.4	19.9	9.9	106.4	31.7	26.2	25.5
Health Care	30.2	17.6	17.8	36.0	6.5	6.6	8.7	4.7	17.5	18.0	13.3	11.9
Inpatient	31.0	21.4	23.6	46.0	6.7	7.7	8.5	5.1	18.0	22.4	13.8	7.4
Outpatient	72.3	30.7	66.3	44.9	24.3	10.6	7.9	7.9	30.5	25.9	50.5	19.4
Lodging	24.4	30.0	27.9	28.8	7.6	16.2	6.6	6.4	12.6	18.7	12.3	21.5
Mercantile	31.6	18.5	25.9	20.1	4.9	6.5	9.0	7.7	30.0	12.8	22.7	14.5
Retail (Other Than Mall)	36.5	25.2	32.1	19.4	5.3	7.0	12.5	10.8	19.4	16.3	19.1	12.9
Enclosed and Strip Malls	44.8	23.1	38.6	32.1	5.3	15.2	7.0	9.2	62.2	19.1	37.3	21.6
Office	25.8	17.8	33.7	34.4	7.2	6.6	5.8	6.6	22.8	12.9	19.3	18.1
Public Assembly	36.2	23.1	28.2	52.7	5.1	12.0	28.9	4.3	22.8	19.6	23.8	31.0
Public Order and Safety	68.8	33.8	44.6	55.5	20.4	9.2	8.0	4.1	38.4	11.6	34.7	15.5
Religious Worship	37.0	30.2	57.3	40.0	3.6	3.5	26.8	8.6	15.7	14.4	22.0	27.6
Service	89.4	23.9	52.1	42.1	1.3	5.6	13.4	13.6	166.4	13.3	41.0	16.4
Warehouse and Storage	32.5	36.5	26.2	61.6	6.7	11.8	2.9	16.9	14.4	27.7	11.6	54.1
Other	81.1	52.9	43.4	69.7	19.1	6.4	15.8	6.9	66.5	35.5	21.6	44.7
Vacant	59.1	52.5	79.8	57.8	28.8	17.8	206.8	12.9	35.0	25.3	208.0	54.4
Year Constructed												
1919 or Before	18.0	27.9	38.4	49.9	6.8	9.4	4.1	5.8	14.8	16.8	16.9	21.2
1920 to 1945	27.3	21.3	24.8	45.6	12.1	7.1	8.2	6.7	34.2	13.8	22.2	31.8
1946 to 1959	27.5	17.2	26.3	17.6	12.6	6.4	11.1	6.4	18.1	12.6	20.1	22.6
1960 to 1969	43.2	22.0	53.4	28.6	5.2	4.7	17.8	7.9	36.4	16.6	51.6	16.8
1970 to 1979	24.9	13.5	17.6	16.7	14.3	5.1	6.8	11.7	21.8	11.1	15.0	15.5
1980 to 1989	30.3	28.1	44.8	28.1	9.2	4.5	9.7	6.9	25.5	23.2	34.1	16.8
1990 to 1999	20.0	40.0	31.9	29.6	6.4	14.4	19.9	8.0	13.7	32.2	26.9	24.7
Climate Zone: 45-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	97.8	16.5	0.0	44.8	0.0	3.9	0.0	14.8	0.0	9.3	0.0	38.5
5,500-7,000 HDD	18.4	17.0	0.0	10.6	4.9	5.4	0.0	4.2	10.8	14.0	0.0	14.2
4,000-5,499 HDD	29.8	29.4	47.2	13.2	5.6	4.2	8.5	5.0	26.3	14.2	31.1	13.3
Fewer than 4,000 HDD	0.0	0.0	18.5	18.9	0.0	0.0	11.9	5.4	0.0	0.0	9.5	12.9
2,000 CDD or More and --												
Fewer than 4,000 HDD	0.0	0.0	23.4	47.9	0.0	0.0	6.6	17.2	0.0	0.0	15.0	16.2
Workers (main shift)												
Fewer than 5	27.1	18.6	30.6	33.3	4.9	3.7	19.8	5.4	12.0	14.8	22.1	20.1
5 to 9	35.5	25.4	23.5	33.3	11.3	5.3	7.8	4.3	32.0	27.0	13.3	19.2
10 to 19	24.2	15.2	29.9	23.5	7.1	9.5	21.9	11.7	11.7	15.7	25.4	20.2
20 to 49	47.5	21.1	45.7	24.2	3.1	5.4	8.0	5.5	37.1	15.5	40.4	16.0
50 to 99	29.6	14.8	34.6	36.6	15.4	6.3	5.5	7.3	20.8	10.9	20.3	21.7
100 to 249	31.0	35.1	23.4	23.6	5.6	7.6	9.4	3.5	22.0	28.8	19.4	19.0
250 or More	19.1	35.9	20.1	27.3	6.4	5.5	5.0	11.0	24.0	31.6	14.8	18.2

RSEs for Table C18. Natural Gas Expenditures by Census Region, 1999

	RSEs for Total Natural Gas Expenditures				RSEs for Natural Gas Expenditures							
					per Thousand Cubic Feet				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Weekly Operating Hours												
39 or Fewer	40.9	23.3	54.1	25.5	41.3	10.5	25.5	9.4	22.2	11.0	21.3	20.3
40 to 48	27.0	11.2	18.2	32.4	7.1	4.8	6.5	3.8	19.1	12.4	12.3	21.9
49 to 60	18.4	19.0	49.1	20.9	4.4	10.2	4.0	4.5	11.1	16.3	52.6	16.0
61 to 84	37.4	17.5	56.3	24.8	2.9	5.5	27.5	5.2	32.3	13.4	55.5	15.4
85 to 167	32.8	28.0	28.7	32.3	7.1	4.2	16.3	18.0	28.6	20.4	27.4	30.5
Open Continuously	19.8	29.7	14.7	19.1	7.5	6.9	6.7	4.7	19.5	23.4	9.7	13.7
Ownership and Occupancy												
Nongovernment Owned	18.4	14.2	24.4	14.3	3.6	4.0	4.7	4.4	13.9	10.0	21.8	9.0
Owner Occupied	21.0	13.3	26.4	18.0	4.1	4.2	5.7	6.2	15.5	11.2	25.9	11.0
Nonowner Occupied	35.2	30.2	50.4	17.5	3.7	14.8	5.8	5.9	25.2	26.1	48.8	12.8
Unoccupied	78.3	75.4	76.4	50.1	105.5	13.6	22.5	23.7	18.5	22.4	36.2	10.5
Government Owned	24.8	16.0	24.0	22.4	9.9	5.7	15.7	6.0	22.3	8.0	21.6	15.6
Federal	39.3	40.5	32.7	43.3	19.8	22.6	16.2	18.9	112.9	47.7	12.4	39.4
State	28.3	43.5	49.0	22.8	9.8	16.3	18.4	10.9	28.8	13.8	47.6	23.1
Local	33.5	14.8	20.1	34.9	14.0	4.8	7.3	4.3	25.0	9.5	14.3	20.4
Vacancy Status												
Completely Vacant	0.0	77.7	82.0	96.1	0.0	14.0	233.7	121.5	0.0	23.7	248.1	70.3
Mostly Vacant	59.1	70.5	100.0	66.0	28.8	16.2	0.0	15.1	35.0	66.4	.	104.9
Partially Vacant	19.3	18.3	28.1	21.0	8.1	13.2	10.1	2.8	19.6	13.7	19.2	12.0
Not At All Vacant	17.8	14.2	21.8	13.5	4.1	3.4	6.0	4.0	13.1	10.2	20.9	8.1
Number of Establishments												
One	18.3	14.8	22.7	14.0	4.5	3.3	6.7	4.3	15.7	10.4	22.8	9.3
2 to 5	19.2	18.6	30.3	20.4	3.8	6.6	5.3	6.4	9.0	13.6	19.7	14.1
6 to 10	41.4	21.3	43.8	31.3	5.7	12.0	10.6	20.4	29.9	12.8	27.0	22.3
11 to 20	41.3	41.9	36.9	46.9	9.0	25.4	25.3	7.8	34.4	34.8	28.5	26.3
More than 20	44.0	45.2	31.1	52.0	15.4	8.3	7.6	5.7	50.0	40.8	31.0	35.4
Currently Unoccupied	78.3	70.9	76.1	67.9	105.5	12.8	22.4	2.2	18.5	22.3	35.1	45.2
Energy Sources (more than one may apply)												
Electricity	18.3	13.1	22.2	13.1	4.4	3.5	6.1	3.9	14.2	8.5	20.7	8.3
Natural Gas	16.2	12.5	20.5	12.2	3.8	3.3	5.7	3.6	13.2	8.6	19.1	8.2
Fuel Oil	19.8	35.9	15.6	32.8	5.2	9.6	8.6	13.5	18.9	28.3	13.9	23.2
District Heat	54.6	47.7	45.4	53.1	21.2	18.1	13.3	278.1	83.3	31.3	51.5	111.9
District Chilled Water	53.8	42.1	29.2	49.7	22.3	11.8	5.3	85.5	43.4	28.2	22.2	63.6
Propane	42.1	68.2	28.0	54.9	12.7	15.9	13.9	9.1	37.2	61.6	47.3	41.9
Other	49.1	43.6	24.3	32.2	13.5	14.8	5.2	17.2	35.4	16.9	30.4	27.3
Space-Heating Energy Source												
Natural Gas	17.5	12.7	21.7	13.5	4.0	3.4	6.3	3.3	12.8	9.0	20.6	8.9
Natural Gas Main	17.9	13.0	23.3	14.8	4.7	3.4	7.0	3.5	11.6	8.7	22.6	9.4
Natural Gas Secondary	34.7	40.3	27.6	18.5	13.1	11.0	5.7	10.2	46.5	34.3	21.0	16.9
Other Excluding Natural Gas	25.0	29.6	26.5	37.4	9.9	11.0	17.5	24.0	26.0	25.2	25.1	36.3
Buildings without Heating	86.0	76.9	77.6	78.4	33.7	30.2	13.9	1.1	20.2	54.1	76.9	70.4
Primary Space-Heating Energy Source												
Electricity	42.6	32.3	20.1	30.2	8.1	9.5	16.4	10.1	19.3	30.2	17.1	24.3
Natural Gas	17.9	13.0	23.3	14.8	4.7	3.4	7.0	3.5	11.6	8.7	22.6	9.4
Fuel Oil	38.3	X	45.3	100.0	21.7	X	14.1	0.0	40.0	X	51.0	0.3
District Heat	38.2	47.3	27.6	46.5	12.8	18.2	8.5	97.6	48.8	37.4	30.0	67.7
Propane	X	X	0.0	0.0	X	X	0.0	0.0	X	X	0.0	0.0
Other	79.6	93.9	100.0	96.1	0.7	72.0	0.0	54.7	20.6	63.7	.	90.8

RSEs for Table C18. Natural Gas Expenditures by Census Region, 1999

	RSEs for Total Natural Gas Expenditures				RSEs for Natural Gas Expenditures							
					per Thousand Cubic Feet				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Cooling Energy Source												
Natural Gas	32.4	47.7	41.3	25.5	19.3	7.6	9.9	7.2	13.1	39.3	16.9	24.5
Other Excluding Natural Gas	16.8	13.2	20.1	14.4	3.3	3.4	4.3	4.0	14.8	9.1	18.1	9.8
Buildings without Cooling	33.2	36.7	71.1	17.6	8.0	6.5	40.8	7.6	14.5	26.3	63.8	13.9
Water-Heating Energy Source												
Natural Gas	19.8	11.8	24.7	14.7	5.7	3.1	5.1	3.6	14.6	9.7	22.3	10.0
Other Excluding Natural Gas	14.1	35.9	16.3	25.0	5.8	10.0	25.7	5.4	17.0	31.4	13.2	18.4
Buildings without Water Heating	42.0	21.7	20.6	29.1	21.2	5.7	10.9	62.0	29.9	19.8	14.0	13.9
Cooking Energy Source												
Natural Gas	15.1	11.5	14.7	19.2	6.8	4.7	7.0	5.4	14.7	11.1	14.3	13.6
Other Excluding Natural Gas	43.9	27.5	41.1	37.1	10.5	7.6	4.9	8.5	26.5	13.7	43.8	27.6
Buildings without Cooking	26.2	17.6	28.6	15.9	2.8	5.9	8.2	5.1	17.6	12.9	26.8	10.8
Energy End Uses (more than one may apply)												
Buildings with Space Heating	16.6	12.6	18.9	12.0	3.9	3.3	5.8	3.6	13.4	8.7	18.1	8.3
Buildings with Cooling	16.1	12.9	19.8	13.6	3.9	3.2	4.3	3.9	13.8	8.8	17.9	8.6
Buildings with Water Heating	16.4	13.7	21.5	12.7	3.8	3.1	5.8	3.4	14.3	9.8	19.6	8.1
Buildings with Cooking	16.2	11.8	15.1	19.6	6.5	4.7	6.5	5.2	15.6	9.8	14.1	13.6
Buildings with Manufacturing	62.7	50.6	31.7	45.8	12.4	9.1	7.5	5.1	49.1	37.8	12.2	43.1
Buildings with Electricity Generation	16.4	29.2	13.9	20.3	6.4	6.4	6.9	11.1	20.0	28.1	12.9	15.8
Percent of Floorspace Heated												
Not Heated	86.0	76.9	77.6	78.4	33.7	30.2	13.9	1.1	20.2	54.1	76.9	70.4
1 to 50	33.0	27.6	49.7	33.3	4.6	3.9	77.3	11.6	21.1	21.2	49.2	27.8
51 to 99	27.4	23.5	57.1	14.5	7.6	8.9	3.1	7.7	20.4	10.3	57.1	13.6
100	16.5	12.9	15.2	16.0	4.4	3.3	5.8	4.5	14.5	9.7	9.5	10.8
Percent of Floorspace Cooled												
Not Cooled	33.2	36.7	71.1	17.6	8.0	6.5	40.8	7.6	14.5	26.3	63.8	13.9
1 to 50	31.8	25.4	55.7	23.4	4.6	6.4	2.9	7.6	27.8	17.9	57.7	19.3
51 to 99	15.8	13.2	19.1	21.4	7.2	3.8	9.3	5.5	13.6	8.5	15.5	18.2
100	16.2	15.4	18.3	17.2	7.1	5.3	6.8	6.5	20.4	14.3	11.2	13.5
Heating Equipment (more than one may apply)												
Heat Pumps	30.1	31.4	45.9	34.1	7.7	17.2	7.5	7.1	26.6	22.6	44.9	22.5
Furnaces	40.0	26.5	53.6	23.7	2.4	6.9	3.4	5.4	26.8	16.9	45.6	15.5
Individual Space Heaters	20.4	21.9	12.1	15.0	6.0	3.4	6.3	7.4	16.9	15.4	10.3	10.4
District Heat	31.4	38.1	26.4	30.6	15.9	10.4	8.4	61.4	43.0	28.6	27.5	47.2
Boilers	14.5	14.1	17.5	19.9	6.5	3.8	5.0	4.2	12.9	9.8	14.2	13.1
Packaged Heating Units	20.8	18.3	14.4	11.9	5.5	7.1	11.9	5.1	18.2	16.6	13.8	10.5
Other	43.1	65.6	25.5	50.8	8.2	15.4	14.5	7.7	24.5	61.5	27.3	18.0
Cooling Equipment (more than one may apply)												
Residential-Type Central Air Conditioners	20.8	29.1	32.3	43.8	10.0	5.7	5.9	5.8	14.4	26.0	28.4	19.5
Heat Pumps	28.0	31.8	45.7	33.4	9.9	15.3	7.3	7.2	27.8	20.1	44.4	21.0
Individual Air Conditioners	18.4	23.9	13.2	28.9	7.3	5.1	6.0	6.1	15.5	15.8	11.2	17.8
District Chilled Water	53.8	42.1	29.2	49.7	22.3	11.8	5.3	85.5	43.4	28.2	22.2	63.6
Central Chillers	14.3	26.1	25.4	26.1	6.6	6.8	6.0	5.8	19.2	24.3	13.6	18.2
Packaged Air Conditioning Units	19.1	14.9	13.7	11.2	4.4	4.7	5.5	5.4	17.5	12.1	9.8	8.6
Swamp Coolers	85.3	65.8	70.1	26.4	16.4	6.2	6.8	7.6	261.4	45.6	118.7	17.3
Other	70.6	50.8	63.4	75.1	10.3	19.4	19.0	6.6	57.1	32.6	65.0	25.0

RSEs for Table C18. Natural Gas Expenditures by Census Region, 1999

	RSEs for Total Natural Gas Expenditures				RSEs for Natural Gas Expenditures							
					per Thousand Cubic Feet				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Main Equipment Replaced Since 1995 (more than one may apply)												
Heating	24.0	22.7	24.1	26.4	8.3	5.7	3.1	6.5	9.3	14.3	20.5	15.5
Cooling	20.8	21.0	22.1	15.9	8.3	7.0	4.3	5.0	19.5	14.0	15.3	9.0
Water Heating Equipment												
Centralized System	19.1	11.0	26.9	16.8	4.1	3.3	6.7	4.3	15.3	8.1	25.1	9.1
Distributed System	23.6	38.3	26.6	10.9	8.5	13.7	4.1	4.9	20.1	35.5	14.5	12.3
Combination of Centralized and Distributed System	26.2	23.8	16.8	30.1	10.9	6.6	7.8	6.4	24.9	24.7	13.8	19.2
Annual Consumption (hundred cubic feet)												
1,000 or Less	31.2	20.2	20.7	21.8	10.8	6.2	4.3	5.6	21.9	21.8	14.5	10.7
1,001 to 5,000	24.9	19.2	28.3	18.3	4.1	3.5	19.0	7.6	16.4	10.0	17.5	15.3
5,001 to 10,000	34.6	22.6	21.8	21.6	3.8	5.9	8.9	8.6	19.2	21.0	16.3	23.2
10,001 to 25,000	41.1	19.2	25.8	26.4	2.4	6.0	4.4	5.2	41.1	16.2	22.2	18.2
25,001 to 50,000	26.0	20.4	22.0	31.6	9.7	6.2	18.7	8.4	20.0	9.4	23.7	19.2
50,001 to 100,000	31.3	31.0	62.0	29.3	8.2	4.9	6.7	21.2	34.6	13.5	42.6	28.1
Over 100,000	21.1	25.5	27.1	34.3	8.1	6.7	10.2	4.7	17.7	19.7	19.9	26.7
Provider of Natural Gas (more than one may apply)												
Local Utility	18.2	14.5	21.9	11.1	4.7	4.0	5.8	3.8	16.5	10.1	20.5	8.3
Some Other Provider	27.3	16.3	29.3	59.0	7.8	5.1	8.2	6.3	15.1	11.3	22.1	38.7

X=No cases in responding sample reported their consumption for the particular fuel, so relative standard error could not be calculated.

RSEs for Table C19. Natural Gas Consumption and Conditional Energy Intensity by Building Size, 1999

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
All Buildings	15.7	10.7	12.1	9.6	6.3	6.3	13.9	11.4	12.4
Principal Building Activity									
Education	29.3	17.6	19.1	32.5	11.9	13.8	29.8	10.7	13.6
Food Sales	43.0	33.0	82.9	49.4	24.5	63.6	37.0	18.8	60.2
Food Service	29.2	40.7	77.7	25.3	35.1	89.8	23.3	14.3	149.7
Health Care	39.7	31.3	13.0	51.3	22.8	13.8	33.8	21.4	10.1
Inpatient	0.0	55.0	13.5	0.0	44.1	14.7	0.0	24.9	10.5
Outpatient	39.7	37.4	63.7	51.3	27.3	48.5	33.8	20.7	23.3
Lodging	48.6	15.1	28.8	37.1	14.8	27.9	26.3	10.0	22.1
Mercantile	25.5	19.9	27.3	23.0	19.9	19.6	18.7	13.6	23.1
Retail (Other Than Mall)	24.8	23.5	47.3	25.3	23.5	35.4	20.2	15.7	25.1
Enclosed and Strip Malls	84.5	29.9	30.9	67.7	23.7	21.7	104.6	24.6	28.6
Office	24.4	21.8	19.2	20.1	19.3	13.3	14.3	11.1	12.9
Public Assembly	38.4	18.2	42.5	31.2	20.0	31.1	26.6	14.6	28.4
Public Order and Safety	46.8	38.7	52.3	47.8	34.1	41.4	23.8	16.6	25.6
Religious Worship	29.7	22.6	53.7	30.6	22.0	28.0	14.1	11.6	21.9
Service	42.7	56.1	52.8	22.9	26.2	54.4	36.7	45.5	67.8
Warehouse and Storage	55.0	21.6	51.9	33.0	17.5	14.9	37.5	12.3	46.9
Other	63.9	52.7	53.6	70.9	27.1	44.6	43.2	41.1	28.4
Vacant	53.2	47.7	84.0	43.3	29.5	56.8	55.8	33.1	88.0
Year Constructed									
1919 or Before	23.0	17.4	41.9	20.5	19.8	42.4	16.3	19.1	32.2
1920 to 1945	24.2	28.5	29.5	23.0	21.1	19.4	15.9	15.3	28.7
1946 to 1959	26.1	14.6	24.3	22.5	14.5	16.5	21.9	13.1	19.5
1960 to 1969	37.6	16.0	16.2	18.6	15.1	13.4	30.7	13.3	12.6
1970 to 1979	24.7	10.7	16.9	20.5	10.6	14.1	20.8	8.5	14.0
1980 to 1989	22.4	34.2	26.4	22.8	13.3	15.6	27.8	32.8	19.9
1990 to 1999	37.6	14.8	48.5	26.8	9.8	11.0	29.9	11.8	46.2
Census Region and Division									
Northeast	43.4	18.0	14.9	20.6	13.7	13.1	24.4	11.0	16.7
New England	59.4	35.6	41.0	57.0	24.3	35.0	24.5	15.4	45.3
Middle Atlantic	46.3	20.5	15.7	22.1	16.7	12.7	25.9	15.3	17.1
Midwest	21.4	10.8	22.0	18.4	9.8	8.0	17.6	8.0	21.5
East North Central	26.8	12.2	28.9	21.9	10.3	8.2	21.1	10.6	28.4
West North Central	19.2	15.7	30.2	32.2	17.2	17.3	32.3	8.4	25.6
South	35.0	28.2	16.0	19.3	11.9	11.9	31.3	32.2	9.9
South Atlantic	59.1	24.0	23.8	40.5	21.5	16.3	58.7	10.5	16.4
East South Central	42.2	49.9	16.2	31.3	17.6	28.0	46.0	57.7	17.7
West South Central	30.1	20.6	30.3	27.1	13.3	22.5	21.0	20.2	13.0
West	23.0	17.3	23.6	14.8	10.2	16.1	18.4	12.2	14.8
Mountain	35.1	21.4	16.5	14.1	16.0	15.6	26.5	20.4	10.2
Pacific	28.7	24.5	28.9	23.9	13.8	19.3	19.1	16.6	19.0
Climate Zone: 45-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	29.5	18.7	22.5	22.1	11.6	18.6	20.0	15.2	16.4
5,500-7,000 HDD	23.3	11.3	23.6	14.2	10.1	8.3	17.4	7.9	22.1
4,000-5,499 HDD	32.5	41.4	15.3	27.2	10.4	14.1	32.2	38.3	13.1
Fewer than 4,000 HDD	28.2	19.4	21.1	20.5	15.1	17.5	20.7	17.1	8.3
2,000 CDD or More and --									
Fewer than 4,000 HDD	33.4	24.1	37.9	26.5	16.8	18.7	14.4	20.0	30.1

RSEs for Table C19. Natural Gas Consumption and Conditional Energy Intensity by Building Size, 1999

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
Workers (main shift)									
Fewer than 5	15.3	17.7	78.0	15.2	17.4	59.2	13.6	14.9	24.5
5 to 9	24.6	17.5	59.8	14.8	16.4	42.5	22.1	9.7	39.9
10 to 19	24.0	25.4	38.2	16.6	12.7	30.5	23.5	22.2	18.8
20 to 49	42.9	26.8	23.9	30.7	8.4	15.7	29.7	28.1	19.3
50 to 99	72.7	14.3	27.0	71.1	12.5	13.8	31.9	7.4	18.9
100 to 249	64.2	18.1	23.3	72.5	15.8	11.6	50.5	15.8	17.9
250 or More	0.0	31.9	20.6	0.0	27.3	8.9	0.0	19.9	19.6
Weekly Operating Hours									
39 or Fewer	27.7	25.9	50.5	28.9	24.2	38.4	15.3	17.7	37.0
40 to 48	21.5	13.5	22.1	14.6	10.4	21.8	16.7	9.5	15.9
49 to 60	27.3	29.2	26.4	15.5	11.2	14.9	20.5	30.8	15.8
61 to 84	41.4	28.7	19.3	24.8	9.9	12.6	38.1	26.1	16.7
85 to 167	27.6	16.0	39.2	20.2	16.2	15.0	19.7	9.6	34.9
Open Continuously	38.9	13.5	19.7	27.3	13.4	11.7	18.5	9.5	17.6
Ownership and Occupancy									
Nongovernment Owned	17.1	13.9	15.4	11.0	6.9	6.6	15.0	13.9	15.1
Owner Occupied	18.4	19.5	11.4	13.2	8.1	7.3	15.1	19.1	10.7
Nonowner Occupied	38.0	13.4	54.2	15.2	11.4	12.6	35.9	8.3	53.0
Unoccupied	56.6	51.3	X	59.5	55.2	X	78.2	23.5	X
Government Owned	29.1	16.8	13.9	21.7	8.2	11.6	28.9	15.4	12.1
Federal	53.9	31.3	31.7	68.3	36.2	30.5	111.3	35.6	41.5
State	80.1	42.1	29.5	82.3	14.4	25.2	14.2	40.9	18.2
Local	28.6	16.1	18.1	28.1	10.2	15.0	22.7	9.2	11.6
Vacancy Status									
Completely Vacant	56.6	59.9	X	59.5	40.1	X	78.2	33.5	X
Mostly Vacant	79.0	53.2	84.0	58.3	46.9	56.8	99.9	25.3	88.0
Partially Vacant	27.9	15.9	18.9	24.7	12.6	14.1	18.2	11.5	13.0
Not At All Vacant	16.2	12.2	15.3	10.0	6.6	6.5	14.8	13.4	15.1
Number of Establishments									
One	17.2	13.1	15.6	11.0	7.5	7.5	16.6	14.8	16.1
2 to 5	24.9	10.9	23.9	19.6	10.6	15.4	14.1	7.8	15.6
6 to 10	46.8	18.7	41.4	36.8	18.4	28.3	49.8	13.2	21.5
11 to 20	100.0	28.3	30.7	100.0	28.6	19.9	0.0	16.1	25.2
More than 20	99.1	35.6	30.2	99.1	27.3	15.9	0.0	18.5	29.1
Currently Unoccupied	57.2	50.0	X	52.8	51.9	X	75.3	22.9	X
Energy Sources (more than one may apply)									
Electricity	16.9	11.5	13.1	10.8	6.5	7.2	14.2	12.5	13.5
Natural Gas	15.7	10.7	12.1	9.6	6.3	6.3	13.9	11.4	12.4
Fuel Oil	73.2	19.3	22.8	57.6	18.1	9.4	42.0	13.4	22.0
District Heat	79.3	54.6	48.0	79.8	39.3	32.1	53.2	32.8	55.6
District Chilled Water	78.7	34.4	25.7	84.1	26.4	22.5	44.6	17.9	24.2
Propane	99.6	21.6	65.1	90.9	20.2	26.2	10.0	15.1	63.4
Other	47.7	26.9	33.6	43.8	25.5	31.8	24.4	12.9	23.8
Space-Heating Energy Source									
Natural Gas	13.1	11.8	12.6	10.2	6.6	7.0	11.7	12.4	12.8
Natural Gas Main	13.5	12.5	13.3	10.5	7.3	7.3	11.9	13.6	13.6
Natural Gas Secondary	40.2	19.0	26.4	36.1	15.2	18.9	30.4	14.1	28.0
Other Excluding Natural Gas	56.1	16.5	14.1	34.3	9.3	12.6	43.8	12.7	14.1
Buildings without Heating	75.1	55.8	69.9	41.8	58.4	61.4	67.4	53.2	84.8

RSEs for Table C19. Natural Gas Consumption and Conditional Energy Intensity by Building Size, 1999

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
Primary Space-Heating									
Energy Source									
Electricity	49.6	11.4	24.5	26.6	10.1	14.0	45.3	9.4	22.9
Natural Gas	13.5	12.5	13.3	10.5	7.3	7.3	11.9	13.6	13.6
Fuel Oil	76.4	50.1	38.6	84.8	22.3	31.4	59.6	43.1	40.8
District Heat	46.1	34.1	23.0	69.6	25.8	22.4	58.0	18.9	26.4
Propane	X	X	0.0	X	X	0.0	X	X	0.0
Other	105.3	83.8	80.9	105.3	68.9	49.6	0.0	51.1	21.4
Cooling Energy Source									
Natural Gas	55.6	22.6	33.3	37.1	19.9	23.6	48.6	17.1	22.1
Other Excluding Natural Gas	15.6	12.0	13.2	11.7	7.1	6.8	14.2	12.2	13.3
Buildings without Cooling	45.2	41.2	45.5	21.4	15.9	28.8	40.0	40.9	34.7
Water-Heating Energy Source									
Natural Gas	20.0	14.5	9.5	12.2	7.2	8.2	18.2	14.9	8.9
Other Excluding Natural Gas	20.3	20.1	46.6	17.1	12.0	11.2	17.2	17.4	46.0
Buildings without Water Heating	30.1	15.5	41.5	19.6	14.7	27.3	21.3	9.8	23.4
Cooking Energy Source									
Natural Gas	26.0	13.7	9.8	22.6	10.0	9.3	23.7	8.6	8.7
Other Excluding Natural Gas	38.2	24.6	20.9	36.8	18.6	19.4	16.2	19.5	21.3
Buildings without Cooking	19.0	15.7	35.7	9.0	8.5	10.5	17.4	16.2	33.0
Energy End Uses (more than one may apply)									
Buildings with Space Heating	14.1	11.0	12.1	9.8	6.4	6.3	12.4	11.6	12.4
Buildings with Cooling	15.3	11.6	12.4	11.3	6.7	6.6	13.6	11.6	12.7
Buildings with Water Heating	17.0	12.0	12.3	10.4	6.4	6.4	16.2	12.4	12.5
Buildings with Cooking	23.9	12.6	9.6	21.6	9.5	9.0	21.5	8.1	8.1
Buildings with Manufacturing	46.7	21.5	50.5	52.1	20.4	31.7	25.1	12.6	38.9
Buildings with Electricity Generation	76.3	15.9	21.2	48.6	14.5	10.6	61.2	12.9	20.8
Percent of Floorspace Heated									
Not Heated	75.1	55.8	69.9	41.8	58.4	61.4	67.4	53.2	84.8
1 to 50	29.5	52.3	54.4	24.6	13.5	19.9	23.1	51.4	43.2
51 to 99	21.8	41.7	18.1	21.4	13.7	13.4	22.2	42.2	11.7
100	16.8	7.8	13.4	9.8	6.5	7.3	15.7	5.2	13.3
Percent of Floorspace Cooled									
Not Cooled	45.2	41.2	45.5	21.4	15.9	28.8	40.0	40.9	34.7
1 to 50	26.5	28.2	40.9	20.4	10.0	13.4	23.6	29.5	36.6
51 to 99	18.7	15.0	11.7	17.3	11.7	9.6	16.4	9.9	9.6
100	22.2	9.8	12.6	11.6	9.5	12.1	19.1	6.9	12.8
Heating Equipment (more than one may apply)									
Heat Pumps	75.6	55.4	18.9	33.0	12.4	14.4	76.0	52.1	14.8
Furnaces	22.9	32.9	44.5	15.9	11.7	11.4	19.0	33.2	41.4
Individual Space Heaters	27.2	11.4	16.0	13.7	10.2	10.3	22.7	7.2	15.9
District Heat	46.1	27.5	24.4	69.6	21.3	20.4	58.0	15.7	26.9
Boilers	27.0	10.9	9.9	19.9	9.1	8.4	12.6	8.1	9.3
Packaged Heating Units	18.4	13.4	23.4	16.5	8.5	9.8	18.5	13.3	23.1
Other	46.3	22.1	59.7	51.2	24.3	22.0	45.9	21.8	55.0

RSEs for Table C19. Natural Gas Consumption and Conditional Energy Intensity by Building Size, 1999

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet	1,001 to 10,000 Square Feet	10,001 to 100,000 Square Feet	Over 100,000 Square Feet
Cooling Equipment (more than one may apply)									
Residential-Type Central									
Air Conditioners	33.4	16.5	28.8	22.7	15.6	15.3	29.8	8.3	27.4
Heat Pumps	76.1	54.3	19.2	37.0	12.8	14.1	71.9	51.0	15.9
Individual Air Conditioners	20.6	14.3	19.5	20.7	10.4	11.9	16.1	8.9	18.4
District Chilled Water	78.7	34.4	25.7	84.1	26.4	22.5	44.6	17.9	24.2
Central Chillers	69.0	19.1	17.3	62.8	16.1	10.0	18.3	12.1	16.9
Packaged Air Conditioning									
Units	17.0	6.7	16.9	11.4	6.7	7.5	14.1	4.3	16.3
Swamp Coolers	54.9	32.5	41.6	47.5	26.6	26.6	56.4	21.5	34.8
Other	70.7	35.2	57.1	90.3	25.3	42.6	270.2	30.2	24.8
Main Equipment Replaced Since 1995 (more than one may apply)									
Heating	25.8	11.3	26.4	20.4	10.9	17.4	21.5	6.0	17.1
Cooling	28.6	11.9	16.7	20.8	9.6	12.1	18.9	7.2	12.9
Water Heating Equipment									
Centralized System	19.0	16.3	12.3	10.9	7.7	8.9	17.6	16.9	8.5
Distributed System	33.6	18.0	50.7	23.9	13.6	12.1	33.2	10.2	48.5
Combination of Centralized and Distributed System	45.0	15.3	16.6	35.5	9.4	10.0	22.5	13.6	17.3
Annual Consumption (hundred cubic feet)									
1,000 or Less	12.5	21.6	30.0	13.2	19.1	23.4	6.8	15.3	23.3
1,001 to 5,000	13.0	15.5	17.7	16.3	9.5	18.5	10.0	10.1	10.0
5,001 to 10,000	21.3	12.2	24.6	22.0	11.1	24.4	12.6	5.4	18.1
10,001 to 25,000	30.2	11.2	19.6	30.0	11.8	18.4	14.5	4.9	13.9
25,001 to 50,000	64.5	13.3	14.8	58.8	12.3	14.3	17.9	5.2	6.7
50,001 to 100,000	100.3	47.1	21.1	100.3	20.6	20.9	0.0	32.4	11.3
Over 100,000	0.0	39.2	16.1	0.0	31.0	9.6	0.0	33.3	13.4
Provider of Natural Gas (more than one may apply)									
Local Utility	15.1	11.9	16.6	9.5	6.4	6.8	13.7	12.7	16.8
Some Other Provider	53.0	28.2	14.6	43.3	18.5	13.6	47.1	24.4	8.4

X=No cases in responding sample reported their consumption for the particular fuel, so relative standard error could not be calculated.

RSEs for Table C20. Natural Gas Consumption and Conditional Energy Intensity by Year Constructed, 1999

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
All Buildings	11.2	10.8	24.0	8.4	5.9	9.3	7.3	10.5	20.3
Building Floorspace (Square Feet)									
1,001 to 5,000	20.2	26.6	48.5	16.7	15.3	31.1	12.1	25.0	35.9
5,001 to 10,000	24.2	36.0	33.8	15.9	15.9	36.0	18.5	31.9	28.8
10,001 to 25,000	23.8	41.4	22.3	18.7	14.6	15.4	14.3	39.1	19.7
25,001 to 50,000	26.8	13.8	18.5	12.8	9.4	16.6	21.9	11.8	12.5
50,001 to 100,000	18.7	21.4	28.6	19.3	14.5	14.8	12.5	18.5	25.0
100,001 to 200,000	25.2	26.0	29.9	19.6	14.6	14.3	21.1	17.6	21.9
200,001 to 500,000	28.3	18.8	77.0	26.3	9.1	22.5	21.0	13.8	73.5
Over 500,000	33.1	21.5	31.0	25.4	20.1	22.7	38.0	11.5	27.0
Principal Building Activity									
Education	20.2	14.2	16.9	14.8	14.1	16.0	12.0	8.2	10.9
Food Sales	51.8	47.8	37.9	77.4	31.6	28.2	40.4	33.4	20.3
Food Service	37.0	37.7	50.5	39.8	26.2	44.4	24.2	28.5	34.8
Health Care	31.8	15.4	45.5	34.6	13.1	31.4	29.4	8.2	22.1
Inpatient	33.3	16.8	49.0	36.9	15.7	50.6	30.8	8.0	16.5
Outpatient	54.6	31.9	54.0	59.7	27.7	31.7	74.5	24.1	30.3
Lodging	46.3	18.7	22.5	35.4	15.9	22.0	35.7	13.1	14.8
Mercantile	22.2	21.4	22.8	21.5	18.4	23.1	16.7	14.2	16.6
Retail (Other Than Mall)	25.6	24.2	33.0	24.4	21.1	33.2	18.3	12.1	17.8
Enclosed and Strip Malls	43.9	31.5	33.9	39.2	22.1	29.6	38.4	26.2	28.1
Office	20.8	17.2	28.4	17.4	12.4	25.4	17.0	9.2	15.5
Public Assembly	31.5	27.2	33.1	27.0	19.2	30.5	25.3	23.6	20.7
Public Order and Safety	37.3	33.6	30.7	33.2	36.2	28.4	27.8	15.9	14.6
Religious Worship	22.0	25.2	50.3	20.1	25.4	61.2	10.2	13.8	16.9
Service	24.4	39.6	66.4	24.4	22.3	34.5	25.9	38.9	62.9
Warehouse and Storage	30.5	29.9	63.9	23.6	13.7	19.1	24.1	25.7	58.8
Other	70.9	37.8	63.7	54.9	28.3	44.2	45.0	26.0	48.6
Vacant	62.3	47.0	X	33.7	38.3	X	60.9	38.4	X
Census Region and Division									
Northeast	18.0	22.8	18.6	12.8	14.4	21.8	16.7	20.7	13.7
New England	43.7	45.2	37.5	25.5	34.4	40.0	35.5	30.8	35.6
Middle Atlantic	18.9	28.7	19.7	15.3	15.5	24.2	18.3	25.5	14.4
Midwest	17.6	12.6	46.2	16.0	9.2	20.7	7.9	9.4	40.4
East North Central	20.2	13.5	52.6	18.6	10.4	23.0	9.1	11.9	44.1
West North Central	24.0	21.3	36.3	20.4	16.2	34.9	15.5	15.3	39.9
South	16.7	24.9	36.0	18.8	10.3	14.5	14.2	23.6	32.6
South Atlantic	28.2	37.9	54.3	29.5	18.7	24.9	36.6	33.4	51.9
East South Central	22.3	50.0	36.1	34.7	17.4	29.0	19.7	41.0	18.3
West South Central	35.8	23.7	55.7	30.5	15.1	22.4	21.5	17.3	49.5
West	15.5	16.9	34.0	11.9	11.6	14.8	19.0	12.0	30.1
Mountain	24.4	26.6	29.4	11.4	21.2	25.6	24.2	10.3	13.6
Pacific	20.1	20.7	43.0	17.8	13.5	18.5	24.1	17.5	39.9
Climate Zone: 45-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	21.1	15.1	37.7	22.8	14.3	25.9	20.2	13.1	16.0
5,500-7,000 HDD	16.5	16.5	50.2	13.8	10.4	17.9	9.0	12.7	49.3
4,000-5,499 HDD	21.9	32.7	41.4	15.1	12.4	17.9	17.3	26.2	39.3
Fewer than 4,000 HDD	20.4	18.1	34.4	19.8	14.5	17.1	14.1	15.8	30.9
2,000 CDD or More and --									
Fewer than 4,000 HDD	37.8	24.6	66.1	29.4	15.8	19.2	23.6	18.3	57.9

RSEs for Table C20. Natural Gas Consumption and Conditional Energy Intensity by Year Constructed, 1999

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
Workers (main shift)									
Fewer than 5	17.1	18.6	31.2	15.0	15.8	36.2	13.7	15.9	21.1
5 to 9	20.9	17.7	54.8	17.3	14.5	29.3	20.2	10.8	35.7
10 to 19	30.1	25.7	52.4	21.5	14.5	25.2	12.9	25.1	39.2
20 to 49	23.6	34.1	38.4	14.6	11.9	17.8	13.9	30.1	30.3
50 to 99	26.3	17.8	28.6	22.5	12.7	14.1	18.3	10.1	23.4
100 to 249	28.5	23.9	22.1	18.4	14.0	14.9	20.7	17.9	18.2
250 or More	26.6	12.6	61.3	16.8	11.2	18.4	23.2	10.0	56.8
Weekly Operating Hours									
39 or Fewer	22.3	24.8	63.3	19.8	21.8	73.5	18.2	17.9	23.8
40 to 48	17.4	15.2	20.1	13.1	11.7	27.1	14.5	11.4	16.3
49 to 60	18.3	35.3	34.7	16.3	11.2	17.6	11.6	34.4	24.3
61 to 84	22.1	29.4	20.8	17.3	10.8	18.6	11.6	29.5	14.2
85 to 167	26.2	24.4	37.8	22.7	12.5	13.3	20.2	19.9	32.8
Open Continuously	23.4	10.8	48.7	19.7	11.2	15.2	22.2	7.3	43.2
Ownership and Occupancy									
Nongovernment Owned	12.8	13.1	29.4	10.1	6.4	11.4	7.9	11.6	24.5
Owner Occupied	13.3	14.1	28.1	11.2	6.9	14.2	8.9	14.2	22.5
Nonowner Occupied	19.1	28.7	53.8	14.1	11.2	16.0	14.9	25.5	49.7
Unoccupied	37.9	56.9	X	42.4	68.7	X	47.8	25.3	X
Government Owned	16.9	20.3	15.2	11.3	10.9	12.3	14.1	17.5	11.8
Federal	37.6	31.3	43.3	38.7	22.3	23.3	50.3	18.8	29.5
State	25.1	43.8	35.8	20.4	22.9	24.7	19.6	40.5	23.2
Local	24.7	14.8	16.6	16.1	12.7	17.1	15.7	8.1	11.7
Vacancy Status									
Completely Vacant	43.7	68.9	X	51.8	50.4	X	64.8	34.6	X
Mostly Vacant	80.2	56.8	X	42.2	52.8	X	73.1	51.2	X
Partially Vacant	21.2	17.7	23.2	17.4	12.8	19.4	14.5	12.0	10.8
Not At All Vacant	11.6	12.3	25.9	8.8	5.6	9.0	8.3	11.8	23.8
Number of Establishments									
One	11.3	13.0	27.3	9.5	6.8	10.2	8.2	13.3	23.2
2 to 5	18.3	14.3	27.5	16.8	12.3	20.2	16.7	8.2	18.3
6 to 10	20.2	31.9	53.3	27.8	17.6	34.8	27.0	21.4	43.4
11 to 20	44.8	25.5	48.7	31.0	23.3	31.7	34.8	23.6	26.8
More than 20	45.9	34.6	53.0	24.6	18.3	34.8	41.6	31.3	37.2
Currently Unoccupied	35.3	49.9	X	39.2	62.8	X	42.6	23.2	X
Energy Sources (more than one may apply)									
Electricity	11.8	11.6	26.4	8.7	5.9	10.0	7.9	11.3	22.5
Natural Gas	11.2	10.8	24.0	8.4	5.9	9.3	7.3	10.5	20.3
Fuel Oil	23.6	14.7	67.8	17.7	10.9	17.2	22.7	14.5	64.5
District Heat	41.4	67.9	51.8	41.7	27.6	37.2	70.9	60.5	37.1
District Chilled Water	40.4	23.1	39.7	38.7	21.3	29.0	27.5	20.6	26.6
Propane	40.9	22.7	92.5	30.6	24.2	45.9	27.4	26.3	85.2
Other	36.1	32.7	28.0	24.9	32.5	25.8	19.3	16.6	24.2
Space-Heating Energy Source									
Natural Gas	11.9	11.4	26.1	9.6	6.4	10.6	7.0	10.9	22.7
Natural Gas Main	12.2	12.1	27.6	10.4	6.4	11.4	7.1	11.8	23.8
Natural Gas Secondary	18.7	17.9	34.9	23.6	15.7	23.4	28.8	16.2	22.7
Other Excluding Natural Gas	25.2	17.5	56.8	16.4	9.8	14.3	24.1	18.4	54.7
Buildings without Heating	75.0	64.2	73.8	52.0	40.1	62.2	72.1	61.2	98.0

RSEs for Table C20. Natural Gas Consumption and Conditional Energy Intensity by Year Constructed, 1999

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
Primary Space-Heating									
Energy Source									
Electricity	26.7	13.8	44.0	17.6	10.7	15.6	26.4	14.1	40.8
Natural Gas	12.2	12.1	27.6	10.4	6.4	11.4	7.1	11.8	23.8
Fuel Oil	39.6	38.8	89.3	25.0	34.2	59.3	35.0	44.2	107.4
District Heat	32.7	27.1	45.5	29.3	20.5	26.3	40.1	21.4	38.0
Propane	0.0	X	0.0	0.0	X	0.0	0.0	X	0.0
Other	48.8	99.0	0.0	38.2	95.6	0.0	31.8	77.1	0.0
Cooling Energy Source									
Natural Gas	45.2	34.6	24.6	35.6	18.9	24.5	28.5	32.2	14.2
Other Excluding Natural Gas	12.9	11.2	25.9	10.6	6.5	9.8	8.2	10.2	22.1
Buildings without Cooling	19.0	52.2	78.5	15.9	19.5	53.3	16.1	49.3	24.8
Water-Heating Energy Source									
Natural Gas	11.7	13.4	19.0	10.0	7.1	10.1	9.0	12.2	15.7
Other Excluding Natural Gas	20.0	16.4	70.9	13.9	11.0	15.9	16.5	17.5	68.0
Buildings without Water Heating	21.1	15.7	55.8	13.7	14.2	39.2	14.4	10.6	45.7
Cooking Energy Source									
Natural Gas	17.2	10.8	23.4	13.1	9.1	11.2	12.3	8.2	22.5
Other Excluding Natural Gas	33.2	21.2	31.2	24.5	21.5	22.0	20.5	19.7	19.6
Buildings without Cooking	11.9	17.1	37.1	9.6	7.7	12.8	7.5	16.0	34.2
Energy End Uses (more than one may apply)									
Buildings with Space Heating	11.4	10.7	24.0	8.3	5.9	9.6	7.5	10.3	20.3
Buildings with Cooling	12.6	10.9	25.1	10.3	6.1	9.6	7.8	9.7	21.3
Buildings with Water Heating	11.7	11.4	25.4	8.6	6.0	8.6	8.0	10.9	21.7
Buildings with Cooking	15.7	9.9	21.4	12.7	8.5	10.1	11.6	7.4	20.4
Buildings with Manufacturing	31.7	51.9	24.6	26.6	25.7	22.0	29.1	41.6	17.6
Buildings with Electricity Generation	18.1	12.6	55.5	20.8	10.8	12.4	25.8	9.9	52.4
Percent of Floorspace Heated									
Not Heated	75.0	64.2	73.8	52.0	40.1	62.2	72.1	61.2	98.0
1 to 50	27.5	49.5	46.4	17.3	15.8	34.0	21.1	48.7	34.3
51 to 99	13.9	48.1	22.2	13.0	14.8	19.7	11.3	43.8	24.6
100	12.9	8.3	27.8	10.1	6.2	9.0	8.5	6.2	24.7
Percent of Floorspace Cooled									
Not Cooled	19.0	52.2	78.5	15.9	19.5	53.3	16.1	49.3	24.8
1 to 50	16.4	31.6	60.9	14.2	11.0	19.5	9.3	29.3	57.6
51 to 99	17.8	12.0	21.2	12.5	9.4	12.6	12.4	8.0	19.3
100	18.7	10.5	26.2	16.2	8.0	11.5	14.0	9.1	23.1
Heating Equipment (more than one may apply)									
Heat Pumps	23.6	38.3	54.4	24.8	12.8	21.6	15.9	37.4	53.9
Furnaces	14.3	28.6	58.1	13.0	10.8	23.9	12.8	24.7	50.6
Individual Space Heaters	15.9	14.2	22.6	13.7	9.1	11.1	13.6	12.2	17.9
District Heat	32.6	21.7	35.3	28.3	16.6	22.4	38.6	18.9	27.1
Boilers	14.3	9.5	24.0	11.2	7.7	13.4	9.6	7.4	19.8
Packaged Heating Units	17.3	11.4	36.4	13.3	8.0	11.7	13.2	10.8	34.5
Other	37.6	32.6	86.1	26.6	19.8	34.7	36.9	21.4	82.0

RSEs for Table C20. Natural Gas Consumption and Conditional Energy Intensity by Year Constructed, 1999

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999	1959 or Before	1960 to 1989	1990 to 1999
Cooling Equipment (more than one may apply)									
Residential-Type Central									
Air Conditioners	20.2	22.4	45.2	22.5	11.9	28.3	15.5	18.9	43.4
Heat Pumps	27.9	38.2	55.7	26.8	13.2	21.5	16.6	37.3	55.3
Individual Air Conditioners	16.4	17.0	25.3	12.8	11.4	19.8	11.4	15.3	22.5
District Chilled Water	40.4	23.1	39.7	38.7	21.3	29.0	27.5	20.6	26.6
Central Chillers	20.1	12.2	49.0	14.7	10.6	13.9	17.7	7.4	44.3
Packaged Air Conditioning									
Units	13.7	10.4	32.2	10.3	6.3	10.2	9.5	7.8	30.4
Swamp Coolers	41.8	29.5	42.3	40.6	21.6	23.6	10.8	26.4	34.3
Other	70.0	54.3	71.1	47.7	36.3	32.9	48.4	24.3	46.6
Main Equipment Replaced Since 1995 (more than one may apply)									
Heating	18.9	12.8	56.0	18.3	10.6	34.3	9.9	10.6	51.0
Cooling	19.7	10.0	44.0	15.2	9.1	28.5	13.1	6.5	36.2
Water Heating Equipment									
Centralized System	12.0	15.4	22.1	10.0	7.1	10.1	9.9	13.9	18.9
Distributed System	25.7	13.8	74.7	13.8	13.4	19.2	19.9	9.1	71.9
Combination of Centralized and Distributed System	19.5	16.9	17.0	14.8	11.1	13.5	17.8	15.7	13.8
Annual Consumption (hundred cubic feet)									
1,000 or Less	19.0	20.2	45.1	17.7	15.7	29.4	11.5	12.9	20.2
1,001 to 5,000	16.9	12.6	27.6	11.6	9.8	23.4	13.2	10.0	12.3
5,001 to 10,000	21.7	18.0	41.1	13.5	14.7	15.0	16.1	13.1	34.3
10,001 to 25,000	21.5	18.3	35.2	19.8	13.1	14.2	17.1	15.3	29.7
25,001 to 50,000	23.9	11.9	42.5	19.4	13.0	16.2	18.4	6.9	38.6
50,001 to 100,000	30.1	43.6	22.3	34.2	18.0	20.4	15.5	36.1	17.2
Over 100,000	22.0	16.2	53.8	20.8	13.0	19.5	9.6	15.9	43.9
Provider of Natural Gas (more than one may apply)									
Local Utility	11.8	12.5	27.3	8.5	6.1	9.5	7.1	11.9	24.7
Some Other Provider	26.6	15.6	53.4	21.9	14.7	24.7	16.9	9.5	42.1

X=No cases in responding sample reported their consumption for the particular fuel, so relative standard error could not be calculated.

RSEs for Table C21. Total Fuel Oil Consumption and Expenditures, 1999

	RSEs for All Buildings Using Fuel Oil			RSEs for Fuel Oil Consumption		RSEs for Fuel Oil Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total	Total
All Buildings	20.3	7.2	15.4	14.3	14.3	15.4
Building Floorspace (Square Feet)						
1,001 to 5,000	29.1	30.4	6.8	33.9	33.9	34.2
5,001 to 10,000	35.5	37.8	6.9	50.4	50.4	46.1
10,001 to 25,000	27.8	26.6	4.1	31.1	31.1	34.4
25,001 to 50,000	22.4	22.0	2.4	17.0	17.0	16.5
50,001 to 100,000	16.0	16.6	2.1	19.7	19.7	21.4
100,001 to 200,000	13.6	13.0	2.3	29.1	29.1	29.6
200,001 to 500,000	9.7	10.0	2.9	28.3	28.3	28.1
Over 500,000	13.0	13.3	3.8	36.3	36.3	32.2
Principal Building Activity						
Education	16.7	16.1	9.4	21.5	21.5	20.8
Food Sales	81.3	70.2	19.4	81.2	81.1	75.9
Food Service	63.9	50.0	43.5	58.4	58.4	58.1
Health Care	36.7	11.4	40.5	24.8	24.8	22.7
Inpatient	40.3	12.3	62.6	26.9	26.9	24.8
Outpatient	76.3	30.4	47.8	90.1	90.1	88.7
Lodging	27.1	27.2	23.3	51.2	51.2	45.2
Mercantile	41.7	25.5	31.7	65.0	65.0	67.3
Retail (Other Than Mall)	43.3	40.2	22.4	70.6	70.5	69.2
Enclosed and Strip Malls	39.5	32.8	49.4	75.8	75.6	56.8
Office	26.7	9.7	26.8	18.0	18.0	18.5
Public Assembly	50.2	26.2	44.3	52.6	52.6	53.3
Public Order and Safety	52.0	29.4	39.3	46.2	46.2	48.9
Religious Worship	47.3	40.5	42.6	41.8	41.8	41.4
Service	38.2	35.2	37.1	47.0	47.0	46.6
Warehouse and Storage	40.6	21.9	54.1	41.3	41.3	49.1
Other	76.7	34.9	36.4	66.2	66.1	65.7
Vacant	91.6	81.4	138.9	65.7	65.7	71.3
Year Constructed						
1919 or Before	35.5	22.5	32.6	24.0	24.0	25.0
1920 to 1945	43.7	22.4	31.9	27.5	27.5	26.3
1946 to 1959	23.1	19.5	20.3	25.5	25.5	28.4
1960 to 1969	33.4	15.7	24.0	22.9	22.9	28.4
1970 to 1979	29.9	13.0	27.4	33.7	33.7	25.1
1980 to 1989	35.6	11.8	26.4	37.7	37.6	39.9
1990 to 1999	52.7	12.9	54.3	31.1	31.1	37.4
Census Region and Division						
Northeast	27.3	12.0	16.7	16.8	16.8	19.5
New England	27.7	11.6	19.1	12.2	12.2	15.1
Middle Atlantic	34.6	17.2	21.1	29.7	29.7	35.2
Midwest	34.4	12.4	35.8	29.3	29.3	26.5
East North Central	48.8	18.0	40.2	58.7	58.7	49.2
West North Central	49.0	16.7	69.4	21.0	21.0	21.6
South	35.7	13.6	26.6	34.6	34.5	33.6
South Atlantic	48.0	17.8	32.7	37.5	37.4	36.7
East South Central	54.8	32.8	41.6	80.7	80.7	85.9
West South Central	52.6	13.2	68.4	34.0	34.0	39.3
West	46.3	14.8	73.9	48.0	48.0	46.4
Mountain	18.1	17.5	18.0	40.6	40.3	40.7
Pacific	56.1	18.9	107.1	59.5	59.5	56.3

RSEs for Table C21. Total Fuel Oil Consumption and Expenditures, 1999

	RSEs for All Buildings Using Fuel Oil			RSEs for Fuel Oil Consumption		RSEs for Fuel Oil Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total	Total
Climate Zone: 45-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	32.1	14.9	22.5	15.3	15.3	20.4
5,500-7,000 HDD	41.0	13.6	26.0	30.8	30.8	34.6
4,000-5,499 HDD	30.5	14.5	21.5	25.5	25.5	29.0
Fewer than 4,000 HDD	46.4	17.2	26.2	58.3	58.3	66.6
2,000 CDD or More and --						
Fewer than 4,000 HDD	45.4	20.2	56.8	35.6	35.6	37.7
Workers (main shift)						
Fewer than 5	27.5	27.1	15.9	31.1	31.1	28.3
5 to 9	35.4	27.8	16.1	34.1	34.1	35.2
10 to 19	43.4	38.3	16.6	59.7	59.7	57.8
20 to 49	28.8	17.6	20.4	24.4	24.4	24.2
50 to 99	17.5	17.2	12.1	19.3	19.3	19.7
100 to 249	16.1	13.4	9.3	23.0	23.0	22.7
250 or More	12.5	9.6	10.9	24.2	24.2	21.7
Weekly Operating Hours						
39 or Fewer	47.0	40.9	19.8	35.1	35.1	33.4
40 to 48	31.2	19.9	19.7	25.0	25.0	25.8
49 to 60	26.5	13.8	17.9	23.3	23.2	25.6
61 to 84	38.0	12.8	32.2	27.6	27.6	30.7
85 to 167	38.3	18.7	28.9	29.0	29.0	21.1
Open Continuously	26.7	9.8	26.8	19.1	19.1	19.3
Ownership and Occupancy						
Nongovernment Owned	21.2	9.1	15.9	18.1	18.1	19.5
Owner Occupied	22.5	10.0	16.1	20.1	20.1	20.4
Nonowner Occupied	32.3	17.9	35.9	32.9	32.9	26.3
Unoccupied	72.6	79.6	14.7	98.3	98.2	97.2
Government Owned	22.4	11.1	18.5	18.8	18.7	15.4
Federal	34.7	29.9	40.9	31.1	30.9	26.7
State	23.1	23.1	19.5	37.3	37.3	36.9
Local	29.4	13.2	19.0	22.3	22.3	18.8
Vacancy Status						
Completely Vacant	0.0	0.0	0.0	0.0	0.0	0.0
Mostly Vacant	91.6	81.4	138.9	65.7	65.7	71.3
Partially Vacant	31.8	11.5	25.5	21.8	21.8	19.8
Not At All Vacant	20.9	9.0	14.7	16.3	16.3	17.1
Number of Establishments						
One	22.1	9.7	15.6	17.1	17.1	18.2
2 to 5	33.8	13.0	34.5	24.5	24.5	28.9
6 to 10	34.3	21.9	22.8	62.4	62.4	46.1
11 to 20	31.7	17.7	23.6	45.7	45.6	44.0
More than 20	15.7	17.1	8.8	38.5	38.5	41.0
Currently Unoccupied	61.5	75.5	47.2	86.2	86.2	88.8
Energy Sources (more than one may apply)						
Electricity	23.0	7.8	17.7	16.2	16.2	18.2
Natural Gas	26.5	8.9	28.9	20.0	19.9	16.4
Fuel Oil	20.3	7.2	15.4	14.3	14.3	15.4
District Heat	41.9	30.4	50.1	54.9	54.9	34.2
District Chilled Water	28.1	21.6	26.1	59.3	59.3	56.4
Propane	28.9	15.1	19.3	25.2	25.2	27.6
Other	41.6	22.3	34.7	38.4	38.3	43.9

RSEs for Table C21. Total Fuel Oil Consumption and Expenditures, 1999

	RSEs for All Buildings Using Fuel Oil			RSEs for Fuel Oil Consumption		RSEs for Fuel Oil Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total	Total
Space-Heating Energy Source						
Fuel Oil	23.1	12.9	12.5	14.8	14.8	16.0
Fuel Oil Main	22.2	15.3	11.8	15.4	15.4	15.5
Fuel Oil Secondary	41.0	15.0	28.3	25.8	25.8	31.7
Other Excluding Fuel Oil	20.9	8.7	20.9	15.2	15.2	15.3
Buildings without Heating	54.9	51.9	58.1	66.8	66.7	73.1
Primary Space-Heating Energy Source						
Electricity	34.6	12.8	27.6	47.2	47.1	54.3
Natural Gas	25.7	9.5	26.9	18.3	18.3	14.3
Fuel Oil	22.2	15.3	11.8	15.4	15.4	15.5
District Heat	23.4	19.7	21.9	27.4	27.4	27.4
Propane	56.3	66.6	15.0	62.0	61.9	60.7
Other	41.0	41.6	134.2	98.8	98.8	99.0
Cooling Energy Source						
Fuel Oil	73.0	79.6	25.9	99.7	99.7	76.6
Other Excluding Fuel Oil	22.1	7.0	17.6	14.9	14.8	17.2
Buildings without Cooling	31.8	27.8	18.6	27.3	27.3	29.9
Water-Heating Energy Source						
Fuel Oil	30.7	17.4	22.5	18.1	18.1	18.4
Other Excluding Fuel Oil	21.1	7.1	18.2	17.2	17.2	19.6
Buildings without Water Heating	26.7	25.1	20.1	36.7	36.7	35.7
Cooking Energy Source						
Fuel Oil	58.1	42.4	77.0	84.4	84.4	71.8
Other Excluding Fuel Oil	24.7	8.6	20.2	18.7	18.7	20.5
Buildings without Cooking	21.2	13.1	15.3	22.0	22.0	22.2
Energy End Uses (more than one may apply)						
Buildings with Space Heating	20.4	7.3	15.5	14.4	14.4	15.5
Buildings with Cooling	22.1	7.2	17.5	15.0	15.0	17.2
Buildings with Water Heating	21.5	6.5	17.3	13.1	13.1	13.5
Buildings with Cooking	24.5	8.5	20.1	17.5	17.5	19.1
Buildings with Manufacturing	38.5	29.9	34.1	42.8	42.7	43.5
Buildings with Electricity Generation	20.6	8.1	18.4	22.2	22.2	22.2
Percent of Floorspace Heated						
Not Heated	54.9	51.9	58.1	66.8	66.7	73.1
1 to 50	39.5	25.2	25.3	45.2	45.1	38.8
51 to 99	34.4	14.9	28.9	26.4	26.3	31.0
100	21.4	7.2	16.0	16.8	16.8	19.3
Heating Equipment (more than one may apply)						
Heat Pumps	51.0	13.3	36.4	36.7	36.7	34.6
Furnaces	32.7	20.0	20.9	27.8	27.8	31.1
Individual Space Heaters	32.7	11.0	26.1	34.3	34.3	38.1
District Heat	21.7	18.1	20.4	55.3	55.3	54.0
Boilers	20.9	8.0	16.6	14.9	14.9	15.9
Packaged Heating Units	28.1	11.6	25.9	22.3	22.3	27.2
Other	41.1	14.3	41.0	36.5	36.5	32.2

RSEs for Table C21. Total Fuel Oil Consumption and Expenditures, 1999

	RSEs for All Buildings Using Fuel Oil			RSEs for Fuel Oil Consumption		RSEs for Fuel Oil Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total	Total
Water Heating Equipment						
Centralized System	25.0	10.1	18.7	17.0	17.0	18.4
Distributed System	32.8	16.6	24.9	43.2	43.1	46.8
Combination of Centralized and Distributed System	33.5	9.8	24.2	12.4	12.4	14.0
Annual Consumption (gallons)						
1,000 or Less	21.6	8.3	18.9	27.1	27.1	26.3
1,001 to 5,000	27.1	15.2	18.9	27.2	27.2	27.9
5,001 to 10,000	36.1	17.2	23.2	33.6	33.6	37.2
10,001 to 25,000	18.2	16.1	12.5	20.9	20.9	20.8
Over 25,000	15.5	14.2	8.3	15.1	15.1	16.0

RSEs for Table C22. Fuel Oil Consumption and Expenditure Intensities, 1999

	RSEs for Fuel Oil Consumption			RSEs for Fuel Oil Expenditures		
	per Building	per Square Foot	per Worker	per Building	per Square Foot	per Gallon
All Buildings	10.5	11.0	13.5	9.8	12.0	6.0
Building Floorspace (Square Feet)						
1,001 to 5,000	15.6	19.6	21.6	15.1	18.9	2.9
5,001 to 10,000	38.6	42.3	21.4	34.5	38.7	4.4
10,001 to 25,000	19.7	22.8	38.7	22.0	24.5	21.4
25,001 to 50,000	14.1	13.8	13.9	13.7	13.6	6.0
50,001 to 100,000	18.3	19.0	39.0	18.8	19.6	5.2
100,001 to 200,000	27.1	26.6	28.8	27.2	26.8	4.2
200,001 to 500,000	25.3	26.2	28.1	28.4	28.8	38.6
Over 500,000	41.1	40.6	40.4	36.6	36.0	7.1
Principal Building Activity						
Education	16.7	12.9	19.1	14.1	15.4	17.0
Food Sales	5.4	17.9	102.9	9.6	12.4	6.1
Food Service	17.5	42.2	33.3	20.4	41.9	3.7
Health Care	29.5	25.1	25.3	45.2	23.4	20.9
Inpatient	41.4	27.0	27.1	70.1	24.9	22.8
Outpatient	16.6	83.7	103.3	15.7	82.2	1.5
Lodging	49.1	51.4	44.9	42.3	45.1	8.9
Mercantile	32.7	47.7	51.0	32.6	50.0	7.3
Retail (Other Than Mall)	34.7	29.4	33.8	32.9	29.3	3.9
Enclosed and Strip Malls	76.4	79.5	101.9	38.2	69.9	58.2
Office	21.8	16.6	17.7	17.5	17.3	5.8
Public Assembly	34.0	49.0	52.0	32.5	49.6	4.0
Public Order and Safety	41.6	51.3	39.9	41.5	53.3	11.9
Religious Worship	49.7	25.6	102.9	51.5	19.7	18.6
Service	36.9	37.2	59.5	33.0	39.7	8.0
Warehouse and Storage	67.7	38.7	53.0	72.9	48.4	22.1
Other	10.1	38.9	44.1	10.1	39.2	1.3
Vacant	453.6	133.1	12.9	293.8	65.5	30.4
Year Constructed						
1919 or Before	29.1	20.4	30.1	25.3	22.0	18.7
1920 to 1945	31.9	24.5	34.1	28.2	23.8	6.8
1946 to 1959	25.7	25.6	29.9	25.5	27.6	6.7
1960 to 1969	16.4	18.0	21.3	20.0	23.4	10.2
1970 to 1979	38.7	29.3	31.4	28.3	21.4	38.2
1980 to 1989	22.0	29.4	33.9	20.5	31.8	5.6
1990 to 1999	70.9	34.4	37.2	75.1	40.4	20.8
Census Region and Division						
Northeast	15.1	10.3	13.5	12.9	12.6	8.1
New England	19.0	7.1	16.2	19.4	10.3	5.2
Middle Atlantic	21.9	19.1	23.7	20.2	23.7	15.6
Midwest	28.1	34.2	41.8	25.4	31.0	6.1
East North Central	30.8	69.8	72.2	22.5	58.8	9.7
West North Central	63.5	22.3	59.3	60.7	23.4	7.9
South	24.9	26.5	30.9	27.3	26.8	9.0
South Atlantic	27.4	24.6	32.1	30.3	25.8	10.0
East South Central	23.0	87.9	84.8	26.3	93.5	3.7
West South Central	70.2	26.7	30.6	62.1	29.7	12.4
West	45.0	44.5	53.9	31.1	43.4	12.9
Mountain	50.4	43.6	43.6	50.9	44.7	12.3
Pacific	56.6	54.7	67.8	37.6	52.1	15.5

RSEs for Table C22. Fuel Oil Consumption and Expenditure Intensities, 1999

	RSEs for Fuel Oil Consumption			RSEs for Fuel Oil Expenditures		
	per Building	per Square Foot	per Worker	per Building	per Square Foot	per Gallon
Climate Zone: 45-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	20.6	14.6	9.9	21.9	18.8	7.5
5,500-7,000 HDD	11.8	20.2	28.0	10.7	23.1	4.7
4,000-5,499 HDD	17.0	16.0	22.1	12.4	20.9	14.6
Fewer than 4,000 HDD	55.0	53.9	52.6	67.1	64.3	24.7
2,000 CDD or More and --						
Fewer than 4,000 HDD	65.0	29.8	34.3	62.6	33.1	10.6
Workers (main shift)						
Fewer than 5	24.7	21.5	24.7	22.1	19.9	7.5
5 to 9	21.6	20.1	24.6	21.8	21.5	3.4
10 to 19	21.5	19.0	27.8	19.7	17.4	2.5
20 to 49	25.4	20.5	23.7	25.2	23.6	20.7
50 to 99	13.2	16.3	14.8	13.6	17.0	4.1
100 to 249	22.0	23.0	21.6	20.9	22.7	7.4
250 or More	25.2	23.9	25.0	24.1	22.2	30.5
Weekly Operating Hours						
39 or Fewer	59.8	50.5	28.6	52.8	43.5	14.7
40 to 48	18.0	15.9	23.1	15.6	16.8	5.3
49 to 60	25.2	15.7	23.4	26.4	18.4	8.1
61 to 84	21.8	26.5	25.7	19.8	30.2	6.3
85 to 167	34.3	24.7	27.1	24.8	23.2	32.3
Open Continuously	19.5	20.7	20.8	20.3	21.7	13.2
Ownership and Occupancy						
Nongovernment Owned	11.1	14.0	16.6	11.4	14.9	4.8
Owner Occupied	12.9	14.8	18.1	13.2	14.8	2.1
Nonowner Occupied	44.3	32.8	34.8	35.5	28.0	42.4
Unoccupied	36.4	22.4	0.0	35.4	21.4	1.2
Government Owned	18.5	18.1	22.6	16.5	14.3	13.8
Federal	47.6	41.3	42.7	42.1	38.4	10.1
State	28.5	37.1	37.6	27.1	36.0	8.3
Local	22.5	17.4	14.5	20.2	13.1	17.2
Vacancy Status						
Completely Vacant	0.0	0.0	0.0	0.0	0.0	0.0
Mostly Vacant	453.6	133.1	12.9	293.8	65.5	30.4
Partially Vacant	31.8	23.5	22.0	28.9	21.2	7.9
Not At All Vacant	10.1	10.7	14.7	9.5	11.8	6.3
Number of Establishments						
One	10.7	11.9	16.1	10.3	13.6	6.9
2 to 5	33.9	22.5	23.7	32.7	26.6	8.3
6 to 10	32.1	48.9	63.6	21.8	35.1	17.8
11 to 20	35.5	36.8	33.2	33.6	34.4	7.0
More than 20	33.9	34.9	36.2	33.7	33.9	8.6
Currently Unoccupied	73.3	46.5	0.0	79.7	57.9	21.0
Energy Sources (more than one may apply)						
Electricity	12.1	12.9	16.0	11.3	14.5	5.3
Natural Gas	31.6	18.9	20.5	27.2	15.7	19.5
Fuel Oil	10.5	11.0	13.5	9.8	12.0	6.0
District Heat	73.9	56.8	55.9	41.3	32.9	35.7
District Chilled Water	64.9	57.5	62.5	61.4	53.9	7.5
Propane	20.1	18.1	21.8	21.0	20.5	6.9
Other	58.6	40.6	35.4	63.2	46.8	21.7

RSEs for Table C22. Fuel Oil Consumption and Expenditure Intensities, 1999

	RSEs for Fuel Oil Consumption			RSEs for Fuel Oil Expenditures		
	per Building	per Square Foot	per Worker	per Building	per Square Foot	per Gallon
Space-Heating Energy Source						
Fuel Oil	12.7	6.0	7.4	11.1	7.7	6.3
Fuel Oil Main	14.0	7.8	7.4	12.9	8.8	6.6
Fuel Oil Secondary	29.3	15.8	21.2	24.5	19.3	12.4
Other Excluding Fuel Oil	24.8	15.3	16.2	23.6	14.8	6.4
Buildings without Heating	44.6	78.5	94.5	52.4	80.6	26.5
Primary Space-Heating Energy Source						
Electricity	38.4	42.5	46.1	41.8	49.0	12.2
Natural Gas	31.0	17.3	18.8	30.2	13.5	8.0
Fuel Oil	14.0	7.8	7.4	12.9	8.8	6.6
District Heat	32.6	24.9	25.5	31.4	21.5	17.1
Propane	50.0	56.4	57.0	45.2	51.8	8.4
Other	98.2	100.1	102.9	98.5	100.3	14.7
Cooling Energy Source						
Fuel Oil	98.0	96.7	98.9	263.6	376.4	12707.2
Other Excluding Fuel Oil	11.5	12.4	14.5	10.7	14.3	5.9
Buildings without Cooling	21.7	22.8	25.3	19.9	24.5	5.2
Water-Heating Energy Source						
Fuel Oil	20.3	11.2	11.0	17.9	13.4	9.3
Other Excluding Fuel Oil	12.2	16.1	17.1	13.2	18.1	9.2
Buildings without Water Heating	30.5	23.4	38.2	28.6	22.0	3.8
Cooking Energy Source						
Fuel Oil	119.2	77.1	77.7	109.4	60.5	12.9
Other Excluding Fuel Oil	14.8	15.9	18.0	13.7	17.6	10.5
Buildings without Cooking	13.0	15.3	21.6	13.1	15.2	3.3
Energy End Uses (more than one may apply)						
Buildings with Space Heating	10.6	10.9	13.6	9.9	11.9	6.0
Buildings with Cooling	11.6	12.2	14.3	10.7	14.4	7.7
Buildings with Water Heating	13.1	11.4	13.2	10.8	11.6	6.6
Buildings with Cooking	15.0	14.8	16.8	13.4	16.4	10.4
Buildings with Manufacturing	48.5	40.5	45.9	46.1	40.3	10.2
Buildings with Electricity Generation	20.0	21.1	22.1	26.7	22.1	19.7
Percent of Floorspace Heated						
Not Heated	44.6	78.5	94.5	52.4	80.6	26.5
1 to 50	46.2	36.6	38.2	39.0	29.9	9.5
51 to 99	37.5	26.1	28.1	42.8	30.5	11.7
100	11.5	12.4	15.4	10.7	14.8	7.4
Heating Equipment (more than one may apply)						
Heat Pumps	44.5	34.5	35.7	37.9	31.7	9.8
Furnaces	21.6	21.4	21.8	24.6	25.3	8.4
Individual Space Heaters	29.2	29.3	33.4	21.8	31.3	25.0
District Heat	57.7	56.6	57.1	56.3	55.0	5.4
Boilers	13.1	11.1	14.2	10.7	12.3	7.1
Packaged Heating Units	30.2	22.6	22.0	34.8	27.3	14.4
Other	42.4	32.1	39.6	36.6	27.8	9.1
Water Heating Equipment						
Centralized System	14.4	13.7	16.7	12.2	14.9	8.7
Distributed System	23.7	39.2	42.6	22.4	43.5	12.3
Combination of Centralized and Distributed System	22.8	11.7	14.5	23.7	12.6	4.1

RSEs for Table C22. Fuel Oil Consumption and Expenditure Intensities, 1999

	RSEs for Fuel Oil Consumption			RSEs for Fuel Oil Expenditures		
	per Building	per Square Foot	per Worker	per Building	per Square Foot	per Gallon
Annual Consumption						
(gallons)						
1,000 or Less	17.4	25.0	25.7	15.6	23.9	3.4
1,001 to 5,000	9.0	18.7	25.9	8.0	19.5	3.7
5,001 to 10,000	3.9	23.0	25.7	15.9	27.4	18.2
10,001 to 25,000	6.6	13.7	25.1	6.6	13.2	3.8
Over 25,000	9.7	7.1	15.7	12.8	15.0	14.1

RSEs for Table C23. Fuel Oil Consumption and Conditional Energy Intensity by Census Region, 1999

	RSEs for Total Fuel Oil Consumption				RSEs for Total Floorspace of Buildings Using Fuel Oil				RSEs for Fuel Oil Energy Intensity			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	16.8	29.3	34.5	48.0	12.0	12.4	13.6	14.8	10.3	34.2	26.5	44.5
Building Floorspace (Square Feet)												
1,001 to 10,000	43.1	62.0	46.6	77.9	37.7	58.0	37.7	87.1	33.7	52.6	33.0	95.1
10,001 to 100,000	16.7	55.1	52.4	58.7	18.1	30.2	28.6	28.4	9.7	61.2	29.9	59.7
Over 100,000	19.4	29.3	36.9	59.6	11.0	16.6	14.9	18.2	17.0	29.6	35.1	51.8
Principal Building Activity												
Education	24.6	70.8	57.2	83.8	21.3	37.8	42.8	50.5	10.5	60.3	24.8	65.2
Mercantile and Service	58.9	54.2	57.4	70.7	40.1	59.3	35.1	44.3	34.2	131.1	61.7	63.4
Office	24.5	35.7	27.5	53.0	13.6	28.3	17.7	18.0	21.2	27.5	28.8	49.0
Public Assembly	58.3	54.2	62.9	56.8	37.8	67.2	41.8	53.1	49.8	56.0	68.3	20.6
Warehouse and Storage	48.0	89.0	73.0	58.7	28.5	42.5	26.7	75.1	32.7	96.4	76.2	50.7
All Others	22.6	34.5	54.6	59.9	19.1	18.8	16.1	25.2	18.4	30.3	46.9	61.9
Year Constructed												
1945 or Before	22.2	47.9	69.9	72.0	19.9	43.4	41.6	53.9	20.2	37.6	48.3	37.3
1946 to 1959	29.2	64.5	49.7	60.7	27.5	44.3	26.3	54.5	33.5	75.9	40.5	55.6
1960 to 1969	29.3	42.4	39.5	73.1	27.2	35.6	28.1	29.6	11.2	45.6	35.2	79.4
1970 to 1979	44.5	61.7	54.7	38.6	26.8	35.0	23.7	26.6	33.0	62.8	41.0	32.8
1980 to 1989	46.6	71.1	71.6	87.3	27.7	30.1	16.0	30.6	22.2	65.4	55.8	80.5
1990 to 1999	40.9	62.3	58.4	92.4	24.6	34.3	25.1	28.6	40.6	67.7	65.1	97.3
Climate Zone: 45-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	16.0	52.6	0.0	51.6	15.7	29.9	0.0	38.8	9.5	48.0	0.0	64.2
5,500-7,000 HDD	32.7	50.1	0.0	58.1	20.4	20.9	0.0	17.9	14.3	55.8	0.0	54.3
4,000-5,499 HDD	28.1	65.9	45.9	70.3	18.0	37.5	27.2	29.9	24.4	52.6	22.5	44.4
Fewer than 4,000 HDD	0.0	0.0	64.2	38.6	0.0	0.0	20.0	26.4	0.0	0.0	57.8	40.0
2,000 CDD or More and --												
Fewer than 4,000 HDD	0.0	0.0	39.9	68.0	0.0	0.0	21.6	46.8	0.0	0.0	34.8	48.4
Workers (main shift)												
Less than 10.....	27.6	57.4	46.1	50.3	28.0	41.2	33.5	61.4	19.5	49.8	33.3	66.1
10 to 99.....	26.5	62.8	59.1	72.4	23.6	16.8	26.9	33.8	8.4	56.9	30.4	46.2
100 or More.....	20.5	28.7	32.7	47.2	13.2	17.0	14.4	14.8	18.4	27.3	31.9	48.4
Weekly Operating Hours												
48 or fewer.....	24.4	72.4	56.7	60.7	26.2	49.9	39.3	35.1	20.3	56.8	25.3	90.1
49 to 84.....	23.6	65.2	33.4	74.7	15.8	23.6	15.3	22.5	14.1	65.5	31.6	66.1
85 to 168.....	21.4	30.5	49.4	58.1	14.8	20.2	17.3	20.4	18.0	26.6	46.7	58.8
Ownership and Occupancy												
Nongovernment Owned	22.6	26.8	31.3	44.4	17.4	16.5	14.5	16.7	14.7	23.1	26.7	43.5
Owner Occupied	26.2	27.8	28.0	47.8	20.5	16.9	13.2	18.3	16.7	22.0	24.5	47.4
Nonowner Occupied	39.1	48.4	67.6	87.1	21.5	41.4	35.4	41.2	33.5	46.6	68.4	84.5
Unoccupied	101.7	0.0	100.0	0.0	101.7	0.0	100.0	0.0	0.0	0.0	0.0	0.0
Government Owned	21.9	63.6	50.1	59.6	18.1	29.3	20.4	20.8	19.2	63.0	34.6	51.5
Federal	39.3	75.9	58.8	92.3	52.8	71.4	24.8	57.2	90.0	64.8	55.6	118.3
State	35.0	72.9	69.3	98.9	37.7	43.4	43.4	49.6	43.1	58.0	59.5	101.5
Local	26.0	45.8	53.6	66.3	21.9	46.8	30.1	60.8	12.2	41.9	31.9	18.5
Vacancy Status												
Completely Vacant.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mostly Vacant	65.7	0.0	0.0	102.1	86.6	0.0	0.0	102.1	236.9	0.0	0.0	0.0
Partially Vacant	27.1	39.4	32.2	72.5	21.5	27.6	20.1	21.4	21.9	45.0	30.8	69.5
Not At All Vacant	19.6	30.0	35.6	48.1	15.2	14.3	15.2	16.7	10.4	36.7	24.3	43.7

RSEs for Table C23. Fuel Oil Consumption and Conditional Energy Intensity by Census Region, 1999

	RSEs for Total Fuel Oil Consumption				RSEs for Total Floorspace of Buildings Using Fuel Oil				RSEs for Fuel Oil Energy Intensity			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Number of Establishments												
One	20.4	32.4	42.2	48.4	15.5	17.0	17.1	17.6	12.5	39.7	28.8	46.8
2 to 5	29.3	67.0	54.3	55.3	20.4	40.2	21.4	38.0	21.5	69.3	50.7	51.8
6 to 10	72.1	78.6	59.5	61.7	62.5	55.0	35.8	55.4	24.7	81.7	43.6	36.0
11 to 20	51.6	81.2	93.3	54.7	30.6	39.8	36.0	44.6	40.6	63.8	67.0	39.8
More than 20	50.7	43.7	54.9	39.9	31.4	50.2	27.1	22.6	40.4	24.8	75.4	34.1
Currently Unoccupied	86.7	0.0	100.0	0.0	81.0	0.0	100.0	0.0	34.6	0.0	0.0	0.0
Energy Sources (more than one may apply)												
Electricity	19.7	31.0	34.7	49.1	13.9	14.8	15.5	16.9	12.0	39.5	26.6	46.2
Natural Gas	28.7	28.2	32.7	68.0	16.4	17.1	17.9	23.6	23.4	24.0	33.9	52.7
Fuel Oil	16.8	29.3	34.5	48.0	12.0	12.4	13.6	14.8	10.3	34.2	26.5	44.5
District Heat	57.0	52.2	72.6	86.1	48.7	47.5	36.8	48.8	90.5	42.5	30.1	105.1
District Chilled Water	70.6	45.4	30.3	51.5	34.2	51.5	18.7	57.5	51.5	10.3	26.9	49.2
Propane	26.1	58.8	71.3	82.6	22.6	35.5	41.1	42.9	10.3	94.1	46.4	90.8
Other	58.7	70.7	55.8	88.5	36.6	43.4	41.2	55.2	56.0	63.7	63.0	93.7
Space-Heating Energy Source												
Fuel Oil	17.0	35.6	36.7	62.5	16.8	20.1	27.3	44.9	8.7	30.1	16.3	26.9
Fuel Oil Main	17.6	67.4	40.3	63.5	17.3	61.6	35.3	63.3	10.0	12.6	19.3	43.1
Fuel Oil Secondary	38.1	30.8	28.5	77.2	30.9	22.0	21.9	38.3	18.5	20.3	27.1	83.9
Other Excluding Fuel Oil	33.6	28.1	25.9	30.3	13.8	16.0	16.0	16.1	34.6	26.3	22.2	29.8
Buildings without Heating	0.0	0.0	81.0	90.3	0.0	0.0	52.4	86.7	0.0	0.0	83.6	513.8
Primary Space-Heating Energy Source												
Electricity	71.6	51.6	51.8	86.3	28.2	38.3	16.9	24.9	50.1	46.4	49.0	71.1
Natural Gas	34.5	27.4	30.7	33.0	24.7	17.9	16.6	24.6	24.5	23.2	27.5	31.4
Fuel Oil	17.6	67.4	40.3	63.5	17.3	61.6	35.3	63.3	10.0	12.6	19.3	43.1
District Heat	44.3	46.7	42.3	72.4	28.4	41.2	35.3	41.2	43.1	40.3	23.5	76.2
Propane	97.9	99.8	99.8	100.0	95.5	81.0	101.5	100.1	12.7	21.9	13.4	.
Other	99.0	100.2	0.0	0.0	44.5	100.2	0.0	0.0	100.2	0.0	0.0	0.0
Cooling Energy Source												
Fuel Oil	99.9	0.0	69.6	0.0	95.9	100.0	60.0	0.0	86.7	0.0	47.3	0.0
Other Excluding Fuel Oil	17.1	35.5	38.0	53.2	11.4	12.9	14.0	15.6	10.9	39.3	28.9	51.6
Buildings without Cooling	29.4	83.3	71.2	88.9	34.7	73.1	56.3	75.2	33.6	40.7	51.7	28.7
Water-Heating Energy Source												
Fuel Oil	19.6	65.4	71.1	65.7	20.0	36.4	52.1	66.4	13.2	47.9	23.9	10.5
Other Excluding Fuel Oil	23.8	26.5	25.9	28.5	10.4	15.5	13.3	15.3	21.0	25.8	24.4	29.9
Buildings without Water Heating	45.9	57.9	54.5	94.7	49.5	52.5	31.8	47.9	26.4	30.0	46.9	106.8
Cooking Energy Source												
Fuel Oil	97.7	100.0	88.2	0.0	58.2	100.0	62.6	0.0	59.8	0.0	78.2	0.0
Other Excluding Fuel Oil	20.7	49.2	51.2	53.4	13.2	19.7	16.1	20.0	13.8	49.6	40.4	48.2
Buildings without Cooking	27.6	13.5	33.3	38.6	22.6	22.4	16.2	23.6	14.6	23.6	33.1	42.5
Energy End Uses (more than one may apply)												
Buildings with Space Heating	16.8	29.3	34.9	48.6	12.0	12.4	13.8	14.9	10.3	34.2	26.4	45.1
Buildings with Cooling	17.2	35.5	38.0	53.2	11.4	12.9	14.0	15.6	10.8	39.3	29.0	51.6
Buildings with Water Heating	15.0	29.1	37.5	47.6	9.8	14.4	13.9	15.3	11.3	36.6	29.3	43.1
Buildings with Cooking	18.8	48.3	50.5	53.4	12.9	19.6	15.9	20.0	12.5	48.7	40.0	48.2
Buildings with Manufacturing	54.6	99.8	91.6	74.7	46.9	72.2	41.7	52.1	60.7	106.2	51.9	82.8
Buildings with Electricity Generation	27.0	26.3	52.0	53.1	14.1	14.4	13.9	15.6	22.7	26.0	49.1	54.1

RSEs for Table C23. Fuel Oil Consumption and Conditional Energy Intensity by Census Region, 1999

	RSEs for Total Fuel Oil Consumption				RSEs for Total Floorspace of Buildings Using Fuel Oil				RSEs for Fuel Oil Energy Intensity			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Percent of Floorspace Heated												
Not Heated	0.0	0.0	81.0	90.3	0.0	0.0	52.4	86.7	0.0	0.0	83.6	513.8
1 to 50	50.0	75.8	54.9	56.9	48.8	62.8	34.3	36.0	54.0	25.6	53.6	46.3
51 to 99	34.3	52.1	46.9	65.5	29.4	41.0	20.4	23.3	29.7	41.9	48.2	66.9
100	18.6	30.0	43.6	53.1	10.7	13.1	16.9	16.3	11.8	36.9	28.0	51.0
Heating Equipment (more than one may apply)												
Heat Pumps	45.7	57.9	68.4	67.2	28.1	43.1	18.8	29.8	41.5	46.4	57.7	48.9
Furnaces	32.4	50.2	62.1	44.0	33.5	37.5	29.3	42.2	25.8	52.6	57.0	19.6
Individual Space Heaters	42.7	51.1	46.9	57.2	23.9	23.8	15.9	23.7	29.4	47.0	40.5	60.9
District Heat	66.0	44.8	39.9	67.3	26.9	37.5	30.3	35.5	70.4	38.9	22.6	69.4
Boilers	16.8	32.8	37.6	51.3	12.5	18.8	18.2	21.8	8.9	35.4	24.4	45.7
Packaged Heating Units	27.5	43.8	45.9	52.7	20.5	26.4	18.1	23.1	22.9	44.9	47.3	52.1
Other	46.8	55.6	68.1	64.9	30.9	41.4	17.8	41.8	30.6	87.3	65.4	37.0
Water Heating Equipment												
Centralized System	20.0	45.7	40.1	54.5	14.5	20.0	20.1	24.3	14.1	45.5	28.8	54.1
Distributed System	46.8	54.4	52.0	60.5	29.0	44.4	22.5	25.5	39.6	73.0	47.0	50.7
Combination of Centralized and Distributed System	13.0	40.4	37.6	58.0	18.0	22.3	18.5	19.4	18.0	39.3	33.5	46.5
Annual Consumption (gallons)												
1,000 or Less	35.6	33.3	48.4	50.4	14.8	16.2	13.9	19.4	32.3	32.6	45.9	49.6
1,001 to 5,000	34.3	34.9	44.3	45.9	28.3	29.8	26.3	31.0	15.7	37.8	34.6	27.3
5,001 to 10,000	39.8	7.5	58.1	45.3	29.8	43.5	41.2	52.8	26.0	85.3	22.3	35.3
10,001 to 25,000	23.4	57.8	47.4	51.0	22.5	41.6	35.0	49.5	19.1	21.8	24.1	30.8
Over 25,000	17.9	82.8	49.7	65.8	17.7	53.2	43.8	66.2	6.7	65.8	25.0	32.4

Table C24. Fuel Oil Expenditures by Census Region, 1999

	Total Fuel Oil Expenditures (million dollars)				Fuel Oil Expenditures (dollars)							
					per Gallon				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
All Buildings	704	27	180	45	0.71	0.79	0.86	0.80	0.13	0.01	0.05	0.03
Building Floorspace (Square Feet)												
1,001 to 10,000	196	Q	75	Q	0.86	Q	0.98	Q	0.28	Q	0.20	Q
10,001 to 100,000	313	Q	Q	Q	0.73	0.76	0.74	0.75	0.18	Q	0.05	Q
Over 100,000	196	12	56	Q	0.59	0.75	0.82	0.72	0.07	0.01	0.02	0.01
Principal Building Activity												
Education	164	Q	Q	Q	0.60	Q	0.59	Q	0.18	Q	0.09	Q
Mercantile and Service	Q	Q	Q	Q	0.81	Q	0.93	Q	0.15	Q	Q	Q
Office	113	3	47	Q	0.74	0.94	0.93	0.88	0.09	0.00	0.04	0.01
Public Assembly	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Warehouse and Storage	28	Q	Q	Q	0.74	Q	Q	Q	0.06	Q	Q	Q
All Others	182	9	Q	Q	0.72	0.76	0.83	0.87	0.15	0.01	0.04	Q
Year Constructed												
1945 or Before	228	Q	Q	Q	0.74	Q	Q	Q	0.16	Q	Q	Q
1946 to 1959	130	Q	Q	Q	0.75	Q	Q	Q	0.13	Q	Q	Q
1960 to 1969	143	Q	34	Q	0.72	Q	0.73	Q	0.16	Q	0.05	Q
1970 to 1979	95	Q	Q	4	Q	0.66	0.71	0.93	0.11	Q	0.03	0.01
1980 to 1989	Q	Q	Q	Q	0.73	0.80	0.79	0.82	0.10	Q	Q	Q
1990 to 1999	34	Q	Q	Q	0.60	0.99	1.21	0.80	0.06	Q	Q	Q
Climate Zone: 45-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	196	Q	N	Q	0.70	0.83	N	Q	0.23	Q	N	Q
5,500-7,000 HDD	299	13	N	Q	0.72	0.73	N	0.80	0.13	0.01	N	Q
4,000-5,499 HDD	209	Q	125	Q	0.71	Q	0.79	0.75	0.09	Q	0.09	Q
Fewer than 4,000 HDD	N	N	Q	5	N	N	1.05	0.99	N	N	Q	0.01
2,000 CDD or More and --												
Fewer than 4,000 HDD	N	N	13	Q	N	N	1.03	Q	N	N	0.01	Q
Workers (main shift)												
Less than 10.....	197	Q	58	Q	0.86	Q	0.99	Q	0.18	Q	0.15	Q
10 to 99.....	339	Q	Q	Q	0.71	0.73	0.81	0.61	0.20	0.02	0.07	0.03
100 or More.....	169	13	60	14	0.59	0.76	0.80	0.87	0.07	0.01	0.02	0.01
Weekly Operating Hours												
48 or fewer.....	164	Q	Q	Q	0.74	Q	0.81	Q	0.17	Q	0.11	Q
49 to 84.....	312	Q	80	Q	0.74	0.79	0.91	0.65	0.13	Q	0.06	Q
85 to 168.....	228	12	40	Q	0.65	0.77	0.83	0.88	0.11	0.01	0.02	Q
Ownership and Occupancy												
Nongovernment Owned	507	17	148	21	0.75	0.86	0.94	0.84	0.13	0.01	0.05	0.02
Owner Occupied	432	16	125	19	0.74	0.85	0.93	0.83	0.13	0.01	0.05	0.02
Nonowner Occupied	75	Q	Q	Q	Q	Q	0.98	Q	0.15	Q	Q	Q
Unoccupied	Q	N	Q	N	Q	N	Q	N	Q	N	Q	N
Government Owned	198	Q	Q	Q	0.61	0.69	0.61	0.77	0.12	Q	0.04	0.07
Federal	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
State	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Local	169	Q	Q	Q	0.61	Q	0.58	Q	0.18	Q	0.05	Q
Vacancy Status												
Completely Vacant.....	N	N	N	N	N	N	N	N	N	N	N	N
Mostly Vacant	Q	N	N	Q	Q	N	N	Q	Q	N	N	Q
Partially Vacant	106	2	15	Q	0.71	0.88	0.96	0.66	0.08	0.00	0.01	Q
Not At All Vacant	594	25	165	Q	0.71	0.78	0.85	0.82	0.15	0.01	0.06	0.03

Table C24. Fuel Oil Expenditures by Census Region, 1999

	Total Fuel Oil Expenditures (million dollars)				Fuel Oil Expenditures (dollars)							
					per Gallon				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Number of Establishments												
One	522	23	143	39	0.71	0.78	0.85	0.80	0.15	0.01	0.06	0.04
2 to 5	103	Q	Q	Q	0.70	Q	0.93	Q	0.14	Q	Q	Q
6 to 10	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
11 to 20	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
More than 20	Q	Q	Q	1	0.83	Q	0.84	0.96	0.03	Q	Q	0.00
Currently Unoccupied	Q	N	Q	N	Q	N	Q	N	Q	N	Q	N
Energy Sources (more than one may apply)												
Electricity	702	27	180	45	0.71	0.79	0.86	0.80	0.13	0.01	0.05	0.03
Natural Gas	194	17	70	Q	0.64	0.85	0.88	0.70	0.08	0.01	0.03	0.01
Fuel Oil	704	27	180	45	0.71	0.79	0.86	0.80	0.13	0.01	0.05	0.03
District Heat	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
District Chilled Water	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Propane	195	Q	Q	Q	0.71	Q	0.90	Q	0.18	Q	0.10	Q
Other	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Space-Heating Energy Source												
Fuel Oil	694	19	163	Q	0.71	0.73	0.85	0.75	0.19	0.03	0.14	0.13
Fuel Oil Main	621	Q	143	Q	0.70	Q	0.85	Q	0.22	Q	0.20	Q
Fuel Oil Secondary	73	12	20	Q	0.75	0.80	0.85	Q	0.09	0.02	0.05	Q
Other Excluding Fuel Oil	10	8	15	11	0.78	0.97	0.89	0.97	0.01	0.00	0.01	0.01
Buildings without Heating	N	N	Q	Q	N	N	Q	Q	N	N	Q	Q
Primary Space-Heating Energy Source												
Electricity	Q	Q	Q	Q	0.88	Q	0.95	0.90	Q	Q	0.01	Q
Natural Gas	31	16	16	7	0.63	0.85	0.81	1.02	0.03	0.01	0.01	0.01
Fuel Oil	621	Q	143	Q	0.70	Q	0.85	Q	0.22	Q	0.20	Q
District Heat	3	Q	Q	Q	0.89	Q	Q	Q	0.00	Q	Q	Q
Propane	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	0.26
Other	Q	Q	N	N	Q	Q	N	N	Q	Q	N	N
Cooling Energy Source												
Fuel Oil	Q	Q	Q	N	Q	Q	Q	N	Q	Q	Q	N
Other Excluding Fuel Oil	530	23	159	Q	0.69	0.78	0.85	0.88	0.12	0.01	0.04	Q
Buildings without Cooling	150	Q	Q	Q	0.80	Q	Q	Q	0.19	Q	Q	Q
Water-Heating Energy Source												
Fuel Oil	386	Q	Q	Q	0.68	Q	0.73	Q	0.23	Q	0.14	Q
Other Excluding Fuel Oil	244	17	105	28	0.73	0.86	0.90	0.86	0.08	0.01	0.03	0.02
Buildings without Water Heating	74	Q	Q	Q	0.84	Q	0.95	Q	0.11	Q	0.08	Q
Cooking Energy Source												
Fuel Oil	Q	Q	Q	N	Q	Q	Q	N	Q	Q	Q	N
Other Excluding Fuel Oil	294	14	Q	Q	0.65	0.72	0.71	0.70	0.10	0.01	0.03	0.02
Buildings without Cooking	405	12	104	26	0.76	0.89	1.00	0.88	0.17	0.01	0.08	0.04
Energy End Uses (more than one may apply)												
Buildings with Space Heating	704	27	178	44	0.71	0.79	0.86	0.80	0.13	0.01	0.05	0.03
Buildings with Cooling	555	23	159	Q	0.69	0.78	0.85	0.88	0.12	0.01	0.04	Q
Buildings with Water Heating	630	26	152	42	0.70	0.77	0.84	0.78	0.13	0.01	0.04	0.03
Buildings with Cooking	299	15	Q	Q	0.65	0.72	0.71	0.70	0.10	0.01	0.03	0.02
Buildings with Manufacturing	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
Buildings with Electricity Generation	159	12	Q	Q	0.63	0.83	0.93	0.88	0.06	0.01	Q	Q

Table C24. Fuel Oil Expenditures by Census Region, 1999

	Total Fuel Oil Expenditures (million dollars)				Fuel Oil Expenditures (dollars)							
					per Gallon				per Square Foot			
	North-east	Mid-west	South	West	North-east	Mid-west	South	West	North-east	Mid-west	South	West
Percent of Floorspace Heated												
Not Heated	N	N	Q	Q	N	N	Q	Q	N	N	Q	Q
1 to 50	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
51 to 99	69	Q	Q	Q	0.77	Q	0.96	0.89	0.09	Q	Q	Q
100	597	24	122	Q	0.70	0.75	0.82	0.77	0.14	0.01	0.05	0.04
Heating Equipment (more than one may apply)												
Heat Pumps	23	Q	Q	Q	0.63	Q	0.94	1.21	0.04	Q	Q	Q
Furnaces	136	Q	Q	Q	0.82	Q	1.14	Q	0.15	Q	Q	Q
Individual Space Heaters	Q	7	Q	Q	0.70	0.86	0.86	0.79	0.07	0.01	0.03	Q
District Heat	Q	Q	2	Q	0.66	Q	0.74	Q	Q	Q	0.00	Q
Boilers	554	20	107	23	0.68	0.72	0.76	0.71	0.16	0.01	0.07	0.02
Packaged Heating Units	84	4	Q	6	0.64	0.88	1.02	0.97	0.06	0.00	Q	0.01
Other	23	Q	Q	Q	0.68	Q	0.75	Q	0.06	Q	Q	Q
Water Heating Equipment												
Centralized System	450	17	132	Q	0.70	0.77	0.84	0.78	0.17	0.02	0.07	Q
Distributed System	Q	Q	Q	Q	0.75	Q	0.90	Q	0.11	Q	Q	Q
Combination of Centralized and Distributed System	86	7	7	7	0.64	0.76	0.81	0.73	0.07	0.01	0.01	0.01
Annual Consumption (gallons)												
1,000 or Less	43	7	23	7	0.99	1.24	1.11	1.13	0.02	0.00	0.01	0.01
1,001 to 5,000	186	6	71	18	0.85	0.87	0.94	0.90	0.17	0.02	0.10	0.07
5,001 to 10,000	121	Q	Q	Q	0.78	Q	Q	Q	0.25	Q	Q	Q
10,001 to 25,000	95	Q	Q	Q	0.69	Q	Q	Q	0.19	Q	Q	Q
Over 25,000	260	Q	Q	Q	0.59	Q	Q	Q	0.19	Q	Q	Q

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.

RSEs for Table C25. Total District Heat Consumption and Expenditures, 1999

	RSEs for All Buildings Using District Heat			RSEs for District Heat Consumption	RSEs for District Heat Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total
All Buildings	28.6	15.7	22.6	16.7	17.1
Building Floorspace (Square Feet)					
1,001 to 5,000	92.8	90.7	2.5	93.3	75.0
5,001 to 10,000	74.3	77.6	10.5	72.8	75.8
10,001 to 25,000	38.5	39.1	5.7	44.4	42.3
25,001 to 50,000	24.1	24.9	3.1	31.2	29.0
50,001 to 100,000	20.0	21.7	4.3	33.9	36.3
100,001 to 200,000	22.8	22.2	5.6	23.5	32.4
200,001 to 500,000	18.4	17.6	4.9	22.6	19.3
Over 500,000	22.7	26.0	10.5	25.0	24.1
Principal Building Activity					
Education	30.0	25.6	18.3	36.5	36.7
Food Sales	X	X	X	X	X
Food Service	76.1	74.4	3.5	87.4	86.9
Health Care	35.7	29.4	25.9	33.3	43.7
Inpatient	45.3	32.0	27.7	36.1	38.0
Outpatient	56.0	51.7	73.2	55.9	79.8
Lodging	35.1	36.3	16.1	36.7	31.1
Mercantile	100.0	100.0	0.0	100.0	100.0
Retail (Other Than Mall)	100.0	100.0	0.0	100.0	100.0
Office	51.3	21.9	33.7	21.3	22.0
Public Assembly	75.7	29.3	49.7	38.7	36.6
Public Order and Safety	78.4	70.4	46.8	71.6	72.1
Religious Worship	X	X	X	X	X
Service	56.8	87.5	117.0	63.7	87.3
Warehouse and Storage	89.0	89.0	0.0	89.0	89.0
Other	52.5	50.3	28.6	47.9	60.2
Vacant	X	X	X	X	X
Year Constructed					
1919 or Before	61.3	42.9	23.8	53.4	38.2
1920 to 1945	27.3	40.4	46.3	39.5	34.8
1946 to 1959	28.3	38.6	29.9	42.3	36.2
1960 to 1969	21.5	19.4	15.7	19.9	21.7
1970 to 1979	37.1	26.6	22.6	48.2	40.7
1980 to 1989	70.5	28.0	180.5	36.1	45.2
1990 to 1999	34.9	35.2	36.3	44.4	51.2
Census Region and Division					
Northeast	55.6	23.8	31.3	20.5	23.7
New England	53.7	43.5	26.0	52.6	47.9
Middle Atlantic	61.5	25.7	34.3	22.0	26.7
Midwest	52.0	25.0	27.0	27.3	30.7
East North Central	50.8	37.2	28.0	34.0	28.7
West North Central	68.9	40.8	34.9	46.4	50.8
South	38.2	31.7	27.1	37.1	30.4
South Atlantic	67.0	59.7	19.4	61.7	55.8
East South Central	56.9	26.4	71.9	59.2	11.7
West South Central	57.8	56.8	42.3	69.2	60.6
West	24.5	41.7	73.3	47.6	49.1
Mountain	40.9	58.4	167.6	69.1	64.3
Pacific	45.6	47.2	31.9	76.3	84.5

RSEs for Table C25. Total District Heat Consumption and Expenditures, 1999

	RSEs for All Buildings Using District Heat			RSEs for District Heat Consumption	RSEs for District Heat Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total
Climate Zone: 45-Year Average					
Under 2,000 CDD and --					
More than 7,000 HDD	29.3	39.0	25.0	39.3	56.8
5,500-7,000 HDD	27.1	26.4	43.2	27.2	28.9
4,000-5,499 HDD	53.2	28.0	32.7	28.0	26.9
Fewer than 4,000 HDD	40.6	31.9	22.6	33.9	32.2
2,000 CDD or More and --					
Fewer than 4,000 HDD	46.1	57.0	37.5	64.6	80.1
Workers (main shift)					
Fewer than 5	73.0	37.8	39.9	52.3	47.7
5 to 9	77.5	50.2	29.3	62.3	46.3
10 to 19	36.3	33.2	22.9	38.7	41.1
20 to 49	47.9	39.8	153.6	40.9	42.4
50 to 99	25.1	22.0	13.6	40.8	38.7
100 to 249	26.0	21.0	14.9	25.5	34.3
250 or More	27.3	21.0	26.2	23.6	21.2
Weekly Operating Hours					
39 or Fewer	X	X	X	X	X
40 to 48	58.2	44.9	29.6	34.3	48.0
49 to 60	64.9	27.8	29.3	38.0	31.6
61 to 84	29.0	26.1	13.9	31.4	36.0
85 to 167	28.1	27.5	8.7	36.6	32.3
Open Continuously	29.3	24.1	33.1	19.5	21.1
Ownership and Occupancy					
Nongovernment Owned	36.0	21.3	18.7	25.2	24.6
Owner Occupied	28.0	22.4	19.9	26.3	26.5
Nonowner Occupied	95.5	45.3	34.2	40.5	40.9
Unoccupied	0.0	0.0	0.0	0.0	0.0
Government Owned	49.1	25.2	31.7	24.9	23.8
Federal	70.4	45.1	44.2	46.6	42.6
State	23.8	21.2	19.9	23.4	28.1
Local	65.0	50.6	45.4	47.6	55.2
Vacancy Status					
Completely Vacant	0.0	0.0	0.0	0.0	0.0
Mostly Vacant	X	X	X	X	X
Partially Vacant	74.4	24.7	42.7	25.6	28.9
Not At All Vacant	28.6	18.2	25.1	19.3	20.1
Number of Establishments					
One	30.8	18.4	26.4	19.3	20.6
2 to 5	40.3	34.0	13.2	35.8	31.2
6 to 10	46.9	39.6	32.6	39.2	41.1
11 to 20	77.3	52.2	43.3	51.6	49.7
More than 20	33.2	33.7	11.8	33.9	36.3
Energy Sources (more than one may apply)					
Electricity	26.4	16.0	22.1	17.3	17.4
Natural Gas	55.8	25.0	38.8	29.9	28.0
Fuel Oil	41.9	30.4	50.1	38.2	32.2
District Heat	28.6	15.7	22.6	16.7	17.1
District Chilled Water	46.3	23.0	27.8	25.0	28.6
Propane	68.1	65.4	105.3	66.2	80.0
Other	74.0	55.6	155.0	66.7	54.6

RSEs for Table C25. Total District Heat Consumption and Expenditures, 1999

	RSEs for All Buildings Using District Heat			RSEs for District Heat Consumption	RSEs for District Heat Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total
Space-Heating Energy Source					
District Heat	29.6	15.4	24.2	16.9	17.1
District Heat Main	30.2	15.8	24.5	16.9	17.2
District Heat Secondary	59.9	33.6	43.7	61.3	59.3
Other Excluding District Heat.....	98.6	98.5	1.8	98.9	98.7
Buildings without Heating	72.1	73.2	11.9	93.6	72.2
Primary Space-Heating Energy Source					
Electricity	73.8	41.6	50.4	66.0	47.7
Natural Gas	56.5	49.6	25.2	81.1	64.8
Fuel Oil	X	X	X	X	X
District Heat	30.2	15.8	24.5	16.9	17.2
Propane.....	0.0	0.0	0.0	0.0	0.0
Other.....	0.0	0.0	0.0	0.0	0.0
Cooling Energy Source					
District Heat	47.5	19.8	32.7	25.7	26.8
Other Excluding District Heat.....	30.5	16.3	24.6	17.8	19.6
Buildings without Cooling	69.0	47.4	42.5	53.9	50.1
Water-Heating Energy Source					
District Heat	17.7	17.4	22.0	17.6	17.9
Other Excluding District Heat	58.1	39.2	32.2	39.2	50.3
Buildings without Water Heating	47.5	39.4	34.5	54.3	66.6
Cooking Energy Source					
District Heat	38.5	34.0	37.0	30.5	29.2
Other Excluding District Heat.....	28.9	26.0	30.5	25.7	27.2
Buildings without Cooking	31.1	16.6	25.6	19.9	20.8
Energy End Uses (more than one may apply)					
Buildings with Space Heating	29.8	15.6	23.9	16.9	17.2
Buildings with Cooling	30.2	15.4	24.0	17.0	17.9
Buildings with Water Heating	30.1	16.1	24.9	16.2	17.0
Buildings with Cooking	26.2	22.5	24.3	21.1	23.4
Buildings with Manufacturing	66.4	72.5	16.0	73.5	66.3
Buildings with Electricity Generation	25.5	25.3	25.3	26.3	25.2
Percent of Floorspace Heated					
Not Heated	72.1	73.2	11.9	93.6	72.2
1 to 50	99.4	99.4	0.0	99.4	99.4
51 to 99	77.6	34.6	36.1	31.4	38.0
100	29.7	16.6	29.3	18.2	18.4
Heating Equipment (more than one may apply)					
Heat Pumps	43.7	36.4	40.4	51.6	58.6
Furnaces	51.0	56.5	28.5	63.7	78.3
Individual Space Heaters	33.4	32.1	37.3	46.4	38.4
District Heat	29.6	15.4	24.2	16.9	17.1
Boilers	59.2	62.2	61.9	73.6	84.7
Packaged Heating Units	37.7	33.1	38.3	27.5	35.4
Other	53.6	40.8	20.9	52.3	47.8

RSEs for Table C25. Total District Heat Consumption and Expenditures, 1999

	RSEs for All Buildings Using District Heat			RSEs for District Heat Consumption	RSEs for District Heat Expenditures
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total
Water Heating Equipment					
Centralized System	34.2	16.8	28.2	18.3	18.7
Distributed System	45.2	38.3	54.1	47.8	44.9
Combination of Centralized and Distributed System	32.1	28.0	32.7	29.2	32.7

X=No cases in responding sample reported their consumption for the particular fuel, so relative standard error could not be calculated.

RSEs for Table C26. District Heat Consumption and Expenditure Intensities, 1999

	RSEs for District Heat Consumption			RSEs for District Heat Expenditures		
	per Building	per Square Foot	per Worker	per Building	per Square Foot	per Thousand Pounds
All Buildings	24.4	11.0	11.2	25.3	11.1	10.6
Building Floorspace (Square Feet)						
1,001 to 5,000	0.6	3.1	65.8	26.2	23.3	26.9
5,001 to 10,000	46.3	52.2	35.1	5.3	4.8	87.2
10,001 to 25,000	30.4	29.5	46.8	27.7	25.9	39.9
25,001 to 50,000	16.6	17.2	40.6	16.2	15.8	27.2
50,001 to 100,000	24.4	22.5	21.9	25.5	23.3	20.3
100,001 to 200,000	19.8	15.8	23.4	33.6	27.9	15.8
200,001 to 500,000	18.6	14.7	31.4	16.8	13.5	15.1
Over 500,000	11.3	16.4	21.7	12.8	12.6	12.5
Principal Building Activity						
Education	26.2	23.0	10.2	29.5	23.4	10.9
Food Sales	X	X	X	X	X	X
Food Service	15.8	19.2	23.6	15.3	18.6	0.6
Health Care	31.9	12.7	38.8	29.7	21.6	19.8
Inpatient	31.2	9.1	18.9	28.6	15.0	16.7
Outpatient	68.5	34.2	70.6	107.7	59.7	29.8
Lodging	33.3	27.0	94.6	27.0	18.9	22.0
Mercantile	0.0	0.0	0.0	0.0	0.0	0.0
Retail (Other Than Mall)	0.0	0.0	0.0	0.0	0.0	0.0
Office	41.6	16.9	13.9	40.1	17.8	11.2
Public Assembly	44.7	24.2	30.9	55.7	18.2	24.1
Public Order and Safety	49.9	24.3	65.8	311.9	184.5	190.3
Religious Worship	X	X	X	X	X	X
Service	78.1	210.9	201.2	120.4	12.4	74.2
Warehouse and Storage	0.0	0.0	0.0	0.0	0.0	0.0
Other	29.5	30.6	32.1	31.8	14.0	43.3
Vacant	X	X	X	X	X	X
Year Constructed						
1919 or Before	29.4	26.3	18.7	37.0	26.7	30.6
1920 to 1945	37.6	56.3	54.2	40.3	28.5	49.7
1946 to 1959	26.0	11.8	18.2	31.1	9.0	17.5
1960 to 1969	11.9	11.9	15.2	24.3	18.0	15.7
1970 to 1979	25.2	32.3	27.1	17.5	21.9	16.0
1980 to 1989	180.9	22.4	40.2	177.5	30.6	20.6
1990 to 1999	43.5	37.8	41.0	51.7	27.9	52.2
Census Region and Division						
Northeast	35.9	19.5	22.1	33.8	12.0	20.6
New England	13.3	16.4	39.5	24.0	11.9	14.6
Middle Atlantic	38.8	21.3	23.3	36.9	13.6	24.3
Midwest	30.2	17.6	18.3	42.6	26.5	19.7
East North Central	67.5	36.8	29.6	72.6	38.5	22.0
West North Central	32.3	21.0	19.6	50.6	27.1	22.4
South	19.5	21.3	32.1	29.1	10.3	27.3
South Atlantic	32.2	20.8	24.8	21.6	14.1	25.9
East South Central	40.5	43.6	122.6	115.9	33.4	128.3
West South Central	33.2	51.3	62.8	24.3	17.4	62.0
West	70.4	23.2	21.5	69.9	28.3	7.9
Mountain	185.5	7.7	52.7	177.5	4.8	3.3
Pacific	69.1	55.9	38.5	82.5	71.4	35.5

RSEs for Table C26. District Heat Consumption and Expenditure Intensities, 1999

	RSEs for District Heat Consumption			RSEs for District Heat Expenditures		
	per Building	per Square Foot	per Worker	per Building	per Square Foot	per Thousand Pounds
Climate Zone: 45-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	30.1	14.6	12.6	41.7	23.1	20.4
5,500-7,000 HDD	45.3	11.2	21.0	42.5	16.7	13.9
4,000-5,499 HDD	31.8	23.7	16.5	34.2	11.7	22.7
Fewer than 4,000 HDD	33.4	20.2	34.7	22.2	12.7	21.4
2,000 CDD or More and --						
Fewer than 4,000 HDD	49.9	20.6	54.9	75.1	55.7	46.0
Workers (main shift)						
Fewer than 5	23.6	27.8	18.6	53.9	19.6	34.7
5 to 9	71.4	63.7	70.6	34.7	23.9	91.6
10 to 19	24.0	17.6	22.8	31.0	36.1	34.1
20 to 49	149.7	13.2	122.0	158.4	9.7	22.8
50 to 99	34.7	30.1	34.5	22.9	19.9	43.6
100 to 249	18.7	10.0	16.5	26.0	20.0	16.3
250 or More	16.9	19.7	15.9	20.1	13.6	11.8
Weekly Operating Hours						
39 or Fewer	X	X	X	X	X	X
40 to 48	37.1	20.8	28.8	35.5	15.3	28.6
49 to 60	24.4	16.0	18.1	45.6	26.2	24.5
61 to 84	14.9	11.6	16.8	20.9	14.4	11.6
85 to 167	25.5	28.3	19.1	22.7	26.2	9.8
Open Continuously	29.8	24.4	29.3	37.5	15.4	19.5
Ownership and Occupancy						
Nongovernment Owned	28.0	17.7	13.7	24.6	13.5	13.8
Owner Occupied	23.9	17.8	14.0	24.3	14.3	13.7
Nonowner Occupied	51.2	23.3	30.3	46.8	17.9	7.6
Unoccupied	N	N	N	N	N	N
Government Owned	30.0	10.0	18.0	36.1	13.3	13.5
Federal	41.2	18.8	29.9	47.9	12.3	19.2
State	18.5	12.7	12.9	36.9	24.3	21.5
Local	48.5	24.5	35.2	55.5	16.6	26.5
Vacancy Status						
Completely Vacant	N	N	N	N	N	N
Mostly Vacant	X	X	X	X	X	X
Partially Vacant	47.2	16.3	18.5	48.5	14.8	10.0
Not At All Vacant	25.0	11.5	13.0	27.8	11.9	11.1
Number of Establishments						
One	27.6	12.4	13.7	30.4	15.1	11.5
2 to 5	18.0	12.7	22.3	23.6	14.5	20.7
6 to 10	27.3	35.2	31.1	28.1	32.7	7.6
11 to 20	52.9	30.1	22.1	40.7	36.6	19.4
More than 20	17.4	8.0	20.9	14.1	6.5	8.2
Energy Sources (more than one may apply)						
Electricity	24.8	12.0	13.1	23.9	11.4	10.6
Natural Gas	41.9	27.4	19.2	44.6	19.7	17.3
Fuel Oil	13.8	33.9	30.6	28.8	21.1	21.2
District Heat	24.4	11.0	11.2	25.3	11.1	10.6
District Chilled Water	29.1	14.5	13.6	34.8	16.3	14.1
Propane	63.1	32.3	127.4	139.7	50.9	73.1
Other	183.0	40.2	65.7	137.1	9.5	66.0

RSEs for Table C26. District Heat Consumption and Expenditure Intensities, 1999

	RSEs for District Heat Consumption			RSEs for District Heat Expenditures		
	per Building	per Square Foot	per Worker	per Building	per Square Foot	per Thousand Pounds
Space-Heating Energy Source						
District Heat	26.2	11.2	12.4	26.6	11.1	10.9
District Heat Main	26.7	11.4	12.9	27.0	11.2	11.0
District Heat Secondary	63.9	61.4	62.3	63.9	58.9	12.7
Other Excluding District Heat.....	5.5	7.3	7.2	2.6	4.3	3.0
Buildings without Heating	92.1	94.3	104.1	15.8	25.1	556.3
Primary Space-Heating Energy Source						
Electricity	21.3	64.7	48.1	25.3	39.9	25.0
Natural Gas	45.1	54.9	32.2	32.9	42.2	33.0
Fuel Oil	X	X	X	X	X	X
District Heat	26.7	11.4	12.9	27.0	11.2	11.0
Propane.....	N	N	N	N	N	N
Other.....	N	N	N	N	N	N
Cooling Energy Source						
District Heat	32.6	15.3	20.9	36.8	16.6	7.0
Other Excluding District Heat.....	23.5	12.8	9.8	28.3	12.9	11.7
Buildings without Cooling	54.7	15.1	27.8	47.2	22.2	25.0
Water-Heating Energy Source						
District Heat	22.4	12.7	14.1	22.8	12.1	11.6
Other Excluding District Heat	27.3	25.7	29.3	40.2	16.5	32.1
Buildings without Water Heating	43.3	41.4	46.0	78.4	67.3	39.3
Cooking Energy Source						
District Heat	32.4	13.1	21.8	34.0	17.9	16.0
Other Excluding District Heat.....	24.3	21.0	26.0	31.2	12.1	21.2
Buildings without Cooking	28.5	13.1	15.2	29.8	16.1	12.2
Energy End Uses (more than one may apply)						
Buildings with Space Heating	26.0	11.1	12.4	26.6	11.1	10.7
Buildings with Cooling	23.1	12.0	8.9	27.2	11.8	10.7
Buildings with Water Heating	25.7	11.4	12.2	26.5	10.4	11.0
Buildings with Cooking	19.9	15.5	20.3	25.2	10.6	15.0
Buildings with Manufacturing	26.8	44.4	10.0	1.3	16.0	28.0
Buildings with Electricity Generation	17.6	26.1	22.6	24.7	20.6	15.2
Percent of Floorspace Heated						
Not Heated	92.1	94.3	104.1	15.8	25.1	556.3
1 to 50	0.0	0.0	0.0	0.0	0.0	0.0
51 to 99	40.2	14.0	24.1	36.0	13.8	16.5
100	28.4	12.6	12.8	30.4	13.5	11.5
Heating Equipment (more than one may apply)						
Heat Pumps	46.0	46.9	55.6	58.0	40.2	68.4
Furnaces	35.7	35.2	28.4	58.0	27.9	38.6
Individual Space Heaters	28.5	43.1	39.3	23.4	27.3	26.1
District Heat	26.2	11.2	12.4	26.6	11.1	10.9
Boilers	74.2	32.1	52.2	88.0	61.3	45.0
Packaged Heating Units	33.0	14.8	18.6	40.3	17.7	14.5
Other	53.6	40.7	54.1	41.0	29.3	20.1

RSEs for Table C26. District Heat Consumption and Expenditure Intensities, 1999

	RSEs for District Heat Consumption			RSEs for District Heat Expenditures		
	per Building	per Square Foot	per Worker	per Building	per Square Foot	per Thousand Pounds
Water Heating Equipment						
Centralized System	30.0	12.1	14.7	30.2	11.1	13.3
Distributed System	37.5	57.0	50.3	67.8	47.7	74.5
Combination of Centralized and Distributed System	21.7	22.2	20.8	31.0	16.7	14.9

X=No cases in responding sample reported their consumption for the particular fuel, so relative standard error could not be calculated.