RSEs for Table C1. Total Energy Consumption by Major Fuel for Non-Mall Buildings, 2003

	RSEs for All Buildings*		RSEs for Total Energy Consumption					
				Electricity				
	Number of Buildings	Floorspace	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings*	3.9	3.1	4.7	4.3	4.3	5.7	17.0	19.2
Building Floorspace (Square Feet)								
1,001 to 5,000	5.7	5.6	5.7	6.4	6.4	9.0	32.7	X
5,001 to 10,000	5.8	5.6	8.1	9.1	9.1	12.7	41.3	65.3
10,001 to 25,000	5.0	5.0	6.5	9.3	9.3	9.9	29.1	61.2
25,001 to 50,000	5.6	5.8	7.7	8.8	8.8	12.4	17.0	42.9
50,001 to 100,000	6.3	6.3	8.1	8.9	8.9	10.1	18.7	50.4
100,001 to 200,000	10.7	10.8	13.9	12.1	12.1	16.9	24.6	34.3
200,001 to 500,000	10.0	10.4	11.0	9.9	9.9	12.8	29.7	27.2
Over 500,000	13.2	13.1	14.6	18.0	18.0	20.3	43.7	32.9
Principal Building Activity								
Education	7.1	6.0	8.0	8.6	8.6	10.4	24.2	42.6
Food Sales	9.3	9.4	13.6	15.7	15.7	20.8	57.5	0.0
Food Service	7.4	9.0	10.6	15.8	15.8	12.2	67.8	73.4
Health Care	10.0	6.9	10.4	7.4	7.4	13.7	23.3	43.1
Inpatient	21.2	11.6	11.7	9.1	9.1	15.2	24.0	44.3
Outpatient	11.0	9.7	14.0	13.1	13.1	23.8	58.4	76.1
Lodging	11.5	9.2	12.1	14.3	14.3	15.1	37.5	38.3
Retail (Other Than Mall)	7.5	8.0	12.4	13.2	13.2	17.1	55.1	X
Office	5.5	6.5	8.2	7.7	7.7	12.9	37.7	30.1
Public Assembly	8.4	10.9	14.1	16.3	16.3	15.9	30.6	48.3
Public Order and Safety	18.3	18.8	26.7	21.1	21.1	21.4	40.1	100.6
Religious Worship	8.7	7.9	9.1	10.0	10.0	11.3	41.2	X
Service	8.6	9.7	14.7	21.4	21.4	17.5	63.0	94.0
Warehouse and Storage	8.5	10.5	23.7	18.3	18.3	20.4	48.3	78.3
Other	15.1	21.7	25.7	25.1	25.1	31.2	64.7	59.1
Vacant	10.5	16.1	22.6	27.2	27.2	25.6	72.7	100.1
Year Constructed								
Before 1920	9.7	12.3	12.4	21.0	21.0	14.8	31.0	48.7
1920 to 1945	7.6	11.3	18.7	21.2	21.2	15.3	32.7	38.9
1946 to 1959	8.0	7.8	10.6	11.3	11.3	14.6	35.1	44.7
1960 to 1969	7.1	6.8	8.9	8.9	8.9	9.0	52.9	38.1
1970 to 1979	7.1	7.0	8.4	9.5	9.5	9.8	26.4	34.1
1980 to 1989	6.0	6.4	10.9	8.6	8.6	14.3	26.6	51.0
1990 to 1999	7.5	6.6	10.0	9.3	9.3	10.6	37.9	38.4
2000 to 2003	10.1	8.4	11.0	12.3	12.3	17.6	54.2	31.3
Census Region and Division								
Northeast	10.0	9.6	8.7	9.8	9.8	10.0	21.1	45.1
New England	23.1	23.9	18.0	26.4	26.4	29.5	27.5	46.7
Middle Atlantic	11.1	10.5	10.1	10.5	10.5	10.7	34.1	53.9
Midwest	9.2	7.1	10.4	10.6	10.6	6.9	47.0	34.9
East North Central	12.0	9.9	12.6	15.0	15.0	5.1	67.0	38.0
West North Central	16.6	10.2	19.0	10.7	10.7	22.1	54.8	86.9
South	7.7	4.6	7.4	6.0	6.0	12.5	40.4	33.2
South Atlantic	11.9	5.0	10.5	7.7	7.7	24.7	43.5	42.2
East South Central	24.4	11.1	13.2	11.4	11.4	16.5	20.8	68.9
West South Central	11.9	11.2	13.6	12.9	12.9	14.9	38.2	76.1
West	8.1	4.8	8.8	9.0	9.0	14.5	44.5	46.6
Mountain	15.3	8.5	15.0	17.7	17.7	22.1	69.8	77.7
Pacific	9.6	5.3	9.9	8.7	8.7	16.2	47.8	53.3

RSEs for Table C1. Total Energy Consumption by Major Fuel for Non-Mall Buildings, 2003

	RSEs for All Buildings*		RSEs for Total Energy Consumption					
				Electricity				
	Number of Buildings	Floorspace	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings*	3.9	3.1	4.7	4.3	4.3	5.7	17.0	19.2
Climate Zone: 30-Year Average								
Under 2,000 CDD and --								
More than 7,000 HDD	10.1	10.9	12.5	12.2	12.2	13.3	34.6	23.2
5,500-7,000 HDD	12.2	9.1	10.4	13.4	13.4	6.8	22.3	35.6
4,000-5,499 HDD	23.6	15.3	18.1	20.4	20.4	21.5	40.4	37.5
Fewer than 4,000 HDD	14.4	11.1	14.1	12.1	12.1	19.1	34.8	41.8
2,000 CDD or More and --								
Fewer than 4,000 HDD	9.5	10.1	12.4	10.6	10.6	23.3	28.1	80.3
Number of Floors								
One	5.1	5.2	7.4	6.4	6.4	8.3	31.4	70.9
Two	4.6	5.1	7.3	9.3	9.3	7.4	26.9	47.4
Three	7.2	7.1	9.3	9.9	9.9	13.1	19.7	47.6
Four to Nine	11.1	9.7	9.5	12.5	12.5	10.5	27.2	25.3
Ten or More	13.8	15.0	15.5	15.0	15.0	23.2	41.0	29.8
Elevators and Escalators (more than one may apply)								
Any Elevators	4.9	5.3	6.8	7.4	7.4	8.2	18.0	19.8
Number of Elevators								
One	6.8	6.2	8.2	9.3	9.3	10.0	21.9	44.5
Two to Five	7.6	7.9	10.4	9.3	9.3	12.8	27.5	26.4
Six or More	13.1	13.5	12.5	15.1	15.1	17.0	25.8	30.4
Any Escalators	19.1	18.1	23.0	26.8	26.8	44.4	54.9	39.0
Number of Workers (main shift)								
Fewer than 5	5.9	6.7	14.7	13.5	13.5	9.1	29.0	63.8
5 to 9	6.0	5.9	7.8	8.1	8.1	11.5	37.4	102.2
10 to 19	5.4	7.1	8.4	7.9	7.9	9.4	30.3	48.1
20 to 49	6.2	7.6	9.3	9.8	9.8	10.9	22.6	41.5
50 to 99	8.0	7.7	7.9	9.0	9.0	8.8	32.0	39.1
100 to 249	8.9	7.9	11.3	10.0	10.0	15.5	31.0	40.5
250 or More	8.6	9.5	10.0	11.2	11.2	13.8	24.3	26.1
Weekly Operating Hours								
Fewer than 40	8.1	8.6	10.5	11.1	11.1	15.8	27.0	100.1
40 to 48	5.6	6.0	8.3	8.8	8.8	10.2	40.0	55.5
49 to 60	4.7	6.4	14.3	10.4	10.4	10.9	26.9	32.5
61 to 84	5.1	5.9	5.9	7.1	7.1	8.9	29.8	35.4
85 to 167	6.9	7.6	8.8	8.5	8.5	9.4	40.8	23.4
Open Continuously	10.8	5.3	7.7	8.1	8.1	10.2	21.3	30.7
Ownership and Occupancy								
Nongovernment Owned	4.2	3.4	4.6	4.5	4.5	6.5	18.4	28.7
Owner Occupied	5.5	4.6	6.1	6.3	6.3	9.0	21.0	34.9
Nonowner Occupied	5.8	4.7	5.6	6.7	6.7	7.1	29.8	40.8
Unoccupied	11.2	18.8	29.7	41.2	41.2	27.0	93.8	X
Government Owned	7.0	5.8	9.6	8.7	8.7	7.7	21.5	24.4
Federal	31.6	29.5	38.8	34.1	34.1	24.0	58.4	51.5
State	16.3	13.5	15.2	18.2	18.2	20.6	37.4	27.5
Local	7.4	6.7	8.4	9.8	9.8	9.1	20.7	88.1
Vacancy Status								
Completely Vacant	10.6	17.8	26.7	38.1	38.1	27.3	99.0	100.1
Mostly Vacant	32.2	32.9	38.0	37.7	37.7	53.6	100.1	0.0
Partially Vacant	5.9	6.4	8.1	8.3	8.3	11.1	25.5	36.6
Not At All Vacant	4.2	3.3	5.0	4.9	4.9	6.4	17.3	21.1

RSEs for Table C1. Total Energy Consumption by Major Fuel for Non-Mall Buildings, 2003

	RSEs for All Buildings*		RSEs for Total Energy Consumption					
				Electricity				
	Number of Buildings	Floorspace	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings*	3.9	3.1	4.7	4.3	4.3	5.7	17.0	19.2
Number of Establishments								
One	4.4	3.7	5.1	4.7	4.7	6.4	21.0	22.9
2 to 5	5.8	5.9	9.4	7.9	7.9	11.0	21.0	37.7
6 to 10	14.4	13.5	21.2	21.9	21.9	17.5	52.9	71.7
11 to 20	19.0	16.7	18.0	16.8	16.8	30.0	81.8	50.9
More than 20	24.4	14.3	15.0	17.6	17.6	37.6	61.3	53.2
Currently Unoccupied	10.6	17.8	26.7	38.1	38.1	27.3	99.0	100.1
Predominant Exterior Wall Material								
Brick, Stone or Stucco	4.4	4.4	6.2	5.9	5.9	6.5	15.4	23.9
Concrete (Block or Poured)	7.1	6.2	9.2	8.3	8.3	14.9	27.9	41.6
Concrete Panels	8.3	10.6	16.0	17.1	17.1	20.8	69.7	41.4
Siding or Shingles	9.5	9.7	11.6	15.0	15.0	11.1	42.4	100.3
Metal Panels	9.2	8.1	13.3	13.5	13.5	18.1	28.1	66.2
Window Glass	25.8	18.0	24.7	27.6	27.6	34.3	43.0	60.6
Other	21.1	17.8	23.9	25.9	25.9	27.6	83.7	93.6
No One Major Type	33.5	23.1	30.7	35.9	35.9	34.4	75.9	X
Predominant Roof Material								
Built-Up	4.9	4.5	6.9	7.0	7.0	9.1	19.9	24.2
Shingles (Not Wood)	5.5	4.9	7.2	8.3	8.3	11.8	26.1	68.2
Metal Surfacing	7.9	8.2	9.1	9.5	9.5	12.7	43.7	100.1
Synthetic or Rubber	5.2	5.6	6.7	7.6	7.6	7.3	19.8	34.3
Slate or Tile	12.1	10.8	10.6	13.7	13.7	16.0	37.6	55.4
Wooden Materials	16.4	16.0	21.8	25.4	25.4	27.5	64.3	X
Concrete	20.3	36.7	44.1	43.0	43.0	36.3	44.8	95.4
Other	27.2	34.0	59.6	26.6	26.6	37.9	100.7	97.9
No One Major Type	30.2	27.7	29.3	34.1	34.1	35.5	70.2	76.7
Renovations in Buildings Constructed Before 1980 (more than one may apply)								
Any Type of Renovation Since 1980	6.2	5.4	6.3	6.6	6.6	8.3	23.9	25.3
Addition or Annex	9.6	8.9	8.9	9.6	9.6	13.0	60.6	43.8
Reduction In Floorspace	24.1	21.9	20.5	26.6	26.6	25.3	55.0	98.6
Cosmetic Improvements	6.6	5.7	5.9	7.0	7.0	7.6	20.1	27.4
Wall or Roof Replacement	10.9	7.2	8.1	9.2	9.2	10.0	14.7	39.4
Interior Wall Re-Configuration	8.5	6.4	7.3	8.2	8.2	8.5	14.0	30.2
HVAC Equipment Upgrade	7.4	5.8	6.9	7.5	7.5	9.5	17.6	27.5
Lighting Upgrade	7.2	6.6	7.2	7.9	7.9	7.7	17.0	28.3
Window Replacement	9.1	7.2	8.9	10.0	10.0	11.7	31.8	42.5
Plumbing System Upgrade	8.3	7.9	8.6	9.4	9.4	10.1	25.5	30.3
Insulation Upgrade	12.3	10.1	11.7	11.7	11.7	10.7	39.2	56.9
Other Renovation	30.6	24.1	23.6	28.6	28.6	34.7	67.2	75.5
No Renovations Since 1980	4.8	6.0	9.7	10.4	10.4	9.3	19.6	32.8
Building Newer than 1980	5.8	5.1	6.6	6.1	6.1	8.5	28.8	36.9

RSEs for Table C1. Total Energy Consumption by Major Fuel for Non-Mall Buildings, 2003

	RSEs for All Buildings*		RSEs for Total Energy Consumption					
				Electricity				
	Number of Buildings	Floorspace	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings*	3.9	3.1	4.7	4.3	4.3	5.7	17.0	19.2
Energy Sources (more than one may apply)								
Electricity	3.9	3.7	4.9	4.3	4.3	5.6	18.9	19.6
Natural Gas	5.3	4.7	5.4	5.9	5.9	5.7	15.1	33.0
Fuel Oil	12.7	8.5	9.5	9.7	9.7	13.0	17.0	33.4
District Heat	12.4	13.4	14.7	16.0	16.0	31.2	44.7	19.2
District Chilled Water	13.0	11.5	13.1	17.5	17.5	24.4	37.4	26.4
Propane	16.3	13.3	21.3	17.1	17.1	27.6	34.6	83.2
Other	13.7	13.5	21.3	26.3	26.3	24.5	53.4	66.3
Space-Heating Energy Sources (more than one may apply)								
Electricity	6.6	4.6	5.4	5.7	5.7	9.5	15.6	37.7
Natural Gas	5.5	4.8	5.5	6.0	6.0	5.9	23.4	46.8
Fuel Oil	12.5	17.3	14.3	11.7	11.7	18.2	17.6	X
District Heat	12.4	13.9	15.0	16.6	16.6	30.5	40.0	19.2
Propane	19.9	15.8	26.2	21.7	21.7	70.9	34.2	100.2
Other	16.1	19.3	34.0	38.2	38.2	33.9	55.1	0.0
Primary Space-Heating Energy Source								
Electricity	8.1	7.4	6.4	7.1	7.1	9.8	38.9	68.3
Natural Gas	5.7	4.9	5.6	6.2	6.2	6.1	21.6	76.9
Fuel Oil	16.0	24.5	21.3	18.4	18.4	30.4	19.2	0.0
District Heat	12.8	14.4	15.4	17.1	17.1	33.1	38.6	19.9
Propane	22.0	18.4	29.8	30.3	30.3	X	62.2	X
Other	20.4	21.6	37.6	37.7	37.7	61.2	45.4	0.0
Cooling Energy Sources (more than one may apply)								
Electricity	3.2	3.1	4.5	4.6	4.6	5.9	22.1	26.4
Natural Gas	26.9	19.5	23.6	30.6	30.6	26.7	56.7	100.9
District Chilled Water	13.0	11.5	13.1	17.5	17.5	24.4	37.4	26.4
Water-Heating Energy Sources (more than one may apply)								
Electricity	5.9	4.8	6.0	6.1	6.1	9.5	23.8	32.0
Natural Gas	5.2	5.0	6.0	6.9	6.9	6.5	25.4	65.1
Fuel Oil	17.9	21.0	14.9	16.5	16.5	23.9	22.1	X
District Heat	22.6	14.2	15.1	15.5	15.5	41.0	56.0	20.7
Propane	22.3	18.5	27.2	31.4	31.4	98.7	38.5	X
Cooking Energy Sources (more than one may apply)								
Electricity	7.2	6.2	7.3	8.8	8.8	8.8	26.2	35.3
Natural Gas	6.5	7.2	7.2	8.3	8.3	8.2	30.0	35.5
Propane	19.3	15.6	20.4	24.5	24.5	49.6	30.1	100.5
Energy End Uses (more than one may apply)								
Buildings with Space Heating	3.5	3.1	4.7	4.3	4.3	5.7	17.1	19.2
Buildings with Cooling	3.2	3.0	4.4	4.3	4.3	6.0	21.8	19.5
Buildings with Water Heating	3.2	2.9	4.3	4.3	4.3	5.8	17.2	19.9
Buildings with Cooking	5.7	5.9	6.5	6.9	6.9	7.7	22.0	31.5
Buildings with Manufacturing	12.1	14.1	17.2	19.2	19.2	23.4	44.7	69.7
Buildings with Electricity Generation	7.6	6.6	7.3	7.4	7.4	10.3	18.7	28.3

RSEs for Table C1. Total Energy Consumption by Major Fuel for Non-Mall Buildings, 2003

	RSEs for All Buildings*		RSEs for Total Energy Consumption					
				Electricity				
	Number of Buildings	Floorspace	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings*	3.9	3.1	4.7	4.3	4.3	5.7	17.0	19.2
Percent of Floorspace Heated								
Not Heated	8.4	8.9	22.8	22.3	22.3	58.5	60.4	98.1
1 to 50	8.0	10.4	13.4	15.9	15.9	18.7	38.1	100.0
51 to 99	7.0	7.2	8.2	9.5	9.5	12.5	22.3	45.4
100	3.8	4.1	5.5	5.2	5.2	6.1	18.8	21.4
Percent of Floorspace Cooled								
Not Cooled	8.6	11.2	28.3	35.0	35.0	14.5	16.5	66.1
1 to 50	5.7	7.1	8.4	8.9	8.9	10.3	27.9	59.9
51 to 99	6.9	5.9	6.2	6.3	6.3	10.5	29.0	25.8
100	3.7	4.1	5.8	6.0	6.0	7.7	32.1	29.2
Percent Lit When Open								
Zero	33.5	27.8	55.3	65.9	65.9	94.4	101.4	100.1
1 to 50	6.4	7.0	7.5	7.4	7.4	10.7	23.9	65.2
51 to 99	5.1	4.1	5.9	6.3	6.3	7.8	16.5	27.8
100	3.8	4.1	6.4	6.1	6.1	7.8	25.3	25.9
Building Never Open/ Electricity Not Used	10.9	13.0	24.1	30.0	30.0	24.9	67.6	100.1
Percent Lit When Closed								
Zero	5.2	5.5	9.3	7.8	7.8	6.8	16.4	61.2
1 to 50	3.6	3.7	5.4	5.4	5.4	7.3	28.5	23.2
51 to 100	9.6	12.4	21.4	19.6	19.6	20.5	40.2	56.9
Building Never Closed/ Electricity Not Used	8.9	5.0	7.7	8.1	8.1	10.2	21.1	30.7
Heating Equipment (more than one may apply)								
Heat Pumps	13.2	7.6	11.0	11.0	11.0	19.4	40.3	75.9
Packaged Heat Pumps	10.7	7.6	15.5	14.5	14.5	27.7	49.0	97.6
Split-System Heat Pumps	21.5	15.9	20.2	25.2	25.2	19.2	59.3	86.2
Individual Room Heat Pumps	14.9	11.8	14.0	13.5	13.5	19.8	58.0	69.1
Furnaces	5.4	5.1	6.9	6.3	6.3	9.0	32.2	46.2
Individual Space Heaters	9.3	5.9	7.7	8.7	8.7	9.9	24.3	38.4
District Heat	12.5	14.0	15.0	16.6	16.6	30.7	40.0	19.2
Boilers	6.8	7.1	7.6	9.1	9.1	7.8	15.0	95.3
Packaged Heating Units	6.2	4.4	5.6	6.3	6.3	8.8	35.6	50.8
Other	10.3	11.5	12.1	13.5	13.5	20.1	40.9	60.1
Cooling Equipment (more than one may apply)								
Residential-Type Central Air Conditioners	5.9	6.7	8.6	12.4	12.4	9.4	36.8	81.3
Heat Pumps	12.2	8.1	10.0	10.9	10.9	19.1	41.4	74.0
Packaged Heat Pumps	9.8	8.1	15.6	14.9	14.9	27.1	52.6	97.6
Split-System Heat Pumps	20.8	15.8	20.1	25.4	25.4	19.3	60.2	86.2
Individual Room Heat Pumps	14.8	12.6	14.3	15.5	15.5	19.7	57.6	59.6
Individual Air Conditioners	6.5	6.8	7.9	9.1	9.1	10.1	27.7	34.5
District Chilled Water	13.0	11.5	13.1	17.5	17.5	24.4	37.4	26.4
Central Chillers	10.0	8.4	9.3	10.5	10.5	11.0	23.3	27.0
Packaged Air Conditioning Units	4.5	4.5	5.2	5.1	5.1	6.4	19.7	29.1
Swamp Coolers	19.4	15.1	15.0	12.4	12.4	18.8	84.3	X
Other	24.6	20.1	27.4	18.5	18.5	44.4	56.8	78.8

RSEs for Table C1. Total Energy Consumption by Major Fuel for Non-Mall Buildings, 2003

	RSEs for All Buildings*		RSEs for Total Energy Consumption					
				Electricity				
	Number of Buildings	Floorspace	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings*	3.9	3.1	4.7	4.3	4.3	5.7	17.0	19.2
Main Equipment Replaced Since 1990 (more than one may apply)								
Heating	5.4	5.3	7.1	8.0	8.0	9.3	23.0	100.3
Cooling	5.1	5.2	6.8	7.6	7.6	8.1	25.4	45.8
Water Heating Equipment								
Centralized System	3.6	3.2	4.5	4.9	4.9	5.8	17.1	20.7
Distributed System	8.4	7.9	10.9	9.4	9.4	13.9	36.7	66.8
Combination of Centralized and Distributed System	8.8	5.8	9.1	9.3	9.3	12.5	30.6	34.2
Lighting Equipment Types (more than one may apply)								
Incandescent	3.9	3.9	5.4	5.5	5.5	6.7	14.0	22.3
Standard Fluorescent	3.3	3.1	4.8	4.4	4.4	5.7	17.7	19.2
Compact Fluorescent	4.2	4.6	6.0	6.1	6.1	7.7	13.7	21.9
High Intensity Discharge	5.6	4.8	7.4	6.9	6.9	7.7	29.9	26.6
Halogen	6.6	5.2	7.1	7.1	7.1	9.2	25.1	26.9
Other	45.4	32.8	44.6	37.4	37.4	36.4	60.0	100.3
Refrigeration Equipment (more than one may apply)[a]								
Any Refrigeration	3.7	3.0	4.4	4.3	4.3	6.1	19.6	19.3
Commercial Refrigeration	4.6	4.7	5.7	5.9	5.9	7.2	21.4	25.3
Walk-In Units	4.3	5.6	6.0	6.0	6.0	7.5	18.9	26.9
Cases or Cabinets	5.4	4.8	6.3	6.5	6.5	8.1	22.7	28.4
Residential-Type Units	4.9	3.4	5.0	5.6	5.6	6.0	22.1	22.4
Vending Machines	4.4	3.8	5.1	5.1	5.1	6.9	16.0	19.9
No Refrigeration	5.8	6.9	18.5	17.0	17.0	13.8	26.5	82.9
Office Equipment (more than one may apply)								
Computers	3.2	3.0	4.5	4.5	4.5	5.6	18.8	19.2
With Flat Screen Monitors	5.9	4.8	6.6	6.5	6.5	8.7	17.8	21.6
Dedicated Servers	3.4	3.8	5.5	5.4	5.4	6.9	20.3	20.8
Laser Printers	3.7	3.5	4.6	5.1	5.1	6.9	20.6	25.8
Inkjet Printers	4.5	4.2	5.9	6.2	6.2	7.1	20.7	21.3
FAX Machines	3.2	3.3	4.6	4.5	4.5	6.1	20.4	19.9
Photocopiers	3.6	3.6	5.0	4.9	4.9	6.4	14.8	19.6
Number of Computers								
None	7.3	7.9	13.8	12.2	12.2	19.1	23.6	100.3
1 to 4	4.9	5.6	8.9	9.2	9.2	8.3	32.8	92.5
5 to 9	5.9	6.5	8.2	7.3	7.3	13.2	36.7	44.6
10 to 19	8.2	8.1	8.9	11.2	11.2	11.9	27.9	62.5
20 to 49	7.9	8.0	9.0	9.8	9.8	11.2	42.2	43.1
50 to 99	7.3	9.8	14.4	9.5	9.5	12.1	32.8	53.0
100 to 249	7.9	7.3	9.6	9.5	9.5	12.7	33.1	41.0
250 or More	8.5	9.0	9.6	10.1	10.1	12.7	19.7	24.7
Number of Dedicated Servers								
None	5.0	4.6	5.9	5.4	5.4	7.2	19.8	37.7
1 to 4	3.4	4.6	6.0	5.4	5.4	7.6	24.6	33.3
5 to 9	12.7	12.0	14.6	19.8	19.8	16.7	32.5	57.1
10 to 19	18.6	11.2	14.3	13.3	13.3	15.8	37.7	38.8
20 to 49	16.7	16.2	15.8	16.7	16.7	24.0	44.0	36.1
50 or More	30.4	19.2	19.9	18.9	18.9	30.3	40.8	44.4

RSEs for Table C1. Total Energy Consumption by Major Fuel for Non-Mall Buildings, 2003

	RSEs for All Buildings*		RSEs for Total Energy Consumption					
				Electricity				
	Number of Buildings	Floorspace	Sum of Major Fuels	Primary	Site	Natural Gas	Fuel Oil	District Heat
All Buildings*	3.9	3.1	4.7	4.3	4.3	5.7	17.0	19.2
Number of Photocopiers								
None	5.8	5.8	7.5	6.8	6.8	8.7	34.3	36.6
One	4.7	5.3	5.6	6.5	6.5	9.0	29.4	45.5
2 to 4	4.9	5.6	7.3	7.7	7.7	8.1	25.2	24.6
5 to 9	9.7	9.0	12.0	12.4	12.4	13.4	36.6	34.9
10 or More	8.3	8.4	9.2	10.4	10.4	13.2	24.4	25.9
Energy-Related Space Functions (more than one may apply)								
Commercial Food Preparation	5.7	5.9	6.5	6.9	6.9	7.7	22.0	31.5
Activities with Large Amounts of Hot Water	5.4	5.6	6.8	7.4	7.4	8.0	21.9	27.9
Separate Computer Area	5.8	4.7	6.7	7.0	7.0	7.5	17.1	21.8
HVAC Conservation Features (more than one may apply)								
Variable Air-Volume System	6.9	5.4	7.2	7.4	7.4	9.0	23.8	23.9
Economizer Cycle	6.1	5.1	6.5	6.5	6.5	7.1	20.5	23.7
HVAC Maintenance	3.9	3.8	5.2	4.9	4.9	6.0	17.9	19.3
Energy Management and Control System (EMCS)	9.3	5.5	7.2	7.6	7.6	9.3	20.9	23.9
Window and Interior Lighting Features (more than one may apply)								
Multipaned Windows	4.4	3.7	5.2	5.0	5.0	6.3	24.5	23.2
Tinted Window Glass	3.9	4.2	6.7	6.0	6.0	7.7	21.4	27.5
Reflective Window Glass	8.6	5.7	8.4	9.4	9.4	11.5	36.7	37.5
External Overhangs or Awnings	6.7	5.5	7.9	8.8	8.8	10.1	27.6	35.2
Skylights or Atriums	6.2	6.0	8.0	8.8	8.8	10.1	24.8	32.1
Daylighting Sensors	16.4	11.3	16.5	17.1	17.1	21.3	43.6	62.0
Specular Reflectors	5.1	4.9	7.4	6.9	6.9	7.4	35.2	23.8
Electronic Ballasts	5.2	3.6	5.3	5.0	5.0	6.5	20.8	20.2
Energy Management and Control System (EMCS) For Lighting	20.6	10.6	12.0	10.6	10.6	15.4	43.6	44.1
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]								
Heating	4.2	3.3	4.8	4.7	4.7	6.0	19.7	23.7
Cooling	4.1	3.4	5.0	5.0	5.0	6.0	23.5	23.6
Lighting	3.6	3.5	5.5	4.9	4.9	5.8	21.5	22.3
Office Equipment	5.0	5.0	9.3	8.5	8.5	8.4	23.9	36.7

X=No cases in the 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 for Non-Mall Buildings, 2003

	RSEs for All Buildings*		RSEs for Total Energy Expenditures				
	Number of Buildings	Floorspace	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	3.9	3.1	4.2	4.3	5.2	16.2	32.3
Building Floorspace (Square Feet)							
1,001 to 5,000	5.7	5.6	5.1	5.8	8.5	25.5	100.3
5,001 to 10,000	5.8	5.6	7.9	10.9	11.3	37.1	97.0
10,001 to 25,000	5.0	5.0	5.7	7.7	9.9	28.7	98.9
25,001 to 50,000	5.6	5.8	7.0	9.2	8.7	20.4	37.7
50,001 to 100,000	6.3	6.3	8.1	8.6	10.0	18.6	67.7
100,001 to 200,000	10.7	10.8	12.9	12.5	13.8	24.8	46.4
200,001 to 500,000	10.0	10.4	9.5	9.6	13.9	31.8	36.4
Over 500,000	13.2	13.1	15.4	17.9	26.2	41.2	40.5
Principal Building Activity							
Education	7.1	6.0	8.1	8.5	10.5	23.1	86.2
Food Sales	9.3	9.4	12.9	14.8	23.8	58.3	0.0
Food Service	7.4	9.0	10.2	13.5	12.0	68.8	98.9
Health Care	10.0	6.9	9.9	7.1	11.6	21.9	43.8
Inpatient	21.2	11.6	11.9	8.0	13.6	22.5	43.8
Outpatient	11.0	9.7	12.5	12.4	22.9	60.7	X
Lodging	11.5	9.2	13.0	16.5	17.1	37.6	79.7
Retail (Other Than Mall)	7.5	8.0	11.7	14.7	14.6	47.6	X
Office	5.5	6.5	8.0	8.2	13.9	37.2	36.0
Public Assembly	8.4	10.9	14.7	20.8	13.1	30.3	49.4
Public Order and Safety	18.3	18.8	24.5	19.9	26.7	42.1	100.6
Religious Worship	8.7	7.9	8.5	9.3	10.4	40.7	X
Service	8.6	9.7	13.9	10.3	18.0	56.9	100.1
Warehouse and Storage	8.5	10.5	18.7	13.7	15.5	46.9	76.3
Other	15.1	21.7	25.0	26.3	31.8	57.9	86.2
Vacant	10.5	16.1	23.2	31.5	27.1	70.4	100.1
Year Constructed							
Before 1920	9.7	12.3	12.9	15.9	14.5	26.2	51.8
1920 to 1945	7.6	11.3	16.0	13.4	16.2	38.9	35.7
1946 to 1959	8.0	7.8	10.6	14.4	8.9	30.7	57.7
1960 to 1969	7.1	6.8	8.8	9.7	9.7	51.8	59.8
1970 to 1979	7.1	7.0	8.5	9.1	9.7	25.0	41.7
1980 to 1989	6.0	6.4	9.9	8.8	16.6	27.0	48.7
1990 to 1999	7.5	6.6	9.7	10.4	9.2	37.5	60.7
2000 to 2003	10.1	8.4	10.0	11.2	16.9	55.3	77.3
Census Region and Division							
Northeast	10.0	9.6	7.5	8.9	10.8	20.4	48.5
New England	23.1	23.9	19.1	26.3	27.1	24.9	66.5
Middle Atlantic	11.1	10.5	8.3	9.0	12.1	36.2	63.6
Midwest	9.2	7.1	10.8	9.2	5.9	41.3	43.8
East North Central	12.0	9.9	13.7	12.7	4.9	56.4	49.8
West North Central	16.6	10.2	16.3	11.7	18.1	59.4	93.7
South	7.7	4.6	6.4	5.7	9.8	39.7	54.0
South Atlantic	11.9	5.0	8.6	7.7	15.7	42.9	64.7
East South Central	24.4	11.1	10.8	9.5	20.1	23.4	97.6
West South Central	11.9	11.2	13.4	13.1	14.5	34.0	99.1
West	8.1	4.8	10.0	11.4	15.9	48.3	55.6
Mountain	15.3	8.5	17.7	21.1	25.8	74.3	100.1
Pacific	9.6	5.3	11.6	13.0	15.8	52.0	60.9

RSEs for Table C2. Total Energy Expenditures by Major Fuel for Non-Mall Buildings, 2003

	RSEs for All Buildings*		RSEs for Total Energy Expenditures				
	Number of Buildings	Floorspace	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	3.9	3.1	4.2	4.3	5.2	16.2	32.3
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	10.1	10.9	13.0	12.5	12.8	32.8	55.4
5,500-7,000 HDD	12.2	9.1	11.1	12.8	8.2	20.3	44.7
4,000-5,499 HDD	23.6	15.3	17.4	17.0	21.6	45.4	51.6
Fewer than 4,000 HDD	14.4	11.1	11.6	11.2	16.4	37.0	55.2
2,000 CDD or More and --							
Fewer than 4,000 HDD	9.5	10.1	11.2	11.0	23.3	24.9	100.3
Number of Floors							
One	5.1	5.2	5.8	5.2	7.9	30.0	97.5
Two	4.6	5.1	7.4	9.1	7.3	23.0	41.6
Three	7.2	7.1	8.9	9.9	8.2	20.3	98.3
Four to Nine	11.1	9.7	9.8	10.5	10.4	21.5	43.9
Ten or More	13.8	15.0	15.8	17.5	28.3	42.9	35.3
Elevators and Escalators (more than one may apply)							
Any Elevators	4.9	5.3	7.1	7.5	8.8	17.3	32.9
Number of Elevators							
One	6.8	6.2	8.8	9.7	9.5	22.7	59.6
Two to Five	7.6	7.9	10.0	10.4	10.3	25.3	36.2
Six or More	13.1	13.5	13.4	15.6	21.7	26.2	36.9
Any Escalators	19.1	18.1	22.5	26.1	51.3	53.3	48.3
Number of Workers (main shift)							
Fewer than 5	5.9	6.7	11.0	8.5	8.5	25.3	61.1
5 to 9	6.0	5.9	7.5	7.8	10.9	36.2	83.3
10 to 19	5.4	7.1	7.0	8.0	9.0	29.8	87.8
20 to 49	6.2	7.6	8.8	9.6	10.6	31.5	91.6
50 to 99	8.0	7.7	8.1	9.1	10.2	31.8	71.2
100 to 249	8.9	7.9	10.9	11.1	13.5	30.9	57.8
250 or More	8.6	9.5	10.3	11.4	17.3	25.6	29.8
Weekly Operating Hours							
Fewer than 40	8.1	8.6	10.0	11.7	15.5	27.1	100.1
40 to 48	5.6	6.0	7.1	7.3	10.1	39.9	59.1
49 to 60	4.7	6.4	11.0	8.1	9.4	24.9	41.5
61 to 84	5.1	5.9	5.9	6.9	9.3	26.7	43.1
85 to 167	6.9	7.6	7.7	7.4	9.3	34.8	45.1
Open Continuously	10.8	5.3	8.2	9.5	11.3	21.3	46.8
Ownership and Occupancy							
Nongovernment Owned	4.2	3.4	4.3	4.9	6.2	17.0	39.1
Owner Occupied	5.5	4.6	6.0	6.9	7.9	20.3	47.1
Nonowner Occupied	5.8	4.7	5.8	6.7	8.0	26.2	48.2
Unoccupied	11.2	18.8	29.0	45.6	28.2	93.8	X
Government Owned	7.0	5.8	8.7	7.5	7.6	22.0	44.9
Federal	31.6	29.5	36.0	26.5	24.9	60.5	65.9
State	16.3	13.5	15.3	18.0	21.7	40.7	53.8
Local	7.4	6.7	8.1	8.7	8.8	14.4	68.9
Vacancy Status							
Completely Vacant	10.6	17.8	26.2	41.4	27.5	98.9	100.1
Mostly Vacant	32.2	32.9	43.2	47.2	56.5	100.1	0.0
Partially Vacant	5.9	6.4	8.3	9.4	13.1	34.9	41.8
Not At All Vacant	4.2	3.3	4.4	4.6	5.7	16.1	45.0

RSEs for Table C2. Total Energy Expenditures by Major Fuel for Non-Mall Buildings, 2003

	RSEs for All Buildings*		RSEs for Total Energy Expenditures				
	Number of Buildings	Floorspace	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	3.9	3.1	4.2	4.3	5.2	16.2	32.3
Number of Establishments							
One	4.4	3.7	4.5	4.6	5.8	19.5	39.8
2 to 5	5.8	5.9	9.3	9.9	11.5	19.3	67.5
6 to 10	14.4	13.5	20.2	20.2	22.9	58.6	62.4
11 to 20	19.0	16.7	15.6	15.6	28.8	79.4	57.3
More than 20	24.4	14.3	15.9	21.5	46.7	50.8	63.4
Currently Unoccupied	10.6	17.8	26.2	41.4	27.5	98.9	100.1
Predominant Exterior Wall Material							
Brick, Stone or Stucco	4.4	4.4	5.5	5.0	6.3	16.2	45.0
Concrete (Block or Poured)	7.1	6.2	8.3	8.6	13.6	29.4	56.7
Concrete Panels	8.3	10.6	15.7	15.7	25.6	63.5	55.1
Siding or Shingles	9.5	9.7	14.3	18.7	11.1	36.1	X
Metal Panels	9.2	8.1	13.0	14.2	18.7	30.1	72.5
Window Glass	25.8	18.0	21.8	25.8	29.2	44.9	85.9
Other	21.1	17.8	21.9	25.1	29.1	85.0	78.2
No One Major Type	33.5	23.1	30.9	33.1	35.1	71.9	X
Predominant Roof Material							
Built-Up	4.9	4.5	6.5	7.2	8.4	21.7	44.4
Shingles (Not Wood)	5.5	4.9	7.3	8.7	12.2	23.7	37.4
Metal Surfacing	7.9	8.2	8.4	8.6	12.7	38.6	X
Synthetic or Rubber	5.2	5.6	6.9	7.3	7.2	19.9	53.1
Slate or Tile	12.1	10.8	11.4	12.5	14.5	38.7	97.6
Wooden Materials	16.4	16.0	21.6	25.7	24.3	59.6	X
Concrete	20.3	36.7	36.2	30.9	34.8	61.3	99.6
Other	27.2	34.0	57.2	33.6	43.5	100.8	93.8
No One Major Type	30.2	27.7	28.8	33.0	34.6	69.9	70.2
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation Since 1980	6.2	5.4	6.2	6.7	6.5	24.4	36.3
Addition or Annex	9.6	8.9	8.3	9.3	10.3	60.7	58.2
Reduction In Floorspace	24.1	21.9	21.8	26.5	29.6	66.2	98.6
Cosmetic Improvements	6.6	5.7	6.2	7.1	7.2	18.0	40.0
Wall or Roof Replacement	10.9	7.2	9.2	10.7	10.7	14.8	53.9
Interior Wall Re-Configuration	8.5	6.4	7.8	8.7	8.8	15.4	45.2
HVAC Equipment Upgrade	7.4	5.8	7.6	8.5	7.0	19.1	39.1
Lighting Upgrade	7.2	6.6	7.8	8.2	7.7	15.6	41.0
Window Replacement	9.1	7.2	9.0	10.9	10.9	28.8	45.5
Plumbing System Upgrade	8.3	7.9	9.4	11.1	10.3	20.5	44.8
Insulation Upgrade	12.3	10.1	12.3	12.2	10.6	35.0	70.9
Other Renovation	30.6	24.1	26.9	32.9	37.4	71.3	59.2
No Renovations Since 1980	4.8	6.0	8.2	6.6	9.7	20.4	63.3
Building Newer than 1980	5.8	5.1	6.4	6.6	9.1	28.6	35.7

RSEs for Table C2. Total Energy Expenditures by Major Fuel for Non-Mall Buildings, 2003

	RSEs for All Buildings*		RSEs for Total Energy Expenditures				
	Number of Buildings	Floorspace	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	3.9	3.1	4.2	4.3	5.2	16.2	32.3
Energy Sources (more than one may apply)							
Electricity	3.9	3.7	4.4	4.3	5.7	17.5	27.0
Natural Gas	5.3	4.7	5.3	5.6	5.2	16.6	44.9
Fuel Oil	12.7	8.5	9.9	11.3	14.6	16.2	40.0
District Heat	12.4	13.4	14.1	16.5	31.0	39.6	32.3
District Chilled Water	13.0	11.5	13.3	18.3	26.4	34.4	60.7
Propane	16.3	13.3	17.7	16.7	22.3	34.4	86.4
Other	13.7	13.5	19.3	21.3	25.2	48.3	98.6
Space-Heating Energy Sources (more than one may apply)							
Electricity	6.6	4.6	5.5	6.1	8.4	17.2	51.3
Natural Gas	5.5	4.8	5.6	5.7	5.5	24.1	74.3
Fuel Oil	12.5	17.3	12.6	10.7	22.9	16.5	X
District Heat	12.4	13.9	14.5	17.1	30.5	35.9	32.3
Propane	19.9	15.8	25.7	29.6	44.1	32.1	100.2
Other	16.1	19.3	28.5	29.5	33.7	50.2	0.0
Primary Space-Heating Energy Source							
Electricity	8.1	7.4	6.5	7.3	9.8	35.8	53.6
Natural Gas	5.7	4.9	5.8	5.9	5.6	25.1	77.2
Fuel Oil	16.0	24.5	17.5	16.9	25.7	18.0	0.0
District Heat	12.8	14.4	14.8	17.7	36.0	34.8	33.7
Propane	22.0	18.4	38.8	39.7	X	64.7	X
Other	20.4	21.6	30.1	30.9	69.3	42.2	0.0
Cooling Energy Sources (more than one may apply)							
Electricity	3.2	3.1	4.2	4.5	5.3	21.5	38.2
Natural Gas	26.9	19.5	21.6	24.4	32.4	55.7	X
District Chilled Water	13.0	11.5	13.3	18.3	26.4	34.4	60.7
Water-Heating Energy Sources (more than one may apply)							
Electricity	5.9	4.8	5.5	5.9	9.5	20.7	38.7
Natural Gas	5.2	5.0	6.0	6.3	6.0	20.5	74.3
Fuel Oil	17.9	21.0	13.4	16.1	23.5	23.4	X
District Heat	22.6	14.2	15.4	20.0	40.4	51.0	30.6
Propane	22.3	18.5	39.9	43.6	98.3	36.4	X
Cooking Energy Sources (more than one may apply)							
Electricity	7.2	6.2	7.6	8.8	10.0	21.5	42.8
Natural Gas	6.5	7.2	6.8	7.3	8.5	27.8	37.0
Propane	19.3	15.6	30.4	34.4	44.8	27.7	100.5
Energy End Uses (more than one may apply)							
Buildings with Space Heating	3.5	3.1	4.2	4.3	5.3	16.1	32.3
Buildings with Cooling	3.2	3.0	4.1	4.4	5.6	21.1	32.4
Buildings with Water Heating	3.2	2.9	4.1	4.4	5.3	16.1	32.5
Buildings with Cooking	5.7	5.9	6.1	6.8	7.8	19.7	37.5
Buildings with Manufacturing	12.1	14.1	14.7	16.8	19.3	40.3	67.7
Buildings with Electricity Generation	7.6	6.6	7.8	9.2	11.6	19.1	45.8

RSEs for Table C2. Total Energy Expenditures by Major Fuel for Non-Mall Buildings, 2003

	RSEs for All Buildings*		RSEs for Total Energy Expenditures				
	Number of Buildings	Floorspace	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	3.9	3.1	4.2	4.3	5.2	16.2	32.3
Percent of Floorspace Heated							
Not Heated	8.4	8.9	23.9	27.2	55.2	62.6	X
1 to 50	8.0	10.4	11.7	13.9	17.6	38.2	100.0
51 to 99	7.0	7.2	7.8	9.1	14.0	25.2	48.4
100	3.8	4.1	5.1	5.0	5.4	17.4	36.0
Percent of Floorspace Cooled							
Not Cooled	8.6	11.2	24.7	20.4	13.9	23.5	100.3
1 to 50	5.7	7.1	7.4	8.6	9.1	27.0	45.1
51 to 99	6.9	5.9	5.9	6.9	10.9	28.5	37.7
100	3.7	4.1	5.8	6.3	7.2	27.0	58.0
Percent Lit When Open							
Zero	33.5	27.8	48.5	50.6	77.7	100.8	X
1 to 50	6.4	7.0	7.0	8.2	9.7	24.1	71.3
51 to 99	5.1	4.1	5.8	6.5	8.5	17.7	49.0
100	3.8	4.1	5.7	5.6	7.2	23.4	38.1
Building Never Open/ Electricity Not Used	10.9	13.0	23.6	32.9	24.8	61.6	100.1
Percent Lit When Closed							
Zero	5.2	5.5	7.4	6.0	7.2	19.6	55.1
1 to 50	3.6	3.7	4.8	4.9	6.4	28.3	35.6
51 to 100	9.6	12.4	19.3	18.5	20.0	37.7	95.1
Building Never Closed/ Electricity Not Used	8.9	5.0	8.2	9.5	11.3	21.1	46.8
Heating Equipment (more than one may apply)							
Heat Pumps	13.2	7.6	10.1	11.2	18.2	39.9	76.0
Packaged Heat Pumps	10.7	7.6	13.8	14.1	28.5	51.9	96.5
Split-System Heat Pumps	21.5	15.9	18.8	13.2	21.0	58.3	87.1
Individual Room Heat Pumps	14.9	11.8	13.5	15.4	18.9	58.1	61.2
Furnaces	5.4	5.1	6.8	6.6	7.2	29.4	69.2
Individual Space Heaters	9.3	5.9	7.8	7.5	9.0	25.4	64.0
District Heat	12.5	14.0	14.6	17.2	30.6	35.9	32.3
Boilers	6.8	7.1	7.7	8.1	8.2	14.5	77.2
Packaged Heating Units	6.2	4.4	5.8	6.8	7.0	36.1	63.4
Other	10.3	11.5	12.0	13.3	18.0	40.6	64.1
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	5.9	6.7	8.5	8.8	8.8	32.3	85.0
Heat Pumps	12.2	8.1	9.6	11.3	18.0	41.1	80.0
Packaged Heat Pumps	9.8	8.1	14.0	14.4	28.4	56.0	96.5
Split-System Heat Pumps	20.8	15.8	18.9	13.9	21.1	59.1	87.1
Individual Room Heat Pumps	14.8	12.6	14.1	16.4	18.8	57.7	63.4
Individual Air Conditioners	6.5	6.8	7.9	10.1	8.2	26.1	42.0
District Chilled Water	13.0	11.5	13.3	18.3	26.4	34.4	60.7
Central Chillers	10.0	8.4	9.8	10.3	12.9	22.7	32.5
Packaged Air Conditioning Units	4.5	4.5	4.8	5.1	6.2	20.9	43.0
Swamp Coolers	19.4	15.1	13.0	10.0	20.4	78.8	X
Other	24.6	20.1	24.6	20.7	34.9	60.5	76.3

RSEs for Table C2. Total Energy Expenditures by Major Fuel for Non-Mall Buildings, 2003

	RSEs for All Buildings*		RSEs for Total Energy Expenditures				
	Number of Buildings	Floorspace	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	3.9	3.1	4.2	4.3	5.2	16.2	32.3
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	5.4	5.3	7.3	8.4	9.3	18.2	70.5
Cooling	5.1	5.2	6.8	7.2	8.1	24.4	50.7
Water Heating Equipment							
Centralized System	3.6	3.2	4.0	4.9	5.7	16.1	34.2
Distributed System	8.4	7.9	9.8	10.1	13.1	33.8	94.2
Combination of Centralized and Distributed System	8.8	5.8	9.4	10.2	13.3	29.3	36.8
Lighting Equipment Types (more than one may apply)							
Incandescent	3.9	3.9	5.2	5.7	6.3	14.2	35.0
Standard Fluorescent	3.3	3.1	4.2	4.3	5.3	16.7	32.3
Compact Fluorescent	4.2	4.6	6.1	6.4	7.8	13.7	35.5
High Intensity Discharge	5.6	4.8	6.9	6.5	6.1	29.5	34.2
Halogen	6.6	5.2	6.9	7.1	7.8	21.7	36.0
Other	45.4	32.8	46.1	41.6	38.5	61.1	87.0
Refrigeration Equipment (more than one may apply)[a]							
Any Refrigeration	3.7	3.0	4.2	4.6	5.5	18.7	27.1
Commercial Refrigeration	4.6	4.7	5.4	5.8	7.2	19.5	35.4
Walk-In Units	4.3	5.6	5.8	6.3	7.6	18.2	37.3
Cases or Cabinets	5.4	4.8	6.0	6.7	8.4	20.4	40.1
Residential-Type Units	4.9	3.4	4.8	5.2	5.4	20.5	29.6
Vending Machines	4.4	3.8	5.1	5.7	6.7	16.1	29.4
No Refrigeration	5.8	6.9	14.1	9.7	14.0	26.0	95.2
Office Equipment (more than one may apply)							
Computers	3.2	3.0	4.2	4.6	5.6	18.1	32.5
With Flat Screen Monitors	5.9	4.8	6.6	6.8	9.8	18.7	35.1
Dedicated Servers	3.4	3.8	5.3	5.5	7.5	18.2	34.6
Laser Printers	3.7	3.5	4.5	5.4	7.1	19.3	39.9
Inkjet Printers	4.5	4.2	5.7	5.9	7.3	20.3	38.4
FAX Machines	3.2	3.3	4.4	4.6	5.7	20.2	33.0
Photocopiers	3.6	3.6	4.8	5.2	6.2	13.7	32.7
Number of Computers							
None	7.3	7.9	10.5	9.0	11.4	23.0	75.6
1 to 4	4.9	5.6	7.2	7.4	7.9	29.0	X
5 to 9	5.9	6.5	6.3	7.2	11.2	34.2	52.2
10 to 19	8.2	8.1	8.1	9.4	11.6	28.9	72.0
20 to 49	7.9	8.0	9.4	11.1	12.8	41.9	49.4
50 to 99	7.3	9.8	12.9	8.9	13.8	35.0	68.6
100 to 249	7.9	7.3	9.8	10.0	12.9	31.2	56.4
250 or More	8.5	9.0	10.0	10.6	16.6	20.5	31.9
Number of Dedicated Servers							
None	5.0	4.6	4.7	5.0	5.7	18.4	45.9
1 to 4	3.4	4.6	5.4	5.2	7.8	20.9	73.2
5 to 9	12.7	12.0	15.3	17.0	18.1	33.4	63.8
10 to 19	18.6	11.2	13.7	13.3	18.2	42.0	52.9
20 to 49	16.7	16.2	16.0	16.6	26.2	43.0	62.1
50 or More	30.4	19.2	19.9	21.6	37.7	39.9	49.2

RSEs for Table C2. Total Energy Expenditures by Major Fuel for Non-Mall Buildings, 2003

	RSEs for All Buildings*		RSEs for Total Energy Expenditures				
	Number of Buildings	Floorspace	Sum of Major Fuels	Electricity	Natural Gas	Fuel Oil	District Heat
All Buildings*	3.9	3.1	4.2	4.3	5.2	16.2	32.3
Number of Photocopiers							
None	5.8	5.8	6.2	5.9	8.2	30.5	63.9
One	4.7	5.3	4.9	5.8	8.0	25.6	73.2
2 to 4	4.9	5.6	7.0	7.4	8.2	22.4	63.5
5 to 9	9.7	9.0	11.8	13.9	14.5	35.6	48.0
10 or More	8.3	8.4	9.8	10.6	16.6	27.5	42.1
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	5.7	5.9	6.1	6.8	7.8	19.7	37.5
Activities with Large Amounts of Hot Water	5.4	5.6	6.7	7.5	7.7	19.0	42.4
Separate Computer Area	5.8	4.7	6.7	6.8	8.8	15.3	37.0
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	6.9	5.4	7.3	8.1	10.4	19.7	38.0
Economizer Cycle	6.1	5.1	6.8	6.6	7.9	20.6	38.9
HVAC Maintenance	3.9	3.8	4.7	4.8	5.7	17.2	32.3
Energy Management and Control System (EMCS)	9.3	5.5	7.5	8.4	10.7	20.1	40.8
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	4.4	3.7	4.9	5.0	5.9	23.9	33.7
Tinted Window Glass	3.9	4.2	6.1	5.6	7.9	22.5	43.9
Reflective Window Glass	8.6	5.7	8.8	9.1	9.9	29.1	44.3
External Overhangs or Awnings	6.7	5.5	7.3	8.3	9.1	24.3	44.8
Skylights or Atriums	6.2	6.0	8.4	9.4	11.7	26.6	37.8
Daylighting Sensors	16.4	11.3	18.0	21.9	25.9	45.5	52.1
Specular Reflectors	5.1	4.9	6.9	7.1	8.6	35.1	37.4
Electronic Ballasts	5.2	3.6	5.0	5.1	6.2	19.6	33.4
Energy Management and Control System (EMCS) For Lighting	20.6	10.6	12.0	13.5	16.1	40.9	72.4
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]							
Heating	4.2	3.3	4.5	4.8	6.0	17.6	40.1
Cooling	4.1	3.4	4.7	5.1	6.2	22.2	39.1
Lighting	3.6	3.5	4.6	4.2	5.0	19.7	30.9
Office Equipment	5.0	5.0	8.0	7.4	7.3	22.7	70.1

X=No cases in the 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 for Non-Mall Buildings, 2003

	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*	3.9	3.1	4.1	4.2	5.8	2.9	4.9
Building Floorspace (Square Feet)							
1,001 to 5,000	5.7	5.6	1.3	5.5	5.0	4.7	4.7
5,001 to 10,000	5.8	5.6	0.9	7.2	5.6	5.5	6.3
10,001 to 25,000	5.0	5.0	1.0	6.0	6.1	6.1	5.5
25,001 to 50,000	5.6	5.8	1.1	7.1	4.9	5.2	5.3
50,001 to 100,000	6.3	6.3	1.0	7.4	5.3	5.5	5.7
100,001 to 200,000	10.7	10.8	1.6	13.2	7.3	7.2	21.2
200,001 to 500,000	10.0	10.4	1.8	10.3	5.6	5.2	10.1
Over 500,000	13.2	13.1	3.8	13.7	8.6	7.5	10.3
Principal Building Activity							
Education	7.1	6.0	5.4	7.7	8.2	4.9	18.7
Food Sales	9.3	9.4	7.5	10.2	8.6	5.7	7.3
Food Service	7.4	9.0	6.5	8.2	7.1	7.4	6.3
Health Care	10.0	6.9	11.4	10.0	14.5	5.3	5.9
Inpatient	21.2	11.6	14.7	11.6	17.5	4.9	7.1
Outpatient	11.0	9.7	8.4	12.4	11.8	8.7	9.7
Lodging	11.5	9.2	12.7	10.5	14.9	7.0	8.5
Retail (Other Than Mall)	7.5	8.0	7.3	10.9	10.2	6.6	7.4
Office	5.5	6.5	7.5	7.5	8.8	3.0	4.5
Public Assembly	8.4	10.9	10.0	13.2	13.7	9.1	18.9
Public Order and Safety	18.3	18.8	20.7	24.4	26.8	9.1	10.2
Religious Worship	8.7	7.9	6.3	8.7	7.7	4.2	11.3
Service	8.6	9.7	8.6	13.3	13.4	8.0	8.0
Warehouse and Storage	8.5	10.5	9.4	21.1	21.3	16.4	19.6
Other	15.1	21.7	21.3	26.0	27.3	16.6	14.5
Vacant	10.5	16.1	14.4	21.1	22.9	18.6	62.0
Year Constructed							
Before 1920	9.7	12.3	11.3	11.6	11.2	7.0	8.2
1920 to 1945	7.6	11.3	10.8	17.5	17.6	10.1	16.4
1946 to 1959	8.0	7.8	7.5	10.0	10.9	7.3	6.1
1960 to 1969	7.1	6.8	5.9	8.5	8.3	6.3	6.8
1970 to 1979	7.1	7.0	7.8	7.9	9.2	5.2	5.5
1980 to 1989	6.0	6.4	7.6	9.9	11.1	6.2	8.2
1990 to 1999	7.5	6.6	5.8	8.8	8.6	5.7	15.9
2000 to 2003	10.1	8.4	8.5	9.8	11.4	7.7	6.9
Census Region and Division							
Northeast	10.0	9.6	7.9	9.2	9.1	4.7	7.4
New England	23.1	23.9	8.0	19.4	14.3	13.1	10.1
Middle Atlantic	11.1	10.5	10.1	10.7	10.6	4.5	8.9
Midwest	9.2	7.1	8.9	9.2	12.3	4.9	5.0
East North Central	12.0	9.9	10.4	11.5	13.7	5.6	5.4
West North Central	16.6	10.2	12.6	15.7	21.2	10.1	11.3
South	7.7	4.6	7.0	6.9	11.1	6.3	11.0
South Atlantic	11.9	5.0	9.6	9.4	17.1	9.6	16.3
East South Central	24.4	11.1	16.3	11.8	27.8	11.1	13.7
West South Central	11.9	11.2	12.5	14.3	17.2	11.1	10.0
West	8.1	4.8	8.2	8.1	13.2	5.6	6.4
Mountain	15.3	8.5	17.3	14.2	23.8	7.3	11.5
Pacific	9.6	5.3	8.6	8.9	15.2	7.4	6.2

RSEs for Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	3.9	3.1	4.1	4.2	5.8	2.9	4.9
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	10.1	10.9	6.9	11.8	10.0	6.3	5.2
5,500-7,000 HDD	12.2	9.1	8.2	9.5	11.7	4.4	4.4
4,000-5,499 HDD	23.6	15.3	17.6	17.3	21.6	6.4	8.3
Fewer than 4,000 HDD	14.4	11.1	6.2	13.6	13.0	8.8	7.5
2,000 CDD or More and --							
Fewer than 4,000 HDD	9.5	10.1	8.8	11.7	11.8	8.0	17.7
Number of Floors							
One	5.1	5.2	4.1	6.4	6.9	4.4	4.6
Two	4.6	5.1	4.5	6.7	6.3	4.7	5.3
Three	7.2	7.1	6.6	8.4	9.1	6.4	6.2
Four to Nine	11.1	9.7	6.9	9.6	9.0	4.8	16.7
Ten or More	13.8	15.0	7.9	15.3	9.7	6.5	9.8
Elevators and Escalators (more than one may apply)							
Any Elevators	4.9	5.3	4.9	6.7	6.2	3.4	8.7
Number of Elevators							
One	6.8	6.2	5.5	7.5	7.6	4.9	5.8
Two to Five	7.6	7.9	4.6	9.9	6.5	5.4	16.6
Six or More	13.1	13.5	9.2	12.2	10.2	6.1	7.9
Any Escalators	19.1	18.1	22.6	22.1	26.3	11.0	17.1
Number of Workers (main shift)							
Fewer than 5	5.9	6.7	4.9	12.2	12.0	8.6	12.4
5 to 9	6.0	5.9	4.6	7.1	5.5	5.7	5.6
10 to 19	5.4	7.1	6.9	7.2	6.7	5.6	7.0
20 to 49	6.2	7.6	4.8	8.5	5.8	4.5	5.9
50 to 99	8.0	7.7	6.2	8.1	5.8	4.2	5.4
100 to 249	8.9	7.9	5.9	11.1	8.5	6.2	7.0
250 or More	8.6	9.5	6.5	9.6	7.2	4.0	12.3
Weekly Operating Hours							
Fewer than 40	8.1	8.6	6.7	9.9	8.5	7.7	15.2
40 to 48	5.6	6.0	5.9	7.8	8.9	5.7	5.5
49 to 60	4.7	6.4	5.8	12.8	12.3	7.9	8.3
61 to 84	5.1	5.9	6.5	5.3	6.2	4.1	5.3
85 to 167	6.9	7.6	7.1	7.9	7.5	5.0	22.0
Open Continuously	10.8	5.3	10.6	7.4	12.5	4.3	5.6
Ownership and Occupancy							
Nongovernment Owned	4.2	3.4	4.5	4.3	6.2	3.3	3.4
Owner Occupied	5.5	4.6	5.2	5.8	8.0	4.5	4.3
Nonowner Occupied	5.8	4.7	5.5	4.8	6.9	3.6	4.2
Unoccupied	11.2	18.8	17.3	26.9	27.2	24.4	0.0
Government Owned	7.0	5.8	6.6	9.3	10.2	5.1	14.4
Federal	31.6	29.5	31.8	38.0	40.3	10.5	18.6
State	16.3	13.5	14.1	15.5	17.4	6.7	29.4
Local	7.4	6.7	5.6	8.0	7.8	4.6	5.9
Vacancy Status							
Completely Vacant	10.6	17.8	16.4	25.0	25.5	21.5	0.0
Mostly Vacant	32.2	32.9	28.2	38.3	48.4	31.9	40.3
Partially Vacant	5.9	6.4	7.4	7.6	9.1	4.1	5.7
Not At All Vacant	4.2	3.3	4.2	4.5	6.0	3.2	6.0

RSEs for Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	3.9	3.1	4.1	4.2	5.8	2.9	4.9
Number of Establishments							
One	4.4	3.7	4.5	4.7	6.4	3.2	3.2
2 to 5	5.8	5.9	5.4	8.6	8.9	6.0	7.1
6 to 10	14.4	13.5	13.3	20.2	19.4	11.0	26.3
11 to 20	19.0	16.7	23.2	16.3	23.6	12.5	9.2
More than 20	24.4	14.3	26.9	14.6	28.9	8.8	11.4
Currently Unoccupied	10.6	17.8	16.4	25.0	25.5	21.5	0.0
Predominant Exterior Wall Material							
Brick, Stone or Stucco	4.4	4.4	4.6	5.8	6.1	3.1	4.2
Concrete (Block or Poured)	7.1	6.2	6.0	8.3	8.8	5.4	5.0
Concrete Panels	8.3	10.6	10.9	15.7	15.4	8.8	22.2
Siding or Shingles	9.5	9.7	7.0	10.4	9.6	8.1	7.2
Metal Panels	9.2	8.1	7.1	11.9	12.0	9.9	7.7
Window Glass	25.8	18.0	26.3	22.8	30.3	13.0	13.9
Other	21.1	17.8	23.1	21.5	26.7	12.3	20.7
No One Major Type	33.5	23.1	32.2	30.0	43.4	16.7	29.9
Predominant Roof Material							
Built-Up	4.9	4.5	4.6	6.5	6.9	4.1	4.7
Shingles (Not Wood)	5.5	4.9	5.1	6.7	7.8	5.5	6.1
Metal Surfacing	7.9	8.2	6.4	8.6	7.4	5.6	6.5
Synthetic or Rubber	5.2	5.6	5.9	6.4	6.8	3.9	13.1
Slate or Tile	12.1	10.8	10.3	10.3	12.0	8.5	9.9
Wooden Materials	16.4	16.0	12.3	19.1	18.2	12.3	15.1
Concrete	20.3	36.7	34.9	40.9	38.6	23.2	40.6
Other	27.2	34.0	36.3	57.8	60.5	40.2	41.9
No One Major Type	30.2	27.7	25.4	27.8	27.1	19.9	34.2
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation Since 1980	6.2	5.4	5.6	6.0	7.2	3.8	4.7
Addition or Annex	9.6	8.9	10.2	8.6	11.8	6.8	6.2
Reduction In Floorspace	24.1	21.9	22.4	19.1	21.9	9.1	10.5
Cosmetic Improvements	6.6	5.7	5.8	5.8	6.7	3.6	5.1
Wall or Roof Replacement	10.9	7.2	10.2	7.6	11.4	5.0	6.1
Interior Wall Re-Configuration	8.5	6.4	8.6	7.3	9.9	4.3	6.1
HVAC Equipment Upgrade	7.4	5.8	6.5	6.6	8.5	4.3	5.2
Lighting Upgrade	7.2	6.6	6.7	7.0	7.9	4.4	5.7
Window Replacement	9.1	7.2	9.2	8.7	10.8	5.7	7.9
Plumbing System Upgrade	8.3	7.9	8.3	8.1	9.8	4.7	7.3
Insulation Upgrade	12.3	10.1	10.8	10.7	14.1	8.1	8.6
Other Renovation	30.6	24.1	27.7	22.8	29.8	14.6	25.9
No Renovations Since 1980	4.8	6.0	5.9	8.8	9.1	4.7	7.3
Building Newer than 1980	5.8	5.1	5.0	6.0	7.0	4.3	9.0

RSEs for Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	3.9	3.1	4.1	4.2	5.8	2.9	4.9
Energy Sources (more than one may apply)							
Electricity	3.9	3.7	4.6	4.9	6.1	2.7	6.4
Natural Gas	5.3	4.7	4.5	5.4	5.5	2.9	3.7
Fuel Oil	12.7	8.5	12.1	9.5	13.2	4.8	6.5
District Heat	12.4	13.4	12.0	14.7	13.0	5.0	24.2
District Chilled Water	13.0	11.5	12.9	12.9	14.7	5.4	29.1
Propane	16.3	13.3	13.6	19.6	22.3	11.0	16.5
Other	13.7	13.5	15.0	19.6	22.2	11.2	14.2
Space-Heating Energy Sources (more than one may apply)							
Electricity	6.6	4.6	5.3	4.9	8.2	4.6	4.2
Natural Gas	5.5	4.8	4.0	5.3	5.3	2.6	3.1
Fuel Oil	12.5	17.3	14.1	14.4	13.7	7.3	7.9
District Heat	12.4	13.9	12.4	15.0	13.1	5.0	24.7
Propane	19.9	15.8	14.3	23.0	23.5	20.9	14.7
Other	16.1	19.3	14.1	32.5	30.5	21.0	23.9
Primary Space-Heating Energy Source							
Electricity	8.1	7.4	5.1	5.6	6.9	5.0	4.5
Natural Gas	5.7	4.9	4.1	5.4	5.6	2.9	3.2
Fuel Oil	16.0	24.5	18.2	21.1	16.8	6.6	17.1
District Heat	12.8	14.4	12.5	15.4	13.3	5.0	25.0
Propane	22.0	18.4	12.7	25.1	19.4	17.4	10.0
Other	20.4	21.6	16.6	33.2	29.7	19.0	20.8
Cooling Energy Sources (more than one may apply)							
Electricity	3.2	3.1	3.9	4.1	5.4	2.7	3.2
Natural Gas	26.9	19.5	27.9	21.7	30.2	16.8	10.7
District Chilled Water	13.0	11.5	12.9	12.9	14.7	5.4	29.1
Water-Heating Energy Sources (more than one may apply)							
Electricity	5.9	4.8	5.1	5.3	7.3	4.6	4.4
Natural Gas	5.2	5.0	4.6	5.6	5.5	2.6	8.2
Fuel Oil	17.9	21.0	23.8	15.8	17.3	11.0	15.8
District Heat	22.6	14.2	18.1	15.1	19.1	5.9	11.7
Propane	22.3	18.5	15.4	24.8	19.7	14.9	16.9
Cooking Energy Sources (more than one may apply)							
Electricity	7.2	6.2	7.7	6.8	8.9	3.4	4.5
Natural Gas	6.5	7.2	7.1	6.7	6.8	3.8	4.6
Propane	19.3	15.6	13.5	18.5	14.7	9.9	16.6
Energy End Uses (more than one may apply)							
Buildings with Space Heating	3.5	3.1	4.1	4.3	5.6	2.7	5.0
Buildings with Cooling	3.2	3.0	3.9	4.1	5.3	2.5	5.0
Buildings with Water Heating	3.2	2.9	4.0	4.0	5.3	2.6	5.0
Buildings with Cooking	5.7	5.9	6.3	5.9	7.0	3.2	4.4
Buildings with Manufacturing	12.1	14.1	14.1	16.0	18.7	12.9	12.0
Buildings with Electricity Generation	7.6	6.6	8.6	7.2	8.4	3.7	5.6

RSEs for Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	3.9	3.1	4.1	4.2	5.8	2.9	4.9
Percent of Floorspace Heated							
Not Heated	8.4	8.9	7.4	19.4	19.5	17.3	14.1
1 to 50	8.0	10.4	8.1	12.2	12.0	10.4	9.4
51 to 99	7.0	7.2	7.9	7.6	8.8	4.9	5.1
100	3.8	4.1	4.4	5.1	5.8	2.7	5.8
Percent of Floorspace Cooled							
Not Cooled	8.6	11.2	8.0	25.1	24.5	18.7	24.5
1 to 50	5.7	7.1	5.6	8.0	8.0	5.1	6.0
51 to 99	6.9	5.9	7.5	5.7	7.9	3.9	4.2
100	3.7	4.1	4.3	5.6	6.0	3.4	7.7
Percent Lit When Open							
Zero	33.5	27.8	23.3	48.9	59.8	51.5	38.8
1 to 50	6.4	7.0	6.3	7.0	8.1	5.5	7.9
51 to 99	5.1	4.1	4.9	5.2	6.5	3.3	10.2
100	3.8	4.1	4.8	5.9	6.7	3.4	3.9
Building Never Open/ Electricity Not Used	10.9	13.0	11.7	21.4	23.5	18.5	34.0
Percent Lit When Closed							
Zero	5.2	5.5	4.9	8.2	8.9	6.2	15.5
1 to 50	3.6	3.7	4.4	4.9	5.4	3.0	3.7
51 to 100	9.6	12.4	13.1	19.0	18.3	10.3	7.6
Building Never Closed/ Electricity Not Used	8.9	5.0	8.7	7.4	10.9	4.6	5.6
Heating Equipment (more than one may apply)							
Heat Pumps	13.2	7.6	10.2	9.8	17.4	10.0	7.7
Packaged Heat Pumps	10.7	7.6	11.9	13.8	18.7	10.8	10.6
Split-System Heat Pumps	21.5	15.9	13.3	17.4	25.1	16.8	13.5
Individual Room Heat Pumps	14.9	11.8	13.8	13.6	16.1	8.9	10.3
Furnaces	5.4	5.1	4.2	6.3	5.6	3.8	4.4
Individual Space Heaters	9.3	5.9	8.1	7.2	10.8	5.3	5.3
District Heat	12.5	14.0	12.5	15.0	13.2	5.0	24.9
Boilers	6.8	7.1	5.9	7.4	6.2	3.6	4.6
Packaged Heating Units	6.2	4.4	4.9	5.6	6.2	4.2	3.8
Other	10.3	11.5	12.7	10.9	12.2	6.8	7.2
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	5.9	6.7	7.2	7.9	8.6	6.1	5.8
Heat Pumps	12.2	8.1	8.5	8.9	15.0	9.2	7.0
Packaged Heat Pumps	9.8	8.1	10.9	13.8	17.3	10.3	10.3
Split-System Heat Pumps	20.8	15.8	11.8	17.3	22.9	15.6	12.8
Individual Room Heat Pumps	14.8	12.6	12.7	13.9	14.2	8.3	11.2
Individual Air Conditioners	6.5	6.8	7.0	7.5	7.6	4.4	4.1
District Chilled Water	13.0	11.5	12.9	12.9	14.7	5.4	29.1
Central Chillers	10.0	8.4	9.1	9.1	9.3	4.2	6.9
Packaged Air Conditioning Units	4.5	4.5	4.6	5.0	5.4	2.8	3.8
Swamp Coolers	19.4	15.1	12.4	14.9	14.9	11.7	9.7
Other	24.6	20.1	18.2	26.1	24.5	12.6	10.9

RSEs for Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	3.9	3.1	4.1	4.2	5.8	2.9	4.9
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	5.4	5.3	5.2	6.7	7.3	4.9	4.8
Cooling	5.1	5.2	5.1	6.3	7.1	3.5	4.3
Water Heating Equipment							
Centralized System	3.6	3.2	4.4	4.1	5.3	2.6	3.2
Distributed System	8.4	7.9	6.9	10.1	9.5	5.8	6.3
Combination of Centralized and Distributed System	8.8	5.8	9.5	8.7	11.5	5.5	15.7
Lighting Equipment Types (more than one may apply)							
Incandescent	3.9	3.9	5.5	5.0	6.9	3.2	6.6
Standard Fluorescent	3.3	3.1	4.0	4.3	5.4	2.7	4.9
Compact Fluorescent	4.2	4.6	5.5	5.6	6.2	3.1	4.1
High Intensity Discharge	5.6	4.8	6.5	6.9	8.1	4.3	11.0
Halogen	6.6	5.2	7.3	6.7	8.1	3.8	4.5
Other	45.4	32.8	35.9	43.0	45.2	24.6	29.1
Refrigeration Equipment (more than one may apply)[a]							
Any Refrigeration	3.7	3.0	4.2	4.1	5.5	2.6	5.1
Commercial Refrigeration	4.6	4.7	4.9	5.3	5.7	3.1	4.3
Walk-In Units	4.3	5.6	6.6	5.7	6.3	3.8	4.5
Cases or Cabinets	5.4	4.8	5.3	5.7	6.6	3.3	4.4
Residential-Type Units	4.9	3.4	5.1	4.7	6.5	3.0	6.6
Vending Machines	4.4	3.8	4.5	4.9	5.6	2.8	6.8
No Refrigeration	5.8	6.9	6.2	15.1	15.6	11.6	16.0
Office Equipment (more than one may apply)							
Computers	3.2	3.0	4.0	4.1	5.1	2.6	5.1
With Flat Screen Monitors	5.9	4.8	6.3	6.4	7.0	2.9	7.5
Dedicated Servers	3.4	3.8	3.7	5.1	5.1	2.9	6.2
Laser Printers	3.7	3.5	4.2	4.1	5.4	3.0	7.8
Inkjet Printers	4.5	4.2	4.9	5.6	6.1	3.1	3.8
FAX Machines	3.2	3.3	4.1	4.3	5.2	2.7	5.0
Photocopiers	3.6	3.6	4.3	4.7	5.3	2.7	5.6
Number of Computers							
None	7.3	7.9	5.6	12.0	12.2	9.2	10.9
1 to 4	4.9	5.6	5.3	7.8	7.5	5.9	6.9
5 to 9	5.9	6.5	6.3	6.9	7.2	5.5	6.3
10 to 19	8.2	8.1	7.5	8.4	7.9	5.7	6.2
20 to 49	7.9	8.0	7.5	8.7	8.7	4.8	6.5
50 to 99	7.3	9.8	9.3	12.9	11.5	8.0	11.0
100 to 249	7.9	7.3	5.5	9.0	7.7	5.5	7.0
250 or More	8.5	9.0	6.1	9.5	6.7	4.2	12.3
Number of Dedicated Servers							
None	5.0	4.6	4.2	5.4	6.2	3.6	5.7
1 to 4	3.4	4.6	4.0	5.6	5.4	3.8	4.1
5 to 9	12.7	12.0	14.2	13.6	14.3	7.6	8.0
10 to 19	18.6	11.2	21.1	13.8	21.8	7.1	24.3
20 to 49	16.7	16.2	16.4	15.4	14.8	6.9	10.1
50 or More	30.4	19.2	25.8	19.5	26.4	9.1	13.1

RSEs for Table C3. Consumption and Gross Energy Intensity for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	3.9	3.1	4.1	4.2	5.8	2.9	4.9
Number of Photocopiers							
None	5.8	5.8	4.2	6.3	6.8	4.8	7.5
One	4.7	5.3	5.2	5.4	5.8	3.3	4.8
2 to 4	4.9	5.6	4.9	7.0	6.5	4.4	4.9
5 to 9	9.7	9.0	10.0	11.1	10.8	5.9	21.7
10 or More	8.3	8.4	8.9	9.0	10.0	4.2	6.2
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	5.7	5.9	6.3	5.9	6.9	3.2	4.4
Activities with Large Amounts of Hot Water	5.4	5.6	6.6	6.4	7.9	4.3	5.2
Separate Computer Area	5.8	4.7	6.2	6.4	7.5	3.2	4.3
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	6.9	5.4	6.5	6.9	7.7	3.5	9.6
Economizer Cycle	6.1	5.1	6.6	6.4	7.4	3.3	9.3
HVAC Maintenance	3.9	3.8	4.2	4.8	5.3	2.6	5.5
Energy Management and Control System (EMCS)	9.3	5.5	8.9	6.7	10.0	3.7	5.8
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	4.4	3.7	4.6	4.8	6.1	3.0	3.4
Tinted Window Glass	3.9	4.2	5.3	6.1	7.6	3.9	7.7
Reflective Window Glass	8.6	5.7	9.1	7.9	11.3	5.1	5.9
External Overhangs or Awnings	6.7	5.5	6.0	7.2	8.2	4.5	12.0
Skylights or Atriums	6.2	6.0	6.7	7.7	8.0	4.4	5.7
Daylighting Sensors	16.4	11.3	17.7	15.8	19.9	9.9	15.5
Specular Reflectors	5.1	4.9	5.8	6.8	7.9	3.5	4.4
Electronic Ballasts	5.2	3.6	5.3	4.9	6.6	2.9	5.9
Energy Management and Control System (EMCS) For Lighting	20.6	10.6	20.8	11.3	21.5	6.5	8.9
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]							
Heating	4.2	3.3	4.5	4.2	5.7	2.6	3.5
Cooling	4.1	3.4	4.5	4.5	5.8	2.6	6.0
Lighting	3.6	3.5	4.0	4.9	5.7	3.1	5.8
Office Equipment	5.0	5.0	5.2	8.2	8.6	5.6	5.4

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

RSEs for Table C4. Expenditures for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	3.9	3.1	4.1	3.7	5.4	2.8	1.7
Building Floorspace (Square Feet)							
1,001 to 5,000	5.7	5.6	1.3	4.7	4.7	4.4	2.1
5,001 to 10,000	5.8	5.6	0.9	8.4	7.3	7.2	5.1
10,001 to 25,000	5.0	5.0	1.0	5.0	5.3	5.2	2.6
25,001 to 50,000	5.6	5.8	1.1	6.3	4.5	4.7	3.6
50,001 to 100,000	6.3	6.3	1.0	7.2	5.6	5.8	2.5
100,001 to 200,000	10.7	10.8	1.6	12.3	7.2	7.1	2.5
200,001 to 500,000	10.0	10.4	1.8	9.1	7.1	6.7	4.2
Over 500,000	13.2	13.1	3.8	14.3	8.1	7.0	5.1
Principal Building Activity							
Education	7.1	6.0	5.4	7.6	7.7	4.7	2.5
Food Sales	9.3	9.4	7.5	9.5	6.9	5.3	4.4
Food Service	7.4	9.0	6.5	8.2	7.2	7.8	3.1
Health Care	10.0	6.9	11.4	9.3	13.7	4.6	3.0
Inpatient	21.2	11.6	14.7	11.7	16.3	4.2	3.4
Outpatient	11.0	9.7	8.4	11.2	10.8	7.8	4.3
Lodging	11.5	9.2	12.7	11.4	15.4	9.9	4.7
Retail (Other Than Mall)	7.5	8.0	7.3	10.2	10.0	5.7	4.9
Office	5.5	6.5	7.5	7.4	8.3	2.3	3.4
Public Assembly	8.4	10.9	10.0	13.3	14.1	12.1	7.2
Public Order and Safety	18.3	18.8	20.7	22.2	24.5	6.9	4.7
Religious Worship	8.7	7.9	6.3	7.7	7.4	3.7	3.5
Service	8.6	9.7	8.6	12.4	12.5	7.4	3.6
Warehouse and Storage	8.5	10.5	9.4	16.4	16.7	11.2	5.9
Other	15.1	21.7	21.3	25.0	26.3	15.6	5.6
Vacant	10.5	16.1	14.4	20.2	21.5	17.8	7.0
Year Constructed							
Before 1920	9.7	12.3	11.3	11.8	11.2	7.4	2.7
1920 to 1945	7.6	11.3	10.8	14.8	14.5	7.9	4.6
1946 to 1959	8.0	7.8	7.5	9.8	10.7	7.8	4.7
1960 to 1969	7.1	6.8	5.9	8.2	8.3	6.4	3.2
1970 to 1979	7.1	7.0	7.8	7.7	8.7	5.1	2.5
1980 to 1989	6.0	6.4	7.6	8.9	10.1	5.5	2.9
1990 to 1999	7.5	6.6	5.8	8.8	8.4	6.0	3.4
2000 to 2003	10.1	8.4	8.5	8.8	10.7	7.0	2.9
Census Region and Division							
Northeast	10.0	9.6	7.9	8.1	8.9	7.1	4.1
New England	23.1	23.9	8.0	20.2	16.8	15.8	3.9
Middle Atlantic	11.1	10.5	10.1	9.2	9.8	7.8	5.2
Midwest	9.2	7.1	8.9	9.3	11.8	5.0	2.3
East North Central	12.0	9.9	10.4	12.2	14.3	6.5	2.3
West North Central	16.6	10.2	12.6	13.5	16.3	5.7	6.4
South	7.7	4.6	7.0	5.6	9.8	4.9	2.3
South Atlantic	11.9	5.0	9.6	7.2	15.0	7.2	3.6
East South Central	24.4	11.1	16.3	9.5	25.2	8.4	3.0
West South Central	11.9	11.2	12.5	13.4	14.7	8.8	4.5
West	8.1	4.8	8.2	9.3	13.9	7.0	4.3
Mountain	15.3	8.5	17.3	15.9	26.4	11.7	7.2
Pacific	9.6	5.3	8.6	10.9	15.8	8.6	4.1

RSEs for Table C4. Expenditures for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	3.9	3.1	4.1	3.7	5.4	2.8	1.7
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	10.1	10.9	6.9	12.4	10.0	6.1	3.2
5,500-7,000 HDD	12.2	9.1	8.2	10.0	12.5	5.7	2.4
4,000-5,499 HDD	23.6	15.3	17.6	16.6	19.9	7.5	4.9
Fewer than 4,000 HDD	14.4	11.1	6.2	11.0	11.1	6.5	4.7
2,000 CDD or More and --							
Fewer than 4,000 HDD	9.5	10.1	8.8	10.7	10.4	7.4	3.1
Number of Floors							
One	5.1	5.2	4.1	5.1	5.7	3.3	2.4
Two	4.6	5.1	4.5	7.0	6.5	5.3	3.2
Three	7.2	7.1	6.6	7.9	8.7	6.1	3.0
Four to Nine	11.1	9.7	6.9	9.7	9.5	6.0	2.8
Ten or More	13.8	15.0	7.9	15.5	9.2	5.6	5.6
Elevators and Escalators (more than one may apply)							
Any Elevators	4.9	5.3	4.9	6.9	6.4	3.6	2.3
Number of Elevators							
One	6.8	6.2	5.5	7.8	7.8	5.2	2.5
Two to Five	7.6	7.9	4.6	9.4	5.8	5.5	2.9
Six or More	13.1	13.5	9.2	13.0	10.0	4.9	4.6
Any Escalators	19.1	18.1	22.6	21.7	27.0	11.1	4.2
Number of Workers (main shift)							
Fewer than 5	5.9	6.7	4.9	8.8	8.7	5.7	3.8
5 to 9	6.0	5.9	4.6	6.7	5.0	5.7	2.4
10 to 19	5.4	7.1	6.9	6.5	5.3	6.5	4.1
20 to 49	6.2	7.6	4.8	7.8	5.1	4.6	3.1
50 to 99	8.0	7.7	6.2	7.9	5.4	4.3	2.6
100 to 249	8.9	7.9	5.9	10.6	7.1	6.1	3.3
250 or More	8.6	9.5	6.5	10.0	7.0	3.5	3.3
Weekly Operating Hours							
Fewer than 40	8.1	8.6	6.7	9.3	7.9	7.9	3.4
40 to 48	5.6	6.0	5.9	6.7	7.5	4.6	2.9
49 to 60	4.7	6.4	5.8	9.7	9.3	5.1	3.9
61 to 84	5.1	5.9	6.5	5.0	5.8	4.2	1.9
85 to 167	6.9	7.6	7.1	6.9	6.4	4.7	2.2
Open Continuously	10.8	5.3	10.6	7.9	12.4	5.4	3.3
Ownership and Occupancy							
Nongovernment Owned	4.2	3.4	4.5	4.0	5.8	3.5	1.9
Owner Occupied	5.5	4.6	5.2	5.8	7.3	4.8	2.8
Nonowner Occupied	5.8	4.7	5.5	4.9	6.7	3.8	1.7
Unoccupied	11.2	18.8	17.3	25.0	25.3	22.9	7.0
Government Owned	7.0	5.8	6.6	8.4	9.3	4.2	2.1
Federal	31.6	29.5	31.8	35.2	38.7	8.7	4.4
State	16.3	13.5	14.1	15.3	16.3	6.4	2.4
Local	7.4	6.7	5.6	7.7	7.2	4.0	2.8
Vacancy Status							
Completely Vacant	10.6	17.8	16.4	23.4	24.0	20.6	5.3
Mostly Vacant	32.2	32.9	28.2	37.6	45.6	29.5	22.5
Partially Vacant	5.9	6.4	7.4	7.8	9.3	4.0	3.6
Not At All Vacant	4.2	3.3	4.2	3.9	5.4	3.2	1.8

RSEs for Table C4. Expenditures for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	3.9	3.1	4.1	3.7	5.4	2.8	1.7
Number of Establishments							
One	4.4	3.7	4.5	4.0	5.7	3.1	1.9
2 to 5	5.8	5.9	5.4	8.2	8.6	5.6	3.2
6 to 10	14.4	13.5	13.3	19.0	17.3	8.8	7.2
11 to 20	19.0	16.7	23.2	14.2	21.9	10.8	6.8
More than 20	24.4	14.3	26.9	15.2	28.7	5.5	10.5
Currently Unoccupied	10.6	17.8	16.4	23.4	24.0	20.6	5.3
Predominant Exterior Wall Material							
Brick, Stone or Stucco	4.4	4.4	4.6	5.1	5.2	3.0	2.0
Concrete (Block or Poured)	7.1	6.2	6.0	7.5	7.6	4.9	3.1
Concrete Panels	8.3	10.6	10.9	15.1	14.6	7.7	2.8
Siding or Shingles	9.5	9.7	7.0	11.9	12.1	11.5	7.0
Metal Panels	9.2	8.1	7.1	11.3	11.9	9.1	5.0
Window Glass	25.8	18.0	26.3	19.8	27.9	10.1	8.6
Other	21.1	17.8	23.1	19.7	24.9	8.7	10.7
No One Major Type	33.5	23.1	32.2	30.2	43.9	17.7	6.9
Predominant Roof Material							
Built-Up	4.9	4.5	4.6	5.9	6.3	3.8	2.1
Shingles (Not Wood)	5.5	4.9	5.1	6.3	7.3	5.8	3.6
Metal Surfacing	7.9	8.2	6.4	7.9	6.6	4.0	3.2
Synthetic or Rubber	5.2	5.6	5.9	6.4	6.9	4.2	1.9
Slate or Tile	12.1	10.8	10.3	11.2	10.7	7.0	4.7
Wooden Materials	16.4	16.0	12.3	18.7	15.3	10.2	7.3
Concrete	20.3	36.7	34.9	32.3	30.5	30.1	11.9
Other	27.2	34.0	36.3	54.7	57.1	34.8	11.1
No One Major Type	30.2	27.7	25.4	27.5	25.9	20.2	11.4
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation Since 1980	6.2	5.4	5.6	5.9	7.0	4.1	2.4
Addition or Annex	9.6	8.9	10.2	8.0	11.2	7.2	2.9
Reduction In Floorspace	24.1	21.9	22.4	20.4	23.3	9.1	4.7
Cosmetic Improvements	6.6	5.7	5.8	6.0	6.9	4.1	2.5
Wall or Roof Replacement	10.9	7.2	10.2	8.4	11.9	6.0	3.5
Interior Wall Re-Configuration	8.5	6.4	8.6	7.7	9.9	4.6	2.8
HVAC Equipment Upgrade	7.4	5.8	6.5	7.2	8.6	4.4	2.9
Lighting Upgrade	7.2	6.6	6.7	7.5	8.1	5.3	2.8
Window Replacement	9.1	7.2	9.2	8.8	10.8	7.1	4.1
Plumbing System Upgrade	8.3	7.9	8.3	8.9	10.5	5.9	3.7
Insulation Upgrade	12.3	10.1	10.8	11.2	14.0	7.4	2.9
Other Renovation	30.6	24.1	27.7	26.4	32.0	18.0	11.9
No Renovations Since 1980	4.8	6.0	5.9	7.2	7.7	4.4	3.1
Building Newer than 1980	5.8	5.1	5.0	5.8	6.6	4.1	2.1

RSEs for Table C4. Expenditures for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	3.9	3.1	4.1	3.7	5.4	2.8	1.7
Energy Sources (more than one may apply)							
Electricity	3.9	3.7	4.6	4.4	5.7	3.0	2.0
Natural Gas	5.3	4.7	4.5	5.3	5.6	3.1	1.6
Fuel Oil	12.7	8.5	12.1	9.9	13.9	5.1	3.0
District Heat	12.4	13.4	12.0	14.1	13.1	5.0	3.5
District Chilled Water	13.0	11.5	12.9	13.0	14.7	5.6	2.6
Propane	16.3	13.3	13.6	16.3	18.5	9.7	7.3
Other	13.7	13.5	15.0	17.8	19.3	10.3	5.5
Space-Heating Energy Sources (more than one may apply)							
Electricity	6.6	4.6	5.3	4.8	7.3	3.9	2.0
Natural Gas	5.5	4.8	4.0	5.3	5.3	2.7	1.6
Fuel Oil	12.5	17.3	14.1	13.1	12.6	9.7	3.5
District Heat	12.4	13.9	12.4	14.5	13.3	5.0	3.5
Propane	19.9	15.8	14.3	22.3	21.5	20.3	13.8
Other	16.1	19.3	14.1	27.9	25.6	16.6	8.2
Primary Space-Heating Energy Source							
Electricity	8.1	7.4	5.1	5.8	6.4	4.3	2.1
Natural Gas	5.7	4.9	4.1	5.6	5.7	3.1	1.8
Fuel Oil	16.0	24.5	18.2	18.4	13.3	11.6	6.8
District Heat	12.8	14.4	12.5	14.8	13.5	4.9	3.6
Propane	22.0	18.4	12.7	31.3	28.5	27.3	13.7
Other	20.4	21.6	16.6	29.0	25.5	17.3	11.2
Cooling Energy Sources (more than one may apply)							
Electricity	3.2	3.1	3.9	3.7	5.0	2.7	1.8
Natural Gas	26.9	19.5	27.9	19.5	28.0	12.5	5.7
District Chilled Water	13.0	11.5	12.9	13.0	14.7	5.6	2.6
Water-Heating Energy Sources (more than one may apply)							
Electricity	5.9	4.8	5.1	4.6	6.5	3.9	2.3
Natural Gas	5.2	5.0	4.6	5.5	5.5	3.1	1.8
Fuel Oil	17.9	21.0	23.8	14.2	14.6	15.6	6.5
District Heat	22.6	14.2	18.1	15.4	20.1	5.7	4.9
Propane	22.3	18.5	15.4	32.9	27.8	28.0	17.2
Cooking Energy Sources (more than one may apply)							
Electricity	7.2	6.2	7.7	6.8	8.9	3.5	2.1
Natural Gas	6.5	7.2	7.1	6.3	7.0	5.0	2.1
Propane	19.3	15.6	13.5	25.7	22.5	21.5	14.0
Energy End Uses (more than one may apply)							
Buildings with Space Heating	3.5	3.1	4.1	3.7	5.1	2.7	1.7
Buildings with Cooling	3.2	3.0	3.9	3.7	4.9	2.6	1.7
Buildings with Water Heating	3.2	2.9	4.0	3.7	4.9	2.8	1.7
Buildings with Cooking	5.7	5.9	6.3	5.6	7.0	4.3	2.4
Buildings with Manufacturing	12.1	14.1	14.1	13.8	16.1	11.5	6.1
Buildings with Electricity Generation	7.6	6.6	8.6	7.6	8.8	3.6	2.8

RSEs for Table C4. Expenditures for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	3.9	3.1	4.1	3.7	5.4	2.8	1.7
Percent of Floorspace Heated							
Not Heated	8.4	8.9	7.4	20.0	19.9	17.1	9.1
1 to 50	8.0	10.4	8.1	10.1	9.7	7.8	4.6
51 to 99	7.0	7.2	7.9	7.1	7.9	4.0	3.3
100	3.8	4.1	4.4	4.6	5.3	3.0	1.7
Percent of Floorspace Cooled							
Not Cooled	8.6	11.2	8.0	21.4	20.8	15.3	4.1
1 to 50	5.7	7.1	5.6	7.1	6.6	4.1	3.4
51 to 99	6.9	5.9	7.5	5.4	7.2	3.8	2.9
100	3.7	4.1	4.3	5.4	5.8	3.1	1.9
Percent Lit When Open							
Zero	33.5	27.8	23.3	42.7	52.7	43.4	22.5
1 to 50	6.4	7.0	6.3	6.6	7.2	5.4	3.3
51 to 99	5.1	4.1	4.9	5.3	6.6	3.3	2.0
100	3.8	4.1	4.8	5.0	6.0	3.1	1.9
Building Never Open/ Electricity Not Used	10.9	13.0	11.7	20.1	21.9	17.2	4.7
Percent Lit When Closed							
Zero	5.2	5.5	4.9	6.6	7.3	4.7	2.6
1 to 50	3.6	3.7	4.4	4.3	4.8	2.8	1.9
51 to 100	9.6	12.4	13.1	16.7	16.1	8.9	3.5
Building Never Closed/ Electricity Not Used	8.9	5.0	8.7	7.9	10.9	5.8	3.3
Heating Equipment (more than one may apply)							
Heat Pumps	13.2	7.6	10.2	8.7	15.1	8.1	3.7
Packaged Heat Pumps	10.7	7.6	11.9	11.9	16.1	8.6	4.8
Split-System Heat Pumps	21.5	15.9	13.3	16.1	22.7	14.9	4.8
Individual Room Heat Pumps	14.9	11.8	13.8	13.2	15.4	7.6	3.4
Furnaces	5.4	5.1	4.2	6.0	5.2	3.7	1.9
Individual Space Heaters	9.3	5.9	8.1	7.2	10.2	5.1	2.5
District Heat	12.5	14.0	12.5	14.6	13.4	5.1	3.5
Boilers	6.8	7.1	5.9	7.4	6.8	4.8	2.3
Packaged Heating Units	6.2	4.4	4.9	5.8	6.2	4.2	2.2
Other	10.3	11.5	12.7	10.6	12.1	7.2	3.8
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	5.9	6.7	7.2	7.7	7.8	6.0	2.9
Heat Pumps	12.2	8.1	8.5	8.4	13.3	7.6	3.2
Packaged Heat Pumps	9.8	8.1	10.9	12.1	15.0	8.3	4.5
Split-System Heat Pumps	20.8	15.8	11.8	16.1	20.8	14.0	4.6
Individual Room Heat Pumps	14.8	12.6	12.7	13.7	14.1	7.0	3.3
Individual Air Conditioners	6.5	6.8	7.0	7.3	7.4	4.5	3.0
District Chilled Water	13.0	11.5	12.9	13.0	14.7	5.6	2.6
Central Chillers	10.0	8.4	9.1	9.4	10.1	3.8	3.2
Packaged Air Conditioning Units	4.5	4.5	4.6	4.7	5.0	3.3	2.2
Swamp Coolers	19.4	15.1	12.4	12.1	14.6	11.4	5.6
Other	24.6	20.1	18.2	23.6	21.3	10.9	6.3

RSEs for Table C4. Expenditures for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	3.9	3.1	4.1	3.7	5.4	2.8	1.7
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	5.4	5.3	5.2	6.8	6.9	4.8	2.4
Cooling	5.1	5.2	5.1	6.2	6.8	3.7	2.1
Water Heating Equipment							
Centralized System	3.6	3.2	4.4	3.7	4.7	2.8	1.9
Distributed System	8.4	7.9	6.9	9.1	8.9	5.5	3.2
Combination of Centralized and Distributed System	8.8	5.8	9.5	8.9	11.8	5.4	3.0
Lighting Equipment Types (more than one may apply)							
Incandescent	3.9	3.9	5.5	4.8	6.5	3.6	2.1
Standard Fluorescent	3.3	3.1	4.0	3.8	5.0	2.7	1.8
Compact Fluorescent	4.2	4.6	5.5	5.6	6.1	3.2	2.1
High Intensity Discharge	5.6	4.8	6.5	6.4	7.9	4.0	2.3
Halogen	6.6	5.2	7.3	6.6	8.0	3.6	2.4
Other	45.4	32.8	35.9	44.1	42.4	27.6	7.3
Refrigeration Equipment (more than one may apply)[a]							
Any Refrigeration	3.7	3.0	4.2	3.7	5.2	2.8	1.8
Commercial Refrigeration	4.6	4.7	4.9	4.9	5.8	3.7	2.2
Walk-In Units	4.3	5.6	6.6	5.4	6.3	4.6	2.2
Cases or Cabinets	5.4	4.8	5.3	5.4	6.5	3.7	2.2
Residential-Type Units	4.9	3.4	5.1	4.4	6.1	3.2	1.9
Vending Machines	4.4	3.8	4.5	4.8	5.5	2.9	1.8
No Refrigeration	5.8	6.9	6.2	11.2	11.8	8.0	4.7
Office Equipment (more than one may apply)							
Computers	3.2	3.0	4.0	3.8	4.7	2.8	1.8
With Flat Screen Monitors	5.9	4.8	6.3	6.3	6.8	3.0	2.2
Dedicated Servers	3.4	3.8	3.7	4.8	4.7	3.1	2.0
Laser Printers	3.7	3.5	4.2	4.1	5.2	3.6	2.2
Inkjet Printers	4.5	4.2	4.9	5.2	5.6	2.7	1.9
FAX Machines	3.2	3.3	4.1	4.0	4.7	2.9	1.8
Photocopiers	3.6	3.6	4.3	4.5	4.8	3.0	2.0
Number of Computers							
None	7.3	7.9	5.6	9.2	9.5	7.1	4.4
1 to 4	4.9	5.6	5.3	6.4	5.7	5.3	2.8
5 to 9	5.9	6.5	6.3	6.0	6.3	5.6	4.2
10 to 19	8.2	8.1	7.5	7.7	7.0	5.6	2.8
20 to 49	7.9	8.0	7.5	8.8	9.1	5.7	4.3
50 to 99	7.3	9.8	9.3	11.3	10.0	8.3	4.1
100 to 249	7.9	7.3	5.5	9.1	7.5	5.0	2.7
250 or More	8.5	9.0	6.1	9.8	7.2	4.0	3.1
Number of Dedicated Servers							
None	5.0	4.6	4.2	4.4	5.3	3.1	2.0
1 to 4	3.4	4.6	4.0	4.9	4.4	3.5	2.0
5 to 9	12.7	12.0	14.2	13.9	12.4	9.6	5.9
10 to 19	18.6	11.2	21.1	13.2	20.9	6.8	4.1
20 to 49	16.7	16.2	16.4	15.0	15.5	5.8	3.7
50 or More	30.4	19.2	25.8	19.5	26.7	8.7	6.3

RSEs for Table C4. Expenditures for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	3.9	3.1	4.1	3.7	5.4	2.8	1.7
Number of Photocopiers							
None	5.8	5.8	4.2	5.1	5.7	4.4	2.2
One	4.7	5.3	5.2	5.0	4.4	3.7	3.0
2 to 4	4.9	5.6	4.9	6.4	5.8	4.1	2.1
5 to 9	9.7	9.0	10.0	10.9	9.8	8.0	4.6
10 or More	8.3	8.4	8.9	9.5	9.8	3.8	3.2
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	5.7	5.9	6.3	5.6	7.0	4.3	2.4
Activities with Large Amounts of Hot Water	5.4	5.6	6.6	6.3	7.6	5.0	2.6
Separate Computer Area	5.8	4.7	6.2	6.2	7.5	3.4	2.2
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	6.9	5.4	6.5	6.9	7.8	3.5	2.3
Economizer Cycle	6.1	5.1	6.6	6.5	7.8	3.2	1.9
HVAC Maintenance	3.9	3.8	4.2	4.3	5.0	2.8	1.8
Energy Management and Control System (EMCS)	9.3	5.5	8.9	7.0	9.9	3.5	2.5
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	4.4	3.7	4.6	4.4	5.9	3.3	1.7
Tinted Window Glass	3.9	4.2	5.3	5.5	7.0	3.5	1.9
Reflective Window Glass	8.6	5.7	9.1	8.0	11.3	4.9	3.3
External Overhangs or Awnings	6.7	5.5	6.0	6.6	7.7	4.3	2.5
Skylights or Atriums	6.2	6.0	6.7	8.0	8.3	5.2	3.2
Daylighting Sensors	16.4	11.3	17.7	17.3	18.5	12.2	6.9
Specular Reflectors	5.1	4.9	5.8	6.3	7.2	3.5	2.3
Electronic Ballasts	5.2	3.6	5.3	4.5	6.1	2.8	1.9
Energy Management and Control System (EMCS) For Lighting	20.6	10.6	20.8	11.3	20.5	6.7	4.3
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]							
Heating	4.2	3.3	4.5	3.9	5.5	3.3	2.1
Cooling	4.1	3.4	4.5	4.2	5.4	2.9	2.0
Lighting	3.6	3.5	4.0	4.0	5.0	2.6	1.7
Office Equipment	5.0	5.0	5.2	7.1	7.0	4.6	2.7

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

RSEs for Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	9.2	9.2	6.9	8.1	9.6	7.1	4.6	4.8	4.7	4.9	6.3	5.6
Building Floorspace (Square Feet)												
1,001 to 5,000	12.5	10.4	11.1	11.2	14.5	13.2	10.0	13.0	5.6	10.6	7.1	12.5
5,001 to 10,000	12.5	13.6	11.2	19.7	12.4	13.4	7.8	17.0	9.4	11.0	9.9	12.3
10,001 to 25,000	12.2	10.0	12.3	11.6	13.7	9.6	9.8	9.4	10.9	8.3	14.6	8.0
25,001 to 50,000	13.2	13.4	11.1	13.9	11.1	9.3	10.8	10.7	10.8	9.3	9.6	7.2
50,001 to 100,000	17.2	15.6	9.8	17.2	14.2	13.5	9.7	13.3	15.5	10.3	6.5	6.2
100,001 to 200,000	21.8	21.4	26.1	10.6	24.1	15.5	18.0	13.1	18.5	8.8	13.4	11.3
200,001 to 500,000	17.2	24.3	13.5	17.1	21.6	24.9	15.4	22.2	10.8	6.7	8.2	18.4
Over 500,000	16.2	20.6	30.2	39.0	17.7	22.1	29.1	32.5	16.2	14.5	7.8	26.2
Principal Building Activity												
Education	16.6	12.1	14.1	13.8	13.2	9.9	10.8	9.5	9.7	6.1	10.1	8.6
Food Sales	21.2	24.6	15.2	19.5	17.3	24.4	14.2	19.9	15.0	8.9	7.2	17.4
Food Service	16.7	15.0	12.7	28.3	18.9	20.8	14.5	20.2	11.1	12.5	12.7	16.8
Health Care	22.3	15.4	18.2	26.4	11.6	12.6	13.2	14.2	16.3	7.2	8.1	13.9
Inpatient	26.5	16.1	20.6	31.7	20.8	11.8	23.1	22.4	12.2	8.6	4.7	13.3
Outpatient	26.3	21.7	27.3	24.1	27.5	18.0	19.7	14.9	15.9	8.9	22.2	16.7
Lodging	28.6	14.9	13.3	29.7	33.2	11.8	13.6	14.0	14.4	7.8	7.6	25.7
Retail (Other Than Mall)	18.6	26.5	15.7	18.2	12.7	21.2	11.5	16.9	14.9	13.5	10.0	8.5
Office	10.7	14.5	18.2	15.1	11.2	11.1	14.8	15.4	5.1	4.4	5.3	8.1
Public Assembly	20.0	25.9	28.8	24.4	27.3	18.0	18.6	13.5	23.5	14.5	19.4	16.0
Public Order and Safety	51.7	21.9	40.0	30.3	40.4	28.6	33.1	32.3	21.4	13.3	8.5	11.7
Religious Worship	18.6	15.3	15.5	17.2	22.9	11.8	14.5	12.9	8.4	5.7	8.0	8.1
Service	26.1	21.1	31.0	29.2	26.3	16.9	18.2	22.0	18.6	11.3	21.1	10.5
Warehouse and Storage	22.6	41.7	17.7	40.4	25.3	21.2	19.4	21.0	21.7	20.7	13.6	30.0
Other	35.7	28.2	65.7	41.2	32.4	22.2	50.6	35.2	21.8	19.6	54.7	11.4
Vacant	43.4	30.7	60.4	49.1	37.3	28.7	20.8	57.3	28.1	23.9	63.2	50.0
Year Constructed												
Before 1920	17.8	15.8	49.2	31.9	18.2	20.2	42.4	29.1	15.7	8.9	11.1	15.8
1920 to 1945	22.2	36.2	25.4	22.4	21.5	23.8	17.8	23.4	12.0	14.9	13.2	14.7
1946 to 1959	19.7	15.1	20.7	17.8	18.3	12.6	13.6	16.2	11.6	8.2	21.9	13.4
1960 to 1969	20.5	15.8	14.2	16.7	17.4	13.1	12.4	15.2	12.0	12.2	12.1	9.7
1970 to 1979	15.4	15.3	12.7	17.8	16.5	16.0	7.7	16.3	13.7	10.2	10.0	9.5
1980 to 1989	18.6	14.8	17.6	22.8	17.4	11.1	10.3	13.1	8.3	9.5	11.9	14.8
1990 to 1999	19.2	19.4	13.4	19.9	17.7	16.2	9.7	15.3	16.2	9.4	9.3	12.2
2000 to 2003	32.5	17.9	13.7	21.5	18.2	15.4	13.9	19.5	19.3	8.9	11.9	16.0
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	36.3	13.0	0.0	24.0	35.5	10.2	0.0	20.5	14.1	9.5	0.0	7.2
5,500-7,000 HDD	15.1	14.0	0.0	17.6	15.8	13.0	0.0	23.6	5.6	5.9	0.0	18.5
4,000-5,499 HDD	23.8	4.2	34.2	53.0	20.5	27.4	31.2	44.1	7.6	23.9	9.0	8.4
Fewer than 4,000 HDD	0.0	0.0	18.1	10.9	0.0	0.0	16.3	9.4	0.0	0.0	12.0	7.2
2,000 CDD or More and --												
Fewer than 4,000 HDD	0.0	0.0	12.5	35.8	0.0	0.0	10.6	33.1	0.0	0.0	8.6	10.3
Number of Floors												
One	12.0	17.7	8.3	11.9	15.5	11.8	9.0	8.7	9.7	9.2	5.8	7.3
Two	13.5	9.9	14.0	12.2	13.1	8.5	9.2	11.0	6.8	8.1	10.8	9.5
Three	12.9	12.3	20.9	12.8	15.5	11.7	12.5	14.5	14.2	8.6	15.0	10.1
Four to Nine	17.3	13.2	22.5	17.2	19.2	13.0	21.7	12.6	11.3	7.9	8.0	10.2
Ten or More	20.2	18.7	31.7	44.4	17.5	18.4	32.6	36.0	7.5	10.6	5.3	34.8

RSEs for Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	9.2	9.2	6.9	8.1	9.6	7.1	4.6	4.8	4.7	4.9	6.3	5.6
Elevators and Escalators (more than one may apply)												
Any Elevators	12.5	10.1	14.2	16.5	10.1	7.9	11.2	13.1	6.8	5.1	6.5	10.3
Number of Elevators												
One	18.4	11.5	10.2	20.0	11.6	10.5	8.5	20.8	15.6	5.1	8.6	11.7
Two to Five	19.0	13.3	22.4	10.7	15.6	13.7	16.4	11.1	10.6	8.0	11.3	10.2
Six or More	17.9	21.5	23.2	31.8	18.0	23.2	27.0	28.7	9.2	9.0	6.9	24.0
Any Escalators	26.2	35.1	33.4	59.0	22.4	38.3	35.2	32.7	17.4	17.0	9.7	45.7
Number of Workers (main shift)												
Fewer than 5	15.6	27.9	10.2	11.2	15.7	15.7	11.7	13.2	3.9	16.2	6.7	10.9
5 to 9	14.8	11.0	13.5	16.9	17.2	12.5	8.8	14.2	10.2	11.8	9.6	16.5
10 to 19	22.2	11.5	9.8	23.6	22.1	7.5	11.0	16.4	10.8	9.0	11.5	11.5
20 to 49	20.5	13.8	14.3	18.4	21.9	11.2	11.0	14.8	12.7	6.3	8.2	8.5
50 to 99	21.4	11.1	17.7	15.1	21.9	11.6	14.9	13.5	14.6	4.4	6.3	6.9
100 to 249	19.1	16.8	23.2	11.2	15.1	14.1	15.5	10.8	12.4	9.2	12.1	8.6
250 or More	14.5	13.9	20.5	25.6	13.7	14.0	20.0	23.3	6.2	5.9	6.6	14.6
Weekly Operating Hours												
Fewer than 40	22.9	15.5	13.0	32.6	22.0	17.9	13.5	21.6	13.4	9.0	10.4	28.6
40 to 48	20.8	15.4	10.1	13.8	15.4	9.8	10.4	13.5	12.8	9.9	9.1	10.8
49 to 60	11.8	31.4	12.8	13.4	14.5	17.6	7.2	11.2	8.0	13.6	9.9	6.7
61 to 84	9.3	10.4	9.7	14.5	10.8	11.1	11.4	10.4	8.2	7.2	6.6	14.0
85 to 167	21.7	11.4	15.4	9.5	21.2	11.9	14.7	11.2	9.7	7.3	10.0	11.2
Open Continuously	14.4	10.0	14.4	19.2	11.9	9.0	10.4	10.9	7.8	7.0	8.1	12.9
Ownership and Occupancy												
Nongovernment Owned	10.4	6.0	7.7	11.7	10.5	5.9	6.1	6.2	6.2	5.7	7.1	7.3
Owner Occupied	12.0	7.6	12.4	16.6	12.9	5.8	9.0	10.4	9.6	5.6	10.6	9.8
Nonowner Occupied	12.0	8.0	6.9	14.6	12.8	10.2	7.6	8.8	5.4	6.3	7.2	8.8
Unoccupied	65.4	35.6	68.0	68.9	45.8	32.3	23.4	74.1	19.4	30.1	69.8	64.6
Government Owned	15.9	21.8	12.9	13.3	11.1	12.4	9.5	9.5	8.3	9.6	8.0	8.1
Federal	24.8	61.1	47.6	55.0	30.0	54.7	41.4	58.2	19.7	6.9	20.4	27.3
State	24.2	35.3	27.9	20.9	23.0	29.9	24.0	19.2	16.9	11.7	11.2	10.5
Local	20.4	10.9	15.5	15.2	12.5	9.6	13.5	14.5	11.1	4.6	9.0	10.4
Vacancy Status												
Completely Vacant	61.2	33.3	63.0	68.9	44.0	30.3	21.9	73.2	22.7	24.9	66.6	64.5
Mostly Vacant	64.6	68.5	88.4	55.0	62.7	52.2	73.2	49.8	51.7	49.1	222.7	45.7
Partially Vacant	14.1	12.4	17.9	21.1	13.7	10.5	13.1	18.1	9.6	5.7	6.8	11.1
Not At All Vacant	9.2	9.5	7.2	8.6	10.4	6.7	4.9	5.6	5.8	5.4	7.1	5.7
Number of Establishments												
One	10.9	10.8	6.5	7.8	12.4	9.0	5.0	4.9	6.9	5.1	6.6	6.7
2 to 5	14.7	16.8	17.6	19.2	13.9	11.6	8.9	14.8	9.5	9.5	14.2	10.0
6 to 10	27.2	24.5	50.4	16.2	21.9	15.0	39.4	19.4	16.2	23.8	17.3	11.8
11 to 20	25.1	30.0	31.7	27.5	35.9	26.4	26.1	29.4	20.3	14.1	16.3	8.6
More than 20	18.4	31.4	27.2	36.4	17.7	21.9	23.8	37.2	17.0	16.0	11.8	10.4
Currently Unoccupied	61.2	33.3	63.0	68.9	44.0	30.3	21.9	73.2	22.7	24.9	66.6	64.5

RSEs for Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	9.2	9.2	6.9	8.1	9.6	7.1	4.6	4.8	4.7	4.9	6.3	5.6
Predominant Exterior Wall Material												
Brick, Stone or Stucco	12.3	13.0	7.9	10.7	11.5	8.8	6.7	9.8	5.8	5.8	5.1	6.5
Concrete (Block or Poured)	13.8	16.7	16.1	13.1	14.9	16.2	9.0	8.1	9.9	10.0	11.5	7.6
Concrete Panels	19.4	13.9	30.1	35.3	29.6	13.8	18.8	20.1	15.7	10.0	17.5	21.6
Siding or Shingles	24.3	15.3	19.6	26.0	22.5	13.7	16.4	28.1	13.9	10.7	17.0	28.4
Metal Panels	29.7	20.3	17.5	28.0	20.5	15.4	13.4	19.1	20.0	15.6	18.7	12.1
Window Glass	31.7	58.1	32.7	42.7	27.6	51.4	23.5	43.9	16.0	36.6	14.7	15.2
Other	41.1	40.7	40.1	39.4	32.5	30.8	38.7	39.9	18.3	27.3	10.1	26.2
No One Major Type	54.4	47.5	65.9	59.7	47.6	27.3	49.1	52.2	37.0	31.9	37.5	23.3
Predominant Roof Material												
Built-Up	11.8	9.7	13.1	13.0	11.0	8.9	7.9	7.7	8.2	6.6	8.4	10.3
Shingles (Not Wood)	17.3	11.8	10.5	14.1	10.6	8.4	10.6	10.7	10.7	8.2	9.5	16.4
Metal Surfacing	22.2	15.4	14.2	20.0	33.9	14.3	13.0	14.1	15.6	9.2	9.0	9.7
Synthetic or Rubber	14.7	8.8	13.3	17.3	10.8	10.7	11.8	17.3	6.4	7.1	5.7	16.8
Slate or Tile	21.6	22.2	16.1	23.5	15.3	20.6	13.6	32.3	22.0	10.8	8.0	27.8
Wooden Materials	51.9	37.1	25.6	37.8	43.7	32.1	22.4	34.3	22.8	24.8	14.2	17.3
Concrete	84.7	70.6	43.0	31.9	89.0	62.1	38.6	28.6	38.2	10.7	10.7	18.6
Other	67.7	41.0	82.5	34.9	68.9	37.2	64.0	44.4	23.9	29.3	53.5	28.4
No One Major Type	41.3	48.7	65.2	34.5	46.4	40.1	49.6	48.2	26.0	24.0	20.0	60.3
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation Since 1980	12.0	10.9	10.7	10.1	13.4	9.4	7.6	12.2	7.4	5.0	10.6	6.7
Addition or Annex	18.4	13.7	18.2	11.0	26.9	12.7	10.4	12.1	16.1	6.3	17.4	10.0
Reduction In Floorspace	29.5	36.8	34.6	72.3	35.4	46.0	40.2	64.1	11.9	36.2	15.5	8.1
Cosmetic Improvements	12.5	10.6	9.8	10.8	12.6	9.5	10.6	13.3	6.9	5.3	9.1	6.7
Wall or Roof Replacement	14.7	13.3	14.7	18.1	14.4	12.1	15.0	18.4	10.1	8.2	9.3	12.8
Interior Wall Re-Configuration	13.3	12.1	18.9	13.3	12.5	10.9	13.4	14.6	9.4	6.5	11.0	7.8
HVAC Equipment Upgrade	13.2	11.5	13.6	12.1	11.9	10.3	10.9	15.3	7.2	6.8	12.2	7.8
Lighting Upgrade	14.1	10.9	16.2	11.9	13.4	10.8	16.0	12.8	9.4	6.1	11.4	7.8
Window Replacement	14.6	15.5	18.3	23.2	13.1	11.2	18.0	19.5	9.7	9.8	12.4	13.3
Plumbing System Upgrade	14.5	13.9	19.4	17.1	14.2	14.2	17.5	18.5	8.6	8.3	12.3	10.2
Insulation Upgrade	22.0	16.0	21.7	22.4	22.3	13.4	19.0	28.3	16.3	12.1	15.3	15.2
Other Renovation	37.4	41.5	56.2	43.8	41.2	39.8	65.3	50.0	39.3	12.7	50.3	28.6
No Renovations Since 1980	14.9	18.5	15.6	14.2	13.2	13.5	10.6	7.2	6.6	8.0	10.9	9.8
Building Newer than 1980	16.1	10.2	9.8	15.1	13.1	9.7	8.4	10.9	11.1	6.8	7.5	9.1
Energy Sources (more than one may apply)												
Electricity	9.6	10.8	7.5	9.4	9.5	9.8	4.7	4.6	5.1	5.1	5.1	6.4
Natural Gas	10.5	6.6	11.3	11.5	10.1	6.3	10.0	8.1	7.3	5.3	5.3	5.0
Fuel Oil	18.2	17.8	18.5	20.5	16.5	12.9	18.2	15.8	7.5	10.1	8.0	15.3
District Heat	21.3	35.8	22.3	21.0	19.9	34.2	20.7	23.2	9.7	8.4	8.1	18.0
District Chilled Water	26.8	28.5	22.5	24.9	23.3	28.9	19.9	21.9	11.9	5.6	7.5	19.5
Propane	31.3	48.3	20.0	29.6	36.7	34.5	15.3	22.2	10.5	16.1	20.2	20.4
Other	37.3	31.9	40.2	41.5	33.8	24.2	20.0	30.5	17.7	16.6	26.2	16.1

RSEs for Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	9.2	9.2	6.9	8.1	9.6	7.1	4.6	4.8	4.7	4.9	6.3	5.6
Space-Heating Energy Sources (more than one may apply)												
Electricity	15.3	8.0	6.0	14.8	12.4	6.6	8.2	10.7	10.0	5.4	8.1	11.4
Natural Gas	11.5	6.8	10.8	12.6	10.7	6.8	10.1	9.5	5.8	4.7	5.4	5.0
Fuel Oil	22.2	15.6	21.5	23.8	25.7	14.4	21.5	13.0	9.8	12.7	12.6	17.7
District Heat	21.1	35.8	22.7	21.5	20.4	34.3	21.4	23.9	10.0	8.4	7.9	19.0
Propane	27.9	39.5	42.8	41.6	44.7	34.7	20.5	33.9	31.4	15.8	39.0	33.9
Other	38.5	56.1	65.3	68.4	38.9	39.6	30.9	44.7	9.3	35.9	43.8	23.4
Primary Space-Heating Energy Source												
Electricity	14.0	13.2	7.8	15.3	14.9	12.3	11.6	15.7	5.8	9.8	7.8	4.4
Natural Gas	11.8	6.8	11.2	13.0	10.4	7.0	10.4	10.9	6.0	5.2	6.0	5.8
Fuel Oil	25.4	41.6	27.7	35.5	28.7	24.3	37.8	26.4	6.5	31.5	14.8	20.1
District Heat	20.7	37.4	23.7	21.5	20.1	36.1	22.4	20.9	10.3	8.7	8.0	15.6
Propane	47.2	46.8	39.6	62.7	51.5	38.3	28.5	41.0	13.4	17.9	15.6	59.3
Other	71.3	70.4	61.8	31.9	45.3	45.3	43.4	36.1	33.2	51.7	20.3	38.2
Cooling Energy Sources (more than one may apply)												
Electricity	9.7	6.9	7.3	9.6	9.3	6.2	4.4	6.3	3.9	3.7	6.3	5.4
Natural Gas	37.0	34.8	52.2	27.3	30.5	33.9	30.6	49.2	21.7	18.5	29.6	49.3
District Chilled Water	26.8	28.5	22.5	24.9	23.3	28.9	19.9	21.9	11.9	5.6	7.5	19.5
Water-Heating Energy Sources (more than one may apply)												
Electricity	13.6	9.0	9.0	9.4	13.3	10.3	8.2	10.6	8.6	7.8	8.6	7.3
Natural Gas	11.5	8.8	11.6	10.1	12.0	7.7	9.9	8.0	7.3	4.4	4.8	3.9
Fuel Oil	19.2	41.0	36.2	60.8	24.8	31.8	47.7	62.2	12.4	27.7	20.4	11.3
District Heat	24.0	26.5	35.3	32.6	22.6	23.9	32.7	30.7	7.9	8.8	13.5	20.8
Propane	45.8	46.3	41.6	71.1	42.5	32.4	33.7	50.6	14.7	15.2	16.5	67.6
Cooking Energy Sources (more than one may apply)												
Electricity	14.4	10.5	11.0	24.4	13.3	10.9	12.0	13.3	5.4	5.8	5.9	14.4
Natural Gas	15.4	10.5	11.7	15.7	21.4	10.2	10.6	14.1	14.5	3.6	4.4	8.6
Propane	40.8	31.8	30.3	41.6	36.4	37.0	28.6	27.8	9.7	13.5	13.7	26.8
Energy End Uses (more than one may apply)												
Buildings with Space Heating	9.2	9.2	7.1	8.2	9.3	7.2	4.4	4.9	4.6	4.4	5.9	5.4
Buildings with Cooling	9.5	7.0	6.9	9.1	9.1	6.1	4.5	5.8	3.8	3.5	5.9	5.5
Buildings with Water Heating	9.4	6.5	7.1	8.7	9.4	5.8	4.4	5.5	4.8	4.5	5.7	5.3
Buildings with Cooking	13.7	10.3	9.8	14.8	17.0	9.2	9.2	10.9	10.1	3.9	5.2	8.0
Buildings with Manufacturing	26.2	29.9	27.7	41.2	32.8	16.9	24.4	29.8	25.6	22.5	26.8	22.3
Buildings with Electricity Generation	13.8	14.2	12.8	18.2	12.2	11.2	13.8	14.2	6.3	5.3	7.0	12.5
Percent of Floorspace Heated												
Not Heated	28.0	50.8	27.9	33.1	32.6	18.3	12.6	20.3	42.2	48.9	24.7	27.1
1 to 50	24.3	32.4	20.9	17.5	26.7	22.2	18.9	12.8	14.5	13.8	22.3	10.6
51 to 99	19.5	14.7	11.9	16.8	13.0	14.9	14.4	14.3	14.1	11.9	7.4	6.0
100	10.0	10.1	8.9	11.3	12.3	7.4	6.2	7.0	6.1	4.6	5.0	8.0

RSEs for Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	9.2	9.2	6.9	8.1	9.6	7.1	4.6	4.8	4.7	4.9	6.3	5.6
Percent of Floorspace Cooled												
Not Cooled	20.2	48.4	29.4	21.7	25.2	25.5	16.7	19.6	17.7	27.1	26.2	16.2
1 to 50	14.5	13.0	13.8	24.9	14.8	10.4	14.3	16.1	6.4	6.6	12.2	15.4
51 to 99	12.2	11.8	9.2	12.2	13.4	11.9	9.2	12.9	10.7	5.3	5.9	8.2
100	12.8	7.8	9.7	14.2	10.0	7.2	7.0	9.9	5.7	3.5	6.4	9.4
Percent Lit When Open												
Zero	83.9	96.0	67.5	72.4	60.3	58.0	39.4	53.4	80.9	97.6	75.4	47.9
1 to 50	17.8	10.3	11.3	21.9	20.0	7.4	13.5	8.9	10.0	9.2	9.6	14.5
51 to 99	12.4	9.8	10.0	11.9	8.8	9.7	6.8	10.1	6.9	4.8	6.9	7.3
100	11.8	12.4	9.5	12.0	11.2	9.5	5.7	7.3	5.8	4.3	7.1	7.0
Building Never Open/ Electricity Not Used	48.6	29.1	59.5	57.3	34.3	24.6	15.5	50.4	21.6	20.7	60.9	61.3
Percent Lit When Closed												
Zero	13.1	17.9	12.3	12.3	14.0	11.0	9.8	10.1	9.2	9.9	12.2	5.7
1 to 50	9.8	9.3	7.8	10.3	10.6	7.9	5.5	6.7	5.1	6.5	5.4	6.1
51 to 100	29.8	49.0	16.9	21.3	24.1	40.8	14.6	20.5	14.1	14.4	12.9	12.8
Building Never Closed/ Electricity Not Used	14.4	10.0	14.4	19.2	11.7	9.4	8.9	11.2	7.4	7.2	8.9	15.1
Heating Equipment (more than one may apply)												
Heat Pumps	21.8	23.9	11.7	31.3	19.4	23.1	10.6	14.8	17.6	10.2	15.7	24.1
Packaged Heat Pumps	27.0	23.9	19.2	42.0	24.0	22.8	8.3	20.6	11.3	10.9	17.8	33.1
Split-System Heat Pumps	56.8	24.6	22.7	29.2	21.3	38.6	21.2	27.7	47.8	23.8	21.5	18.6
Individual Room Heat Pumps	29.1	41.3	18.6	16.5	25.2	40.7	17.8	19.4	20.6	7.4	10.6	19.3
Furnaces	15.6	7.1	13.8	15.8	15.7	7.1	9.3	10.0	10.2	5.3	8.9	9.1
Individual Space Heaters	18.6	10.9	12.5	14.4	16.8	10.4	10.9	12.5	14.6	6.1	10.6	10.2
District Heat	21.5	36.0	22.7	21.5	20.9	34.5	21.4	23.9	10.1	8.5	7.9	19.0
Boilers	15.7	9.4	15.8	13.9	16.1	7.7	15.6	13.0	8.5	4.9	7.1	8.5
Packaged Heating Units	16.3	8.7	8.1	15.6	13.1	10.6	7.0	9.3	9.7	7.1	7.3	9.9
Other	22.1	20.0	18.4	31.1	24.7	20.5	19.9	25.6	14.4	7.9	13.8	10.4
Cooling Equipment (more than one may apply)												
Residential-Type Central Air Conditioners	17.0	8.3	20.4	16.3	19.0	7.0	13.3	15.0	13.9	7.3	15.0	12.7
Heat Pumps	20.8	23.5	9.6	29.2	19.3	22.6	12.2	14.4	16.9	9.7	14.1	22.1
Packaged Heat Pumps	24.5	23.3	19.8	42.5	24.2	22.6	9.4	20.4	10.7	10.9	17.4	33.6
Split-System Heat Pumps	56.8	22.7	22.7	27.9	21.3	33.5	21.4	26.7	47.8	24.4	19.7	17.4
Individual Room Heat Pumps	28.9	41.3	22.3	22.3	24.5	40.7	21.6	20.9	20.6	7.4	8.9	17.8
Individual Air Conditioners	17.1	10.2	12.4	18.8	17.8	9.2	11.5	13.5	7.7	3.6	12.7	8.4
District Chilled Water	26.8	28.5	22.5	24.9	23.3	28.9	19.9	21.9	11.9	5.6	7.5	19.5
Central Chillers	15.0	13.6	18.1	22.7	15.5	12.4	14.8	22.1	7.6	5.6	7.4	16.0
Packaged Air Conditioning Units	12.9	7.4	8.5	9.7	12.6	7.9	7.2	7.2	6.8	5.1	5.6	5.4
Swamp Coolers	83.5	73.3	35.0	16.9	89.6	89.9	31.7	17.0	10.3	256.3	39.4	12.4
Other	35.3	33.4	57.0	46.4	32.1	38.3	39.7	36.5	19.5	15.7	30.7	23.2
Main Equipment Replaced Since 1990 (more than one may apply)												
Heating	14.1	9.7	11.1	22.1	15.2	7.4	8.6	12.8	8.4	6.9	10.0	15.4
Cooling	13.8	10.5	9.9	16.8	13.4	9.4	7.9	8.0	4.4	4.5	8.5	12.0

RSEs for Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	9.2	9.2	6.9	8.1	9.6	7.1	4.6	4.8	4.7	4.9	6.3	5.6
Water Heating Equipment												
Centralized System	8.1	7.7	8.8	10.8	7.9	5.6	6.9	6.6	5.1	5.6	5.2	5.0
Distributed System	26.3	22.1	13.0	15.3	27.3	16.8	8.2	13.8	15.4	11.2	8.1	8.4
Combination of Centralized and Distributed System	19.4	13.7	16.0	19.5	17.0	9.5	8.7	15.2	10.6	7.9	10.9	13.1
Lighting Equipment Types (more than one may apply)												
Incandescent	11.7	7.2	9.5	11.7	12.3	6.5	6.1	8.0	7.3	4.6	7.0	7.3
Standard Fluorescent	9.4	9.8	6.8	8.3	9.6	7.2	4.6	5.1	4.5	4.4	6.0	5.1
Compact Fluorescent	13.4	9.7	10.6	10.6	12.4	8.3	9.0	7.3	6.5	3.6	6.3	7.7
High Intensity Discharge	12.3	14.5	12.7	11.4	12.2	11.9	7.7	6.5	8.2	6.4	10.2	7.0
Halogen	11.2	9.7	14.2	15.8	10.7	8.1	8.6	14.2	6.1	4.3	9.6	6.8
Other	73.9	70.6	44.6	75.8	62.9	77.8	47.1	82.4	20.0	28.4	13.5	57.7
Refrigeration Equipment (more than one may apply)[a]												
Any Refrigeration	9.1	6.9	7.4	8.6	9.3	6.1	4.4	5.2	4.6	4.6	5.6	5.3
Commercial Refrigeration	11.0	10.4	9.3	11.7	12.2	10.1	7.2	9.6	7.8	4.1	5.6	7.7
Walk-In Units	11.8	10.1	10.4	12.3	16.6	9.4	8.6	9.9	12.1	4.5	5.8	9.6
Cases or Cabinets	12.5	11.9	9.7	13.3	10.6	12.3	7.3	11.9	6.1	5.3	6.3	8.2
Residential-Type Units	9.5	8.7	8.9	9.3	10.0	7.3	5.9	5.8	5.2	4.5	7.2	6.5
Vending Machines	11.2	8.8	8.0	12.6	10.2	8.5	5.5	8.1	5.7	5.2	5.5	6.1
No Refrigeration	19.0	36.6	12.1	15.0	16.9	17.4	11.4	13.0	14.4	19.8	11.0	14.2
Office Equipment (more than one may apply)												
Computers	9.2	8.7	6.8	8.7	9.0	6.4	4.7	5.1	4.5	4.5	5.5	5.0
With Flat Screen Monitors	14.5	10.3	11.4	12.3	11.2	7.7	9.2	9.6	5.6	5.3	4.4	9.1
Dedicated Servers	11.3	9.9	9.7	10.1	10.4	7.4	7.0	6.1	5.4	4.1	6.5	5.7
Laser Printers	8.0	6.0	7.4	13.2	8.4	5.1	7.0	8.2	5.7	4.8	6.3	7.0
Inkjet Printers	11.5	10.3	10.6	12.4	11.9	7.9	7.0	9.6	6.5	3.9	6.7	5.8
FAX Machines	9.4	7.6	7.6	9.9	9.3	6.1	5.1	6.4	4.4	4.3	6.1	5.3
Photocopiers	10.2	8.2	8.5	11.1	9.2	6.6	5.5	7.2	4.6	4.1	6.2	5.8
Number of Computers												
None	18.4	22.2	21.1	21.2	21.1	16.6	11.7	21.8	13.2	9.5	20.6	14.8
1 to 4	14.8	19.9	8.9	14.2	16.1	13.7	7.7	11.9	10.4	13.4	9.5	7.5
5 to 9	16.8	15.6	8.7	12.2	20.9	11.2	10.2	13.3	11.0	7.7	9.3	8.6
10 to 19	24.6	10.9	15.2	13.4	18.2	12.7	15.5	13.9	15.6	7.7	11.8	7.0
20 to 49	19.7	14.4	16.3	20.5	22.0	14.3	13.1	14.0	8.1	5.4	10.4	12.9
50 to 99	25.3	17.1	26.6	11.5	28.2	14.3	16.0	15.5	7.6	9.6	17.8	12.9
100 to 249	25.7	14.4	11.3	19.4	18.4	12.9	9.9	19.1	13.3	7.8	7.6	14.2
250 or More	13.6	17.8	19.7	25.2	11.6	17.0	19.1	19.1	6.9	6.3	6.8	17.3
Number of Dedicated Servers												
None	9.1	11.1	8.7	9.0	11.9	10.4	7.7	6.2	5.2	6.8	7.1	7.3
1 to 4	12.3	8.0	12.2	9.5	13.4	6.3	8.0	7.5	7.2	4.2	9.8	6.1
5 to 9	21.8	17.7	31.0	27.1	27.7	15.3	24.5	25.4	19.4	8.0	13.4	21.0
10 to 19	33.5	21.8	27.6	16.1	29.2	20.4	22.3	15.5	16.6	13.9	10.9	6.8
20 to 49	32.1	30.4	27.3	22.5	26.2	23.0	30.3	25.3	10.9	11.5	8.0	18.2
50 or More	23.7	55.5	31.8	53.3	24.5	55.5	37.8	40.6	14.5	8.2	11.9	41.2

RSEs for Table C5. Consumption and Gross Energy Intensity by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	9.2	9.2	6.9	8.1	9.6	7.1	4.6	4.8	4.7	4.9	6.3	5.6
Number of Photocopiers												
None	12.9	15.5	8.2	12.9	19.7	12.7	9.7	10.7	8.9	8.4	7.9	11.5
One	13.2	9.3	9.6	13.4	15.3	9.6	8.9	13.0	7.0	5.3	7.2	5.7
2 to 4	13.5	9.4	14.6	15.5	11.9	7.6	10.6	8.9	8.8	4.4	10.1	9.6
5 to 9	24.0	15.6	22.0	16.8	23.4	11.9	14.4	14.0	16.0	8.0	9.3	15.3
10 or More	14.3	16.3	19.0	23.5	14.3	15.4	18.4	17.6	7.2	6.4	7.5	14.7
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	13.7	10.3	9.8	15.0	17.0	9.2	9.2	10.9	10.1	3.9	5.2	8.1
Activities with Large Amounts of Hot Water	14.6	10.9	12.2	11.7	20.1	9.5	7.6	8.7	15.6	5.1	7.7	8.3
Separate Computer Area	12.3	11.7	13.1	13.1	10.0	9.0	8.9	8.2	6.1	4.3	7.0	7.4
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	15.0	12.1	12.9	16.3	12.2	9.0	10.6	10.9	7.3	6.2	6.3	9.2
Economizer Cycle	15.9	8.8	14.0	11.5	14.5	7.5	11.1	8.6	6.2	4.7	7.0	8.2
HVAC Maintenance	10.1	10.4	8.5	7.6	10.7	8.1	5.7	4.1	4.9	3.6	5.6	5.6
Energy Management and Control System (EMCS)	12.7	14.0	11.4	18.0	9.6	10.3	10.9	12.0	7.1	6.9	6.0	11.5
Window and Interior Lighting Features (more than one may apply)												
Multipaned Windows	10.3	8.3	9.1	11.6	11.1	6.2	5.6	6.6	6.1	4.9	6.4	7.9
Tinted Window Glass	13.3	15.7	9.8	11.7	13.4	11.9	6.3	6.8	6.3	6.5	7.7	8.1
Reflective Window Glass	14.6	13.5	15.4	14.5	12.0	12.4	10.5	10.4	10.5	6.7	10.3	12.8
External Overhangs or Awnings	11.5	11.4	13.8	13.4	15.2	10.8	9.1	9.0	10.3	7.1	9.3	9.2
Skylights or Atriums	11.7	15.7	13.1	21.6	12.8	11.7	11.4	13.5	6.3	8.9	7.2	13.6
Daylighting Sensors	26.5	27.5	18.7	35.1	25.1	19.6	20.9	25.3	15.8	10.2	13.4	24.2
Specular Reflectors	12.8	14.8	11.3	12.9	11.9	10.1	8.2	8.9	6.6	5.6	6.7	7.5
Electronic Ballasts	11.3	10.8	7.5	9.6	11.2	7.9	5.5	6.0	5.4	4.6	5.9	5.6
Energy Management and Control System (EMCS) For Lighting	19.8	20.6	25.6	24.7	13.4	20.4	22.1	24.5	14.7	9.4	10.9	15.7
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]												
Heating	9.3	8.8	7.0	8.0	9.9	6.9	5.4	4.9	5.5	5.8	4.5	6.0
Cooling	9.3	9.7	7.2	9.4	9.7	6.9	5.6	5.3	4.7	5.2	4.8	6.2
Lighting	8.5	11.7	6.2	8.3	10.8	7.8	5.3	5.0	4.5	5.4	6.0	5.1
Office Equipment	11.1	20.1	9.5	11.9	9.8	9.8	8.9	9.5	5.4	12.7	8.1	5.3

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

RSEs for Table C6. Expenditures by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	8.1	9.3	5.6	9.3	4.1	2.3	2.3	4.3	7.1	5.0	4.9	7.0
Building Floorspace (Square Feet)												
1,001 to 5,000	11.4	8.7	9.8	9.9	3.6	3.2	3.4	6.2	6.5	9.1	6.9	10.6
5,001 to 10,000	11.0	13.2	10.6	26.0	7.0	5.4	3.4	16.5	7.2	9.6	8.2	23.5
10,001 to 25,000	11.0	9.3	9.2	9.5	6.1	4.5	3.9	6.9	8.6	6.9	11.8	9.1
25,001 to 50,000	11.9	11.3	11.1	14.5	4.2	6.2	3.9	10.9	10.3	9.7	8.4	7.4
50,001 to 100,000	17.7	13.9	8.7	17.4	4.1	3.3	2.3	7.6	16.6	10.2	5.3	8.0
100,001 to 200,000	21.1	22.3	24.1	13.9	5.4	3.7	3.7	9.9	22.1	9.3	12.2	10.9
200,001 to 500,000	18.1	22.7	14.2	16.2	11.7	2.7	3.3	7.5	22.2	6.5	6.2	17.3
Over 500,000	15.9	22.7	31.8	37.0	13.9	8.7	4.1	11.7	13.9	14.2	7.1	21.6
Principal Building Activity												
Education	19.7	10.7	12.5	10.0	5.0	3.2	4.4	6.6	13.4	5.7	7.6	6.8
Food Sales	19.2	23.1	15.5	19.0	13.9	3.7	4.3	6.2	8.5	9.6	7.6	18.1
Food Service	20.0	13.6	10.8	32.8	6.2	3.0	3.6	9.7	13.6	13.9	11.3	22.2
Health Care	17.2	14.5	17.4	24.6	6.5	7.5	2.7	5.0	10.5	4.1	7.7	11.4
Inpatient	22.3	13.0	21.7	31.2	5.7	9.4	3.2	4.4	9.5	6.4	4.0	12.2
Outpatient	27.0	22.7	18.8	21.5	7.0	3.5	11.1	8.7	13.8	9.3	18.5	12.0
Lodging	24.1	11.8	14.3	33.3	15.2	6.3	3.8	7.6	29.6	3.6	6.4	29.3
Retail (Other Than Mall)	17.2	22.3	15.7	22.5	9.4	6.5	3.1	11.0	15.0	9.5	10.2	10.4
Office	12.5	14.8	17.1	17.7	8.1	2.7	3.8	7.4	4.8	4.8	3.5	5.8
Public Assembly	17.1	23.9	23.9	37.7	11.6	5.8	6.0	21.5	35.6	11.8	14.3	31.8
Public Order and Safety	46.5	29.7	34.5	27.6	14.8	12.2	5.6	8.5	12.4	8.5	5.6	11.3
Religious Worship	19.6	12.0	13.1	19.9	5.2	3.7	6.2	9.4	9.3	4.6	6.2	15.4
Service	23.7	19.1	29.0	24.9	9.8	3.9	4.1	10.8	14.0	8.8	19.5	13.6
Warehouse and Storage	23.4	39.1	17.7	31.2	2.5	4.9	5.5	24.2	22.7	17.9	11.1	14.7
Other	35.0	26.5	65.2	48.1	3.2	17.4	4.0	13.1	20.5	15.8	54.3	22.4
Vacant	45.9	29.7	45.7	42.4	10.3	7.5	38.6	25.5	32.0	23.7	50.2	40.8
Year Constructed												
Before 1920	17.8	16.4	47.9	32.9	2.8	4.0	3.5	17.4	14.6	9.0	9.4	17.8
1920 to 1945	19.2	36.6	24.5	24.4	6.8	5.9	5.3	6.9	12.6	15.0	12.9	12.0
1946 to 1959	22.2	14.8	15.4	15.7	11.2	2.8	9.5	8.2	18.5	8.4	14.5	14.9
1960 to 1969	20.4	13.9	12.3	15.3	3.6	3.8	3.9	12.1	13.1	11.3	10.8	12.1
1970 to 1979	16.7	15.8	11.4	17.4	5.6	4.3	3.4	5.9	13.7	11.4	8.1	8.0
1980 to 1989	17.6	14.6	15.1	20.9	4.4	6.5	4.1	6.2	7.9	7.7	9.9	13.2
1990 to 1999	17.0	19.2	12.1	26.1	6.3	1.9	2.9	10.5	14.7	9.1	7.3	20.2
2000 to 2003	25.7	18.0	13.9	16.0	9.1	3.6	2.9	10.6	12.2	8.8	12.3	12.1
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	36.8	12.1	0.0	23.5	3.7	2.4	0.0	4.9	16.9	8.1	0.0	4.6
5,500-7,000 HDD	14.6	15.1	0.0	25.4	3.8	2.7	0.0	12.5	8.0	7.2	0.0	28.1
4,000-5,499 HDD	22.0	19.0	32.5	65.5	8.5	22.6	3.0	11.1	13.6	8.1	7.5	15.4
Fewer than 4,000 HDD	0.0	0.0	16.9	11.5	0.0	0.0	4.0	4.6	0.0	0.0	9.0	8.0
2,000 CDD or More and --												
Fewer than 4,000 HDD	0.0	0.0	11.3	38.8	0.0	0.0	3.1	7.8	0.0	0.0	7.7	13.9
Number of Floors												
One	12.1	15.3	7.9	8.4	5.1	3.0	2.5	6.2	10.4	6.9	5.1	5.6
Two	12.3	10.6	11.6	19.5	5.3	3.7	3.7	10.3	8.9	9.2	8.3	15.4
Three	14.2	12.5	17.3	19.2	4.3	5.1	6.0	8.5	15.1	9.6	10.1	10.7
Four to Nine	16.1	13.4	23.8	17.4	6.9	4.9	3.5	7.5	17.1	9.3	7.8	8.4
Ten or More	18.4	18.1	32.3	43.7	11.9	5.6	3.5	17.4	7.6	6.2	4.1	22.7

RSEs for Table C6. Expenditures by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	8.1	9.3	5.6	9.3	4.1	2.3	2.3	4.3	7.1	5.0	4.9	7.0
Elevators and Escalators (more than one may apply)												
Any Elevators	12.6	10.7	13.9	17.9	5.4	3.1	2.4	5.8	8.8	5.7	5.6	8.5
Number of Elevators												
One	19.0	12.2	10.5	19.6	5.1	3.0	3.4	9.6	15.7	5.7	7.6	8.8
Two to Five	19.3	13.0	21.0	15.6	6.6	4.6	3.2	8.0	12.4	8.6	9.8	11.3
Six or More	17.5	23.0	25.4	32.0	10.8	8.0	3.8	10.9	8.3	5.4	5.1	16.0
Any Escalators	30.7	35.1	34.8	53.2	8.7	8.9	5.1	15.3	24.3	10.4	8.7	36.8
Number of Workers (main shift)												
Fewer than 5	12.7	24.5	9.8	8.4	6.4	3.7	3.3	5.7	8.1	13.6	6.1	9.2
5 to 9	17.4	11.5	12.0	12.7	4.0	5.2	3.5	7.4	12.4	13.4	8.9	13.7
10 to 19	14.1	10.3	9.8	25.7	14.4	3.9	2.9	11.9	17.4	8.0	10.1	17.1
20 to 49	20.3	12.6	11.8	17.6	6.4	4.7	4.2	9.7	17.8	5.7	5.0	10.1
50 to 99	21.2	11.5	15.3	14.5	3.8	3.7	4.5	9.9	15.4	4.3	3.7	6.7
100 to 249	20.1	17.7	21.6	17.8	4.1	4.2	3.8	9.9	11.3	9.8	10.6	15.7
250 or More	14.2	14.2	21.3	25.6	8.0	5.5	2.8	8.1	4.6	4.2	5.7	11.9
Weekly Operating Hours												
Fewer than 40	23.5	13.6	10.5	30.4	4.3	5.8	5.3	8.7	12.7	10.6	7.7	27.3
40 to 48	16.5	16.6	9.7	10.3	8.3	4.4	2.9	7.9	15.4	10.3	7.1	5.7
49 to 60	12.0	29.9	10.3	13.3	4.0	3.9	4.5	7.2	10.0	11.9	6.8	6.9
61 to 84	9.2	9.9	8.5	14.1	3.8	3.4	3.1	4.8	9.6	7.0	6.6	12.6
85 to 167	16.3	10.9	13.6	8.3	6.5	3.2	3.5	6.2	10.9	6.7	9.1	10.6
Open Continuously	14.2	9.3	14.0	22.8	7.6	4.5	2.5	7.9	11.3	5.7	7.0	15.8
Ownership and Occupancy												
Nongovernment Owned	9.0	6.2	6.7	12.4	4.8	2.9	2.2	4.7	8.5	5.5	6.0	8.4
Owner Occupied	11.6	6.6	10.7	19.5	4.9	4.4	3.6	8.4	11.5	4.7	8.1	14.3
Nonowner Occupied	11.0	8.9	6.8	14.1	5.4	2.3	2.5	3.1	8.1	5.7	6.8	8.0
Unoccupied	64.8	36.4	52.6	52.6	7.2	7.2	49.5	22.0	18.1	34.3	55.0	47.8
Government Owned	15.2	21.9	11.7	11.1	2.8	2.4	3.5	5.6	7.5	9.8	7.0	8.1
Federal	22.8	60.6	50.0	50.9	6.0	1.2	5.4	5.0	18.5	7.0	18.6	28.8
State	26.8	35.7	27.4	23.3	6.4	3.7	3.2	4.5	13.1	12.1	11.6	9.5
Local	19.8	8.9	13.9	15.7	3.3	4.0	4.8	9.0	11.1	3.5	6.3	10.1
Vacancy Status												
Completely Vacant	58.3	34.6	48.2	52.6	4.5	5.5	41.5	22.0	20.8	28.4	53.6	47.7
Mostly Vacant	75.1	54.0	79.7	47.9	34.5	51.8	15.2	46.4	68.3	22.1	221.2	30.8
Partially Vacant	14.4	12.3	17.4	22.0	9.0	4.7	2.9	9.5	10.0	4.4	6.6	8.0
Not At All Vacant	7.7	9.6	5.7	9.6	4.1	2.5	2.5	5.0	9.0	5.4	5.5	7.1
Number of Establishments												
One	8.4	10.8	4.9	9.5	4.7	2.5	2.7	5.1	10.3	4.5	4.9	8.2
2 to 5	16.5	15.9	14.9	21.3	4.0	3.0	4.2	11.3	11.3	9.4	11.4	11.8
6 to 10	29.6	9.5	47.1	21.3	6.9	18.2	10.1	9.2	17.3	13.9	12.8	10.6
11 to 20	28.8	30.5	26.4	27.4	7.1	8.8	8.5	5.0	24.9	10.7	10.5	6.3
More than 20	19.4	25.3	26.1	45.0	28.1	13.9	5.1	22.7	8.3	7.7	8.9	16.5
Currently Unoccupied	58.3	34.6	48.2	52.6	4.5	5.5	41.5	22.0	20.8	28.4	53.6	47.7

RSEs for Table C6. Expenditures by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	8.1	9.3	5.6	9.3	4.1	2.3	2.3	4.3	7.1	5.0	4.9	7.0
Predominant Exterior Wall Material												
Brick, Stone or Stucco	10.8	13.3	6.9	11.6	5.2	2.1	3.0	5.4	9.2	6.5	3.2	6.6
Concrete (Block or Poured)	15.3	16.4	13.2	16.3	4.3	4.9	4.7	6.6	10.1	9.3	8.1	10.6
Concrete Panels	18.1	15.1	27.7	31.2	5.1	4.7	4.7	8.9	14.7	10.6	14.6	16.0
Siding or Shingles	17.8	13.5	16.2	35.2	8.5	5.8	5.8	16.6	16.8	9.9	13.1	37.3
Metal Panels	31.6	19.5	13.5	23.2	10.5	5.1	5.8	13.4	19.0	13.7	14.5	7.5
Window Glass	33.3	57.4	29.9	40.3	6.2	5.3	4.8	7.9	15.3	38.0	12.2	13.3
Other	38.4	37.3	40.1	43.7	7.7	24.6	6.7	20.3	17.4	17.1	14.1	21.4
No One Major Type	51.1	44.7	66.9	65.8	12.3	7.3	2.3	15.2	28.7	28.0	37.8	40.1
Predominant Roof Material												
Built-Up	11.5	10.0	10.8	12.5	4.7	3.2	4.2	3.6	9.2	7.6	5.7	9.1
Shingles (Not Wood)	16.6	10.3	9.9	17.2	8.0	5.9	2.3	8.9	9.4	7.9	8.4	19.7
Metal Surfacing	21.3	15.5	12.4	18.5	4.9	5.6	3.6	11.0	15.2	5.6	6.0	6.4
Synthetic or Rubber	14.2	9.8	12.2	19.9	3.8	3.1	2.4	6.5	7.0	7.5	5.8	16.6
Slate or Tile	23.5	21.5	16.3	24.9	8.6	10.5	5.7	8.6	24.2	13.8	6.9	19.6
Wooden Materials	48.2	37.2	27.6	40.4	15.6	12.0	6.2	10.2	21.1	20.2	18.0	18.0
Concrete	70.5	68.1	44.3	29.2	99.7	2.9	5.3	11.8	175.5	7.8	9.2	15.9
Other	68.4	42.4	85.0	47.4	26.1	13.4	19.3	33.3	8.1	28.9	60.8	12.2
No One Major Type	45.6	45.6	60.9	20.9	13.0	15.3	9.0	20.7	33.7	17.4	15.9	70.0
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation Since 1980	12.1	10.7	8.9	12.4	4.4	3.6	4.0	5.3	10.2	5.7	7.8	6.7
Addition or Annex	16.6	13.6	15.6	12.0	7.0	5.9	4.4	3.4	21.6	6.2	13.7	10.3
Reduction In Floorspace	33.1	38.8	36.3	68.2	6.8	5.7	9.6	6.4	10.3	33.5	12.2	8.2
Cosmetic Improvements	12.4	10.5	10.0	14.3	5.2	3.0	3.1	4.9	10.1	5.9	6.8	7.1
Wall or Roof Replacement	17.1	13.8	14.3	19.3	7.1	1.9	4.4	9.7	14.2	8.2	6.5	11.8
Interior Wall Re-Configuration	14.3	12.3	18.3	17.7	4.7	3.2	4.5	7.2	11.6	6.4	8.5	8.5
HVAC Equipment Upgrade	15.0	10.3	12.9	16.8	4.3	4.5	4.1	6.5	8.3	7.2	9.1	9.1
Lighting Upgrade	14.4	11.5	15.9	16.1	5.4	3.2	4.7	6.0	12.8	6.4	8.4	8.9
Window Replacement	15.0	14.2	17.1	19.6	7.1	5.0	4.3	9.4	13.2	10.1	9.8	12.7
Plumbing System Upgrade	16.0	13.5	20.1	20.5	6.8	2.6	4.5	9.7	12.9	8.7	9.9	10.7
Insulation Upgrade	22.0	15.3	21.9	25.4	2.9	3.7	5.4	10.0	15.5	11.0	11.0	12.3
Other Renovation	35.8	38.7	48.6	53.9	13.5	5.7	21.3	26.2	32.7	14.9	73.0	31.6
No Renovations Since 1980	11.9	16.7	14.4	12.8	7.1	2.8	3.6	6.7	9.9	8.1	9.0	9.4
Building Newer than 1980	14.1	10.5	9.0	16.5	4.7	2.7	2.4	6.2	8.5	6.0	6.4	10.8
Energy Sources (more than one may apply)												
Electricity	7.6	10.6	6.8	10.6	5.2	3.0	2.2	4.3	8.2	5.3	4.1	7.8
Natural Gas	9.2	6.6	11.1	12.2	4.7	2.2	2.0	3.3	8.2	5.8	4.1	6.4
Fuel Oil	19.0	17.2	19.5	21.5	5.8	4.7	3.6	5.0	10.6	9.2	5.9	14.5
District Heat	21.2	37.6	23.4	22.4	6.9	4.6	3.0	11.2	9.6	9.3	8.1	15.2
District Chilled Water	27.0	29.0	23.6	24.1	5.4	2.2	2.9	9.7	14.2	5.3	8.0	13.0
Propane	27.0	44.2	16.9	32.5	9.6	5.0	9.9	20.6	17.3	11.5	13.4	24.7
Other	32.1	29.8	35.6	37.1	15.2	11.8	9.0	5.2	14.0	19.8	21.6	13.4

RSEs for Table C6. Expenditures by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	8.1	9.3	5.6	9.3	4.1	2.3	2.3	4.3	7.1	5.0	4.9	7.0
Space-Heating Energy Sources (more than one may apply)												
Electricity	14.8	9.2	6.0	13.5	3.6	4.4	3.1	5.6	9.3	4.9	6.1	8.9
Natural Gas	12.2	6.8	10.5	11.9	3.3	2.3	2.0	4.8	5.1	5.4	4.2	5.8
Fuel Oil	19.5	15.3	21.8	24.1	5.8	5.2	4.0	9.3	14.5	12.3	11.6	17.9
District Heat	21.4	37.7	24.2	22.6	7.1	4.6	3.2	10.4	9.9	9.4	7.9	16.6
Propane	29.5	39.4	32.4	54.0	6.8	8.8	23.8	28.9	31.6	14.9	24.6	48.7
Other	36.1	46.4	58.7	60.5	16.8	26.2	8.1	8.9	17.7	19.5	36.1	23.9
Primary Space-Heating Energy Source												
Electricity	15.8	13.3	8.7	13.5	4.4	3.1	2.8	7.4	6.2	8.7	6.3	8.3
Natural Gas	12.4	6.8	11.0	13.1	4.0	2.4	2.2	5.2	5.3	6.1	4.7	6.7
Fuel Oil	22.0	34.3	32.5	39.2	8.5	9.5	7.9	9.3	13.4	21.4	8.2	27.9
District Heat	21.4	38.9	25.1	22.7	7.2	4.4	3.2	10.7	10.1	9.1	8.1	11.7
Propane	42.4	42.8	38.9	71.1	6.2	4.5	8.3	23.1	15.9	17.5	14.1	68.6
Other	60.5	60.7	61.7	29.0	8.4	37.1	2.7	28.2	24.3	33.3	20.5	63.6
Cooling Energy Sources (more than one may apply)												
Electricity	8.6	7.3	5.8	10.3	4.4	2.7	2.5	5.0	7.0	3.5	4.6	6.9
Natural Gas	32.3	34.9	48.3	33.4	10.2	10.1	5.0	13.3	13.7	15.7	26.8	32.3
District Chilled Water	27.0	29.0	23.6	24.1	5.4	2.2	2.9	9.7	14.2	5.3	8.0	13.0
Water-Heating Energy Sources (more than one may apply)												
Electricity	12.4	9.2	7.8	7.7	6.3	4.7	3.2	5.7	10.5	6.7	6.4	8.1
Natural Gas	11.9	8.8	11.2	10.6	4.4	2.5	2.2	4.0	10.0	5.4	3.8	5.9
Fuel Oil	16.4	32.4	39.2	72.6	7.5	20.3	11.6	15.7	18.7	22.5	12.0	15.7
District Heat	25.4	25.1	36.3	32.4	9.0	5.9	3.9	15.5	5.9	12.0	14.0	14.1
Propane	53.6	43.4	38.5	79.6	14.6	12.0	6.7	31.2	24.6	15.2	12.0	79.6
Cooking Energy Sources (more than one may apply)												
Electricity	11.3	11.7	10.4	25.2	4.7	3.8	2.7	5.9	6.5	5.9	4.5	14.4
Natural Gas	12.2	10.7	11.3	16.9	7.2	2.6	2.0	4.6	21.4	3.9	3.2	9.9
Propane	39.1	31.3	27.7	51.1	5.3	13.9	7.4	19.5	10.7	21.5	11.4	41.7
Energy End Uses (more than one may apply)												
Buildings with Space Heating	8.1	9.4	5.8	9.7	4.1	2.3	2.2	4.9	7.1	4.7	4.5	6.8
Buildings with Cooling	8.5	7.3	5.7	10.1	4.5	2.6	2.3	4.5	6.6	3.3	4.4	6.6
Buildings with Water Heating	8.4	6.9	5.8	10.2	4.1	2.6	2.3	4.7	7.2	4.7	4.3	6.8
Buildings with Cooking	10.4	10.7	8.8	18.4	6.4	3.0	2.4	7.7	15.8	4.2	3.5	11.9
Buildings with Manufacturing	24.3	24.3	21.0	32.7	7.3	16.9	7.5	19.1	25.6	16.8	21.1	13.4
Buildings with Electricity Generation	14.7	14.9	13.0	18.6	6.5	4.5	3.3	4.8	6.5	5.9	5.3	10.6
Percent of Floorspace Heated												
Not Heated	26.9	44.9	26.7	32.5	13.1	10.6	2.2	19.4	41.6	41.9	23.5	22.3
1 to 50	24.4	30.7	16.8	16.0	3.3	4.3	8.2	9.1	16.2	12.1	15.1	9.0
51 to 99	15.8	12.8	13.7	14.1	9.1	7.4	3.1	7.7	9.1	8.7	7.5	5.4
100	8.8	10.4	7.9	12.3	3.8	2.4	2.1	6.3	9.3	5.1	3.8	8.9

RSEs for Table C6. Expenditures by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	8.1	9.3	5.6	9.3	4.1	2.3	2.3	4.3	7.1	5.0	4.9	7.0
Percent of Floorspace Cooled												
Not Cooled	18.6	48.3	22.6	19.4	5.0	1.5	11.7	9.6	17.0	27.1	20.1	11.3
1 to 50	12.2	11.0	12.1	21.1	5.7	4.9	4.0	12.4	5.3	4.7	9.2	10.9
51 to 99	10.7	12.1	9.3	13.3	7.5	4.6	3.5	4.8	11.8	6.1	4.9	7.0
100	12.9	8.9	8.6	14.4	3.7	2.5	2.6	6.4	5.9	3.2	4.8	9.8
Percent Lit When Open												
Zero	66.9	86.9	58.6	61.8	131.2	232.9	29.3	19.9	47.7	80.4	64.9	23.5
1 to 50	15.7	8.8	11.6	21.7	7.2	3.6	4.2	8.3	11.5	7.5	6.9	15.9
51 to 99	12.5	10.7	9.7	12.5	4.0	2.8	2.4	6.1	7.4	5.6	5.7	6.0
100	9.9	11.9	7.7	11.8	5.0	2.7	2.7	4.1	8.7	3.3	5.5	7.3
Building Never Open/ Electricity Not Used	48.6	29.7	44.0	45.3	5.1	4.5	39.9	39.8	20.0	22.3	46.2	45.0
Percent Lit When Closed												
Zero	12.2	16.0	10.3	11.9	3.4	2.9	3.2	5.5	9.6	8.6	9.8	4.6
1 to 50	7.7	9.0	6.3	10.7	4.0	2.9	2.6	4.9	7.2	6.8	3.6	5.4
51 to 100	26.8	48.8	17.9	21.8	5.1	2.8	3.5	7.7	13.8	14.0	14.0	16.6
Building Never Closed/ Electricity Not Used	14.2	9.3	14.0	22.8	7.6	4.5	2.5	7.9	10.8	6.1	8.0	18.3
Heating Equipment (more than one may apply)												
Heat Pumps	22.8	24.2	8.1	25.9	5.1	4.0	6.7	10.8	15.7	9.6	11.2	17.7
Packaged Heat Pumps	28.8	24.7	13.7	34.1	6.4	5.3	9.7	14.3	13.1	11.2	11.9	25.0
Split-System Heat Pumps	57.8	28.9	20.3	28.0	5.9	11.9	5.7	12.8	47.9	12.8	18.0	16.7
Individual Room Heat Pumps	28.9	42.2	18.4	14.4	6.5	6.3	5.3	7.6	16.9	7.3	6.5	14.3
Furnaces	15.9	6.7	11.8	15.2	4.2	3.2	3.0	5.3	10.4	5.5	7.2	7.3
Individual Space Heaters	18.2	10.5	12.3	12.7	4.6	5.1	2.7	7.6	13.6	4.0	9.8	9.8
District Heat	21.7	37.9	24.2	22.6	7.2	4.6	3.2	10.4	10.0	9.5	7.9	16.6
Boilers	14.2	10.1	16.1	15.2	5.6	3.0	2.8	5.1	13.2	6.7	6.2	9.1
Packaged Heating Units	15.8	9.9	7.7	18.0	2.6	3.1	2.6	8.2	9.2	6.4	5.9	12.7
Other	22.6	16.6	19.8	29.4	8.7	6.6	2.6	9.2	15.7	10.6	14.9	10.4
Cooling Equipment (more than one may apply)												
Residential-Type Central Air Conditioners	16.9	7.5	17.9	15.5	6.0	5.3	4.2	7.9	17.7	6.1	11.9	11.7
Heat Pumps	22.1	24.1	7.6	24.0	4.9	4.1	5.7	9.5	15.2	9.3	10.3	16.0
Packaged Heat Pumps	27.4	24.1	14.6	34.8	5.7	5.4	9.3	13.7	12.6	11.0	11.7	26.0
Split-System Heat Pumps	57.8	26.5	20.7	27.2	5.9	13.9	5.4	12.3	47.9	13.4	16.5	15.9
Individual Room Heat Pumps	28.6	42.2	22.6	21.6	6.5	6.3	4.2	8.2	16.8	7.3	5.8	12.4
Individual Air Conditioners	15.9	11.6	9.8	22.2	3.4	4.9	5.5	10.6	9.5	6.1	8.6	11.5
District Chilled Water	27.0	29.0	23.6	24.1	5.4	2.2	2.9	9.7	14.2	5.3	8.0	13.0
Central Chillers	15.2	14.6	17.8	24.0	9.6	5.0	2.6	8.3	6.9	5.6	6.9	12.2
Packaged Air Conditioning Units	11.3	7.1	7.7	12.0	5.7	1.9	2.4	6.3	10.1	5.0	4.4	8.0
Swamp Coolers	78.6	74.6	31.7	13.6	11.4	16.9	14.3	6.4	20.7	209.5	32.1	12.5
Other	37.8	29.1	49.7	44.1	7.3	7.4	20.6	7.4	18.9	14.9	18.3	21.8
Main Equipment Replaced Since 1990 (more than one may apply)												
Heating	15.6	9.7	9.5	20.6	4.5	4.5	3.5	5.6	9.9	7.2	7.3	14.8
Cooling	13.3	10.7	9.2	15.7	4.6	4.0	2.8	4.3	6.5	6.3	6.8	11.1

RSEs for Table C6. Expenditures by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	8.1	9.3	5.6	9.3	4.1	2.3	2.3	4.3	7.1	5.0	4.9	7.0
Water Heating Equipment												
Centralized System	7.2	8.2	7.5	10.1	4.7	2.4	2.7	6.5	7.0	5.8	4.1	6.4
Distributed System	25.0	21.8	11.2	16.7	8.3	3.4	3.2	8.3	19.4	10.8	6.0	10.1
Combination of Centralized and Distributed System	18.2	12.0	15.1	21.9	4.1	6.5	3.2	6.4	9.1	6.8	9.4	13.4
Lighting Equipment Types (more than one may apply)												
Incandescent	10.5	8.0	8.2	13.9	5.8	2.9	2.6	5.3	10.3	4.8	5.4	9.8
Standard Fluorescent	8.3	9.7	5.6	9.3	4.2	2.3	2.3	4.5	7.1	4.8	4.7	6.5
Compact Fluorescent	13.2	10.5	9.8	12.5	5.1	2.8	2.5	4.5	8.5	3.6	5.3	8.0
High Intensity Discharge	13.3	14.0	11.6	13.3	3.7	2.1	3.4	6.6	8.9	6.0	8.4	8.5
Halogen	12.1	9.3	12.9	17.3	4.8	3.7	2.9	6.1	7.8	3.1	8.0	7.4
Other	76.0	72.8	44.4	77.5	4.2	4.5	26.2	105.9	23.2	24.0	35.5	221.5
Refrigeration Equipment (more than one may apply)[a]												
Any Refrigeration	8.0	7.2	6.1	10.5	4.7	2.7	2.2	4.5	7.3	4.7	4.2	7.1
Commercial Refrigeration	9.1	11.1	8.1	14.8	6.0	2.8	2.5	5.8	11.8	3.7	4.4	10.2
Walk-In Units	10.3	10.6	9.2	15.4	6.2	3.1	2.7	5.7	16.9	4.7	4.7	11.8
Cases or Cabinets	10.8	12.1	8.6	16.9	4.5	3.0	2.5	7.1	8.3	4.2	5.0	11.6
Residential-Type Units	9.1	10.2	7.7	9.3	5.3	2.8	2.6	5.1	9.2	5.8	5.5	6.2
Vending Machines	10.9	9.3	7.0	13.7	4.4	3.3	2.2	4.7	7.7	4.1	4.5	7.6
No Refrigeration	18.8	33.3	11.9	10.8	3.9	3.7	4.1	9.9	15.9	17.5	9.7	10.0
Office Equipment (more than one may apply)												
Computers	8.6	9.0	5.9	9.9	4.7	2.4	2.0	4.8	7.6	4.7	4.3	6.7
With Flat Screen Monitors	14.0	10.5	10.8	13.5	5.6	3.4	2.1	5.4	7.1	5.3	3.7	8.3
Dedicated Servers	10.9	10.3	8.8	11.5	4.7	2.9	2.2	5.5	7.2	4.4	5.3	7.9
Laser Printers	8.5	5.5	6.8	13.2	4.3	3.3	2.4	7.1	8.7	4.9	4.8	9.9
Inkjet Printers	11.5	10.3	9.5	12.6	4.4	2.7	2.4	5.3	5.8	4.3	5.5	5.1
FAX Machines	8.9	8.1	6.4	10.6	4.7	2.7	2.3	4.6	7.7	4.6	4.8	6.3
Photocopiers	9.7	8.8	7.4	12.2	5.2	2.8	2.5	5.1	8.0	4.0	4.9	7.5
Number of Computers												
None	19.1	19.3	14.0	17.1	11.8	3.6	10.3	8.8	19.2	8.6	13.3	14.6
1 to 4	12.9	17.9	8.6	12.7	8.3	3.4	2.9	6.8	16.6	11.2	8.3	8.6
5 to 9	16.8	11.7	8.1	17.9	3.5	6.5	3.7	12.5	13.3	5.8	7.6	15.8
10 to 19	21.6	11.1	12.6	14.9	4.8	4.9	5.0	6.6	12.8	6.6	12.3	8.3
20 to 49	18.8	13.8	13.3	23.4	3.2	4.4	4.7	12.2	8.4	6.5	7.6	17.1
50 to 99	20.1	17.6	24.4	9.4	21.2	3.1	3.2	5.8	28.4	8.3	15.5	11.8
100 to 249	24.9	15.0	10.9	19.5	5.3	4.0	3.8	8.5	14.2	8.4	5.1	7.6
250 or More	14.6	19.3	20.2	25.6	7.1	5.5	3.1	6.9	6.1	6.2	6.0	13.8
Number of Dedicated Servers												
None	7.4	10.1	7.0	7.6	3.7	2.7	3.5	4.3	8.1	6.1	5.3	6.2
1 to 4	11.0	7.2	10.6	9.2	4.3	3.3	3.0	5.9	9.1	3.6	7.5	6.1
5 to 9	24.3	13.2	29.5	35.6	5.8	6.6	3.9	19.1	22.1	7.0	12.3	31.4
10 to 19	31.3	21.2	27.3	14.9	8.1	9.7	3.5	10.7	16.8	10.8	10.7	11.5
20 to 49	29.0	32.5	28.1	18.4	4.7	7.8	6.7	9.0	7.7	14.9	7.7	15.1
50 or More	26.2	55.6	35.5	51.0	9.6	5.2	7.9	18.8	9.7	4.5	6.2	28.3

RSEs for Table C6. Expenditures by Census Region for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	8.1	9.3	5.6	9.3	4.1	2.3	2.3	4.3	7.1	5.0	4.9	7.0
Number of Photocopiers												
None	11.4	13.9	7.1	11.1	4.9	3.3	2.7	4.6	12.1	8.3	6.5	10.1
One	10.4	8.1	9.3	15.9	8.2	4.6	2.8	7.6	12.9	3.3	5.7	8.6
2 to 4	12.1	9.2	12.7	14.0	2.9	3.7	3.2	7.0	7.7	5.5	8.9	8.3
5 to 9	22.9	15.5	20.9	25.6	10.3	3.5	3.2	14.2	23.3	7.5	8.2	24.2
10 or More	15.7	17.6	19.6	23.5	7.6	5.3	3.2	7.1	6.3	6.3	5.6	11.1
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	10.4	10.7	8.8	18.4	6.4	3.0	2.4	7.7	15.8	4.2	3.5	11.9
Activities with Large Amounts of Hot Water	13.1	11.4	11.2	16.2	5.8	4.0	2.4	7.9	20.9	3.7	6.3	11.6
Separate Computer Area	11.7	12.9	12.1	13.8	5.9	3.3	2.4	4.0	8.4	5.3	5.9	7.9
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	15.2	11.6	12.2	18.0	6.0	3.2	2.1	4.5	6.6	5.6	5.3	10.7
Economizer Cycle	15.8	8.4	13.5	13.3	3.9	2.4	2.0	4.8	5.4	4.4	6.4	8.3
HVAC Maintenance	8.8	10.7	7.3	9.5	4.6	2.0	2.2	4.3	7.8	3.9	4.4	7.2
Energy Management and Control System (EMCS)	13.3	13.1	11.5	19.8	4.1	3.8	3.0	6.8	7.3	5.2	4.3	10.5
Window and Interior Lighting Features (more than one may apply)												
Multipaned Windows	9.3	9.0	7.6	12.8	4.6	2.5	2.6	4.5	9.1	5.2	4.8	9.5
Tinted Window Glass	13.4	15.3	8.7	12.0	3.4	2.3	2.3	4.1	6.4	7.2	6.4	7.7
Reflective Window Glass	19.4	13.6	14.2	14.7	7.7	5.7	4.1	4.8	12.6	5.8	7.5	10.6
External Overhangs or Awnings	11.5	10.6	11.4	14.7	4.4	3.0	3.8	6.5	14.1	5.9	6.4	10.8
Skylights or Atriums	13.9	15.6	12.1	22.9	8.7	2.6	3.4	6.0	13.2	8.9	5.7	13.4
Daylighting Sensors	25.3	26.5	20.4	34.0	7.2	3.5	4.5	14.3	12.0	9.8	11.6	24.0
Specular Reflectors	12.9	15.0	10.1	12.9	5.9	2.3	2.9	4.6	9.3	5.8	5.5	7.0
Electronic Ballasts	11.0	10.7	6.7	10.9	4.3	2.5	2.1	5.2	7.3	3.9	4.8	6.8
Energy Management and Control System (EMCS) For Lighting	19.7	18.5	23.8	29.1	6.2	5.3	5.4	7.6	15.5	8.9	7.2	15.9
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]												
Heating	9.0	8.4	6.3	10.7	5.2	2.9	1.9	5.1	9.0	5.8	3.5	8.9
Cooling	8.7	9.6	6.6	11.0	5.4	3.0	1.9	4.2	8.4	4.8	3.6	7.9
Lighting	7.2	11.5	5.2	7.5	3.3	2.3	2.4	4.2	6.7	5.1	4.7	4.2
Office Equipment	10.9	19.6	9.5	12.1	5.1	3.4	2.9	6.4	8.8	12.6	7.1	4.8

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

RSEs for Table C7. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 1

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	19.4	10.7	11.5	23.9	10.5	9.9	13.1	4.5	5.6
Building Floorspace (Square Feet)									
1,001 to 5,000	32.6	13.4	13.9	32.5	15.2	13.2	1.0	7.2	8.6
5,001 to 10,000	28.7	11.7	20.1	30.8	11.7	23.8	20.5	10.2	17.2
10,001 to 25,000	32.1	13.3	13.3	37.5	13.4	14.0	19.3	12.3	11.3
25,001 to 50,000	27.1	14.6	13.7	22.3	13.3	10.3	28.8	10.1	13.1
50,001 to 100,000	34.0	19.1	15.3	16.9	18.0	14.9	31.3	15.4	12.9
100,001 to 200,000	54.3	21.2	25.7	26.3	28.8	18.9	41.9	17.7	9.3
200,001 to 500,000	37.0	18.2	27.1	53.0	22.7	28.9	34.3	11.5	5.6
Over 500,000	43.8	17.2	22.8	71.8	13.3	23.6	36.5	13.5	15.7
Principal Building Activity									
Education	22.5	19.0	13.5	19.5	15.1	10.5	10.8	11.4	5.5
Food Sales	49.5	23.4	23.8	48.0	13.9	27.4	1.9	20.4	10.6
Food Service	64.9	13.0	18.5	57.0	16.1	21.3	21.1	14.3	8.7
Health Care	44.5	24.4	17.9	51.5	10.7	16.4	7.9	17.8	8.7
Inpatient	56.6	28.4	18.6	73.9	20.9	13.7	12.6	12.0	10.5
Outpatient	67.1	27.9	27.6	54.9	30.7	24.8	26.7	15.3	7.2
Lodging	47.0	35.7	21.2	42.0	44.7	17.9	11.8	23.3	12.7
Retail (Other Than Mall)	11.8	25.6	36.0	26.7	15.2	26.1	28.5	15.6	18.6
Office	14.8	13.7	17.3	20.1	13.6	14.6	10.0	6.0	4.3
Public Assembly	48.9	21.4	32.7	29.9	35.0	23.6	44.8	34.1	12.1
Public Order and Safety	36.7	62.1	37.0	39.2	48.7	47.7	10.5	28.5	21.7
Religious Worship	68.6	17.1	14.9	72.1	17.9	11.5	22.5	6.2	6.6
Service	74.6	25.0	28.2	52.3	29.5	26.2	34.6	17.4	12.3
Warehouse and Storage	41.0	25.5	51.9	72.2	22.8	30.8	19.0	21.5	20.6
Other	55.9	44.5	29.7	50.6	39.3	23.6	8.1	20.1	19.9
Vacant	70.7	48.0	33.0	88.5	40.5	34.3	56.4	25.9	25.1
Year Constructed									
Before 1920	19.8	24.6	18.4	36.0	21.1	25.4	29.0	21.3	12.6
1920 to 1945	26.2	26.5	42.6	40.5	25.2	29.3	23.5	12.4	15.7
1946 to 1959	36.5	22.0	17.7	26.9	21.2	16.5	45.5	10.9	9.9
1960 to 1969	52.9	19.7	14.2	53.6	17.8	17.8	20.1	12.9	12.8
1970 to 1979	31.4	18.0	19.9	19.3	21.5	21.6	22.4	17.6	13.3
1980 to 1989	32.1	21.8	18.1	18.7	21.1	14.0	17.2	9.8	10.9
1990 to 1999	58.2	16.3	26.5	43.7	19.8	23.9	49.3	12.8	8.8
2000 to 2003	36.9	45.0	23.0	32.9	21.8	19.0	10.3	26.3	10.2
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	37.5	50.2	12.4	58.7	45.0	5.5	13.6	9.4	15.0
5,500-7,000 HDD	22.7	20.6	14.9	22.2	21.5	13.0	11.9	3.1	5.7
4,000-5,499 HDD	0.0	23.8	0.0	0.0	20.5	0.0	0.0	7.6	0.0
Fewer than 4,000 HDD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2,000 CDD or More and --									
Fewer than 4,000 HDD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Number of Floors									
One	32.4	13.4	23.7	23.5	18.3	17.7	10.3	11.0	8.4
Two	25.9	15.7	13.6	31.4	14.3	12.2	11.1	7.3	11.2
Three	12.9	17.1	15.6	33.5	16.1	13.9	31.8	9.4	9.3
Four to Nine	28.0	21.5	14.1	26.2	24.0	13.7	16.9	13.6	9.3
Ten or More	34.0	21.8	20.4	35.5	18.8	20.1	15.0	8.1	11.6

RSEs for Table C7. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 1

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	19.4	10.7	11.5	23.9	10.5	9.9	13.1	4.5	5.6
Elevators and Escalators (more than one may apply)									
Any Elevators	27.3	14.2	10.5	23.4	11.3	8.1	20.3	6.3	5.6
Number of Elevators									
One	39.7	18.8	13.5	24.3	12.7	13.1	30.9	16.6	5.7
Two to Five	41.6	21.0	13.9	37.2	17.2	14.9	30.7	8.6	9.5
Six or More	20.2	19.7	25.0	34.5	19.4	26.4	19.5	9.8	10.0
Any Escalators	94.1	27.3	40.3	90.1	22.8	43.8	5.4	19.1	19.5
Number of Workers (main shift)									
Fewer than 5	25.1	20.8	35.8	27.4	20.0	23.8	4.3	5.5	18.8
5 to 9	36.0	15.8	15.2	40.8	14.6	20.4	11.3	11.6	18.3
10 to 19	23.4	27.3	15.6	25.3	26.8	9.0	23.9	11.9	10.4
20 to 49	32.1	24.0	14.2	26.3	25.3	12.4	18.8	14.6	7.2
50 to 99	48.4	24.0	11.0	57.4	20.0	10.6	34.4	12.4	3.8
100 to 249	42.5	18.5	20.2	26.3	17.9	17.4	27.2	7.9	9.8
250 or More	27.0	16.3	15.4	22.3	15.2	16.0	18.3	6.5	6.4
Weekly Operating Hours									
Fewer than 40	33.6	27.6	18.8	40.9	26.3	25.2	37.1	13.1	12.2
40 to 48	38.3	24.5	19.8	25.5	18.2	13.4	15.0	15.9	10.2
49 to 60	28.8	13.0	39.5	42.9	12.9	23.8	18.9	5.3	14.9
61 to 84	17.3	10.8	12.6	14.4	13.2	13.0	10.8	10.2	9.4
85 to 167	25.8	25.4	11.5	42.2	24.0	9.2	23.6	9.5	8.9
Open Continuously	37.3	15.0	13.3	32.0	12.7	13.5	18.2	8.6	8.4
Ownership and Occupancy									
Nongovernment Owned	27.9	11.1	6.8	29.8	10.9	8.2	20.8	5.2	7.5
Owner Occupied	31.0	12.7	8.5	34.4	12.8	8.3	24.4	9.2	7.0
Nonowner Occupied	21.7	13.5	9.8	19.1	14.7	13.9	13.0	6.0	7.8
Unoccupied	99.1	66.5	36.9	99.1	49.7	36.5	0.0	16.3	32.5
Government Owned	19.4	20.6	25.9	8.6	14.7	15.7	16.8	9.8	10.2
Federal	28.5	46.9	64.8	34.4	54.0	59.5	14.7	57.8	6.4
State	34.5	33.6	41.0	30.2	31.1	37.2	43.1	11.5	13.9
Local	24.8	23.7	11.9	18.9	14.7	10.5	14.3	12.8	5.5
Vacancy Status									
Completely Vacant	99.1	62.0	34.2	99.1	47.2	34.6	0.0	21.7	27.1
Mostly Vacant	71.8	81.4	91.7	86.3	86.0	95.4	59.8	40.6	4.3
Partially Vacant	27.6	16.8	14.7	28.3	16.1	13.0	24.5	6.9	5.7
Not At All Vacant	20.3	10.5	12.2	18.9	12.1	9.5	8.7	6.9	6.2
Number of Establishments									
One	19.2	13.1	13.6	19.5	14.9	13.0	11.8	8.2	5.4
2 to 5	33.9	16.7	19.7	28.5	16.4	13.1	15.9	11.5	12.1
6 to 10	52.6	27.9	41.5	44.6	26.7	17.7	27.8	11.9	35.6
11 to 20	52.2	26.3	34.5	67.6	36.9	31.3	40.0	12.4	16.1
More than 20	49.6	19.2	30.0	49.2	18.5	22.2	11.1	18.3	14.7
Currently Unoccupied	99.1	62.0	34.2	99.1	47.2	34.6	0.0	21.7	27.1

RSEs for Table C7. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 1

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	19.4	10.7	11.5	23.9	10.5	9.9	13.1	4.5	5.6
Predominant Exterior Wall Material									
Brick, Stone or Stucco	22.2	14.4	15.7	23.7	13.2	10.5	14.4	6.2	6.7
Concrete (Block or Poured)	27.7	15.5	17.6	20.1	17.1	21.1	21.8	10.7	12.0
Concrete Panels	66.4	20.3	17.1	59.8	31.9	15.0	26.9	16.6	13.5
Siding or Shingles	35.3	17.4	29.9	33.8	17.9	29.8	16.7	24.8	19.8
Metal Panels	69.3	29.8	32.5	42.0	23.4	25.3	44.5	16.0	17.1
Window Glass	97.9	30.7	60.3	97.8	27.6	54.2	0.0	18.5	38.0
Other	76.0	48.9	43.0	77.6	35.9	34.5	10.0	23.9	28.4
No One Major Type	99.8	63.4	52.3	99.8	53.5	27.0	0.0	47.4	28.4
Predominant Roof Material									
Built-Up	19.3	13.0	11.7	37.3	11.3	10.8	20.5	7.4	8.3
Shingles (Not Wood)	22.5	23.8	14.3	18.9	13.7	10.3	4.7	15.6	9.8
Metal Surfacing	53.6	24.6	19.1	59.9	40.6	26.1	8.1	18.4	13.1
Synthetic or Rubber	32.4	15.6	9.4	27.5	11.7	12.7	17.4	4.8	8.6
Slate or Tile	56.7	16.8	23.2	38.2	16.6	22.3	29.7	23.5	12.7
Wooden Materials	64.3	57.7	42.3	62.5	57.9	35.2	14.2	20.5	42.1
Concrete	48.1	86.5	80.5	36.9	90.9	77.0	8.4	46.0	2.6
Other	100.1	70.4	43.2	100.1	70.8	36.3	0.0	24.2	26.0
No One Major Type	54.5	54.6	49.7	65.9	61.4	46.0	41.2	20.2	20.6
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	26.1	14.0	11.3	34.7	13.4	10.9	19.3	5.7	6.4
Addition or Annex	68.2	18.8	13.4	86.5	24.6	14.6	14.1	18.4	8.6
Reduction In Floorspace	90.9	31.3	39.3	83.6	39.5	38.6	47.9	15.7	17.4
Cosmetic Improvements	30.1	13.9	12.2	25.6	14.7	12.4	22.1	5.8	6.3
Wall or Roof Replacement	40.1	13.7	15.4	30.5	16.3	13.8	28.1	8.1	9.8
Interior Wall Re-Configuration	32.3	13.9	14.4	29.7	13.9	15.2	27.7	6.9	7.1
HVAC Equipment Upgrade	31.7	14.8	12.8	24.5	14.4	12.8	28.2	3.3	7.5
Lighting Upgrade	31.6	15.9	11.7	26.3	15.8	13.0	24.1	9.3	7.3
Window Replacement	38.4	14.5	19.1	31.0	14.5	15.0	30.2	7.3	12.2
Plumbing System Upgrade	35.1	14.7	15.2	33.9	15.6	17.4	22.6	7.7	6.4
Insulation Upgrade	58.7	20.9	20.1	43.7	26.6	18.1	47.3	12.0	13.1
Other Renovation	71.0	41.1	41.5	62.7	48.7	39.8	40.7	38.2	12.7
No Renovations Since 1980	14.3	17.7	23.1	17.9	15.3	17.8	10.5	7.7	9.4
Building Newer than 1980	40.3	16.9	13.2	23.6	15.9	12.3	24.6	12.5	7.0
Energy Sources (more than one may apply)									
Electricity	21.8	10.6	13.5	20.8	10.6	13.7	13.4	5.3	6.3
Natural Gas	31.4	10.8	6.1	29.1	10.5	6.0	19.0	7.7	6.6
Fuel Oil	29.0	23.5	23.3	30.9	19.2	13.8	7.5	8.9	12.5
District Heat	38.6	25.3	40.6	34.8	23.4	38.7	20.1	10.6	9.8
District Chilled Water	54.8	28.4	30.5	54.0	24.5	30.3	37.6	12.6	4.9
Propane	42.1	47.1	62.2	51.1	48.2	59.6	10.2	12.1	7.2
Other	51.3	49.7	38.9	58.6	40.5	28.5	30.6	20.6	21.1

RSEs for Table C7. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 1

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	19.4	10.7	11.5	23.9	10.5	9.9	13.1	4.5	5.6
Space-Heating Energy Sources (more than one may apply)									
Electricity	36.4	16.2	10.9	19.2	15.7	9.2	31.3	6.6	5.7
Natural Gas	30.0	12.7	7.1	23.0	12.3	6.8	21.4	5.0	6.0
Fuel Oil	28.7	29.1	24.3	32.2	34.3	25.5	6.4	15.0	19.3
District Heat	37.9	25.2	40.6	32.5	24.2	38.7	22.0	10.5	9.8
Propane	20.6	81.4	59.5	54.1	78.2	64.5	39.7	8.4	56.9
Other	56.0	51.4	28.7	67.3	45.3	43.6	7.9	15.2	17.6
Primary Space-Heating Energy Source									
Electricity	40.9	14.9	17.5	40.3	16.1	12.2	18.9	6.0	13.1
Natural Gas	34.7	12.7	7.3	25.4	11.7	7.0	24.1	5.5	6.8
Fuel Oil	28.9	38.0	60.6	32.1	40.8	28.6	6.5	7.4	70.8
District Heat	38.9	24.4	42.3	33.6	23.7	40.9	22.7	10.7	10.2
Propane	53.5	76.2	70.9	71.4	74.2	64.8	11.1	10.2	70.5
Other	98.1	73.1	99.6	98.0	50.8	99.6	0.7	17.3	1.1
Cooling Energy Sources (more than one may apply)									
Electricity	20.8	11.2	7.5	19.0	10.6	8.0	10.7	3.9	4.5
Natural Gas	43.8	48.9	45.4	53.4	37.7	41.7	45.7	25.0	18.9
District Chilled Water	54.8	28.4	30.5	54.0	24.5	30.3	37.6	12.6	4.9
Water-Heating Energy Sources (more than one may apply)									
Electricity	26.2	16.1	11.2	30.6	14.4	13.9	22.6	6.8	9.0
Natural Gas	42.5	11.7	9.7	34.0	12.9	7.3	21.4	7.8	5.2
Fuel Oil	28.3	25.8	72.2	23.0	37.3	76.7	11.0	18.4	16.3
District Heat	49.1	27.4	28.3	48.5	25.3	25.2	7.7	9.4	11.0
Propane	52.8	82.2	73.8	54.7	66.2	75.5	19.6	11.1	7.0
Cooking Energy Sources (more than one may apply)									
Electricity	25.8	16.8	12.8	19.0	16.3	12.8	17.4	5.5	6.7
Natural Gas	39.9	16.8	12.8	34.5	24.0	11.4	20.7	16.9	4.1
Propane	50.4	59.5	55.9	45.9	58.2	68.7	5.1	24.7	33.9
Energy End Uses (more than one may apply)									
Buildings with Space Heating	19.5	10.7	11.5	22.8	10.3	9.8	12.5	4.7	5.1
Buildings with Cooling	21.0	10.9	8.0	19.3	10.4	7.9	9.8	4.0	4.2
Buildings with Water Heating	19.6	11.0	7.6	22.1	10.5	7.6	11.6	5.0	5.6
Buildings with Cooking	27.6	15.6	12.8	24.5	20.2	11.3	11.4	12.7	4.5
Buildings with Manufacturing	63.3	28.9	34.0	76.4	31.6	23.1	63.6	21.0	19.2
Buildings with Electricity Generation	29.5	15.7	17.2	30.0	13.8	13.5	11.5	7.1	5.0
Percent of Floorspace Heated									
Not Heated	60.2	30.6	59.6	56.2	37.8	30.0	68.5	51.5	58.0
1 to 50	49.2	28.9	38.8	58.4	27.9	32.1	32.5	11.7	12.8
51 to 99	19.9	24.6	18.1	24.5	15.7	19.5	10.7	17.8	15.9
100	19.1	11.8	12.8	17.5	14.6	10.1	10.7	7.1	5.1

RSEs for Table C7. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 1

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	19.4	10.7	11.5	23.9	10.5	9.9	13.1	4.5	5.6
Percent of Floorspace Cooled									
Not Cooled	11.0	32.3	56.3	41.7	30.4	35.6	23.9	17.8	27.5
1 to 50	18.9	18.6	12.7	23.7	17.6	13.5	17.4	6.2	5.9
51 to 99	34.4	12.0	15.5	24.1	15.4	15.2	17.0	11.6	6.7
100	34.1	14.2	9.8	28.3	11.2	10.0	14.1	6.4	3.1
Percent Lit When Open									
Zero	100.5	90.8	100.2	100.5	71.4	72.1	0.0	82.5	104.4
1 to 50	34.0	21.1	13.9	46.3	18.9	11.3	21.8	4.3	13.6
51 to 99	21.0	15.3	12.0	17.0	11.0	12.2	11.1	8.1	5.9
100	32.3	12.2	15.7	21.8	12.4	13.5	13.3	5.0	3.5
Building Never Open/ Electricity Not Used	71.6	58.9	29.9	47.5	41.7	30.7	43.6	23.2	21.7
Percent Lit When Closed									
Zero	22.1	15.6	23.8	24.4	17.3	16.8	28.1	6.5	10.8
1 to 50	23.5	10.8	11.4	28.5	11.0	9.4	8.0	6.2	7.0
51 to 100	56.1	34.3	59.5	42.6	28.6	55.4	15.5	16.8	15.0
Building Never Closed/ Electricity Not Used	37.3	15.0	13.3	31.3	12.6	14.7	17.7	7.9	9.4
Heating Equipment (more than one may apply)									
Heat Pumps	46.7	24.8	33.8	23.1	22.6	30.1	33.6	20.3	10.5
Packaged Heat Pumps	53.4	29.8	32.6	50.2	26.4	30.1	19.2	12.9	11.5
Split-System Heat Pumps	21.9	64.7	31.5	8.4	25.1	39.2	15.9	54.0	36.0
Individual Room Heat Pumps	65.5	31.1	47.3	29.7	31.0	46.3	51.2	18.9	7.3
Furnaces	38.1	16.5	8.4	41.9	15.9	9.7	25.1	10.1	7.1
Individual Space Heaters	36.4	21.0	11.1	25.0	23.1	14.0	36.7	7.2	5.0
District Heat	37.9	25.7	40.6	32.5	24.8	38.7	22.0	10.5	9.8
Boilers	26.6	18.7	11.1	21.8	19.7	7.8	17.4	10.2	5.7
Packaged Heating Units	40.9	15.9	10.4	28.1	15.2	14.9	24.7	6.7	9.3
Other	40.5	26.5	25.4	45.6	30.3	22.5	21.7	17.0	9.6
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	55.1	16.3	9.6	41.6	20.9	11.5	45.5	13.2	8.0
Heat Pumps	44.2	23.7	32.6	32.4	22.8	29.5	32.7	20.0	10.0
Packaged Heat Pumps	53.9	27.1	31.4	59.4	26.2	29.4	17.7	12.5	11.1
Split-System Heat Pumps	21.9	64.7	31.9	8.4	25.1	33.9	15.9	54.0	28.6
Individual Room Heat Pumps	64.4	31.1	47.3	25.6	31.0	46.3	53.0	18.9	7.3
Individual Air Conditioners	25.0	21.7	12.8	23.0	22.2	13.0	12.6	9.2	2.6
District Chilled Water	54.8	28.4	30.5	54.0	24.5	30.3	37.6	12.6	4.9
Central Chillers	23.5	17.9	15.2	24.3	18.7	13.8	7.8	9.2	6.2
Packaged Air Conditioning Units	31.0	14.2	8.1	19.7	14.3	9.9	16.0	6.4	6.6
Swamp Coolers	103.7	100.1	73.3	103.7	100.1	89.9	0.0	0.0	256.3
Other	74.1	37.2	35.1	89.7	34.9	39.6	214.3	17.5	16.0
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	25.9	17.3	11.1	39.7	16.2	8.9	26.5	4.2	9.1
Cooling	22.1	17.1	11.5	18.7	16.2	9.7	14.1	3.0	5.8

RSEs for Table C7. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 1

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	19.4	10.7	11.5	23.9	10.5	9.9	13.1	4.5	5.6
Water Heating Equipment									
Centralized System	18.4	9.5	9.6	18.9	8.7	7.8	10.4	5.9	7.1
Distributed System	50.1	30.0	29.6	55.8	31.2	25.0	47.6	14.0	14.6
Combination of Centralized and Distributed System	39.3	22.3	17.4	26.5	21.3	11.6	21.4	9.2	10.0
Lighting Equipment Types (more than one may apply)									
Incandescent	20.5	13.9	8.6	21.4	14.6	9.0	19.0	7.1	5.4
Standard Fluorescent	19.0	11.0	12.1	21.9	10.9	9.7	11.8	4.6	5.0
Compact Fluorescent	28.5	15.4	12.0	20.8	15.0	10.5	15.4	6.9	4.1
High Intensity Discharge	29.0	13.1	17.1	22.6	14.6	14.4	23.4	6.4	7.4
Halogen	32.3	10.7	9.6	27.1	11.6	9.1	14.3	6.1	4.3
Other	98.4	58.3	70.6	98.4	64.7	77.8	0.0	35.0	28.4
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	20.1	10.4	8.2	22.5	10.2	8.0	12.7	4.5	5.9
Commercial Refrigeration	25.4	12.3	13.0	21.8	14.2	12.6	16.8	8.7	4.9
Walk-In Units	27.3	13.2	12.2	22.9	19.9	10.5	18.2	14.4	5.1
Cases or Cabinets	26.5	14.4	15.0	19.0	12.2	15.5	16.6	6.2	6.0
Residential-Type Units	19.1	11.2	11.7	21.9	11.4	10.6	14.3	4.8	5.9
Vending Machines	22.0	13.1	10.9	22.6	11.5	11.4	14.7	5.9	5.4
No Refrigeration	17.5	22.8	44.5	32.4	20.3	25.1	23.3	16.2	19.8
Office Equipment (more than one may apply)									
Computers	19.4	10.7	10.6	20.4	10.2	8.2	11.5	4.8	4.9
With Flat Screen Monitors	30.7	16.6	10.6	22.4	13.1	7.5	16.0	5.8	6.1
Dedicated Servers	23.0	13.2	11.5	25.3	11.7	9.1	14.8	5.5	4.7
Laser Printers	16.3	9.5	6.7	20.4	9.3	5.3	16.6	5.5	5.5
Inkjet Printers	28.8	12.8	10.6	24.6	14.0	8.3	12.8	7.3	4.4
FAX Machines	20.5	10.8	8.9	21.7	10.4	7.5	12.2	4.6	5.2
Photocopiers	20.1	11.9	9.6	15.6	10.7	8.4	11.5	4.9	4.5
Number of Computers									
None	23.0	22.0	27.5	46.8	23.0	25.5	26.2	8.8	10.3
1 to 4	33.7	15.1	26.3	27.8	19.5	19.8	13.4	12.3	17.2
5 to 9	38.1	18.8	14.1	50.8	19.4	11.5	12.6	11.0	9.8
10 to 19	29.5	31.9	13.4	16.8	23.7	12.4	26.0	18.8	8.1
20 to 49	36.7	23.5	11.1	36.8	26.5	12.8	27.8	6.9	6.3
50 to 99	55.3	27.8	17.5	44.9	31.2	14.3	29.0	6.3	12.6
100 to 249	56.4	28.6	18.3	36.2	20.7	18.2	34.8	12.9	7.4
250 or More	37.2	14.8	19.8	22.7	13.4	18.8	21.6	6.5	6.9
Number of Dedicated Servers									
None	15.1	11.1	14.5	23.9	13.9	15.2	12.5	5.0	8.7
1 to 4	20.4	14.8	6.4	18.0	16.2	5.8	10.3	8.6	4.0
5 to 9	54.8	24.1	19.6	71.6	21.8	16.9	49.2	10.2	9.3
10 to 19	57.2	41.8	25.3	44.6	36.1	23.6	44.8	14.7	15.8
20 to 49	60.1	37.1	34.9	60.2	29.5	26.7	36.9	11.8	13.7
50 or More	61.9	25.3	56.6	54.0	26.7	57.3	45.8	11.8	8.3

RSEs for Table C7. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 1

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	19.4	10.7	11.5	23.9	10.5	9.9	13.1	4.5	5.6
Number of Photocopiers									
None	35.1	12.2	20.5	47.1	16.7	19.7	11.7	8.8	10.7
One	16.8	16.4	10.3	18.0	18.7	14.1	12.6	8.1	6.5
2 to 4	30.3	13.2	7.9	26.5	13.4	6.0	25.1	6.3	4.4
5 to 9	60.4	24.0	19.5	33.9	27.2	15.9	46.5	12.2	9.1
10 or More	16.5	16.2	18.5	16.4	16.2	17.6	13.4	7.9	7.3
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	27.6	15.6	12.8	24.5	20.2	11.3	11.4	12.7	4.5
Activities with Large Amounts of Hot Water	31.8	15.9	13.9	22.0	25.6	12.4	16.0	21.4	5.9
Separate Computer Area	26.0	14.1	14.2	24.2	11.1	11.6	13.2	7.1	4.9
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	42.5	15.7	11.4	30.0	13.5	7.8	20.8	6.8	7.3
Economizer Cycle	36.9	17.9	10.0	25.0	17.4	8.8	16.6	5.8	5.5
HVAC Maintenance	22.4	11.6	13.1	22.5	12.2	10.8	11.3	5.4	4.0
Energy Management and Control System (EMCS)	38.3	13.5	16.7	32.6	10.1	11.7	20.2	7.5	7.9
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	24.4	11.3	10.0	26.2	12.3	7.8	15.5	6.2	5.7
Tinted Window Glass	28.6	15.4	19.1	17.1	15.9	15.3	16.0	6.0	7.4
Reflective Window Glass	47.7	14.2	16.7	32.6	13.0	15.3	32.1	10.1	8.4
External Overhangs or Awnings	38.8	11.2	16.7	37.6	16.7	17.0	10.4	13.3	9.8
Skylights or Atriums	24.1	13.2	20.0	24.9	14.6	14.5	14.3	7.0	10.2
Daylighting Sensors	28.3	30.0	34.4	35.4	32.0	26.0	66.2	14.5	11.3
Specular Reflectors	32.6	13.7	17.9	33.1	12.1	12.5	18.4	6.4	5.9
Electronic Ballasts	24.6	13.1	13.8	23.7	13.1	10.9	15.0	5.2	3.9
Energy Management and Control System (EMCS) For Lighting	55.4	21.0	25.4	52.8	13.7	26.4	2.7	15.8	11.0
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	25.1	10.3	10.9	21.8	11.2	9.2	12.4	6.1	7.0
Cooling	22.2	10.5	12.1	18.4	11.0	9.5	11.6	5.0	5.8
Lighting	17.3	10.0	14.9	25.9	11.8	10.8	8.9	4.9	5.7
Office Equipment	15.7	13.6	26.4	16.1	11.5	14.0	12.0	5.9	15.6

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

RSEs for Table C8. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 2

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	15.7	9.4	11.8	10.2	5.0	11.1	10.1	9.6	11.1
Building Floorspace (Square Feet)									
1,001 to 5,000	13.8	14.6	26.9	25.4	15.3	29.6	12.5	9.8	3.3
5,001 to 10,000	16.6	15.7	27.9	12.4	10.8	20.8	12.7	16.3	18.1
10,001 to 25,000	8.9	12.8	37.1	8.5	15.9	14.2	11.3	16.3	39.4
25,001 to 50,000	24.4	15.4	17.3	15.1	11.7	15.6	13.2	10.6	27.0
50,001 to 100,000	40.5	18.0	11.6	33.8	18.2	20.8	15.6	9.9	9.4
100,001 to 200,000	26.0	37.4	54.9	24.7	25.1	39.6	4.8	19.4	13.3
200,001 to 500,000	42.0	17.8	22.5	46.1	21.1	42.0	20.6	12.1	24.8
Over 500,000	46.3	39.2	41.6	36.8	33.3	39.7	25.8	13.9	11.6
Principal Building Activity									
Education	29.7	16.2	51.6	28.7	11.5	47.9	19.8	13.6	11.3
Food Sales	58.0	24.1	55.8	52.7	18.5	53.6	11.5	13.9	5.1
Food Service	27.8	18.2	20.3	39.6	21.3	14.2	18.1	19.4	13.3
Health Care	31.9	29.7	22.4	19.7	19.5	22.1	16.5	15.8	9.6
Inpatient	34.6	33.3	16.6	23.7	38.6	17.5	16.2	10.0	6.3
Outpatient	32.8	23.3	58.0	25.9	26.0	36.3	22.2	33.6	22.1
Lodging	19.3	19.3	24.0	14.6	19.5	25.2	7.9	12.2	11.6
Retail (Other Than Mall)	37.5	25.4	15.6	37.7	17.4	23.6	13.0	17.2	12.8
Office	18.2	21.7	38.8	12.6	18.3	31.3	7.8	7.4	10.7
Public Assembly	24.5	27.2	70.6	27.6	23.2	48.1	25.3	31.7	22.0
Public Order and Safety	22.7	69.8	58.7	30.7	65.6	44.9	20.9	12.2	26.4
Religious Worship	35.7	25.6	18.4	26.1	20.6	39.2	11.2	10.2	20.6
Service	25.3	45.3	51.0	16.3	22.4	43.4	22.4	35.4	11.6
Warehouse and Storage	37.9	23.1	47.2	13.7	18.6	16.1	33.4	13.4	54.0
Other	80.6	92.6	90.7	54.7	67.6	55.1	59.7	99.8	48.8
Vacant	61.8	69.2	89.0	29.0	38.1	23.9	49.8	88.0	86.9
Year Constructed									
Before 1920	29.1	70.7	87.9	29.6	59.8	65.7	14.6	26.8	61.3
1920 to 1945	36.6	42.7	38.8	30.5	29.7	30.5	27.7	23.6	7.2
1946 to 1959	28.5	29.3	59.8	13.2	19.8	27.9	17.3	32.5	33.7
1960 to 1969	39.5	16.7	32.9	21.0	16.0	32.7	28.2	18.6	22.6
1970 to 1979	16.3	19.7	8.7	21.0	8.2	5.4	10.7	16.6	11.1
1980 to 1989	11.9	27.9	43.8	17.2	11.8	20.6	13.5	21.4	28.2
1990 to 1999	17.1	19.3	22.8	19.9	11.4	26.5	17.4	13.6	11.1
2000 to 2003	21.6	18.7	36.9	25.7	12.8	39.5	11.9	12.6	17.8
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	26.3	0.0	0.0	19.8	0.0	0.0	12.9	0.0	0.0
5,500-7,000 HDD	51.2	0.0	0.0	53.6	0.0	0.0	4.7	0.0	0.0
4,000-5,499 HDD	4.2	41.4	69.6	27.4	35.8	71.8	23.9	9.6	38.1
Fewer than 4,000 HDD	0.0	21.3	61.8	0.0	16.7	61.5	0.0	17.2	4.6
2,000 CDD or More and --									
Fewer than 4,000 HDD	0.0	11.2	95.4	0.0	7.9	92.6	0.0	9.2	1.7
Number of Floors									
One	13.8	13.0	16.8	14.9	12.9	25.8	15.8	7.2	9.1
Two	11.7	15.4	39.4	11.2	11.8	27.1	9.3	15.6	13.3
Three	20.7	33.1	27.5	21.6	19.1	21.5	19.6	24.6	10.4
Four to Nine	37.9	31.7	38.0	31.7	29.5	41.8	15.5	12.3	13.0
Ten or More	44.9	47.1	33.8	35.1	49.3	34.0	14.9	10.4	9.4

RSEs for Table C8. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 2

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	15.7	9.4	11.8	10.2	5.0	11.1	10.1	9.6	11.1
Elevators and Escalators (more than one may apply)									
Any Elevators	28.4	19.7	17.2	19.4	13.4	17.1	14.6	10.5	16.9
Number of Elevators									
One	23.2	13.3	20.6	16.5	13.1	11.8	12.9	8.8	34.0
Two to Five	37.5	32.6	23.1	29.7	20.5	25.5	17.4	18.1	14.7
Six or More	38.2	31.0	26.5	30.9	36.9	45.3	18.6	10.8	19.9
Any Escalators	66.8	41.8	100.0	66.1	41.0	100.0	38.4	15.3	0.0
Number of Workers (main shift)									
Fewer than 5	16.9	11.8	39.0	12.3	20.0	34.7	10.7	11.4	7.8
5 to 9	14.7	17.4	27.3	6.4	14.0	18.9	12.6	11.9	20.3
10 to 19	17.4	14.3	35.4	15.2	12.7	37.6	14.0	8.9	5.8
20 to 49	30.1	24.8	29.0	23.0	19.2	17.8	12.7	9.3	15.1
50 to 99	29.2	18.9	34.2	30.9	18.4	24.3	10.9	6.9	23.2
100 to 249	21.0	31.6	33.5	20.3	21.0	35.5	20.8	15.7	23.1
250 or More	37.9	26.9	32.4	26.4	23.8	51.2	18.9	11.1	18.8
Weekly Operating Hours									
Fewer than 40	20.8	15.6	48.4	9.9	20.7	39.9	11.1	17.5	8.9
40 to 48	14.7	10.6	25.0	13.9	16.2	16.2	14.0	14.3	11.1
49 to 60	24.5	8.8	62.0	14.0	7.4	23.4	17.4	5.2	35.6
61 to 84	21.9	10.0	13.5	23.1	14.7	21.6	8.7	10.3	13.6
85 to 167	34.9	22.1	22.7	38.3	18.9	46.5	6.4	12.1	22.0
Open Continuously	14.2	22.9	10.1	11.0	14.6	15.6	12.6	13.3	13.5
Ownership and Occupancy									
Nongovernment Owned	13.2	11.5	12.8	9.2	7.7	15.0	9.8	10.4	16.3
Owner Occupied	17.4	18.2	12.1	8.8	12.9	12.2	11.9	17.6	4.9
Nonowner Occupied	12.4	9.0	13.6	14.9	10.5	20.6	10.2	6.0	25.1
Unoccupied	67.9	78.7	89.0	26.7	40.9	43.1	64.1	93.0	109.9
Government Owned	27.7	14.1	25.4	17.5	7.3	21.4	16.4	12.2	8.6
Federal	62.6	61.1	48.8	63.6	52.9	24.4	28.2	27.8	37.9
State	72.3	40.9	40.0	50.6	33.8	23.4	45.1	15.1	22.2
Local	28.2	22.7	13.0	24.2	18.8	23.1	5.5	11.1	24.9
Vacancy Status									
Completely Vacant	88.1	72.1	89.0	32.1	39.5	21.8	85.1	93.1	93.2
Mostly Vacant	82.0	101.3	0.0	60.3	101.3	100.5	56.0	0.0	0.0
Partially Vacant	19.5	17.2	30.6	15.0	14.8	21.3	15.6	8.1	12.6
Not At All Vacant	14.4	11.0	11.7	10.5	5.0	14.9	9.5	10.8	12.3
Number of Establishments									
One	14.6	8.3	7.8	10.0	5.4	15.4	11.7	9.2	15.1
2 to 5	34.9	28.7	30.5	25.1	12.1	15.0	17.3	22.5	19.1
6 to 10	7.8	64.3	81.3	23.0	52.1	67.5	24.5	17.1	76.3
11 to 20	14.4	49.1	43.1	7.7	39.1	42.2	18.7	24.8	26.8
More than 20	88.3	44.3	71.0	71.2	35.3	89.3	65.0	33.1	30.5
Currently Unoccupied	88.1	72.1	89.0	32.1	39.5	21.8	85.1	93.1	93.2

RSEs for Table C8. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 2

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	15.7	9.4	11.8	10.2	5.0	11.1	10.1	9.6	11.1
Predominant Exterior Wall Material									
Brick, Stone or Stucco	17.6	8.8	12.6	17.3	8.4	9.9	2.0	7.7	4.3
Concrete (Block or Poured)	32.6	22.7	40.6	23.5	12.2	20.3	17.2	14.6	37.9
Concrete Panels	21.1	43.3	55.7	27.1	32.2	48.3	9.5	20.9	12.6
Siding or Shingles	8.6	30.5	17.6	13.2	25.5	17.7	7.5	26.2	30.4
Metal Panels	26.6	24.9	38.6	20.8	17.0	38.3	22.5	29.7	37.9
Window Glass	100.7	43.9	100.1	100.7	27.4	100.1	0.0	19.3	0.0
Other	63.9	70.2	69.0	61.2	52.0	60.9	28.0	15.8	9.5
No One Major Type	75.8	75.1	0.0	73.0	56.5	0.0	96.7	31.0	0.0
Predominant Roof Material									
Built-Up	16.7	19.5	29.7	15.3	12.2	9.4	10.5	11.8	26.3
Shingles (Not Wood)	15.6	15.5	6.8	13.8	16.0	24.4	13.6	13.2	21.4
Metal Surfacing	25.1	19.8	37.6	17.2	14.5	30.6	16.8	12.5	12.0
Synthetic or Rubber	27.8	16.2	20.4	24.6	12.3	16.1	10.1	8.4	18.6
Slate or Tile	64.6	22.7	18.0	50.0	18.5	12.1	32.9	10.6	13.4
Wooden Materials	62.2	37.7	73.2	57.0	36.8	77.5	19.9	15.1	30.4
Concrete	69.6	53.1	0.0	73.2	56.7	0.0	17.9	12.0	0.0
Other	98.6	84.2	0.0	98.6	68.8	0.0	0.8	51.3	0.0
No One Major Type	88.9	61.1	0.0	88.9	58.5	0.0	0.0	17.8	0.0
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	27.0	16.9	8.7	17.6	13.3	8.3	12.5	17.0	16.3
Addition or Annex	31.2	31.7	18.4	23.6	14.8	23.7	11.3	31.8	36.2
Reduction In Floorspace	87.4	39.4	30.5	84.6	47.3	35.2	21.4	18.2	3.7
Cosmetic Improvements	24.5	15.2	14.2	15.4	20.1	11.6	13.4	12.3	17.2
Wall or Roof Replacement	28.2	20.2	27.9	24.5	24.6	31.3	15.1	15.8	18.3
Interior Wall Re-Configuration	24.8	30.5	29.6	15.9	23.2	20.4	17.2	14.3	22.9
HVAC Equipment Upgrade	26.2	20.9	17.9	18.6	14.7	25.1	16.6	18.6	27.5
Lighting Upgrade	26.6	26.1	19.3	18.8	25.9	15.7	14.4	16.4	16.2
Window Replacement	24.7	30.1	27.3	11.0	27.7	48.5	15.6	17.3	44.3
Plumbing System Upgrade	33.3	30.2	29.1	24.9	28.6	17.2	24.9	15.6	23.7
Insulation Upgrade	26.2	35.2	41.7	18.4	31.4	17.1	23.5	12.4	54.6
Other Renovation	0.0	74.1	81.0	0.0	81.6	70.7	0.0	47.0	92.6
No Renovations Since 1980	20.7	30.7	10.8	17.6	20.3	9.0	6.5	20.2	10.0
Building Newer than 1980	10.6	14.5	17.1	16.4	8.2	22.4	12.6	9.8	18.9
Energy Sources (more than one may apply)									
Electricity	17.2	9.6	14.1	13.3	5.2	7.3	9.3	7.5	10.3
Natural Gas	18.3	18.1	14.1	16.8	16.3	9.4	8.7	9.1	8.8
Fuel Oil	24.1	23.5	5.5	28.1	21.3	12.5	11.0	13.6	11.1
District Heat	66.6	28.9	50.9	63.8	26.7	38.1	9.6	10.7	13.9
District Chilled Water	67.8	31.2	50.3	57.7	27.6	35.2	54.0	6.7	14.9
Propane	18.9	25.0	47.1	29.6	17.3	49.9	10.0	24.8	5.1
Other	55.8	49.6	49.4	42.8	28.9	31.4	29.5	23.9	24.6

RSEs for Table C8. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 2

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	15.7	9.4	11.8	10.2	5.0	11.1	10.1	9.6	11.1
Space-Heating Energy Sources (more than one may apply)									
Electricity	9.5	5.5	9.9	7.9	10.3	15.2	11.0	11.3	17.0
Natural Gas	17.1	18.1	12.7	17.1	17.7	12.8	6.0	8.3	10.2
Fuel Oil	18.4	23.8	14.0	14.5	27.1	23.7	14.9	14.4	13.3
District Heat	65.7	29.7	50.9	63.0	27.8	38.1	9.1	10.3	13.9
Propane	45.1	46.4	66.8	39.0	23.4	60.7	15.3	41.8	12.1
Other	86.0	86.5	51.5	58.9	63.2	34.3	71.2	42.3	23.8
Primary Space-Heating Energy Source									
Electricity	17.4	9.9	17.1	24.0	16.6	10.2	7.4	9.2	19.5
Natural Gas	16.8	19.3	8.9	18.1	19.2	9.4	5.8	9.6	12.5
Fuel Oil	56.7	28.7	100.4	35.6	39.6	100.4	16.2	15.4	0.0
District Heat	69.1	30.4	54.8	65.4	28.6	41.7	11.7	10.5	12.7
Propane	55.3	48.0	64.1	42.9	37.6	59.9	16.7	12.4	13.2
Other	79.8	83.0	68.1	50.8	80.6	40.0	63.5	6.2	59.0
Cooling Energy Sources (more than one may apply)									
Electricity	16.7	10.7	10.1	11.0	5.0	5.5	8.7	10.0	10.4
Natural Gas	50.0	60.0	100.0	54.6	32.7	100.0	49.4	33.7	0.0
District Chilled Water	67.8	31.2	50.3	57.7	27.6	35.2	54.0	6.7	14.9
Water-Heating Energy Sources (more than one may apply)									
Electricity	15.2	11.9	22.4	16.3	11.0	11.0	14.0	12.6	13.9
Natural Gas	18.8	19.8	13.2	20.2	17.3	7.8	6.6	5.9	11.9
Fuel Oil	50.4	40.3	0.0	28.8	50.9	0.0	41.4	18.2	0.0
District Heat	70.7	47.2	51.8	67.8	41.9	39.9	13.8	19.8	10.4
Propane	50.5	49.3	76.8	34.5	43.8	71.1	16.9	15.6	39.9
Cooking Energy Sources (more than one may apply)									
Electricity	17.4	12.4	6.1	24.1	15.7	10.7	11.1	9.2	13.2
Natural Gas	20.1	17.8	17.3	24.9	14.4	22.0	7.6	6.2	4.9
Propane	38.4	35.5	21.9	43.1	33.7	42.1	10.7	14.7	37.3
Energy End Uses (more than one may apply)									
Buildings with Space Heating	15.7	9.7	11.8	11.0	4.8	9.2	8.6	9.4	9.1
Buildings with Cooling	16.8	9.3	11.6	11.2	4.7	7.2	8.7	9.1	9.1
Buildings with Water Heating	14.7	9.4	11.4	10.6	4.6	7.1	8.4	9.2	9.4
Buildings with Cooking	15.9	13.1	12.1	16.4	10.5	19.0	7.4	8.7	7.3
Buildings with Manufacturing	53.8	35.7	47.4	23.9	22.5	42.4	53.0	39.6	9.5
Buildings with Electricity Generation	24.6	14.7	9.9	21.8	17.1	15.0	16.6	11.5	8.1
Percent of Floorspace Heated									
Not Heated	33.2	38.2	53.1	26.5	14.2	36.6	27.4	30.7	59.1
1 to 50	38.3	28.3	64.8	10.0	21.8	38.2	33.5	35.6	42.2
51 to 99	18.7	19.0	18.0	20.2	21.2	11.4	9.9	4.3	20.1
100	16.8	12.1	19.3	12.0	6.6	14.5	9.6	8.7	10.5

RSEs for Table C8. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 2

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	15.7	9.4	11.8	10.2	5.0	11.1	10.1	9.6	11.1
Percent of Floorspace Cooled									
Not Cooled	26.1	41.1	64.0	22.2	20.2	46.9	15.6	39.5	25.7
1 to 50	31.8	19.2	38.7	16.3	15.6	30.7	20.4	15.3	11.5
51 to 99	19.7	12.4	17.3	21.3	12.3	13.3	6.3	6.6	15.9
100	11.5	13.2	16.6	4.8	6.9	11.6	10.7	11.5	10.3
Percent Lit When Open									
Zero	96.0	90.6	92.0	96.0	60.3	86.5	0.0	133.6	43.4
1 to 50	16.5	14.1	32.5	9.9	12.3	19.5	11.0	8.5	23.5
51 to 99	18.7	13.4	17.1	17.1	9.1	7.0	8.5	8.1	18.0
100	15.4	13.7	21.5	10.4	7.7	11.8	11.4	12.2	12.4
Building Never Open/ Electricity Not Used	77.0	71.9	90.1	22.1	26.2	30.1	72.7	81.0	87.6
Percent Lit When Closed									
Zero	13.9	18.9	22.1	5.6	12.5	41.5	15.5	17.4	18.2
1 to 50	18.4	8.5	23.5	20.1	6.6	8.3	15.1	7.4	15.7
51 to 100	53.2	28.4	42.8	46.6	26.3	15.0	21.4	23.5	32.2
Building Never Closed/ Electricity Not Used	14.2	22.9	10.1	9.9	14.0	15.0	12.7	14.0	10.8
Heating Equipment (more than one may apply)									
Heat Pumps	12.0	14.4	27.5	32.1	13.1	29.7	18.4	20.3	6.8
Packaged Heat Pumps	18.8	24.1	44.3	19.3	9.3	48.6	24.5	22.6	6.7
Split-System Heat Pumps	38.7	27.1	22.1	58.2	26.1	26.7	20.4	26.1	4.5
Individual Room Heat Pumps	68.8	22.5	29.6	74.1	21.0	32.1	20.9	12.8	8.1
Furnaces	14.7	25.1	11.4	12.0	14.8	20.8	8.4	15.4	11.5
Individual Space Heaters	20.3	15.5	25.8	13.6	12.9	35.6	14.1	14.9	21.1
District Heat	63.4	29.7	50.9	61.0	27.8	38.1	8.1	10.3	13.9
Boilers	17.8	23.8	24.6	19.2	24.0	17.8	7.8	11.6	17.6
Packaged Heating Units	16.9	12.1	12.3	12.8	9.5	14.9	11.9	10.9	13.3
Other	33.5	19.6	55.0	36.0	26.7	28.7	11.9	17.7	32.5
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	14.8	32.2	21.0	6.4	17.3	24.2	14.7	20.9	21.5
Heat Pumps	9.9	11.2	28.9	28.6	15.1	30.2	18.6	17.9	6.4
Packaged Heat Pumps	18.1	24.9	47.8	21.7	10.4	49.1	26.0	22.3	6.7
Split-System Heat Pumps	27.1	26.7	30.0	56.0	25.6	32.0	25.5	23.8	4.6
Individual Room Heat Pumps	68.8	27.1	29.6	74.1	25.5	32.1	20.9	10.7	8.1
Individual Air Conditioners	15.9	16.4	19.7	10.9	17.8	15.6	10.2	18.6	14.3
District Chilled Water	67.8	31.2	50.3	57.7	27.6	35.2	54.0	6.7	14.9
Central Chillers	30.5	29.1	20.4	26.0	21.0	22.2	14.0	13.8	8.1
Packaged Air Conditioning Units	18.2	13.4	9.9	14.7	10.5	10.6	8.3	5.8	19.2
Swamp Coolers	0.0	56.8	54.2	0.0	64.7	56.4	0.0	26.9	180.3
Other	96.7	65.7	100.0	96.7	52.3	100.0	0.0	30.1	0.0
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	20.4	16.4	30.4	13.9	16.4	9.6	11.5	12.0	24.0
Cooling	23.9	16.6	20.1	20.6	13.8	6.3	6.9	13.3	14.3

RSEs for Table C8. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 2

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	15.7	9.4	11.8	10.2	5.0	11.1	10.1	9.6	11.1
Water Heating Equipment									
Centralized System	12.9	8.4	7.1	8.7	7.8	11.5	8.3	6.4	9.2
Distributed System	21.5	17.8	34.4	13.3	10.8	31.2	10.3	12.6	5.3
Combination of Centralized and Distributed System	19.7	21.9	41.5	16.9	11.1	23.9	12.0	15.5	15.3
Lighting Equipment Types (more than one may apply)									
Incandescent	14.5	13.9	10.6	8.9	8.1	4.1	10.2	11.9	10.2
Standard Fluorescent	16.8	9.2	11.1	11.3	4.6	8.2	8.9	9.2	9.2
Compact Fluorescent	19.2	13.6	20.3	15.3	10.4	17.4	7.9	11.2	7.1
High Intensity Discharge	25.8	17.3	18.9	23.4	9.5	25.5	8.4	14.6	11.1
Halogen	25.0	21.5	22.9	16.4	12.0	13.7	12.2	13.5	16.2
Other	0.0	100.3	65.5	0.0	100.3	65.3	0.0	0.0	10.2
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	15.2	10.1	12.4	11.8	4.6	8.2	7.8	8.9	9.5
Commercial Refrigeration	16.1	12.8	11.3	17.7	7.9	7.0	6.1	9.6	12.4
Walk-In Units	18.2	14.9	12.0	21.8	10.4	8.6	7.6	10.0	13.8
Cases or Cabinets	20.2	14.0	14.6	21.3	7.0	10.5	10.6	11.1	13.9
Residential-Type Units	8.4	12.7	13.2	8.7	7.9	14.4	3.5	12.1	7.6
Vending Machines	16.0	11.7	7.7	14.0	5.3	8.3	12.5	8.5	7.3
No Refrigeration	22.0	21.3	30.3	12.3	15.3	36.3	25.2	15.4	35.5
Office Equipment (more than one may apply)									
Computers	17.4	8.6	11.8	12.8	4.6	5.0	9.5	7.7	9.3
With Flat Screen Monitors	28.1	13.4	23.6	21.1	10.7	17.6	12.7	7.4	6.4
Dedicated Servers	20.7	12.8	17.0	14.0	7.7	11.3	9.9	9.6	13.5
Laser Printers	13.8	11.0	8.5	12.7	10.0	12.9	9.0	9.5	7.8
Inkjet Printers	28.2	14.6	21.4	19.8	6.9	8.5	11.4	9.8	14.4
FAX Machines	17.4	10.5	12.6	13.4	5.0	5.5	8.5	8.9	12.0
Photocopiers	17.7	11.4	16.7	11.5	5.6	6.7	10.3	8.9	11.9
Number of Computers									
None	13.0	29.5	51.5	9.6	13.8	46.6	14.1	31.3	28.2
1 to 4	13.0	14.0	12.3	12.6	12.9	9.5	9.0	16.1	8.4
5 to 9	31.5	12.0	18.5	20.2	15.6	24.1	15.0	15.6	14.4
10 to 19	23.4	22.0	31.3	30.9	18.7	22.5	11.1	11.6	21.7
20 to 49	35.3	22.9	32.7	31.2	16.6	22.2	12.1	12.0	20.8
50 to 99	42.5	43.4	46.4	37.1	24.5	30.2	13.8	32.6	18.3
100 to 249	23.1	13.5	38.3	15.8	11.1	35.2	19.2	11.0	16.5
250 or More	26.2	25.0	33.4	16.1	23.0	52.4	16.7	11.2	20.0
Number of Dedicated Servers									
None	12.1	11.9	21.8	12.5	9.9	26.6	8.6	12.0	8.7
1 to 4	20.2	21.7	19.6	14.2	11.2	9.0	10.7	16.4	16.0
5 to 9	36.7	40.1	41.7	32.7	30.4	48.3	12.0	17.8	23.1
10 to 19	48.8	33.8	58.7	44.4	27.7	59.6	28.5	12.9	2.2
20 to 49	60.0	26.0	43.0	43.1	36.0	48.8	29.4	16.4	6.6
50 or More	73.2	49.8	20.9	73.4	63.0	36.8	1.9	11.3	43.1

RSEs for Table C8. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 2

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	15.7	9.4	11.8	10.2	5.0	11.1	10.1	9.6	11.1
Number of Photocopiers									
None	13.6	11.1	19.1	11.1	15.6	28.0	8.6	11.3	17.0
One	17.2	14.8	14.5	9.7	14.3	14.5	11.8	10.7	9.2
2 to 4	26.4	22.6	27.5	21.5	15.4	16.0	11.7	15.3	14.7
5 to 9	23.4	32.8	50.6	15.7	19.9	35.5	16.5	13.9	15.9
10 or More	31.9	26.0	31.2	26.1	23.8	44.7	11.5	12.9	12.9
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	15.9	13.1	12.1	16.4	10.5	19.0	7.4	8.6	7.3
Activities with Large Amounts of Hot Water	18.4	18.6	12.0	15.1	9.4	9.8	10.1	12.3	4.6
Separate Computer Area	20.4	18.4	10.9	13.6	10.5	8.7	9.7	11.3	5.6
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	37.6	18.2	28.0	27.5	11.3	22.8	16.5	11.1	10.1
Economizer Cycle	23.2	19.4	16.7	18.7	12.7	23.5	10.0	11.3	11.5
HVAC Maintenance	14.5	11.6	14.3	11.3	5.7	6.8	5.9	8.0	9.2
Energy Management and Control System (EMCS)	28.8	9.3	35.0	25.3	12.1	23.2	12.8	8.5	13.2
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	18.7	12.8	13.2	13.4	5.9	9.2	10.2	10.1	6.3
Tinted Window Glass	25.3	12.8	26.7	15.8	6.7	9.6	13.5	10.7	18.8
Reflective Window Glass	20.9	27.9	14.8	20.8	13.3	26.3	8.6	19.9	36.5
External Overhangs or Awnings	10.1	22.5	11.1	11.9	12.6	18.3	7.7	16.2	12.4
Skylights or Atriums	22.2	18.4	23.2	22.9	15.2	29.8	14.6	10.4	21.8
Daylighting Sensors	18.8	26.7	33.8	20.7	28.6	44.4	6.5	15.7	27.7
Specular Reflectors	23.8	15.3	27.5	18.5	7.8	19.5	11.9	10.1	9.8
Electronic Ballasts	15.3	9.9	11.9	11.7	4.6	8.0	11.8	8.5	11.9
Energy Management and Control System (EMCS) For Lighting	30.7	27.4	96.9	28.0	25.7	94.3	17.2	18.6	3.0
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	17.9	6.4	17.6	12.6	5.6	17.2	11.2	6.1	11.3
Cooling	19.1	7.9	17.7	11.5	6.5	14.9	12.0	6.6	10.5
Lighting	16.1	7.5	18.2	11.3	5.9	11.4	9.3	8.4	13.6
Office Equipment	20.0	11.5	32.0	9.5	11.1	14.9	15.1	8.3	24.3

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

RSEs for Table C9. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 3

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
All Buildings*	14.3	14.2	8.9	11.2	8.5	5.3	11.1	7.3	7.4
Building Floorspace (Square Feet)									
1,001 to 5,000	24.0	15.5	15.8	16.5	27.2	13.8	11.8	17.9	18.6
5,001 to 10,000	14.4	46.8	19.0	12.5	36.8	17.5	10.9	8.3	18.5
10,001 to 25,000	14.6	19.7	10.5	19.4	14.8	11.5	13.7	6.8	11.6
25,001 to 50,000	18.9	28.8	11.1	26.6	23.5	11.6	21.3	8.7	6.4
50,001 to 100,000	18.3	14.7	24.3	14.0	11.7	17.8	13.6	9.2	8.6
100,001 to 200,000	36.6	25.9	9.9	26.5	21.1	15.8	20.7	9.0	14.2
200,001 to 500,000	27.2	39.9	15.0	22.3	47.4	25.1	15.6	40.5	22.4
Over 500,000	52.1	62.1	38.2	56.0	62.7	35.2	7.1	54.5	27.1
Principal Building Activity									
Education	29.3	27.1	13.4	23.1	19.8	8.7	18.8	8.6	13.0
Food Sales	22.3	39.1	20.8	24.4	50.4	18.8	8.7	56.9	16.4
Food Service	20.7	47.3	31.5	24.4	57.4	21.9	21.4	42.2	18.3
Health Care	26.7	22.0	42.5	24.1	11.1	22.7	7.3	12.7	21.0
Inpatient	30.9	17.0	47.4	30.0	15.1	33.6	6.6	11.9	18.0
Outpatient	67.5	34.3	31.3	50.7	17.2	23.3	19.3	22.4	20.0
Lodging	33.8	47.2	25.2	35.8	22.2	18.9	10.0	41.2	17.7
Retail (Other Than Mall)	26.9	38.1	19.1	19.3	28.2	20.1	12.7	12.0	4.0
Office	36.1	22.4	19.3	29.6	14.4	19.9	7.7	16.4	7.6
Public Assembly	43.1	32.1	32.8	31.5	25.7	14.8	27.6	9.3	26.2
Public Order and Safety	33.7	39.3	48.6	25.3	39.9	48.3	11.9	7.4	10.7
Religious Worship	25.6	24.7	22.5	23.1	32.3	10.7	8.8	9.6	16.1
Service	46.9	38.7	41.9	38.9	39.0	18.1	15.1	11.0	29.3
Warehouse and Storage	34.0	63.4	31.7	39.6	41.8	22.9	18.3	44.4	13.6
Other	52.4	45.0	54.8	33.6	45.4	49.7	28.8	10.0	9.6
Vacant	50.5	67.0	58.8	30.2	64.4	64.3	55.3	36.5	58.4
Year Constructed									
Before 1920	69.6	50.6	34.2	59.9	46.0	37.3	14.1	7.7	25.3
1920 to 1945	32.1	23.3	28.0	24.0	15.1	27.3	21.1	17.7	17.4
1946 to 1959	17.1	40.7	16.6	21.2	45.7	16.1	16.9	14.6	17.4
1960 to 1969	22.4	30.1	15.1	21.8	34.7	13.9	19.5	14.6	13.0
1970 to 1979	25.8	27.8	18.8	16.4	27.8	18.6	18.4	3.9	17.1
1980 to 1989	27.8	45.7	21.9	21.4	27.4	14.5	14.1	33.3	10.8
1990 to 1999	18.6	24.3	25.8	21.8	21.8	19.2	11.5	9.0	17.7
2000 to 2003	29.8	25.1	30.8	32.7	30.1	24.5	23.0	29.3	21.6
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	0.0	22.0	89.9	0.0	14.2	90.0	0.0	8.3	2.7
5,500-7,000 HDD	0.0	20.8	29.7	0.0	12.3	47.5	0.0	18.7	34.0
4,000-5,499 HDD	96.7	0.0	53.0	97.3	0.0	44.1	1.4	0.0	8.4
Fewer than 4,000 HDD	26.6	0.0	10.9	19.9	0.0	9.4	28.9	0.0	7.2
2,000 CDD or More and --									
Fewer than 4,000 HDD	17.3	29.7	92.7	15.9	30.0	97.1	12.9	8.2	148.3
Number of Floors									
One	14.0	25.7	6.8	15.1	17.4	9.2	11.6	8.9	8.7
Two	11.6	12.6	18.4	16.1	14.4	14.4	13.5	8.9	14.8
Three	26.4	7.1	18.8	21.5	11.5	17.9	16.9	12.3	13.0
Four to Nine	40.8	29.5	21.1	41.6	28.6	13.8	7.3	3.8	14.5
Ten or More	47.3	71.8	43.1	46.4	60.4	44.2	3.8	57.4	8.4

RSEs for Table C9. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 3

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	14.3	14.2	8.9	11.2	8.5	5.3	11.1	7.3	7.4
Elevators and Escalators (more than one may apply)									
Any Elevators	28.6	32.7	17.3	25.3	24.3	15.6	6.1	11.5	11.9
Number of Elevators									
One	10.9	29.1	27.3	12.2	31.4	27.9	9.5	25.3	12.4
Two to Five	39.6	12.5	14.0	39.3	13.6	13.5	4.0	3.3	13.5
Six or More	40.5	58.7	32.8	43.7	49.7	34.8	6.5	40.1	20.7
Any Escalators	52.2	81.4	36.5	53.5	70.6	32.6	5.3	41.4	14.1
Number of Workers (main shift)									
Fewer than 5	17.7	16.3	15.4	14.5	20.9	16.9	13.7	16.0	13.9
5 to 9	27.5	31.7	19.8	14.5	27.1	16.7	17.8	11.0	25.3
10 to 19	17.4	32.2	34.8	22.2	25.4	21.1	27.2	11.4	21.4
20 to 49	19.1	28.8	23.7	15.8	20.8	19.5	17.2	13.7	10.4
50 to 99	43.8	29.2	10.9	31.8	27.1	12.3	17.8	11.7	6.7
100 to 249	20.8	18.0	13.4	20.0	15.9	12.8	12.5	9.8	10.9
250 or More	37.2	46.3	26.4	38.1	48.8	25.4	5.8	29.7	15.4
Weekly Operating Hours									
Fewer than 40	23.8	32.9	48.7	20.6	22.1	28.4	14.9	14.7	42.6
40 to 48	19.0	23.8	13.4	18.4	16.0	19.4	13.6	13.0	9.3
49 to 60	18.5	20.7	17.1	15.8	25.2	11.9	14.9	5.8	10.2
61 to 84	27.2	14.2	21.5	23.8	22.1	10.9	12.3	29.6	17.7
85 to 167	20.2	12.8	12.2	25.9	22.0	12.0	17.0	28.3	11.4
Open Continuously	23.6	28.3	26.5	23.9	14.9	15.5	8.8	17.9	18.4
Ownership and Occupancy									
Nongovernment Owned	14.4	21.9	12.2	12.4	13.4	6.2	12.0	10.5	9.0
Owner Occupied	21.4	31.7	18.8	16.7	24.2	10.8	9.3	8.2	13.6
Nonowner Occupied	15.6	25.9	15.1	13.5	15.0	10.4	15.4	14.2	8.7
Unoccupied	54.5	71.6	75.8	31.2	72.3	77.1	60.3	13.2	69.7
Government Owned	35.4	21.4	16.9	27.7	18.9	9.2	17.4	8.0	13.3
Federal	52.0	77.9	76.0	41.8	78.4	37.7	29.9	8.1	44.2
State	69.1	18.7	28.7	63.5	22.5	24.0	18.2	7.9	14.4
Local	12.7	22.5	20.1	21.0	13.9	23.5	9.1	12.9	11.7
Vacancy Status									
Completely Vacant	53.3	71.6	75.8	30.4	72.3	76.1	57.9	13.2	69.7
Mostly Vacant	100.1	72.3	69.9	100.1	76.6	64.9	0.0	43.5	61.5
Partially Vacant	34.4	33.5	26.4	26.3	28.7	22.9	9.6	6.8	16.6
Not At All Vacant	11.4	16.5	8.4	11.5	9.9	6.6	11.6	9.0	6.2
Number of Establishments									
One	15.7	13.3	8.9	12.1	5.8	6.6	12.3	11.1	7.5
2 to 5	14.2	34.5	22.4	17.7	36.2	14.7	14.9	12.4	13.3
6 to 10	53.9	23.0	23.7	30.0	13.5	29.2	43.2	12.7	13.6
11 to 20	60.9	34.8	35.0	43.4	49.3	34.5	31.3	32.9	10.0
More than 20	35.0	73.7	41.4	31.8	81.3	41.4	5.9	67.3	9.8
Currently Unoccupied	53.3	71.6	75.8	30.4	72.3	76.1	57.9	13.2	69.7

RSEs for Table C9. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 3

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	14.3	14.2	8.9	11.2	8.5	5.3	11.1	7.3	7.4
Predominant Exterior Wall Material									
Brick, Stone or Stucco	19.3	16.3	14.1	15.3	15.7	12.3	10.7	6.4	9.3
Concrete (Block or Poured)	24.1	22.4	16.0	21.5	16.4	9.0	13.5	6.9	10.4
Concrete Panels	33.5	55.4	17.2	19.9	46.9	16.4	23.7	14.8	10.3
Siding or Shingles	30.0	43.8	32.3	14.6	62.4	27.9	23.7	52.3	39.7
Metal Panels	27.9	49.0	16.8	22.7	36.9	20.4	21.1	10.4	5.1
Window Glass	45.4	70.3	47.5	41.4	70.1	46.2	13.9	9.6	15.4
Other	65.3	79.4	44.2	66.5	73.6	43.4	3.1	10.3	29.5
No One Major Type	100.2	86.5	64.0	100.2	82.2	67.1	0.0	7.3	11.6
Predominant Roof Material									
Built-Up	20.5	24.9	8.7	11.8	13.1	8.8	12.8	15.3	9.7
Shingles (Not Wood)	28.1	19.7	19.4	16.4	17.7	13.3	13.6	12.0	23.7
Metal Surfacing	23.0	31.7	21.2	25.2	18.8	20.7	14.1	13.3	8.3
Synthetic or Rubber	29.4	24.5	23.7	33.2	16.5	25.0	6.8	15.7	25.3
Slate or Tile	33.1	43.6	26.8	31.4	22.9	36.2	16.1	23.6	30.8
Wooden Materials	37.0	50.6	52.8	24.1	47.0	39.2	22.5	18.7	20.0
Concrete	64.8	76.4	34.9	52.5	81.8	30.5	16.6	42.4	20.3
Other	67.0	85.0	37.6	75.6	78.6	51.4	26.0	36.9	36.2
No One Major Type	86.0	0.0	34.5	74.3	0.0	48.2	16.2	0.0	60.3
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	14.6	12.0	15.7	8.0	10.5	18.4	15.8	5.5	9.1
Addition or Annex	30.5	15.0	13.0	21.2	11.0	22.4	14.2	7.2	20.6
Reduction In Floorspace	82.1	95.0	68.9	88.3	87.6	64.5	61.4	8.5	13.6
Cosmetic Improvements	16.1	13.0	16.0	13.5	14.0	18.4	19.8	4.8	8.6
Wall or Roof Replacement	25.8	29.2	20.5	15.7	22.1	26.9	12.2	13.3	15.0
Interior Wall Re-Configuration	20.5	16.0	21.1	10.3	13.4	22.4	23.2	5.8	11.7
HVAC Equipment Upgrade	19.2	12.2	21.3	19.9	11.5	24.9	13.4	4.5	11.8
Lighting Upgrade	23.9	14.0	18.6	20.6	12.8	19.4	22.4	6.8	12.5
Window Replacement	21.2	42.7	22.5	23.6	27.5	26.9	23.3	18.4	14.2
Plumbing System Upgrade	28.9	23.3	24.6	19.1	16.3	28.1	27.7	9.1	10.8
Insulation Upgrade	28.2	27.8	31.5	26.0	25.7	38.3	17.2	23.8	16.6
Other Renovation	0.0	93.9	46.2	0.0	93.9	51.7	0.0	0.0	29.3
No Renovations Since 1980	14.7	24.6	16.5	9.7	20.6	5.6	16.9	10.9	13.8
Building Newer than 1980	18.2	30.7	15.5	20.6	20.0	12.6	13.2	14.4	11.2
Energy Sources (more than one may apply)									
Electricity	14.8	16.1	10.2	12.3	7.7	4.9	8.2	9.7	7.8
Natural Gas	19.4	18.8	13.1	17.1	14.7	9.1	8.5	5.8	6.6
Fuel Oil	36.2	39.3	17.2	38.3	29.9	18.4	6.4	28.0	12.1
District Heat	41.2	19.6	30.4	51.1	40.8	28.5	15.9	39.7	21.2
District Chilled Water	39.7	38.4	33.2	42.9	38.5	26.9	13.3	14.6	29.9
Propane	25.8	51.5	33.6	42.0	37.0	25.5	22.3	24.2	35.8
Other	68.8	81.6	37.3	52.5	65.7	20.6	75.1	10.9	25.8

RSEs for Table C9. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 3

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
All Buildings*	14.3	14.2	8.9	11.2	8.5	5.3	11.1	7.3	7.4
Space-Heating Energy Sources (more than one may apply)									
Electricity	17.5	33.9	10.5	18.3	20.6	12.1	12.2	18.5	11.5
Natural Gas	16.8	21.5	12.9	12.3	16.8	11.1	10.4	6.0	4.0
Fuel Oil	54.6	26.8	39.9	49.5	14.0	19.2	23.9	26.8	24.7
District Heat	41.8	19.6	31.6	53.4	40.8	29.5	15.7	39.7	22.1
Propane	79.7	54.4	58.2	81.5	44.7	53.1	8.4	29.8	68.4
Other	86.9	93.1	44.8	86.9	67.0	48.9	0.0	15.7	38.2
Primary Space-Heating Energy Source									
Electricity	18.9	16.0	20.1	22.2	20.0	19.5	13.4	8.5	5.4
Natural Gas	17.0	20.9	15.0	12.0	15.4	14.6	10.2	8.1	4.0
Fuel Oil	0.0	50.3	49.7	0.0	46.4	15.6	0.0	11.9	40.1
District Heat	44.1	15.5	31.6	55.6	26.0	29.5	12.8	19.8	22.1
Propane	74.7	40.1	82.2	76.5	52.7	65.0	11.1	23.9	115.3
Other	0.0	49.1	41.8	0.0	23.4	55.0	0.0	93.9	45.8
Cooling Energy Sources (more than one may apply)									
Electricity	13.9	18.8	8.2	11.7	13.4	5.9	9.6	6.4	6.5
Natural Gas	76.6	38.5	32.5	87.3	34.9	52.0	15.9	7.1	49.2
District Chilled Water	39.7	38.4	33.2	42.9	38.5	26.9	13.3	14.6	29.9
Water-Heating Energy Sources (more than one may apply)									
Electricity	20.0	21.3	8.5	21.1	14.4	13.4	11.8	11.5	8.6
Natural Gas	16.9	16.6	11.4	13.5	14.1	9.4	9.7	5.8	3.6
Fuel Oil	76.3	95.5	72.0	78.4	95.5	77.0	15.6	0.0	12.9
District Heat	49.4	27.5	42.6	50.5	43.6	38.8	21.9	36.2	26.2
Propane	60.6	77.9	84.1	65.9	89.1	53.1	14.2	15.0	85.0
Cooking Energy Sources (more than one may apply)									
Electricity	24.8	44.2	15.2	24.3	25.9	13.3	7.2	24.4	4.9
Natural Gas	17.2	30.9	16.4	17.4	25.1	17.0	7.9	12.2	10.2
Propane	61.7	35.0	46.1	64.2	47.7	33.4	50.4	27.9	28.0
Energy End Uses (more than one may apply)									
Buildings with Space Heating	14.7	14.7	8.6	11.2	8.3	5.4	9.4	7.8	6.5
Buildings with Cooling	14.7	17.2	8.9	12.3	12.3	5.5	9.7	5.9	7.5
Buildings with Water Heating	15.9	15.0	9.9	12.3	8.9	6.6	8.3	7.4	6.7
Buildings with Cooking	18.8	28.5	16.2	18.8	17.8	13.7	6.5	14.8	8.8
Buildings with Manufacturing	52.2	64.0	35.9	53.4	57.0	32.1	20.3	20.0	16.3
Buildings with Electricity Generation	30.0	35.2	15.2	29.6	28.0	16.0	4.2	22.5	10.7
Percent of Floorspace Heated									
Not Heated	44.5	69.5	38.1	26.8	40.2	22.5	35.3	34.1	31.9
1 to 50	22.4	55.5	15.9	33.6	36.8	13.5	14.5	20.7	10.4
51 to 99	15.8	34.9	13.5	16.3	39.0	11.8	20.6	10.2	6.7
100	18.0	19.6	12.3	15.5	11.5	8.5	5.2	10.6	11.1

RSEs for Table C9. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 3

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
All Buildings*	14.3	14.2	8.9	11.2	8.5	5.3	11.1	7.3	7.4
Percent of Floorspace Cooled									
Not Cooled	47.1	44.7	16.9	27.7	40.1	22.4	41.0	8.7	20.9
1 to 50	18.9	44.9	15.5	27.9	32.7	16.7	18.3	19.4	11.1
51 to 99	20.7	17.0	16.7	17.6	13.1	18.6	12.9	11.6	10.5
100	21.0	29.5	13.2	19.1	19.5	11.0	6.8	14.6	10.6
Percent Lit When Open									
Zero	85.6	100.1	72.7	55.4	100.1	55.3	79.1	0.0	50.2
1 to 50	21.2	32.0	29.3	29.0	25.4	8.2	16.9	7.4	22.4
51 to 99	22.1	15.0	17.1	13.9	14.6	13.3	15.2	12.2	9.5
100	15.3	21.9	12.2	12.0	14.0	7.7	6.8	9.8	8.7
Building Never Open/ Electricity Not Used	42.1	50.3	61.9	23.3	32.3	58.8	39.5	57.2	66.2
Percent Lit When Closed									
Zero	9.3	18.7	15.9	17.3	13.7	13.4	14.7	10.7	5.3
1 to 50	13.8	16.3	13.3	12.4	10.5	8.3	7.6	9.0	8.0
51 to 100	17.7	15.0	28.8	20.2	31.4	25.0	11.1	27.6	13.9
Building Never Closed/ Electricity Not Used	23.6	28.3	26.5	15.8	14.7	15.8	13.9	18.1	22.5
Heating Equipment (more than one may apply)									
Heat Pumps	17.3	67.6	18.4	18.1	45.7	14.0	15.1	46.3	12.1
Packaged Heat Pumps	23.4	71.9	17.8	14.2	51.5	19.7	19.0	47.5	9.9
Split-System Heat Pumps	35.2	52.3	33.6	36.7	52.1	30.9	33.6	16.1	22.4
Individual Room Heat Pumps	43.9	39.9	17.6	33.1	40.0	22.0	40.2	13.6	24.5
Furnaces	15.6	22.1	21.7	10.8	9.0	15.7	12.4	14.2	10.9
Individual Space Heaters	28.1	22.5	18.2	23.3	10.5	18.2	9.7	14.2	12.3
District Heat	41.8	19.6	31.6	53.4	40.8	29.5	15.7	39.7	22.1
Boilers	31.2	22.2	16.7	29.5	18.7	17.7	7.2	12.5	7.7
Packaged Heating Units	15.2	31.1	17.1	13.1	23.0	9.6	11.6	21.1	11.0
Other	40.4	41.4	25.2	33.7	34.2	24.8	22.6	13.5	6.6
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	25.9	32.2	18.0	25.9	30.1	17.0	19.0	14.6	16.9
Heat Pumps	12.9	58.3	17.2	13.8	38.4	13.9	16.5	38.4	10.8
Packaged Heat Pumps	23.4	71.6	17.6	13.2	51.8	19.4	20.4	46.8	9.0
Split-System Heat Pumps	31.4	47.1	32.4	41.3	44.0	30.4	14.0	13.3	21.4
Individual Room Heat Pumps	43.9	51.2	18.6	33.1	39.3	24.4	40.2	16.5	20.8
Individual Air Conditioners	24.8	26.3	26.1	19.5	21.9	16.4	19.5	9.0	14.2
District Chilled Water	39.7	38.4	33.2	42.9	38.5	26.9	13.3	14.6	29.9
Central Chillers	27.4	41.5	24.6	26.6	32.4	28.3	3.7	24.9	15.5
Packaged Air Conditioning Units	13.8	18.2	9.0	10.6	15.2	7.1	12.8	10.5	4.7
Swamp Coolers	50.8	23.9	20.7	46.7	23.0	22.5	54.8	4.5	31.8
Other	18.1	42.5	63.4	33.0	58.2	46.1	13.8	27.6	13.6
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	16.7	34.9	19.4	10.6	17.9	17.4	19.1	21.7	13.4
Cooling	13.9	29.1	10.4	11.1	14.9	8.4	13.8	17.8	9.2

RSEs for Table C9. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 3

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific	West South Central	Mountain	Pacific
All Buildings*	14.3	14.2	8.9	11.2	8.5	5.3	11.1	7.3	7.4
Water Heating Equipment									
Centralized System	23.7	22.2	11.0	17.8	15.0	6.5	11.6	7.1	6.0
Distributed System	17.9	21.6	20.0	11.0	16.5	17.9	11.9	10.9	10.3
Combination of Centralized and Distributed System	15.1	31.3	21.6	19.3	21.5	20.3	8.9	17.3	16.6
Lighting Equipment Types (more than one may apply)									
Incandescent	18.6	17.9	15.2	15.6	11.7	10.3	6.8	11.8	9.2
Standard Fluorescent	14.7	14.6	9.0	12.4	9.8	5.5	10.4	6.8	6.8
Compact Fluorescent	23.3	18.1	12.7	20.9	10.0	9.2	5.5	13.8	8.8
High Intensity Discharge	18.7	22.8	11.9	14.2	11.3	7.5	10.2	13.5	7.2
Halogen	11.0	25.1	19.7	15.8	24.0	17.0	7.7	4.8	9.6
Other	61.3	100.2	100.4	66.2	100.2	100.4	29.9	0.0	0.0
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	15.7	14.6	10.1	12.1	9.2	5.7	8.5	7.3	7.1
Commercial Refrigeration	20.0	20.4	13.8	18.3	11.9	13.2	4.2	11.7	9.2
Walk-In Units	20.8	22.5	14.0	19.7	9.9	14.1	3.7	16.6	11.0
Cases or Cabinets	19.7	24.0	15.4	19.6	16.4	16.0	4.0	10.4	10.3
Residential-Type Units	15.1	17.1	10.0	12.5	10.3	6.4	8.3	7.2	8.9
Vending Machines	16.3	21.7	13.9	15.0	16.0	8.5	8.7	6.9	8.3
No Refrigeration	13.4	31.2	11.0	19.4	17.3	16.8	15.4	15.3	15.1
Office Equipment (more than one may apply)									
Computers	15.5	16.0	9.0	13.1	11.1	4.5	10.7	6.3	6.6
With Flat Screen Monitors	24.5	26.0	12.0	20.1	16.2	11.7	6.1	14.5	9.8
Dedicated Servers	21.9	20.5	9.6	17.0	14.7	5.3	12.1	8.8	6.6
Laser Printers	15.0	27.1	9.4	14.5	19.7	4.9	11.1	10.2	8.3
Inkjet Printers	20.7	22.1	13.8	18.2	19.0	10.7	10.8	3.8	8.0
FAX Machines	15.5	18.5	9.9	13.6	13.5	6.3	10.5	5.6	6.9
Photocopiers	17.6	19.8	11.7	14.7	16.0	6.6	10.9	6.1	8.3
Number of Computers									
None	29.6	26.0	32.6	14.7	24.9	29.3	23.8	13.6	22.1
1 to 4	17.1	25.2	15.3	15.2	26.1	12.1	13.4	5.5	11.7
5 to 9	16.9	22.0	13.7	17.9	15.9	20.2	15.8	11.1	11.4
10 to 19	25.0	13.4	20.7	29.3	20.4	17.7	25.5	8.1	11.1
20 to 49	31.3	37.2	23.6	29.6	24.5	16.4	20.3	23.5	14.5
50 to 99	22.1	27.0	8.7	21.5	23.8	19.0	5.8	21.4	14.6
100 to 249	24.9	34.7	20.0	20.7	24.9	26.2	10.3	16.4	15.1
250 or More	36.2	50.1	24.1	34.9	39.3	21.2	4.3	36.8	16.1
Number of Dedicated Servers									
None	13.7	14.8	10.6	12.1	8.7	8.2	9.5	8.7	9.7
1 to 4	16.2	19.6	9.0	16.7	15.8	7.3	14.5	7.3	8.2
5 to 9	44.1	76.7	29.0	38.3	69.9	27.2	15.2	23.2	23.7
10 to 19	37.7	41.7	14.9	36.1	42.9	15.3	15.5	8.6	8.1
20 to 49	49.7	40.9	22.6	48.2	56.1	26.5	7.2	58.8	21.1
50 or More	51.2	82.8	41.5	47.5	76.3	47.1	11.6	27.4	34.3

RSEs for Table C9. Consumption and Gross Energy Intensity by Census Division for Sum of Major Fuels for Non-Mall Buildings, 2003: Part 3

	RSEs for Sum of Major Fuel Consumption			RSEs for Total Floorspace of Buildings			RSEs for Energy Intensity for Sum of Major Fuels		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	14.3	14.2	8.9	11.2	8.5	5.3	11.1	7.3	7.4
Number of Photocopiers									
None	17.4	19.6	17.3	13.5	23.1	12.1	13.0	16.6	15.8
One	17.3	18.6	18.8	17.5	22.9	15.4	12.9	8.1	9.5
2 to 4	24.8	27.9	17.2	18.7	15.8	10.5	18.7	14.1	11.3
5 to 9	24.5	36.4	18.0	23.9	33.6	14.7	8.6	31.0	18.0
10 or More	32.6	40.4	23.6	32.2	31.7	21.0	4.6	20.5	13.7
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	18.8	28.5	16.5	18.8	17.8	13.8	6.5	14.8	9.0
Activities with Large Amounts of Hot Water	18.6	17.2	16.2	20.2	6.3	14.4	9.2	16.1	7.8
Separate Computer Area	25.9	24.6	13.1	20.2	18.1	8.0	10.8	11.5	8.4
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	25.4	28.8	18.6	24.7	17.4	13.9	6.5	14.7	10.7
Economizer Cycle	28.5	22.4	10.8	27.1	13.6	10.8	6.5	11.7	8.5
HVAC Maintenance	17.2	12.6	8.8	14.4	6.8	4.4	11.0	8.5	7.2
Energy Management and Control System (EMCS)	27.1	38.3	16.0	25.2	22.7	13.9	6.6	21.3	9.5
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	20.7	17.8	13.2	17.9	11.2	6.5	10.4	9.5	12.4
Tinted Window Glass	19.4	21.2	12.0	15.4	13.8	7.4	12.9	11.2	9.4
Reflective Window Glass	17.5	17.5	19.1	20.2	15.2	12.8	8.6	16.9	16.7
External Overhangs or Awnings	16.0	21.4	15.1	16.7	8.9	13.9	7.7	15.5	7.4
Skylights or Atriums	21.5	33.8	25.3	21.0	23.4	16.1	10.3	16.2	19.0
Daylighting Sensors	31.0	65.6	38.0	31.3	51.8	28.7	28.3	34.1	29.5
Specular Reflectors	19.4	26.1	10.5	20.3	19.2	9.1	7.0	9.5	6.8
Electronic Ballasts	16.3	18.0	9.1	14.7	11.4	6.3	10.7	7.3	6.8
Energy Management and Control System (EMCS) For Lighting	44.4	29.3	29.5	40.6	40.3	28.9	7.2	30.7	18.7
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	16.0	13.9	8.9	12.1	7.8	5.8	8.7	10.3	6.8
Cooling	14.8	16.8	10.3	12.7	10.5	5.4	8.8	8.5	8.3
Lighting	11.8	14.8	9.7	12.4	8.2	5.9	10.3	7.6	6.3
Office Equipment	16.4	18.3	16.3	20.3	14.4	12.3	15.0	8.1	6.5

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

RSEs for Table C10. Consumption and Gross Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Sum of Major Fuel Consumption					RSEs for Total Floorspace of Buildings					RSEs for Energy Intensity for Sum of Major Fuels				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	11.8	9.5	17.3	13.6	11.7	10.9	9.1	15.3	11.1	10.1	6.3	4.4	6.4	8.8	8.0
Building Floorspace (Square Feet)															
1,001 to 5,000	14.5	11.8	19.8	14.5	16.5	13.0	14.9	32.1	15.9	11.0	9.9	8.6	13.5	9.7	12.3
5,001 to 10,000	21.0	12.2	14.1	14.6	24.0	18.3	15.7	17.6	12.5	15.8	10.3	9.6	11.7	12.9	16.0
10,001 to 25,000	15.6	10.3	29.7	18.2	11.6	16.1	11.0	21.9	16.8	17.2	10.1	7.8	19.9	15.2	15.5
25,001 to 50,000	11.9	12.5	22.8	16.0	16.9	7.8	10.3	19.5	13.8	17.8	8.7	9.7	16.5	12.8	13.0
50,001 to 100,000	23.7	15.1	20.8	19.7	19.2	18.8	12.7	18.9	16.3	15.8	11.1	12.1	12.2	8.4	12.4
100,001 to 200,000	17.3	20.6	26.4	36.9	35.3	17.6	15.9	27.4	25.0	19.5	6.6	10.9	13.2	19.9	22.3
200,001 to 500,000	24.5	25.3	22.9	17.0	17.9	24.5	26.2	23.5	19.8	19.0	13.1	6.3	13.3	14.8	12.5
Over 500,000	34.4	23.8	26.9	25.6	47.1	24.9	18.9	34.1	16.6	41.9	32.4	15.6	26.6	20.7	12.7
Principal Building Activity															
Education	18.3	12.0	28.2	20.4	22.3	14.9	9.6	25.0	17.1	10.7	6.5	4.9	14.3	10.8	18.3
Food Sales	32.0	21.8	46.5	18.8	34.9	26.8	22.2	36.4	17.7	33.6	12.5	10.2	16.8	7.7	20.1
Food Service	23.1	16.7	16.2	22.4	19.2	34.5	17.0	34.2	21.2	27.8	28.3	7.6	26.2	10.0	20.7
Health Care	18.6	18.4	27.7	26.3	21.5	14.5	12.5	20.3	17.3	20.2	7.3	12.5	13.9	11.8	11.1
Inpatient	21.5	20.9	30.0	30.2	22.6	17.1	16.3	24.7	31.8	24.0	8.5	10.3	11.4	6.4	6.5
Outpatient	21.5	28.5	21.8	31.9	35.5	17.3	21.4	22.6	27.3	28.1	12.1	15.6	18.1	25.0	31.8
Lodging	19.0	22.3	27.7	18.5	31.7	17.0	15.3	33.7	15.4	32.9	7.1	16.0	15.8	11.8	12.1
Retail (Other Than Mall)	32.8	15.4	29.9	20.9	28.7	22.9	16.4	26.4	18.5	21.0	15.1	9.3	12.3	5.0	19.7
Office	17.9	13.2	19.1	15.5	28.9	15.4	11.7	19.2	16.7	21.4	8.8	4.1	6.0	6.1	8.1
Public Assembly	30.3	18.1	23.1	32.8	30.7	20.8	14.6	34.3	20.5	25.0	14.3	15.6	30.6	19.0	21.7
Public Order and Safety	24.1	50.9	41.7	66.4	30.0	29.4	40.8	39.9	57.9	25.2	9.9	19.8	13.6	12.3	14.1
Religious Worship	24.3	13.4	29.0	23.8	20.8	20.8	13.2	27.9	19.8	19.4	6.1	6.4	9.2	12.1	6.7
Service	25.9	21.0	43.2	28.6	46.0	22.9	20.2	29.2	24.6	30.7	10.7	11.2	26.0	11.7	22.9
Warehouse and Storage	35.0	44.2	30.1	24.8	24.7	26.6	23.1	16.3	23.8	34.4	25.2	21.6	26.4	11.7	15.6
Other	26.6	35.4	47.8	75.5	54.3	26.6	33.6	49.1	52.9	38.7	11.7	24.7	28.3	67.4	30.9
Vacant	37.2	34.2	45.1	36.1	47.7	33.5	32.2	33.3	40.7	31.5	31.9	25.2	28.2	38.4	61.3
Year Constructed															
Before 1920	17.4	13.5	43.9	27.4	84.5	22.0	18.0	38.4	22.6	65.0	8.6	10.4	25.6	20.1	17.7
1920 to 1945	23.1	36.0	26.5	24.2	37.4	24.4	23.8	25.9	22.0	35.1	20.2	15.9	11.4	13.2	19.5
1946 to 1959	19.6	16.7	22.0	23.8	32.3	18.1	14.4	22.7	13.9	30.1	9.9	9.1	13.1	26.5	18.6
1960 to 1969	20.8	17.6	21.1	25.6	19.9	16.0	16.6	17.5	17.0	21.3	9.5	12.7	13.7	16.4	14.6
1970 to 1979	17.3	16.6	27.9	17.7	23.5	17.1	17.6	23.0	15.6	19.5	8.2	11.7	14.5	11.0	12.3
1980 to 1989	20.8	18.3	25.4	25.9	20.1	19.2	11.8	21.1	15.9	15.3	11.2	10.8	13.3	16.4	12.5
1990 to 1999	19.2	22.0	19.6	18.9	21.9	17.4	18.2	22.7	15.4	17.1	11.7	10.7	12.0	13.5	12.4
2000 to 2003	21.5	18.1	35.9	22.8	20.8	23.8	16.2	22.4	20.0	23.6	10.3	11.4	18.0	10.0	20.7
Census Region and Division															
Northeast	36.3	15.1	23.8	0.0	0.0	36.5	15.5	21.1	0.0	0.0	14.4	3.9	10.5	0.0	0.0
New England	37.5	22.7	0.0	0.0	0.0	59.5	23.3	0.0	0.0	0.0	14.0	9.2	0.0	0.0	0.0
Middle Atlantic	50.2	20.6	23.8	0.0	0.0	46.9	21.1	21.1	0.0	0.0	15.6	2.2	10.5	0.0	0.0
Midwest	13.0	14.0	4.2	0.0	0.0	10.2	11.8	26.5	0.0	0.0	7.7	5.4	23.3	0.0	0.0
East North Central	12.4	14.9	0.0	0.0	0.0	5.1	11.7	0.0	0.0	0.0	11.6	5.4	0.0	0.0	0.0
West North Central	26.3	51.2	4.2	0.0	0.0	20.2	50.9	26.5	0.0	0.0	11.5	3.6	23.3	0.0	0.0
South	0.0	0.0	34.2	18.1	12.5	0.0	0.0	29.1	15.8	11.5	0.0	0.0	11.4	12.2	7.9
South Atlantic	0.0	0.0	41.4	21.3	11.2	0.0	0.0	31.4	16.3	6.4	0.0	0.0	15.9	17.7	6.2
East South Central	0.0	0.0	69.6	61.8	95.4	0.0	0.0	71.6	61.0	92.8	0.0	0.0	36.2	10.9	1.6
West South Central	0.0	0.0	96.7	26.6	17.3	0.0	0.0	97.1	17.0	18.6	0.0	0.0	1.3	25.3	11.9
West	24.0	17.6	53.0	10.9	35.8	20.7	25.1	42.3	10.9	27.6	8.6	20.3	8.1	8.9	12.7
Mountain	22.0	20.8	0.0	0.0	29.7	14.0	11.6	0.0	0.0	18.6	9.9	17.6	0.0	0.0	15.6
Pacific	89.9	29.7	53.0	10.9	92.7	87.1	51.2	42.3	10.9	98.1	2.3	44.1	8.1	8.9	251.8

RSEs for Table C10. Consumption and Gross Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Sum of Major Fuel Consumption					RSEs for Total Floorspace of Buildings					RSEs for Energy Intensity for Sum of Major Fuels				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	11.8	9.5	17.3	13.6	11.7	10.9	9.1	15.3	11.1	10.1	6.3	4.4	6.4	8.8	8.0
Number of Floors															
One	16.0	18.2	18.6	13.9	12.7	12.0	14.4	22.1	14.6	13.4	7.6	8.3	11.4	7.5	9.2
Two	10.4	12.4	18.2	21.7	12.9	12.6	11.4	18.2	15.4	11.8	5.8	9.4	10.7	15.0	11.2
Three	12.4	13.9	26.6	27.5	24.3	17.4	12.0	23.5	17.5	20.3	17.6	8.1	7.8	20.4	15.4
Four to Nine	17.4	14.2	26.6	27.9	27.2	18.9	12.8	27.9	21.6	21.2	11.7	7.2	11.7	12.0	8.4
Ten or More	40.0	29.3	24.9	31.7	44.4	46.0	23.1	24.3	37.5	43.7	25.5	12.9	8.3	17.4	4.1
Elevators and Escalators (more than one may apply)															
Any Elevators	16.6	11.0	19.8	19.6	20.4	14.3	8.4	17.7	13.9	16.2	9.0	5.5	5.9	11.4	5.9
Number of Elevators															
One	17.1	14.2	21.3	25.5	13.8	14.2	12.2	19.2	18.8	13.0	6.5	9.7	12.5	14.8	9.9
Two to Five	17.1	15.5	23.4	29.1	30.9	20.0	14.9	18.8	19.0	24.9	13.3	8.2	7.8	16.8	12.2
Six or More	31.6	23.1	25.6	20.5	33.6	37.9	21.7	26.9	26.3	37.2	24.8	9.1	10.3	15.9	5.7
Any Escalators	42.8	57.7	37.9	41.6	45.1	46.0	42.2	29.4	29.4	46.6	9.8	34.0	17.0	29.4	5.7
Number of Workers (main shift)															
Fewer than 5	10.6	28.1	17.2	18.5	14.1	12.3	17.9	25.3	19.9	14.8	11.6	14.8	11.2	9.2	13.0
5 to 9	17.0	13.6	25.1	20.4	24.6	19.6	15.9	25.2	16.0	12.6	11.0	12.0	10.0	11.8	17.7
10 to 19	18.8	11.3	30.7	13.2	18.6	13.8	12.5	29.8	13.2	18.7	11.1	9.6	10.7	12.9	20.8
20 to 49	20.7	11.6	21.9	23.7	11.0	19.5	10.9	23.7	17.8	14.1	5.2	6.9	15.6	11.1	8.5
50 to 99	19.8	12.3	31.9	23.8	16.9	22.9	11.3	25.7	19.4	13.4	9.8	5.8	13.4	8.3	7.7
100 to 249	21.7	17.3	24.4	31.1	18.0	16.4	15.0	23.0	20.1	20.0	9.2	11.4	8.0	15.4	17.6
250 or More	26.9	15.0	23.7	17.3	28.5	32.4	13.5	23.4	21.0	28.5	14.9	6.0	8.2	10.4	6.7
Weekly Operating Hours															
Fewer than 40	20.2	16.2	32.4	29.1	13.6	17.7	19.0	28.0	21.4	17.4	13.6	9.2	22.9	24.7	12.1
40 to 48	18.1	16.1	20.7	20.2	22.6	13.9	11.9	20.7	17.6	18.1	11.8	10.1	10.9	13.7	14.2
49 to 60	16.9	34.0	22.6	10.6	16.8	16.3	20.0	15.6	11.7	11.9	12.1	13.4	14.4	8.0	9.8
61 to 84	10.9	11.2	21.7	18.7	17.4	13.9	11.3	21.8	16.3	14.6	12.0	7.2	5.3	10.7	12.6
85 to 167	17.4	10.4	27.8	20.4	31.7	16.3	15.1	26.0	20.1	24.1	10.9	8.4	9.2	12.0	18.7
Open Continuously	16.4	14.8	18.7	21.7	18.7	15.0	12.0	16.1	14.3	22.6	7.1	7.8	9.0	12.5	8.4
Ownership and Occupancy															
Nongovernment Owned	12.0	9.3	15.4	12.6	13.5	12.4	9.1	14.1	11.2	10.9	6.3	6.4	6.7	9.5	9.7
Owner Occupied	15.2	10.7	15.7	17.0	18.7	16.1	10.8	14.3	13.0	14.3	9.5	7.8	8.2	15.5	8.4
Nonowner Occupied	11.4	12.4	19.6	12.8	13.8	11.8	12.1	16.4	13.2	12.8	5.6	7.0	9.5	7.6	11.8
Unoccupied	50.3	36.5	67.0	43.0	43.2	34.1	32.9	37.3	47.4	34.4	40.3	27.2	60.2	45.9	69.4
Government Owned	13.6	21.4	26.9	25.3	21.4	8.8	13.1	22.3	19.0	13.6	8.2	9.3	9.7	10.6	12.7
Federal	38.0	56.7	50.2	30.9	34.9	40.1	46.9	55.1	32.1	32.8	31.6	10.5	20.0	15.3	15.6
State	33.6	24.5	31.6	35.8	59.1	29.5	20.1	32.5	30.3	50.2	14.0	11.2	11.3	12.7	14.9
Local	15.6	14.4	29.1	27.7	10.2	11.8	10.9	25.2	23.4	9.4	7.1	7.7	10.5	13.3	8.3
Vacancy Status															
Completely Vacant	47.9	37.7	51.3	43.0	42.6	36.8	33.1	32.7	46.2	32.4	31.8	26.8	40.3	45.9	63.8
Mostly Vacant	58.0	73.2	82.6	68.8	94.0	51.4	67.2	81.4	60.6	76.7	54.0	65.5	7.1	80.3	83.3
Partially Vacant	19.4	13.2	19.2	16.8	30.8	18.6	11.5	18.9	15.7	22.5	9.2	6.8	8.9	7.9	9.7
Not At All Vacant	12.8	9.7	18.1	14.7	10.0	11.0	8.5	16.1	11.8	10.5	5.7	4.7	9.1	10.0	8.7
Number of Establishments															
One	10.5	11.3	18.3	13.8	12.1	10.3	10.7	17.9	12.3	11.2	6.8	4.4	9.8	8.9	8.8
2 to 5	22.4	13.0	20.8	27.6	19.5	19.9	11.1	17.6	13.6	17.4	8.4	10.3	11.2	20.5	15.6
6 to 10	19.3	28.7	39.3	34.5	61.9	21.1	18.8	26.3	24.8	32.7	10.3	22.1	35.1	34.0	33.4
11 to 20	41.2	26.9	29.2	47.2	37.3	57.6	17.8	33.4	21.8	17.7	29.4	14.4	24.0	28.8	36.4
More than 20	60.2	24.7	19.7	42.9	30.6	20.0	30.4	41.0	22.6	25.4	62.4	28.0	39.4	42.9	15.0
Currently Unoccupied	47.9	37.7	51.3	43.0	42.6	36.8	33.1	32.7	46.2	32.4	31.8	26.8	40.3	45.9	63.8

RSEs for Table C10. Consumption and Gross Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Sum of Major Fuel Consumption					RSEs for Total Floorspace of Buildings					RSEs for Energy Intensity for Sum of Major Fuels				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	11.8	9.5	17.3	13.6	11.7	10.9	9.1	15.3	11.1	10.1	6.3	4.4	6.4	8.8	8.0
Predominant Exterior Wall Material															
Brick, Stone or Stucco	12.7	12.9	19.2	16.6	13.4	10.7	10.0	17.9	13.1	14.7	7.7	5.1	6.6	8.0	6.8
Concrete (Block or Poured)	22.8	12.7	22.5	21.5	16.1	21.1	15.6	17.1	14.0	12.0	7.4	11.9	12.4	13.6	9.4
Concrete Panels	21.2	33.3	32.2	50.8	29.8	17.5	29.5	30.6	23.4	17.8	8.4	13.7	14.0	39.9	19.6
Siding or Shingles	25.0	12.2	22.0	25.6	39.9	24.0	15.0	31.1	23.5	19.8	8.6	14.9	17.8	25.1	28.3
Metal Panels	27.8	26.7	31.5	21.8	26.9	18.7	19.3	26.9	21.5	23.8	13.9	18.1	20.6	21.6	28.2
Window Glass	72.2	50.5	37.1	28.9	33.4	69.4	43.4	36.5	32.1	27.3	16.8	35.1	13.1	31.1	13.2
Other	52.5	37.4	43.9	36.7	55.3	50.3	27.8	37.0	39.9	54.1	15.6	24.7	16.1	19.3	7.3
No One Major Type	51.6	50.4	60.0	75.8	74.0	25.9	53.4	55.0	58.9	54.6	39.6	30.1	46.9	60.4	29.2
Predominant Roof Material															
Built-Up	15.2	10.6	20.0	17.4	17.7	16.2	7.8	17.8	9.7	12.1	8.0	7.9	8.8	11.9	9.7
Shingles (Not Wood)	13.7	12.2	27.0	16.0	22.0	12.6	9.3	21.9	17.2	16.3	6.4	7.4	14.8	13.9	13.3
Metal Surfacing	20.5	16.0	23.1	23.8	24.2	16.5	21.5	28.3	21.7	26.4	11.5	9.6	11.1	11.8	14.7
Synthetic or Rubber	14.0	12.1	20.9	23.0	20.6	11.4	11.1	18.7	22.7	19.0	9.0	7.1	6.5	9.8	8.8
Slate or Tile	28.4	23.8	26.6	22.8	25.4	29.3	16.5	27.0	24.2	23.2	11.2	22.5	9.4	17.1	15.5
Wooden Materials	59.4	34.0	42.4	35.6	35.7	53.3	28.2	40.6	31.5	32.6	19.0	30.6	25.2	13.1	19.7
Concrete	63.6	77.0	80.3	35.0	46.6	67.2	72.3	83.1	30.2	41.6	18.7	3.2	16.3	21.2	11.9
Other	58.5	45.5	56.9	90.0	55.0	40.1	44.7	46.0	66.6	65.6	32.1	27.2	51.8	73.6	36.4
No One Major Type	66.6	46.7	51.0	36.6	80.2	62.6	47.6	51.7	35.1	62.4	33.5	37.6	17.3	24.7	21.2
Renovations in Buildings Constructed Before 1980 (more than one may apply)															
Any Type of Renovation Since 1980	15.0	10.6	19.8	16.7	22.0	16.0	11.4	16.6	13.2	18.3	7.7	5.8	8.3	14.7	11.6
Addition or Annex	17.7	14.3	22.6	30.2	28.1	22.8	14.8	24.8	15.3	20.6	10.6	8.4	18.8	28.7	17.2
Reduction In Floorspace	47.0	37.0	25.0	52.7	62.7	49.4	39.4	31.5	57.7	63.1	21.6	21.2	17.9	28.2	15.4
Cosmetic Improvements	14.2	13.3	17.8	15.8	24.9	12.6	14.0	16.3	16.2	20.5	6.1	7.2	7.8	10.6	12.8
Wall or Roof Replacement	15.7	17.0	16.7	17.5	32.1	12.6	15.0	17.2	21.3	24.4	9.3	10.5	8.3	12.6	10.7
Interior Wall Re-Configuration	13.9	14.3	19.0	20.0	27.1	13.4	14.6	15.6	17.1	21.8	8.6	8.2	8.5	12.7	11.2
HVAC Equipment Upgrade	12.4	12.9	19.1	19.4	30.7	10.8	14.2	16.9	12.6	28.6	6.5	8.8	6.8	17.1	8.6
Lighting Upgrade	14.7	13.6	24.7	17.2	31.3	13.5	14.6	19.5	17.8	28.4	7.1	8.6	10.3	13.2	7.8
Window Replacement	23.5	17.4	17.6	17.1	28.3	16.4	15.0	18.3	20.8	19.8	11.8	11.2	7.0	18.3	22.2
Plumbing System Upgrade	17.1	16.3	19.0	19.9	37.6	14.0	16.5	18.2	20.9	30.0	8.5	8.8	9.1	15.5	14.1
Insulation Upgrade	21.3	23.6	24.0	29.4	31.2	19.9	19.3	26.6	26.4	30.6	13.5	19.4	10.5	23.0	11.1
Other Renovation	52.0	40.9	34.1	57.6	0.0	49.9	36.1	40.3	65.8	0.0	11.7	28.9	22.8	50.4	0.0
No Renovations Since 1980	13.4	18.6	23.3	15.3	18.9	13.5	13.8	20.5	12.6	16.8	5.7	8.0	9.1	11.6	9.3
Building Newer than 1980	16.5	13.3	19.2	16.5	15.3	15.6	11.5	17.5	13.5	15.7	9.0	6.6	9.5	9.9	10.9
Energy Sources (more than one may apply)															
Electricity	12.3	12.0	18.6	13.4	13.2	11.2	11.7	16.6	11.0	8.5	6.2	5.0	6.5	7.0	6.7
Natural Gas	13.5	7.7	19.6	17.6	22.2	12.1	7.5	16.9	13.3	22.0	4.8	6.6	6.2	8.1	5.6
Fuel Oil	23.5	17.0	26.5	18.1	30.1	21.4	14.5	25.2	13.9	29.9	14.6	9.5	6.3	13.6	7.3
District Heat	26.4	32.5	27.3	33.5	40.3	22.1	32.7	28.0	28.4	41.1	22.0	5.5	11.1	12.4	8.8
District Chilled Water	45.1	24.5	29.4	31.5	36.3	39.2	23.0	28.9	27.8	32.5	12.3	5.3	15.7	12.3	10.0
Propane	30.0	48.6	37.2	23.2	23.3	30.2	37.4	39.5	16.0	22.1	14.0	11.7	24.9	26.6	17.2
Other	39.7	33.0	28.3	43.7	54.2	33.1	18.2	29.6	28.9	45.2	10.2	23.8	18.5	30.5	57.6

RSEs for Table C10. Consumption and Gross Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Sum of Major Fuel Consumption					RSEs for Total Floorspace of Buildings					RSEs for Energy Intensity for Sum of Major Fuels				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	11.8	9.5	17.3	13.6	11.7	10.9	9.1	15.3	11.1	10.1	6.3	4.4	6.4	8.8	8.0
Space-Heating Energy Sources (more than one may apply)															
Electricity	13.9	15.0	18.4	12.3	12.1	12.9	12.3	17.5	15.1	12.9	7.9	7.9	7.5	12.2	8.6
Natural Gas	13.9	7.9	20.1	16.2	19.2	12.9	7.4	18.3	13.3	19.1	3.9	5.9	4.6	7.1	6.1
Fuel Oil	21.3	22.1	32.4	26.5	52.9	24.9	29.4	37.5	27.3	52.6	7.6	11.0	18.8	21.5	16.8
District Heat	25.6	32.8	27.4	34.4	42.7	21.6	33.2	29.0	29.5	46.1	22.1	5.6	11.3	10.8	8.7
Propane	25.2	34.4	60.4	49.4	26.7	36.4	32.0	55.2	19.4	15.2	31.0	20.2	16.4	47.8	23.1
Other	50.4	33.8	49.9	85.2	86.9	38.7	32.6	47.3	45.7	86.9	16.0	12.6	20.4	55.3	0.0
Primary Space-Heating Energy Source															
Electricity	14.4	21.5	21.1	14.4	10.7	16.4	19.9	21.0	20.1	13.3	8.4	9.2	5.7	9.5	9.2
Natural Gas	13.7	7.9	20.5	15.7	20.4	12.7	7.6	18.3	14.0	20.4	4.3	6.4	5.1	7.8	5.8
Fuel Oil	37.3	23.4	43.1	34.2	100.2	38.7	35.1	47.8	38.0	100.2	9.7	12.9	11.3	22.5	.
District Heat	26.3	34.0	26.9	35.2	47.0	20.1	34.9	29.1	30.3	51.1	21.3	5.5	11.4	10.9	8.3
Propane	23.1	36.5	60.3	60.8	65.6	42.3	34.9	55.9	31.0	58.1	20.2	19.4	13.2	55.5	27.7
Other	68.4	49.0	73.6	54.0	0.0	46.7	36.9	56.3	49.2	0.0	49.2	16.0	34.9	22.2	0.0
Cooling Energy Sources (more than one may apply)															
Electricity	13.0	7.7	17.6	13.0	11.6	11.5	8.0	15.6	10.3	10.2	4.4	3.8	5.9	9.2	7.2
Natural Gas	37.6	26.7	50.3	54.3	44.7	51.2	27.8	36.1	54.5	44.9	44.8	15.7	32.0	84.6	14.1
District Chilled Water	45.1	24.5	29.4	31.5	36.3	39.2	23.0	28.9	27.8	32.5	12.3	5.3	15.7	12.3	10.0
Water-Heating Energy Sources (more than one may apply)															
Electricity	12.6	11.6	17.7	16.7	13.0	15.3	12.8	15.9	16.2	11.8	8.8	7.2	9.0	13.5	8.7
Natural Gas	14.6	9.3	19.4	16.1	18.6	13.7	7.5	19.4	11.6	18.8	3.2	5.5	7.6	6.7	5.6
Fuel Oil	40.5	18.9	28.9	42.4	64.7	29.7	22.9	40.0	48.1	70.5	10.8	8.2	20.4	18.5	52.5
District Heat	32.4	24.8	29.5	44.9	31.8	22.0	28.0	30.3	35.9	38.6	14.0	9.2	10.3	21.4	21.7
Propane	41.5	44.9	60.7	64.3	66.7	37.1	43.2	54.7	38.8	55.7	13.8	25.2	13.1	57.4	29.1
Cooking Energy Sources (more than one may apply)															
Electricity	15.8	14.3	18.9	18.4	21.3	15.1	11.2	19.7	20.2	20.8	5.9	7.3	4.5	10.5	5.5
Natural Gas	19.0	11.0	23.0	18.3	17.6	17.7	10.2	26.0	15.6	18.4	5.9	4.4	15.3	7.5	6.4
Propane	43.1	23.6	50.0	41.7	41.2	39.3	25.1	47.7	28.7	42.3	4.8	14.2	20.7	28.2	11.9
Energy End Uses (more than one may apply)															
Buildings with Space Heating	11.9	9.6	17.4	13.9	12.2	10.6	9.0	15.3	11.0	10.5	5.8	4.1	5.9	8.6	7.3
Buildings with Cooling	13.0	7.5	17.1	13.8	11.7	11.3	7.7	15.4	10.8	10.3	4.8	3.4	5.5	8.6	7.4
Buildings with Water Heating	11.9	7.6	17.2	13.9	12.4	10.5	7.9	15.3	11.0	10.4	5.4	4.4	6.0	8.4	6.1
Buildings with Cooking	16.4	10.8	21.2	16.4	17.1	13.4	9.4	22.4	15.3	17.8	5.3	4.3	11.4	8.5	5.0
Buildings with Manufacturing	40.1	27.1	32.3	29.4	36.1	36.8	29.5	21.6	28.3	39.2	29.7	21.4	21.6	24.7	34.3
Buildings with Electricity Generation	23.0	13.9	19.4	17.4	20.8	19.1	11.2	20.3	17.4	18.4	10.0	5.3	8.1	9.7	5.9
Percent of Floorspace Heated															
Not Heated	45.4	41.6	33.3	35.3	31.2	23.8	14.1	45.3	15.7	14.8	57.1	42.5	63.7	31.9	27.7
1 to 50	30.0	28.7	32.3	23.1	23.4	28.1	25.0	29.7	14.8	33.6	18.0	14.1	10.8	27.0	15.2
51 to 99	19.8	13.8	28.3	14.2	18.7	20.2	15.2	25.4	15.0	17.4	9.0	11.4	13.0	7.2	12.5
100	13.3	10.4	17.7	16.5	13.9	10.1	9.8	16.8	12.8	12.9	5.5	4.6	7.6	8.0	5.0

RSEs for Table C10. Consumption and Gross Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Sum of Major Fuel Consumption					RSEs for Total Floorspace of Buildings					RSEs for Energy Intensity for Sum of Major Fuels				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	11.8	9.5	17.3	13.6	11.7	10.9	9.1	15.3	11.1	10.1	6.3	4.4	6.4	8.8	8.0
Percent of Floorspace Cooled															
Not Cooled	17.6	42.5	40.7	18.5	13.2	18.1	17.3	36.5	16.6	17.3	19.4	28.2	45.4	20.1	18.4
1 to 50	19.2	12.4	20.4	16.5	23.5	16.5	13.8	15.0	16.8	28.1	5.9	6.2	11.0	12.3	21.8
51 to 99	15.7	13.4	18.7	16.6	15.8	16.0	12.7	19.7	14.9	18.0	8.4	7.5	9.8	7.3	9.1
100	17.4	8.9	20.8	17.5	13.7	13.5	8.3	19.0	13.3	12.1	6.1	4.2	6.6	10.7	5.1
Percent Lit When Open															
Zero	83.9	99.4	69.6	82.1	73.5	60.3	54.8	84.2	60.6	44.1	80.9	106.4	193.4	142.8	78.1
1 to 50	10.6	17.6	21.0	21.1	19.6	20.0	16.7	17.6	13.7	28.1	14.1	9.4	10.4	13.5	15.5
51 to 99	12.7	11.3	18.5	13.8	21.1	13.0	10.3	16.4	13.8	13.8	7.4	4.1	8.4	8.0	10.5
100	13.7	12.1	19.5	16.0	11.9	10.9	10.1	17.1	11.8	10.6	4.9	4.8	7.3	10.5	5.4
Building Never Open/ Electricity Not Used	41.6	29.5	51.3	41.7	35.6	25.3	28.3	28.1	31.9	25.9	30.4	20.6	47.0	38.6	44.2
Percent Lit When Closed															
Zero	11.4	19.9	15.8	13.3	25.3	11.6	14.4	15.6	14.3	14.9	9.2	10.5	7.8	10.5	23.4
1 to 50	14.8	8.1	20.6	15.2	12.4	13.2	8.4	18.2	11.5	10.2	6.3	5.4	8.1	7.7	5.8
51 to 100	36.2	55.3	26.7	26.8	29.4	32.1	46.0	24.1	29.0	19.1	20.7	13.2	7.3	16.3	17.8
Building Never Closed/ Electricity Not Used	16.4	14.8	18.7	21.7	18.7	14.8	12.3	16.0	14.2	17.9	6.4	8.4	9.0	14.5	9.2
Heating Equipment (more than one may apply)															
Heat Pumps	26.3	28.7	26.5	19.1	11.3	28.7	21.8	24.2	16.2	16.6	13.5	20.8	10.7	24.0	10.0
Packaged Heat Pumps	25.5	39.1	30.9	32.8	11.2	23.4	25.4	27.4	10.4	14.4	14.5	27.5	9.7	33.1	13.1
Split-System Heat Pumps	42.3	28.4	42.5	25.0	32.7	50.3	29.3	32.3	35.3	21.0	23.0	13.7	25.5	28.0	18.5
Individual Room Heat Pumps	39.8	33.0	32.3	20.5	50.9	40.0	27.5	32.7	20.6	37.5	9.6	23.0	11.8	11.8	33.5
Furnaces	12.6	10.6	16.5	19.9	18.3	13.2	10.5	16.0	16.3	16.6	6.5	6.7	11.3	11.1	11.4
Individual Space Heaters	15.3	15.6	23.2	18.1	28.0	14.2	14.6	19.0	19.3	21.5	10.4	10.3	12.2	12.0	9.9
District Heat	23.7	32.8	27.8	34.4	42.7	20.7	33.2	29.5	29.5	46.1	22.2	5.6	11.3	10.8	8.7
Boilers	13.9	10.3	24.0	20.2	21.6	12.7	8.0	24.5	17.9	20.7	4.4	6.2	10.9	10.3	7.0
Packaged Heating Units	18.5	13.2	18.0	14.4	16.2	16.2	13.7	17.6	12.3	13.4	8.3	9.9	7.2	10.0	9.4
Other	24.2	21.8	29.0	18.4	30.1	23.1	24.2	29.2	33.6	27.2	7.7	11.9	11.6	34.0	15.2
Cooling Equipment (more than one may apply)															
Residential-Type Central Air Conditioners	12.3	13.1	20.8	27.9	19.7	15.6	11.4	19.6	18.4	22.3	7.4	10.2	13.8	19.3	16.5
Heat Pumps	26.3	28.1	25.0	14.9	13.6	28.8	21.7	23.5	17.8	19.1	11.4	20.1	10.1	20.2	11.1
Packaged Heat Pumps	25.2	38.0	28.5	35.3	12.3	24.7	25.9	26.4	10.7	18.6	13.4	26.3	8.3	34.2	15.0
Split-System Heat Pumps	46.1	27.3	41.9	25.5	33.6	48.6	27.1	31.6	35.6	23.0	34.9	12.4	25.1	25.5	16.3
Individual Room Heat Pumps	38.2	32.8	30.7	26.4	45.8	37.8	26.7	29.3	24.2	35.5	9.0	23.1	11.2	10.4	24.6
Individual Air Conditioners	14.4	12.7	25.4	17.9	22.9	13.3	11.2	25.5	14.7	20.4	3.8	5.9	7.8	17.2	12.4
District Chilled Water	45.1	24.5	29.4	31.5	36.3	39.2	23.0	28.9	27.8	32.5	12.3	5.3	15.7	12.3	10.0
Central Chillers	20.5	14.6	25.6	25.1	18.6	18.6	12.5	24.4	21.6	17.0	8.8	6.1	7.5	15.3	3.9
Packaged Air Conditioning Units	14.0	9.4	17.8	13.9	17.2	12.4	10.3	16.1	12.5	13.3	5.6	6.4	6.9	6.9	8.0
Swamp Coolers	24.9	37.0	46.0	23.3	52.9	26.1	35.6	48.7	27.0	55.7	9.0	13.4	23.0	37.9	12.0
Other	41.9	32.7	41.7	72.6	32.1	46.5	29.1	36.8	60.7	35.9	22.3	15.3	13.5	31.4	14.6
Main Equipment Replaced Since 1990 (more than one may apply)															
Heating	13.5	13.2	20.6	13.5	23.9	14.6	10.8	18.3	13.3	18.7	10.7	8.9	9.2	14.2	8.8
Cooling	14.5	12.1	19.7	12.8	18.8	12.6	10.9	16.7	11.7	14.9	6.6	6.4	6.1	11.8	8.5

RSEs for Table C10. Consumption and Gross Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Sum of Major Fuel Consumption					RSEs for Total Floorspace of Buildings					RSEs for Energy Intensity for Sum of Major Fuels				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	11.8	9.5	17.3	13.6	11.7	10.9	9.1	15.3	11.1	10.1	6.3	4.4	6.4	8.8	8.0
Water Heating Equipment															
Centralized System	12.5	8.4	17.1	14.5	17.6	10.1	7.4	15.3	12.3	14.8	4.6	5.6	6.3	6.5	8.5
Distributed System	18.1	22.9	26.5	19.3	12.1	21.7	20.5	26.5	14.8	9.6	15.6	12.5	13.7	12.1	8.0
Combination of Centralized and Distributed System	17.6	16.4	25.9	23.8	27.8	16.5	10.8	22.9	14.6	22.0	4.5	9.6	11.1	17.7	6.9
Lighting Equipment Types (more than one may apply)															
Incandescent	11.0	8.7	18.1	16.5	14.7	10.9	7.8	17.1	12.8	13.2	7.1	5.0	6.9	11.4	5.9
Standard Fluorescent	12.4	9.8	17.3	13.4	12.1	11.1	8.7	15.5	10.6	10.7	5.1	4.3	5.8	8.3	7.9
Compact Fluorescent	14.9	11.3	18.9	15.6	16.6	12.7	9.8	17.1	11.2	16.1	5.9	5.6	6.0	9.5	5.9
High Intensity Discharge	13.2	15.4	21.0	16.3	18.6	12.8	13.0	18.1	11.1	13.2	9.0	6.6	5.9	16.1	11.0
Halogen	16.6	10.7	18.6	21.1	11.3	15.9	10.2	16.7	13.5	14.8	4.5	4.5	7.3	14.6	7.9
Other	71.9	60.4	100.4	100.3	49.0	75.4	45.9	100.4	100.3	51.8	40.7	32.6	.	.	23.5
Refrigeration Equipment (more than one may apply)[b]															
Any Refrigeration	12.8	7.4	17.5	14.8	12.2	11.3	7.8	15.8	11.1	10.5	5.7	4.5	6.0	8.2	6.7
Commercial Refrigeration	15.2	10.6	19.6	16.6	14.5	12.9	10.2	18.7	13.9	13.5	6.0	4.7	8.3	9.3	5.5
Walk-In Units	13.7	11.4	20.6	17.4	14.5	13.1	9.5	22.2	14.0	14.0	5.8	5.7	12.9	9.2	5.7
Cases or Cabinets	17.6	11.6	21.8	17.5	15.8	15.1	11.9	19.2	14.6	15.3	5.9	5.7	7.0	10.7	5.8
Residential-Type Units	11.2	9.7	17.3	12.7	15.2	11.1	9.3	15.6	11.1	12.1	5.0	5.0	6.0	10.1	7.6
Vending Machines	13.6	9.5	18.9	16.5	13.9	11.5	9.7	16.7	12.3	12.9	6.7	4.5	6.9	7.9	7.9
No Refrigeration	19.4	36.4	25.5	11.8	17.9	15.9	19.2	20.5	16.5	17.0	13.8	18.7	18.4	11.5	15.1
Office Equipment (more than one may apply)															
Computers	12.9	8.9	17.5	13.5	12.5	11.4	8.0	15.6	10.2	10.9	5.3	4.1	5.8	7.4	7.7
With Flat Screen Monitors	18.3	11.0	19.7	14.8	18.8	14.1	8.4	16.7	12.0	15.9	6.2	6.0	5.8	7.4	5.4
Dedicated Servers	15.2	9.7	18.9	14.7	15.6	13.9	8.1	16.2	10.7	13.1	5.8	4.1	5.9	8.9	8.5
Laser Printers	14.7	7.0	19.4	12.3	15.0	13.2	6.5	17.2	12.7	12.7	5.3	5.2	7.4	7.7	8.7
Inkjet Printers	17.9	10.0	18.5	15.5	16.5	15.5	10.2	16.6	10.7	13.1	5.0	4.3	6.4	9.2	8.9
FAX Machines	13.1	8.3	17.3	14.2	12.4	12.1	7.7	15.4	10.6	11.6	5.0	4.0	5.5	8.6	7.7
Photocopiers	13.2	8.9	18.0	15.3	12.6	11.7	7.8	15.7	11.0	11.2	5.4	3.6	6.4	8.5	8.0
Number of Computers															
None	13.4	22.9	20.7	27.1	19.0	16.3	19.1	26.7	19.5	16.3	13.0	8.7	18.0	28.6	17.2
1 to 4	13.7	20.9	20.8	15.7	16.4	15.1	15.0	24.2	13.6	15.2	12.1	11.8	11.7	11.9	11.9
5 to 9	16.1	11.2	23.9	19.1	23.1	19.5	13.5	21.5	15.9	19.0	12.6	9.1	17.9	9.9	18.7
10 to 19	13.2	14.0	33.1	19.8	19.7	13.3	14.0	27.0	20.6	17.5	9.8	6.5	18.6	10.5	20.7
20 to 49	25.5	12.6	25.8	21.0	20.8	23.7	13.9	23.5	16.0	23.1	7.7	8.0	12.4	11.8	12.4
50 to 99	26.2	13.2	28.4	37.5	18.5	23.2	11.1	31.6	22.3	17.0	7.7	12.3	8.6	26.5	9.1
100 to 249	21.3	17.1	30.4	20.0	21.3	16.7	15.4	23.1	19.3	16.7	7.9	11.4	14.0	12.7	9.0
250 or More	21.7	16.7	22.7	19.7	29.7	19.5	15.1	22.4	19.3	27.6	10.8	7.2	8.0	8.7	8.0
Number of Dedicated Servers															
None	10.7	12.3	15.9	15.3	11.6	10.7	12.4	20.6	13.3	11.6	7.7	6.2	9.0	10.2	9.2
1 to 4	13.9	7.5	20.0	19.6	13.2	12.9	8.2	17.7	12.5	15.1	4.0	4.1	9.0	13.1	10.2
5 to 9	29.2	18.3	36.4	31.1	31.4	45.8	14.7	31.7	26.4	24.4	25.7	8.7	11.9	19.9	16.2
10 to 19	28.1	25.1	41.8	14.3	53.0	25.8	22.2	35.7	16.6	42.2	13.8	14.0	12.0	13.9	13.1
20 to 49	34.8	26.6	33.7	37.1	41.9	38.0	22.6	31.2	36.1	40.9	27.1	10.9	13.7	14.8	9.4
50 or More	53.2	39.9	28.1	33.6	53.1	42.9	44.6	30.0	45.3	47.4	18.1	16.1	10.6	40.1	10.7

RSEs for Table C10. Consumption and Gross Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Sum of Major Fuel Consumption					RSEs for Total Floorspace of Buildings					RSEs for Energy Intensity for Sum of Major Fuels				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	11.8	9.5	17.3	13.6	11.7	10.9	9.1	15.3	11.1	10.1	6.3	4.4	6.4	8.8	8.0
Number of Photocopiers															
None	12.6	16.7	18.8	13.4	16.3	16.3	16.3	22.6	15.4	14.7	9.5	8.6	9.3	11.9	9.5
One	11.5	9.5	19.9	16.9	19.2	15.0	10.0	20.4	16.0	17.6	6.4	3.9	13.2	8.4	12.5
2 to 4	17.2	10.9	22.1	22.8	9.9	14.3	9.5	18.5	14.5	12.7	5.7	6.9	11.1	13.9	11.3
5 to 9	22.6	19.9	30.1	22.8	43.9	18.7	13.3	29.6	17.5	28.1	11.3	13.0	13.0	10.8	15.0
10 or More	20.5	16.6	23.0	17.8	26.8	19.7	14.5	23.3	15.3	26.7	6.5	7.4	7.8	12.8	5.4
Energy-Related Space Functions (more than one may apply)															
Commercial Food Preparation	16.4	10.8	21.2	16.4	17.1	13.4	9.4	22.4	15.3	17.8	5.3	4.3	11.4	8.5	5.0
Activities with Large Amounts of Hot Water	14.5	11.8	20.5	19.5	17.2	10.9	10.5	23.0	14.1	17.4	6.8	6.2	15.1	11.1	5.4
Separate Computer Area	17.2	11.5	21.2	17.1	19.5	14.9	9.2	18.3	11.4	16.1	4.7	5.4	6.6	9.8	8.4
HVAC Conservation Features (more than one may apply)															
Variable Air-Volume System	20.9	12.0	21.6	19.5	19.7	15.6	8.6	19.6	15.0	17.6	8.6	7.1	6.8	9.2	7.4
Economizer Cycle	15.5	11.3	22.6	19.2	21.8	12.1	10.1	20.4	13.9	19.0	5.6	6.0	6.6	10.8	9.0
HVAC Maintenance	12.6	10.6	18.2	15.1	12.3	10.8	9.8	16.0	10.8	11.2	5.2	4.0	5.2	8.3	6.9
Energy Management and Control System (EMCS)	24.2	12.7	22.3	20.2	20.9	17.1	9.0	20.6	17.2	19.9	9.2	7.1	7.8	8.1	7.5
Window and Interior Lighting Features (more than one may apply)															
Multipaned Windows	13.8	8.8	17.4	17.3	14.9	11.9	8.0	16.1	13.0	13.8	6.9	4.9	6.6	10.8	8.5
Tinted Window Glass	18.9	14.4	19.7	13.3	15.6	15.1	11.9	18.2	9.7	11.7	8.2	6.4	6.0	10.7	10.6
Reflective Window Glass	18.6	14.0	22.7	23.3	14.7	18.5	13.3	16.9	12.7	16.7	5.8	9.4	11.2	16.6	7.3
External Overhangs or Awnings	14.3	14.2	17.1	19.5	24.2	9.6	14.7	19.4	11.6	20.6	9.1	7.1	10.3	14.8	8.0
Skylights or Atriums	18.6	17.6	16.9	19.5	19.0	18.0	13.0	14.6	16.8	18.2	6.3	9.9	7.6	10.4	11.4
Daylighting Sensors	38.3	34.0	38.0	28.9	25.8	30.5	21.2	25.1	30.3	27.2	12.8	19.9	21.9	23.2	19.2
Specular Reflectors	15.5	15.7	18.3	17.4	13.4	15.4	11.1	16.2	10.7	16.5	6.1	6.0	6.1	10.6	6.6
Electronic Ballasts	12.7	11.8	18.0	14.1	13.6	11.5	9.7	15.9	10.9	12.0	5.2	4.1	6.3	8.2	8.0
Energy Management and Control System (EMCS) For Lighting	38.2	15.9	26.6	27.1	35.4	31.3	17.4	21.2	29.9	29.4	15.4	9.8	15.9	15.9	11.0
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[b]															
Heating	14.7	8.7	16.9	14.7	15.5	10.8	9.5	14.8	12.1	11.5	7.2	5.2	6.6	6.2	7.7
Cooling	15.1	9.1	17.2	14.6	13.9	11.7	8.3	15.4	11.7	11.3	7.2	4.0	6.2	7.0	7.3
Lighting	11.5	12.2	17.2	13.4	11.4	10.5	10.1	15.9	11.6	10.6	6.2	5.5	6.8	7.8	9.5
Office Equipment	12.6	20.4	17.9	19.4	14.6	10.4	12.0	17.1	13.4	15.9	7.3	12.2	9.9	9.2	12.6

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

RSEs for Table C11. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	4.8	4.4	8.7	4.5	3.7	7.1	4.0	3.7	4.0
Principal Building Activity									
Education	21.7	10.0	14.6	11.0	9.1	9.7	13.1	5.6	7.6
Food Sales	12.1	19.7	18.3	11.7	18.6	18.2	8.0	10.2	25.3
Food Service	8.9	19.8	100.0	7.9	17.1	100.0	7.3	11.3	0.0
Health Care	22.8	13.5	12.3	14.6	12.3	12.3	14.6	11.9	5.3
Inpatient	0.0	28.0	12.5	0.0	24.6	12.6	0.0	8.5	5.4
Outpatient	22.8	15.6	38.4	14.6	15.5	35.6	14.6	13.8	26.8
Lodging	27.0	8.8	18.9	21.9	8.7	17.4	17.1	5.5	11.8
Retail (Other Than Mall)	18.7	14.4	23.9	10.6	12.2	21.9	14.1	10.2	6.6
Office	8.5	10.0	12.9	7.2	8.1	12.6	5.0	4.5	5.2
Public Assembly	21.1	14.2	24.7	12.4	11.9	29.7	18.3	9.8	24.0
Public Order and Safety	24.8	26.7	40.6	21.8	25.7	34.9	14.0	7.6	13.2
Religious Worship	12.4	11.7	32.5	10.0	10.2	34.8	9.2	6.4	14.1
Service	16.4	19.4	57.3	9.6	15.7	46.4	11.3	8.2	35.0
Warehouse and Storage	17.5	16.1	36.8	10.3	13.6	19.5	14.4	13.8	21.3
Other	20.5	33.9	37.6	19.3	24.2	35.7	17.0	25.8	26.6
Vacant	30.9	30.7	37.8	15.2	20.9	31.3	29.7	30.5	27.4
Year Constructed									
Before 1920	15.8	19.6	28.9	13.7	15.5	28.9	12.4	11.5	15.2
1920 to 1945	11.2	15.5	32.1	8.9	13.1	22.9	8.0	9.7	15.4
1946 to 1959	12.0	9.7	21.2	10.8	9.4	19.6	8.5	6.5	13.7
1960 to 1969	14.5	11.6	11.9	9.0	9.3	10.8	11.8	10.1	7.3
1970 to 1979	12.7	9.1	14.0	8.6	7.7	15.7	9.6	5.9	9.3
1980 to 1989	10.3	11.5	17.1	8.4	9.3	12.4	8.7	9.3	9.5
1990 to 1999	12.4	9.1	14.2	9.4	8.4	10.1	10.5	7.0	8.8
2000 to 2003	18.2	11.7	19.5	14.1	10.2	13.8	13.8	10.2	13.0
Census Region and Division									
Northeast	10.2	10.2	14.1	10.5	9.2	15.2	5.7	8.2	9.6
New England	26.6	20.6	37.2	22.4	21.7	34.9	7.7	22.6	33.2
Middle Atlantic	10.2	11.7	15.2	12.2	10.3	16.7	7.5	7.0	9.7
Midwest	10.0	7.8	19.4	11.6	5.5	17.7	9.1	6.0	5.7
East North Central	14.7	6.9	22.3	16.4	7.2	21.2	11.0	6.5	6.3
West North Central	10.1	19.3	25.1	18.9	8.8	23.2	10.0	13.1	7.1
South	8.0	7.4	16.3	7.9	7.4	11.7	6.4	7.8	7.4
South Atlantic	9.7	11.1	22.9	11.6	10.4	14.1	10.4	10.1	11.6
East South Central	24.0	19.3	26.5	25.3	10.3	26.1	6.4	18.3	13.7
West South Central	16.5	12.0	28.7	12.4	16.7	22.8	8.9	13.7	9.6
West	11.8	9.2	16.6	9.9	6.5	9.6	10.5	4.9	9.4
Mountain	22.8	17.4	31.8	17.5	12.0	27.6	10.7	6.4	9.4
Pacific	13.3	8.5	15.9	12.1	7.2	6.9	15.4	5.3	12.4
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	15.0	12.3	16.6	10.9	10.8	17.2	9.4	7.8	11.2
5,500-7,000 HDD	10.5	8.3	18.2	14.3	8.6	16.9	7.5	5.9	5.2
4,000-5,499 HDD	14.6	19.2	22.6	24.3	16.8	21.3	11.7	8.4	9.0
Fewer than 4,000 HDD	11.8	15.4	20.4	13.6	13.9	11.7	8.9	9.0	12.5
2,000 CDD or More and --									
Fewer than 4,000 HDD	15.4	12.1	22.8	11.0	14.0	18.4	9.2	10.7	9.0

RSEs for Table C11. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	4.8	4.4	8.7	4.5	3.7	7.1	4.0	3.7	4.0
Number of Floors									
One	5.2	5.7	30.8	5.0	5.8	18.5	4.6	5.3	14.8
Two	10.0	8.1	16.0	7.5	6.3	14.1	7.5	5.2	10.0
Three	14.5	7.8	20.0	10.6	7.4	15.8	9.9	6.4	12.3
Four to Nine	28.3	12.1	11.4	25.4	10.6	11.5	24.6	7.8	6.1
Ten or More	0.0	48.1	15.5	0.0	37.0	15.3	0.0	27.0	6.6
Elevators and Escalators (more than one may apply)									
Any Elevators	32.8	6.8	8.7	24.5	4.9	7.4	18.3	4.5	4.1
Number of Elevators									
One	32.8	8.5	13.6	24.5	6.5	11.7	18.3	6.3	8.2
Two to Five	0.0	10.1	12.5	0.0	9.2	10.1	0.0	5.4	6.9
Six or More	0.0	65.0	12.2	0.0	62.9	13.6	0.0	4.4	6.1
Any Escalators	98.9	56.0	22.6	98.9	45.7	18.9	0.0	27.2	11.5
Number of Workers (main shift)									
Fewer than 5	5.6	10.8	69.7	5.5	9.1	39.5	4.8	9.0	27.4
5 to 9	9.2	10.7	49.0	8.1	8.6	34.3	6.9	7.6	34.1
10 to 19	11.4	6.8	45.2	7.9	6.9	38.6	8.2	6.0	18.6
20 to 49	14.8	8.1	23.5	11.4	6.1	24.4	10.1	5.4	8.4
50 to 99	35.5	8.9	12.8	32.3	7.4	12.9	24.1	4.8	7.3
100 to 249	82.5	12.9	15.3	68.7	9.4	10.1	46.9	7.5	8.9
250 or More	0.0	20.5	9.9	0.0	19.8	9.7	0.0	7.6	4.1
Weekly Operating Hours									
Fewer than 40	14.8	11.4	30.5	9.2	12.8	27.5	10.0	9.5	23.2
40 to 48	8.6	9.0	23.3	6.2	7.1	22.6	7.6	6.4	13.4
49 to 60	7.2	9.4	30.7	7.9	6.3	17.3	6.1	7.0	15.0
61 to 84	11.4	7.4	15.7	8.3	6.5	14.2	9.2	5.5	8.3
85 to 167	9.1	9.9	16.9	10.8	9.9	12.6	6.8	7.1	8.8
Open Continuously	17.7	9.6	10.3	14.6	7.6	8.8	15.2	7.3	4.8
Ownership and Occupancy									
Nongovernment Owned	5.3	5.0	9.5	4.8	4.3	8.4	4.4	4.6	5.1
Owner Occupied	8.6	7.5	11.4	6.4	6.0	9.6	6.3	5.7	6.6
Nonowner Occupied	6.3	6.5	12.0	6.3	5.8	10.7	6.0	6.0	5.9
Unoccupied	35.2	42.2	48.4	16.0	25.9	39.4	34.9	44.1	34.8
Government Owned	15.8	7.9	15.2	8.1	7.6	10.0	10.7	4.6	6.6
Federal	44.3	31.1	44.7	37.7	29.7	37.9	22.8	12.3	9.8
State	43.8	16.1	22.8	25.6	13.0	22.4	26.7	9.5	7.5
Local	12.4	8.6	12.9	8.8	9.1	9.6	7.3	4.9	6.8
Vacancy Status									
Completely Vacant	35.1	37.1	40.4	15.7	24.7	33.6	35.1	39.2	29.2
Mostly Vacant	53.7	47.9	58.1	58.6	35.3	74.2	21.1	35.7	42.1
Partially Vacant	9.3	10.0	11.0	7.1	7.1	10.3	8.0	7.4	5.6
Not At All Vacant	5.3	4.4	9.8	5.0	4.2	8.1	4.3	3.9	5.0

RSEs for Table C11. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	4.8	4.4	8.7	4.5	3.7	7.1	4.0	3.7	4.0
Number of Establishments									
One	5.2	4.8	10.6	5.0	4.0	9.4	4.4	4.2	5.3
2 to 5	10.3	9.9	15.0	8.4	7.8	10.7	9.9	7.3	8.6
6 to 10	48.2	16.1	33.3	43.7	11.9	25.2	26.1	11.8	16.2
11 to 20	100.3	18.2	22.6	100.3	15.9	23.8	0.0	12.8	17.4
More than 20	70.6	26.4	15.5	74.8	22.9	15.7	44.5	10.8	9.6
Currently Unoccupied	35.1	37.1	40.4	15.7	24.7	33.6	35.1	39.2	29.2
Predominant Exterior Wall Material									
Brick, Stone or Stucco	7.0	5.2	12.5	5.5	4.7	10.0	5.2	2.9	5.8
Concrete (Block or Poured)	10.8	10.9	13.7	8.5	7.9	11.6	6.4	8.7	9.1
Concrete Panels	25.9	14.3	20.9	22.2	10.8	14.7	14.9	12.5	10.8
Siding or Shingles	12.9	13.8	43.1	10.1	16.6	40.3	10.7	10.7	44.4
Metal Panels	15.0	16.8	21.9	10.8	12.5	18.2	10.3	15.3	15.0
Window Glass	54.6	38.0	25.6	45.7	31.3	20.9	32.4	16.1	14.5
Other	41.9	28.8	26.4	33.7	26.7	23.1	29.2	14.4	15.8
No One Major Type	47.5	47.6	43.7	44.0	36.6	38.4	29.1	32.7	16.1
Predominant Roof Material									
Built-Up	9.0	6.7	10.9	7.2	4.8	8.7	7.6	5.6	5.3
Shingles (Not Wood)	8.3	9.4	24.9	6.3	7.7	19.5	7.4	6.8	17.7
Metal Surfacing	9.4	10.2	21.9	7.8	11.1	18.3	6.8	9.2	13.4
Synthetic or Rubber	12.1	8.7	9.7	10.3	6.9	8.5	8.2	5.2	6.0
Slate or Tile	15.8	17.3	33.0	16.1	14.5	33.9	14.0	12.6	7.8
Wooden Materials	25.8	29.6	36.6	22.9	21.6	40.3	20.0	21.7	22.2
Concrete	29.6	28.2	50.9	23.6	24.1	49.3	16.2	15.6	36.3
Other	61.2	31.5	76.4	52.3	29.8	60.5	33.9	20.8	45.1
No One Major Type	50.2	33.8	44.6	42.0	39.7	47.5	31.2	25.0	23.0
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	9.7	8.1	9.8	7.8	6.9	9.8	6.9	5.2	5.9
Addition or Annex	20.9	14.3	13.1	15.4	10.6	15.3	15.3	7.2	11.4
Reduction In Floorspace	65.9	31.9	28.1	57.2	28.9	30.8	11.4	16.0	11.3
Cosmetic Improvements	11.3	8.1	9.7	8.4	7.3	10.9	7.2	6.2	5.2
Wall or Roof Replacement	13.9	12.6	10.6	12.4	9.5	11.5	9.4	9.4	6.5
Interior Wall Re-Configuration	13.5	12.0	10.8	11.3	9.2	11.6	9.5	8.4	5.8
HVAC Equipment Upgrade	12.9	10.0	11.0	11.2	8.2	10.3	9.1	7.0	5.0
Lighting Upgrade	12.0	8.9	11.1	9.9	7.9	11.8	10.1	6.9	6.3
Window Replacement	16.7	13.6	14.4	13.8	9.7	14.7	12.6	10.5	6.5
Plumbing System Upgrade	15.6	13.4	12.5	11.5	10.7	13.2	14.5	9.0	5.7
Insulation Upgrade	19.6	17.8	16.0	16.4	11.9	17.1	13.0	14.0	11.0
Other Renovation	45.2	32.9	35.7	50.2	32.2	35.4	37.8	22.5	18.7
No Renovations Since 1980	7.3	7.5	22.2	6.3	5.9	17.3	6.5	5.3	7.6
Building Newer than 1980	8.1	6.9	11.1	7.0	7.0	8.0	6.1	5.9	6.1

RSEs for Table C11. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	4.8	4.4	8.7	4.5	3.7	7.1	4.0	3.7	4.0
Energy Sources (more than one may apply)									
Electricity	5.2	5.4	9.6	5.0	4.0	8.9	4.8	3.7	3.7
Natural Gas	7.9	5.4	9.5	6.9	5.0	9.1	5.5	3.7	4.5
Fuel Oil	22.0	10.9	11.4	16.8	12.1	11.0	15.3	6.8	6.0
District Heat	28.4	17.4	18.6	31.1	15.2	17.2	13.6	9.5	5.9
District Chilled Water	49.1	19.7	16.5	57.8	16.6	15.4	23.0	13.3	5.5
Propane	21.4	15.1	30.8	18.0	14.8	22.1	16.7	9.5	14.0
Other	21.7	27.8	31.5	18.1	20.7	28.4	16.4	13.2	16.5
Space-Heating Energy Sources (more than one may apply)									
Electricity	7.5	6.3	9.5	7.6	6.7	7.0	6.2	5.7	6.3
Natural Gas	7.4	5.3	8.8	7.0	4.7	8.0	4.7	3.6	4.1
Fuel Oil	20.3	16.0	19.7	12.7	16.7	28.2	14.0	8.0	17.1
District Heat	28.4	17.8	18.9	31.1	15.5	17.9	13.6	9.0	5.9
Propane	28.2	22.5	59.1	20.8	18.1	43.3	22.1	15.4	51.7
Other	21.4	38.3	83.0	18.8	28.7	53.0	12.8	15.5	48.6
Primary Space-Heating Energy Source									
Electricity	9.2	7.5	11.0	9.3	10.0	10.4	7.9	6.5	6.5
Natural Gas	7.7	5.5	9.3	7.1	5.1	8.5	5.2	3.7	4.7
Fuel Oil	23.4	18.6	44.0	15.9	21.1	47.7	13.9	7.8	11.2
District Heat	28.4	18.5	19.5	31.1	16.4	18.5	13.6	9.2	5.9
Propane	33.0	32.1	47.5	22.8	23.4	61.5	26.8	15.4	39.6
Other	29.7	47.9	95.5	21.3	41.0	95.5	20.0	16.6	0.0
Cooling Energy Sources (more than one may apply)									
Electricity	5.0	4.6	8.3	4.2	3.8	7.0	4.4	3.6	4.1
Natural Gas	55.2	29.2	26.9	48.3	27.9	25.5	36.9	18.2	23.1
District Chilled Water	49.1	19.7	16.5	57.8	16.6	15.4	23.0	13.3	5.5
Water-Heating Energy Sources (more than one may apply)									
Electricity	7.5	8.2	9.7	6.7	6.8	8.2	6.6	6.6	6.7
Natural Gas	7.5	5.7	10.0	7.0	5.2	8.8	5.0	3.2	4.1
Fuel Oil	33.5	14.8	24.4	24.2	17.4	39.9	14.8	9.1	28.9
District Heat	71.5	23.9	17.1	82.1	23.0	16.3	29.4	10.4	6.7
Propane	43.8	30.9	38.5	23.5	23.0	43.6	35.1	14.5	15.2
Cooking Energy Sources (more than one may apply)									
Electricity	10.7	9.1	10.0	9.1	8.0	9.1	8.7	4.8	4.6
Natural Gas	9.2	7.5	9.9	8.5	7.4	10.5	7.0	4.7	6.3
Propane	38.7	23.6	29.4	27.0	21.6	25.9	25.4	9.6	13.9

RSEs for Table C11. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	4.8	4.4	8.7	4.5	3.7	7.1	4.0	3.7	4.0
Energy End Uses (more than one may apply)									
Buildings with Space Heating	5.1	4.4	8.8	4.1	3.6	7.4	4.5	3.5	3.8
Buildings with Cooling	5.0	4.5	7.8	4.2	3.8	6.8	4.4	3.5	3.7
Buildings with Water Heating	5.2	4.5	7.9	4.2	3.5	7.0	4.4	3.4	3.9
Buildings with Cooking	7.8	6.8	9.4	6.8	6.6	9.4	6.4	3.8	5.2
Buildings with Manufacturing	23.3	23.2	24.9	20.5	17.8	21.8	15.0	18.0	18.0
Buildings with Electricity Generation	24.9	10.6	8.5	21.6	9.3	8.3	15.8	6.3	4.3
Percent of Floorspace Heated									
Not Heated	25.6	18.9	38.3	10.5	12.8	24.9	22.6	17.9	34.4
1 to 50	13.9	17.1	23.5	10.3	14.9	19.6	11.1	14.2	19.9
51 to 99	13.3	10.9	15.6	10.2	8.7	14.0	10.6	7.4	7.4
100	5.3	5.2	9.8	4.6	4.1	9.4	4.2	3.6	4.7
Percent of Floorspace Cooled									
Not Cooled	11.7	19.2	60.0	8.9	14.4	32.9	9.2	12.8	31.0
1 to 50	8.7	9.5	15.8	7.5	8.9	12.6	6.6	7.4	9.7
51 to 99	11.4	8.4	9.9	9.1	6.4	10.9	8.7	6.4	6.8
100	6.0	6.5	10.6	4.8	5.6	8.8	5.2	4.1	5.5
Percent Lit When Open									
Zero	71.2	66.9	100.3	37.7	42.2	100.3	80.2	74.4	0.0
1 to 50	8.0	10.3	22.4	9.2	8.6	19.0	7.5	6.3	14.3
51 to 99	9.4	6.4	9.7	6.6	5.6	8.3	7.7	4.6	4.9
100	5.5	6.6	11.6	4.4	4.8	9.1	4.9	4.7	5.0
Building Never Open/ Electricity Not Used	26.3	32.1	38.8	11.7	21.0	31.8	25.5	34.0	27.6
Percent Lit When Closed									
Zero	6.3	7.0	30.5	5.7	7.2	19.6	4.9	6.0	15.0
1 to 50	7.5	6.0	10.0	5.2	4.1	9.1	5.7	4.5	4.5
51 to 100	22.1	20.4	38.1	13.5	14.4	26.7	19.0	11.4	18.1
Building Never Closed/ Electricity Not Used	17.7	9.6	10.3	11.2	7.6	8.8	14.8	7.9	5.2
Heating Equipment (more than one may apply)									
Heat Pumps	13.4	10.8	18.4	13.8	10.3	11.4	12.2	9.4	13.1
Packaged Heat Pumps	18.3	12.6	25.0	15.4	10.1	15.5	12.1	9.7	15.4
Split-System Heat Pumps	11.1	23.5	37.4	22.4	16.3	25.3	17.0	21.8	26.0
Individual Room Heat Pumps	49.0	15.6	20.2	27.4	13.3	18.4	25.4	6.9	13.8
Furnaces	7.5	7.2	14.5	6.8	6.2	12.3	5.4	5.1	9.9
Individual Space Heaters	13.3	10.0	13.4	10.9	7.5	10.8	8.3	7.4	8.5
District Heat	28.4	17.9	19.0	31.1	15.7	18.0	13.6	9.1	6.0
Boilers	10.6	7.5	10.2	9.9	6.3	10.7	7.3	4.1	5.9
Packaged Heating Units	10.8	7.5	8.9	8.6	5.6	7.4	8.4	5.6	6.4
Other	15.9	17.3	17.7	12.9	17.6	20.8	10.5	8.7	13.9

RSEs for Table C11. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	4.8	4.4	8.7	4.5	3.7	7.1	4.0	3.7	4.0
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	9.6	9.8	18.0	8.2	8.7	18.4	6.9	9.4	11.9
Heat Pumps	12.3	11.0	16.2	11.6	10.0	11.2	10.5	9.4	12.6
Packaged Heat Pumps	17.8	13.4	25.1	13.9	10.7	15.8	11.2	9.3	15.6
Split-System Heat Pumps	11.3	23.3	37.4	20.4	16.0	25.1	13.3	21.7	26.0
Individual Room Heat Pumps	49.0	15.9	19.9	27.4	13.5	19.0	25.4	6.7	12.2
Individual Air Conditioners	10.5	8.0	12.4	7.6	7.0	12.4	9.3	5.2	8.5
District Chilled Water	49.1	19.7	16.5	57.8	16.6	15.4	23.0	13.3	5.5
Central Chillers	27.8	10.6	11.1	39.6	9.4	10.6	28.1	4.0	5.4
Packaged Air Conditioning Units	7.3	5.2	9.3	6.5	4.6	9.4	5.0	3.9	4.8
Swamp Coolers	31.0	16.3	26.3	24.4	17.3	25.6	30.7	7.6	11.4
Other	50.7	29.1	37.2	47.1	23.6	30.3	23.7	13.5	17.6
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	7.9	8.1	14.3	6.5	6.2	12.4	6.7	5.3	10.6
Cooling	6.8	8.6	11.3	6.5	6.4	9.6	6.3	5.3	5.4
Water Heating Equipment									
Centralized System	5.4	4.5	9.6	4.4	3.8	9.4	4.6	3.9	4.8
Distributed System	13.4	10.8	19.9	9.9	8.4	17.6	10.2	7.2	12.2
Combination of Centralized and Distributed System	26.8	13.3	12.1	23.7	7.6	8.7	12.5	8.8	6.8
Lighting Equipment Types (more than one may apply)									
Incandescent	6.1	5.7	9.4	4.7	4.0	8.5	5.4	4.2	4.9
Standard Fluorescent	5.0	4.4	8.7	4.0	3.7	7.3	3.9	3.7	3.9
Compact Fluorescent	9.8	6.6	8.6	6.6	5.1	7.8	7.6	4.4	4.1
High Intensity Discharge	15.9	7.6	10.4	11.4	5.9	8.1	13.9	5.5	5.0
Halogen	13.7	7.6	10.1	10.2	6.4	8.8	10.8	5.9	4.7
Other	55.3	89.6	34.4	53.1	66.6	38.4	23.3	22.6	15.2
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	5.2	4.4	7.8	4.9	3.5	7.0	4.5	3.4	3.9
Commercial Refrigeration	7.0	7.0	8.8	6.5	5.8	7.8	5.6	4.1	4.8
Walk-In Units	7.6	7.6	9.4	6.6	5.8	9.1	5.8	5.7	5.7
Cases or Cabinets	7.9	8.6	9.8	7.4	7.2	7.7	6.2	5.0	5.0
Residential-Type Units	6.7	4.8	8.7	6.1	4.3	8.1	4.4	3.9	4.3
Vending Machines	10.2	5.5	8.0	8.7	4.7	6.5	6.7	3.7	3.8
No Refrigeration	8.8	12.6	51.6	6.3	8.5	26.9	6.8	11.1	26.2

RSEs for Table C11. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	4.8	4.4	8.7	4.5	3.7	7.1	4.0	3.7	4.0
Office Equipment (more than one may apply)									
Computers	6.0	4.5	8.1	4.5	3.6	6.9	4.4	3.6	3.7
With Flat Screen Monitors	11.9	7.5	9.2	8.4	5.2	8.2	7.7	4.3	4.1
Dedicated Servers	8.5	5.6	8.3	5.4	4.4	6.6	5.7	3.9	3.9
Laser Printers	6.4	4.7	8.8	5.0	4.3	7.7	5.7	3.6	5.3
Inkjet Printers	8.8	6.4	9.2	7.2	4.6	7.8	5.1	4.4	4.2
FAX Machines	6.2	4.9	7.8	4.5	4.0	6.8	4.8	3.8	3.7
Photocopiers	7.9	5.2	7.9	5.5	4.1	6.9	5.5	3.7	3.7
Number of Computers									
None	7.5	16.1	53.1	7.5	11.8	30.5	5.9	14.4	31.2
1 to 4	7.4	7.9	53.9	5.5	8.1	36.9	5.6	7.2	26.8
5 to 9	10.1	10.4	26.4	8.3	8.4	27.0	7.0	7.2	21.8
10 to 19	13.2	9.5	23.5	11.8	9.4	22.6	9.9	7.6	13.8
20 to 49	17.6	11.0	16.5	15.3	8.2	16.6	15.2	6.8	6.5
50 to 99	50.3	8.8	27.3	48.4	7.5	24.5	18.2	5.6	18.5
100 to 249	100.1	12.7	13.7	100.1	9.7	11.2	0.0	8.5	7.1
250 or More	0.0	20.2	9.8	0.0	18.7	9.2	0.0	10.3	4.3
Number of Dedicated Servers									
None	5.2	5.3	24.1	5.4	5.4	20.0	4.0	4.6	9.4
1 to 4	7.8	6.0	11.3	5.1	5.0	8.7	5.6	4.7	7.0
5 to 9	81.7	16.0	19.5	56.3	11.9	17.8	64.9	9.5	11.0
10 to 19	77.2	27.7	16.5	62.8	16.0	14.5	49.4	18.2	7.8
20 to 49	0.0	25.8	17.2	0.0	21.8	19.6	0.0	15.6	8.3
50 or More	0.0	41.4	20.0	0.0	42.2	19.9	0.0	8.5	9.4
Number of Photocopiers									
None	6.1	8.2	36.2	6.0	7.1	24.1	5.4	7.6	18.6
One	8.6	6.9	17.9	6.9	6.5	19.3	5.6	4.4	7.4
2 to 4	11.9	7.7	14.6	8.8	5.6	10.7	8.5	5.5	9.7
5 to 9	69.0	12.3	16.3	34.6	9.6	14.4	56.0	5.7	9.3
10 or More	0.0	15.5	10.1	0.0	13.2	10.0	0.0	12.0	4.2
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	7.8	6.8	9.4	6.8	6.6	9.4	6.4	3.8	5.2
Activities with Large Amounts of Hot Water	10.3	6.9	10.3	8.3	5.5	10.4	8.5	5.2	6.2
Separate Computer Area	13.8	6.1	9.1	13.7	5.0	7.7	9.8	4.1	4.0
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	14.7	9.9	9.3	11.7	7.4	7.6	7.1	5.7	4.2
Economizer Cycle	12.6	7.2	9.4	10.3	6.5	7.8	8.2	4.5	4.2
HVAC Maintenance	6.3	4.7	8.8	4.5	4.1	7.5	4.4	3.5	3.9
Energy Management and Control System (EMCS)	27.7	9.5	8.9	21.5	8.2	7.4	17.3	5.5	4.5

RSEs for Table C11. Consumption and Gross Energy Intensity by Building Size for Sum of Major Fuels for Non-Mall Buildings, 2003

	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*	4.8	4.4	8.7	4.5	3.7	7.1	4.0	3.7	4.0
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	7.1	5.5	8.5	6.0	4.1	7.9	5.4	3.9	4.8
Tinted Window Glass	7.3	6.3	10.6	6.1	5.3	8.4	6.4	5.4	4.3
Reflective Window Glass	17.0	12.5	11.6	12.7	8.6	9.0	14.3	8.7	7.2
External Overhangs or Awnings	8.6	7.4	14.3	7.4	6.3	11.5	6.7	4.5	7.8
Skylights or Atriums	17.5	8.5	10.6	10.5	8.7	8.7	13.4	5.7	5.2
Daylighting Sensors	48.9	16.3	21.6	28.8	16.6	15.3	37.6	9.9	11.8
Specular Reflectors	10.3	6.8	10.7	8.0	4.9	8.3	8.3	4.8	4.9
Electronic Ballasts	6.6	4.9	9.0	6.2	4.0	7.4	4.8	4.0	4.0
Energy Management and Control System (EMCS) For Lighting	45.2	18.5	13.9	45.8	16.8	12.6	37.4	13.2	7.8
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	5.8	5.1	8.4	4.6	4.0	7.8	5.6	3.9	4.1
Cooling	6.2	5.2	8.6	4.9	4.0	7.6	5.7	4.0	4.0
Lighting	5.2	4.9	12.7	4.3	4.2	8.9	4.2	4.1	6.3
Office Equipment	8.8	6.6	25.0	6.7	6.5	15.6	5.8	6.1	12.9

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

RSEs for Table C12. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	9.5	5.4	6.8	7.5	3.5	6.3	5.5	3.7	4.9
Building Floorspace (Square Feet)									
1,001 to 5,000	8.3	8.4	9.0	7.3	6.9	8.2	5.6	7.4	9.3
5,001 to 10,000	12.2	10.6	18.4	11.1	8.2	13.1	9.0	7.8	13.3
10,001 to 25,000	10.7	10.0	12.2	10.1	6.9	10.4	7.9	9.3	10.9
25,001 to 50,000	16.4	9.0	10.6	13.7	8.6	10.1	10.3	6.6	8.9
50,001 to 100,000	12.5	10.7	11.3	10.7	8.4	10.7	10.9	8.6	8.6
100,001 to 200,000	27.2	16.9	17.6	25.4	12.1	16.3	16.2	9.7	11.3
200,001 to 500,000	27.2	9.5	17.1	21.0	11.8	15.5	14.3	7.8	9.5
Over 500,000	21.6	19.9	23.1	23.5	20.4	19.0	16.5	10.4	11.0
Principal Building Activity									
Education	11.2	11.0	19.9	10.2	9.3	12.8	6.1	6.4	11.5
Food Sales	33.8	19.0	18.3	20.5	18.2	20.1	19.1	7.6	9.5
Food Service	16.2	14.1	15.5	19.8	13.8	17.6	8.6	11.1	8.4
Health Care	27.8	11.4	15.8	24.1	8.9	10.8	10.0	6.3	11.2
Inpatient	33.9	11.6	25.9	38.2	9.5	24.8	11.2	6.0	9.3
Outpatient	30.0	24.6	17.3	23.8	16.8	13.6	22.6	17.3	12.4
Lodging	27.5	15.1	16.3	32.1	9.9	15.1	11.6	10.8	7.8
Retail (Other Than Mall)	22.4	13.5	16.9	12.9	11.3	15.2	17.5	7.1	10.9
Office	12.3	10.8	11.9	11.5	8.8	9.4	8.0	4.1	6.5
Public Assembly	24.4	17.3	23.6	24.2	13.4	16.3	10.8	8.2	15.2
Public Order and Safety	66.2	23.1	35.0	56.8	20.6	30.6	22.8	7.1	8.6
Religious Worship	15.1	13.7	14.6	13.7	11.9	14.4	7.8	6.8	7.3
Service	22.8	20.7	18.3	19.4	13.3	15.0	16.5	11.8	11.5
Warehouse and Storage	52.0	19.5	14.2	23.8	13.7	13.2	29.9	14.3	12.4
Other	31.4	40.2	33.1	29.5	31.4	35.1	20.5	19.1	34.5
Vacant	35.0	30.2	57.2	20.2	26.8	36.7	30.6	27.2	28.4
Census Region and Division									
Northeast	15.6	12.0	18.3	16.0	10.9	14.7	6.6	5.2	14.9
New England	19.4	21.2	45.0	31.2	19.4	29.0	20.4	12.7	28.8
Middle Atlantic	18.7	14.8	18.3	18.4	13.2	17.7	4.9	5.5	16.9
Midwest	18.7	9.6	14.0	13.3	6.8	13.0	9.8	7.0	7.5
East North Central	22.5	11.7	18.7	16.1	7.7	18.4	12.1	8.7	7.4
West North Central	27.0	19.7	13.9	21.4	16.8	17.1	9.2	10.8	14.9
South	18.4	10.3	10.4	14.7	5.5	10.1	14.3	7.9	7.9
South Atlantic	28.9	15.6	14.5	23.4	7.9	10.3	22.8	13.2	10.5
East South Central	33.3	15.2	22.6	25.2	11.5	29.6	17.8	13.1	9.9
West South Central	13.2	20.9	19.9	16.1	10.0	24.8	12.1	14.2	13.8
West	12.8	11.3	17.3	11.3	7.7	14.9	9.1	8.8	10.9
Mountain	11.5	18.5	23.2	13.5	16.3	23.4	10.0	13.4	12.5
Pacific	18.2	12.5	22.2	13.9	7.0	18.4	12.8	11.2	14.9
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	14.1	14.0	17.7	15.5	12.9	18.2	9.9	4.1	10.5
5,500-7,000 HDD	18.2	10.1	15.6	14.6	7.8	14.8	9.7	7.6	8.9
4,000-5,499 HDD	21.6	21.5	18.8	21.4	18.3	18.5	6.4	8.0	10.6
Fewer than 4,000 HDD	17.8	17.5	16.9	13.4	12.4	15.6	18.1	11.0	11.2
2,000 CDD or More and --									
Fewer than 4,000 HDD	23.5	15.2	18.4	25.9	9.1	18.5	12.2	8.9	11.9

RSEs for Table C12. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	9.5	5.4	6.8	7.5	3.5	6.3	5.5	3.7	4.9
Number of Floors									
One	23.2	7.3	7.2	11.2	6.0	8.5	15.3	5.2	6.1
Two	11.6	9.3	13.3	10.3	6.1	8.2	7.0	6.7	9.5
Three	16.2	12.5	17.5	12.6	9.6	15.1	12.3	6.8	10.0
Four to Nine	17.2	12.2	18.6	18.6	11.1	13.5	6.6	5.9	7.8
Ten or More	21.4	19.2	28.1	19.6	17.8	29.3	10.4	9.3	15.0
Elevators and Escalators (more than one may apply)									
Any Elevators	11.8	9.3	10.3	10.6	7.6	7.1	6.1	4.3	6.2
Number of Elevators									
One	11.6	13.5	11.9	13.3	10.9	9.9	8.7	7.9	7.0
Two to Five	19.6	12.6	17.4	17.0	10.0	13.0	11.1	6.3	9.5
Six or More	20.7	15.5	19.9	22.6	16.0	18.4	9.6	8.4	10.2
Any Escalators	38.5	29.5	34.0	34.8	23.0	28.9	14.2	15.8	21.7
Number of Workers (main shift)									
Fewer than 5	24.6	7.1	10.0	11.4	8.0	9.3	16.3	6.9	8.9
5 to 9	11.0	11.4	13.7	11.9	9.2	11.3	5.8	9.3	11.5
10 to 19	18.5	8.5	12.5	19.1	7.3	12.0	9.2	7.3	10.0
20 to 49	14.9	10.9	13.6	16.1	7.6	14.4	8.4	7.5	6.2
50 to 99	16.1	11.5	12.8	15.3	11.8	11.9	14.4	4.8	6.5
100 to 249	25.3	15.0	14.8	19.1	11.3	11.8	17.4	9.1	9.7
250 or More	17.4	12.5	18.3	17.8	12.1	12.9	9.4	5.8	8.2
Weekly Operating Hours									
Fewer than 40	16.0	17.2	14.7	12.8	14.2	15.1	10.0	14.4	10.1
40 to 48	13.4	12.7	14.0	12.1	9.0	10.1	8.6	8.2	11.9
49 to 60	24.9	8.7	18.2	12.6	6.4	11.2	14.9	5.5	9.8
61 to 84	13.2	8.6	12.8	13.0	8.4	12.9	7.8	4.9	8.9
85 to 167	19.8	10.5	14.8	17.7	11.0	13.7	10.4	5.7	9.4
Open Continuously	15.2	9.8	11.7	12.2	6.8	9.8	7.8	5.5	7.2
Ownership and Occupancy									
Nongovernment Owned	8.9	6.0	6.0	8.1	3.7	6.1	5.4	4.5	5.5
Owner Occupied	11.7	9.1	9.7	10.1	6.0	8.1	7.4	6.0	7.2
Nonowner Occupied	10.3	6.8	7.7	9.9	5.3	9.1	6.1	5.3	7.1
Unoccupied	67.1	31.3	63.9	25.2	31.6	39.7	68.8	26.4	31.3
Government Owned	18.6	10.1	15.8	11.5	7.8	11.5	9.3	5.1	7.9
Federal	54.7	34.2	59.6	44.9	32.5	41.4	12.0	13.1	19.2
State	20.1	17.9	30.9	18.3	18.1	23.6	13.9	7.8	10.6
Local	15.6	9.6	14.4	11.7	9.6	12.2	8.1	5.4	7.3
Vacancy Status									
Completely Vacant	46.8	30.4	63.9	22.6	31.1	39.7	42.6	26.0	31.3
Mostly Vacant	49.1	68.2	66.5	47.6	40.1	58.4	27.1	64.1	44.6
Partially Vacant	12.9	11.6	14.7	12.4	9.5	11.2	8.5	5.7	9.4
Not At All Vacant	10.7	6.0	7.0	8.7	4.2	6.2	6.4	3.9	5.3
Number of Establishments									
One	11.4	5.5	7.3	9.6	4.2	6.9	6.9	4.1	5.0
2 to 5	14.1	14.0	12.0	11.8	8.3	9.7	7.0	9.5	8.3
6 to 10	28.2	21.0	49.2	26.5	13.3	40.2	12.6	16.9	11.4
11 to 20	35.8	23.9	28.8	49.3	18.3	24.8	24.9	12.9	17.0
More than 20	21.5	18.5	45.6	22.5	18.0	28.2	20.8	6.1	32.3
Currently Unoccupied	46.8	30.4	63.9	22.6	31.1	39.7	42.6	26.0	31.3

RSEs for Table C12. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	9.5	5.4	6.8	7.5	3.5	6.3	5.5	3.7	4.9
Predominant Exterior Wall Material									
Brick, Stone or Stucco	11.7	7.3	10.0	8.5	5.7	9.5	6.5	3.9	5.2
Concrete (Block or Poured)	15.9	10.5	12.4	12.1	8.4	12.2	10.5	6.8	8.8
Concrete Panels	29.6	19.8	20.1	26.0	13.1	15.8	8.9	11.3	13.4
Siding or Shingles	16.2	17.2	16.3	13.5	14.0	13.8	16.1	12.0	13.5
Metal Panels	45.2	15.3	16.6	28.6	10.7	10.6	19.0	12.0	17.3
Window Glass	63.7	25.4	31.4	56.3	24.0	22.2	49.4	12.9	19.4
Other	49.1	27.6	35.5	43.0	22.9	32.3	38.6	17.5	15.9
No One Major Type	69.2	35.2	57.1	58.9	29.9	43.5	46.9	21.1	23.8
Predominant Roof Material									
Built-Up	11.8	8.1	12.0	9.3	5.5	12.4	7.2	6.0	9.1
Shingles (Not Wood)	13.3	8.1	10.6	9.1	5.7	8.4	9.7	7.6	9.1
Metal Surfacing	20.2	12.1	12.4	17.2	9.8	10.6	14.9	8.2	8.6
Synthetic or Rubber	12.0	8.9	11.3	10.9	8.5	9.3	6.6	4.8	7.2
Slate or Tile	14.9	19.8	20.4	15.5	17.8	16.6	12.1	15.0	13.9
Wooden Materials	35.0	21.7	48.5	24.2	20.5	47.1	25.6	17.1	16.1
Concrete	58.8	27.6	36.4	58.5	26.1	34.3	50.6	11.0	23.1
Other	76.2	68.3	37.6	61.3	45.9	39.6	56.0	45.7	28.7
No One Major Type	38.6	35.7	56.4	50.3	34.4	48.2	26.2	22.6	45.2
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	9.3	7.2	0.0	8.2	6.4	0.0	5.7	4.2	0.0
Addition or Annex	15.8	9.4	0.0	14.9	8.3	0.0	12.8	5.5	0.0
Reduction In Floorspace	30.0	24.6	0.0	30.0	26.2	0.0	11.7	15.4	0.0
Cosmetic Improvements	9.3	8.3	0.0	8.7	7.8	0.0	5.0	5.2	0.0
Wall or Roof Replacement	11.1	11.6	0.0	11.1	9.7	0.0	5.7	6.7	0.0
Interior Wall Re-Configuration	11.6	9.5	0.0	10.5	7.9	0.0	5.7	5.9	0.0
HVAC Equipment Upgrade	10.4	8.5	0.0	8.5	7.8	0.0	6.6	5.2	0.0
Lighting Upgrade	10.8	9.8	0.0	10.3	8.5	0.0	6.1	5.7	0.0
Window Replacement	12.8	13.9	0.0	11.2	11.1	0.0	6.6	8.3	0.0
Plumbing System Upgrade	11.2	11.1	0.0	11.4	10.6	0.0	5.7	7.1	0.0
Insulation Upgrade	11.6	17.3	0.0	13.5	13.7	0.0	9.3	12.0	0.0
Other Renovation	28.0	43.4	0.0	28.0	39.5	0.0	16.0	10.8	0.0
No Renovations Since 1980	15.7	7.8	0.0	10.1	5.2	0.0	8.8	6.0	0.0
Building Newer than 1980	0.0	9.9	6.8	0.0	6.4	6.3	0.0	6.2	4.9
Energy Sources (more than one may apply)									
Electricity	12.0	5.9	7.7	9.2	4.3	6.2	6.4	4.0	5.4
Natural Gas	10.5	7.0	8.3	9.4	5.5	7.8	5.7	4.0	5.9
Fuel Oil	16.8	11.2	14.0	13.9	9.5	12.9	11.0	5.8	7.6
District Heat	26.4	15.6	30.3	23.8	14.7	26.4	7.6	7.9	5.6
District Chilled Water	30.8	14.7	31.7	31.8	13.5	26.8	7.6	8.5	7.4
Propane	43.1	15.9	16.7	25.9	12.0	18.5	23.0	10.8	13.1
Other	34.9	24.8	40.5	25.4	18.5	25.1	15.5	10.9	28.7

RSEs for Table C12. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	9.5	5.4	6.8	7.5	3.5	6.3	5.5	3.7	4.9
Space-Heating Energy Sources (more than one may apply)									
Electricity	10.7	7.2	7.7	9.4	5.3	8.1	9.2	5.2	6.7
Natural Gas	9.5	7.1	7.2	8.0	6.0	7.0	5.5	3.9	5.5
Fuel Oil	21.7	14.1	27.6	25.5	12.6	23.7	10.7	7.4	16.5
District Heat	26.8	15.8	31.2	24.3	14.9	28.1	7.6	7.5	5.1
Propane	57.5	22.2	31.0	32.7	20.1	22.1	50.6	15.3	24.2
Other	33.8	38.5	64.2	27.2	24.9	33.3	18.4	15.2	43.6
Primary Space-Heating Energy Source									
Electricity	17.4	6.4	8.8	19.2	6.8	10.9	9.4	4.9	7.7
Natural Gas	9.9	7.4	7.7	8.3	6.0	7.4	5.9	4.2	6.3
Fuel Oil	28.6	21.8	36.3	31.6	15.9	41.4	8.9	14.3	21.6
District Heat	28.2	16.3	32.1	25.4	15.0	29.4	8.0	6.9	5.2
Propane	33.6	24.8	36.9	21.9	25.1	23.6	26.2	6.5	28.9
Other	52.3	28.7	56.1	31.3	17.9	45.5	24.7	20.7	24.2
Cooling Energy Sources (more than one may apply)									
Electricity	9.1	5.8	5.9	8.3	4.1	5.8	4.4	3.5	4.9
Natural Gas	46.4	22.7	41.3	45.2	22.3	34.2	53.3	13.3	30.5
District Chilled Water	30.8	14.7	31.7	31.8	13.5	26.8	7.6	8.5	7.4
Water-Heating Energy Sources (more than one may apply)									
Electricity	11.5	7.7	9.0	10.9	6.0	7.5	7.5	5.4	8.3
Natural Gas	10.2	7.5	9.4	9.8	5.8	8.1	5.3	4.4	4.6
Fuel Oil	25.0	20.2	37.7	33.5	18.0	41.3	13.2	11.4	18.7
District Heat	21.3	20.0	27.8	23.4	18.0	21.5	9.7	7.3	10.2
Propane	32.1	28.9	38.9	22.4	26.1	25.3	20.3	16.0	31.6
Cooking Energy Sources (more than one may apply)									
Electricity	13.4	9.7	11.1	12.0	8.8	9.2	6.8	5.5	6.0
Natural Gas	15.1	8.4	12.1	17.7	7.3	10.9	8.4	4.1	5.9
Propane	26.0	19.1	41.3	24.5	17.9	28.0	15.2	9.8	30.0
Energy End Uses (more than one may apply)									
Buildings with Space Heating	9.7	5.5	6.8	7.8	3.6	6.0	5.3	3.5	4.9
Buildings with Cooling	8.7	5.7	6.9	8.1	4.0	6.1	4.1	3.4	4.6
Buildings with Water Heating	8.1	5.6	6.9	8.0	3.8	6.1	4.7	3.6	4.4
Buildings with Cooking	13.2	7.5	10.4	13.8	6.4	9.0	6.5	4.3	5.0
Buildings with Manufacturing	27.6	24.6	32.1	26.9	18.2	28.5	23.8	15.1	23.9
Buildings with Electricity Generation	16.7	9.0	10.4	14.8	8.8	9.1	9.0	4.9	6.6
Percent of Floorspace Heated									
Not Heated	18.4	25.5	27.3	16.1	13.6	14.3	19.6	26.7	23.8
1 to 50	20.1	14.8	19.9	17.9	12.3	16.0	11.3	12.8	20.2
51 to 99	15.0	11.9	12.0	11.2	11.2	11.3	10.3	7.1	9.0
100	11.5	6.5	7.6	10.2	4.4	6.6	5.9	3.9	4.1

RSEs for Table C12. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	9.5	5.4	6.8	7.5	3.5	6.3	5.5	3.7	4.9
Percent of Floorspace Cooled									
Not Cooled	33.4	17.1	20.8	15.5	15.4	14.4	22.6	12.6	17.6
1 to 50	13.9	11.6	11.2	11.7	9.3	11.1	6.1	7.1	11.8
51 to 99	11.6	8.3	11.8	12.2	7.4	8.8	8.1	5.8	6.8
100	11.4	8.3	8.7	8.6	6.1	7.6	7.7	4.4	4.2
Percent Lit When Open									
Zero	74.8	76.2	37.9	44.1	51.1	38.9	71.6	78.1	18.6
1 to 50	10.6	12.1	15.3	12.2	9.0	14.5	7.8	7.6	11.7
51 to 99	10.0	7.0	11.9	7.7	5.3	9.0	5.8	4.7	6.3
100	14.8	7.6	7.0	11.3	5.2	5.9	7.7	4.2	5.7
Building Never Open/ Electricity Not Used	36.2	29.2	50.9	20.2	24.4	21.4	30.6	23.2	36.5
Percent Lit When Closed									
Zero	22.8	6.4	15.2	11.2	5.8	10.2	13.6	5.9	11.7
1 to 50	9.4	6.4	9.3	9.3	4.7	7.9	5.6	4.2	5.1
51 to 100	30.5	17.0	33.0	23.2	15.1	24.4	15.1	8.5	19.4
Building Never Closed/ Electricity Not Used	15.2	9.8	11.7	10.4	6.4	9.3	9.5	5.8	7.8
Heating Equipment (more than one may apply)									
Heat Pumps	19.8	14.6	14.6	13.8	11.2	9.6	21.0	10.8	12.7
Packaged Heat Pumps	38.2	18.5	17.2	16.2	12.4	11.4	31.7	11.8	13.1
Split-System Heat Pumps	23.5	30.6	21.8	26.1	22.5	18.5	12.3	24.3	22.9
Individual Room Heat Pumps	22.8	18.4	25.2	24.5	18.6	18.5	13.3	11.3	19.6
Furnaces	11.6	7.3	9.3	9.5	5.0	9.2	8.4	5.7	7.8
Individual Space Heaters	13.7	10.4	12.2	13.0	7.9	9.1	9.6	7.0	9.2
District Heat	26.8	15.8	31.2	24.3	15.0	28.1	7.6	7.6	5.1
Boilers	12.2	9.2	12.3	12.6	8.2	10.0	6.0	4.1	8.4
Packaged Heating Units	16.0	6.9	8.1	10.2	5.8	7.2	12.8	4.9	6.3
Other	25.5	15.7	16.0	22.0	14.2	21.3	20.6	6.0	15.5
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	14.1	9.9	18.2	14.2	7.4	13.1	8.5	8.2	16.0
Heat Pumps	19.3	14.8	12.6	13.5	11.2	10.5	19.7	10.7	10.9
Packaged Heat Pumps	34.7	19.0	18.2	15.7	12.7	13.8	27.5	11.9	13.1
Split-System Heat Pumps	22.4	31.0	21.9	24.8	22.6	18.3	12.1	24.6	20.3
Individual Room Heat Pumps	24.0	17.7	22.1	25.4	17.8	15.1	14.0	11.1	16.6
Individual Air Conditioners	14.1	8.9	16.7	12.4	8.1	14.6	7.4	5.5	11.1
District Chilled Water	30.8	14.7	31.7	31.8	13.5	26.8	7.6	8.5	7.4
Central Chillers	13.9	12.1	14.8	14.7	10.5	11.4	8.4	5.6	7.0
Packaged Air Conditioning Units	12.4	6.2	7.2	10.9	5.7	7.5	6.7	3.9	5.0
Swamp Coolers	32.7	15.6	34.2	33.2	18.8	27.2	16.7	11.8	26.7
Other	55.9	23.5	31.1	44.3	23.4	24.9	27.1	12.8	15.7
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	10.1	8.7	0.0	9.6	6.0	0.0	6.4	6.0	0.0
Cooling	9.9	7.5	0.0	9.1	5.7	0.0	4.8	4.7	0.0

RSEs for Table C12. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	9.5	5.4	6.8	7.5	3.5	6.3	5.5	3.7	4.9
Water Heating Equipment									
Centralized System	7.9	6.5	6.2	8.0	4.8	5.9	4.6	3.4	4.9
Distributed System	18.6	11.4	18.2	19.4	9.1	11.8	9.7	7.7	11.5
Combination of Centralized and Distributed System	17.5	13.6	16.7	13.4	9.9	13.6	12.0	8.5	8.5
Lighting Equipment Types (more than one may apply)									
Incandescent	9.6	6.7	9.5	9.4	5.0	7.5	5.2	4.0	5.7
Standard Fluorescent	9.9	5.5	6.9	8.0	3.8	6.2	5.4	3.6	5.1
Compact Fluorescent	10.3	7.8	9.7	9.4	6.5	7.4	5.1	3.9	5.9
High Intensity Discharge	20.6	7.8	9.3	12.8	7.2	6.4	10.9	4.6	8.0
Halogen	14.4	9.4	9.4	12.0	8.0	7.2	6.3	4.9	7.7
Other	84.5	54.2	51.5	71.8	40.5	55.6	42.0	29.5	17.4
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	8.6	5.8	7.0	8.1	3.8	6.2	4.8	3.6	4.4
Commercial Refrigeration	11.6	7.4	8.9	11.1	6.5	6.7	5.5	4.4	4.7
Walk-In Units	12.8	8.3	9.7	15.1	7.2	7.9	8.0	4.9	5.0
Cases or Cabinets	12.9	8.3	8.4	10.4	7.0	6.2	6.2	4.8	5.2
Residential-Type Units	9.7	6.3	9.6	9.2	4.3	7.3	5.4	3.7	6.4
Vending Machines	10.8	7.0	8.0	8.9	5.3	7.5	6.4	3.8	5.5
No Refrigeration	32.9	11.7	11.7	13.7	8.0	10.7	21.0	10.6	11.8
Office Equipment (more than one may apply)									
Computers	8.9	5.8	6.9	7.9	3.9	6.2	4.5	3.5	4.6
With Flat Screen Monitors	11.5	8.3	9.3	10.4	6.5	7.3	5.2	4.1	5.4
Dedicated Servers	10.0	7.1	8.7	9.1	5.4	7.1	4.9	3.8	5.6
Laser Printers	9.3	6.5	8.4	8.7	4.2	7.9	4.9	4.5	5.4
Inkjet Printers	8.8	7.8	8.0	8.3	6.3	6.2	5.3	3.8	5.9
FAX Machines	8.6	6.0	7.2	8.1	4.1	6.7	4.2	3.4	5.0
Photocopiers	9.3	6.5	8.1	8.5	4.6	7.1	4.5	3.6	5.0
Number of Computers									
None	21.6	9.1	16.9	12.2	10.7	11.7	15.6	10.9	15.1
1 to 4	19.0	8.0	10.8	11.7	6.2	9.7	11.9	7.6	8.7
5 to 9	17.8	9.8	12.8	18.2	7.0	11.2	12.7	7.7	10.6
10 to 19	22.6	10.0	14.3	19.9	9.8	14.1	16.0	7.2	10.7
20 to 49	15.3	13.0	13.6	13.8	11.1	13.6	7.6	6.7	9.0
50 to 99	19.4	20.7	17.7	21.7	13.5	16.7	5.8	13.6	11.3
100 to 249	17.5	14.0	15.1	15.8	11.9	12.5	11.8	8.3	7.5
250 or More	17.5	11.8	18.7	17.8	10.8	14.5	9.1	5.8	8.8
Number of Dedicated Servers									
None	14.5	5.7	7.8	9.0	5.5	8.0	9.2	5.6	6.1
1 to 4	12.9	7.6	8.5	11.9	5.7	8.4	7.0	5.2	5.4
5 to 9	24.4	22.4	23.2	26.6	17.7	18.2	17.6	9.0	15.7
10 to 19	28.8	16.4	37.2	26.5	13.8	29.1	14.1	10.7	14.9
20 to 49	27.0	17.7	29.6	26.0	18.8	29.4	15.7	6.6	20.7
50 or More	38.7	23.9	38.1	38.5	19.5	36.8	20.4	14.2	12.8

RSEs for Table C12. Consumption and Gross Energy Intensity by Year Constructed for Sum of Major Fuels for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	9.5	5.4	6.8	7.5	3.5	6.3	5.5	3.7	4.9
Number of Photocopiers									
None	20.5	7.2	8.6	10.9	7.0	8.8	13.9	7.8	8.1
One	13.3	7.0	9.3	12.5	6.6	8.8	7.7	4.6	5.1
2 to 4	10.9	11.1	11.3	9.6	7.6	11.9	6.3	6.7	8.1
5 to 9	23.4	11.7	25.3	27.9	11.0	19.2	12.4	6.6	12.1
10 or More	18.0	12.1	17.7	17.2	10.7	15.2	8.6	5.8	8.2
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	13.2	7.5	10.4	13.8	6.4	9.0	6.5	4.3	5.0
Activities with Large Amounts of Hot Water	14.6	7.8	11.3	17.1	5.6	9.6	10.3	4.9	5.1
Separate Computer Area	11.9	8.7	9.9	10.7	6.7	7.4	5.2	4.4	6.8
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	12.6	10.0	10.5	11.5	7.9	8.6	6.6	5.2	5.4
Economizer Cycle	12.0	8.8	8.6	11.0	7.4	7.6	6.1	4.2	5.6
HVAC Maintenance	11.0	6.2	7.1	9.0	4.6	6.5	5.5	3.6	4.9
Energy Management and Control System (EMCS)	14.5	10.1	9.0	12.8	8.2	8.3	6.2	5.5	5.2
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	11.0	7.1	6.9	10.8	5.2	5.7	6.2	4.0	4.8
Tinted Window Glass	19.1	8.1	8.4	12.0	5.7	7.2	10.5	5.0	6.9
Reflective Window Glass	22.9	10.3	12.2	14.4	8.7	10.2	11.7	7.6	8.6
External Overhangs or Awnings	14.5	8.2	13.4	12.6	6.5	9.5	9.9	5.3	8.7
Skylights or Atriums	14.3	10.8	14.0	13.0	8.8	11.4	7.6	5.7	8.1
Daylighting Sensors	30.0	24.6	19.6	23.5	17.3	18.7	18.0	14.1	13.3
Specular Reflectors	16.8	8.4	9.6	11.3	6.1	7.5	9.1	4.8	6.0
Electronic Ballasts	10.8	6.4	7.6	8.2	4.9	6.3	6.1	3.8	5.4
Energy Management and Control System (EMCS) For Lighting	39.3	16.7	11.2	30.2	15.8	11.4	18.3	9.7	8.1
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	8.7	5.9	8.2	8.0	4.0	6.3	4.2	3.9	4.7
Cooling	9.3	6.0	8.9	8.9	4.3	6.9	3.9	3.7	4.6
Lighting	10.6	5.2	8.8	8.0	4.3	7.4	6.4	3.2	5.5
Office Equipment	14.4	9.2	12.5	10.1	6.6	10.2	8.9	6.5	8.1

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

RSEs for Table C13. Total Electricity Consumption and Expenditures, 2003

	RSEs for All Buildings* Using Electricity			RSEs for Electricity Consumption			RSEs for Electricity Expenditures
				Primary	Site		
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total	Total	Total
All Buildings*	3.9	3.7	4.6	4.3	4.3	4.3	4.3
Building Floorspace (Square Feet)							
1,001 to 5,000	6.0	6.1	1.7	6.4	6.4	6.4	5.8
5,001 to 10,000	6.6	6.4	0.9	9.1	9.1	9.1	10.9
10,001 to 25,000	5.7	5.8	1.4	9.3	9.3	9.3	7.7
25,001 to 50,000	6.3	6.2	1.2	8.8	8.8	8.8	9.2
50,001 to 100,000	7.9	7.7	1.1	8.9	8.9	8.9	8.6
100,001 to 200,000	11.9	12.2	1.8	12.1	12.1	12.1	12.5
200,001 to 500,000	12.8	12.9	2.2	9.9	9.9	9.9	9.6
Over 500,000	16.9	16.3	4.5	18.0	18.0	18.0	17.9
Principal Building Activity							
Education	8.9	6.9	6.6	8.6	8.6	8.6	8.5
Food Sales	14.1	14.7	11.1	15.7	15.7	15.7	14.8
Food Service	9.8	13.1	7.7	15.8	15.8	15.8	13.5
Health Care	12.1	7.1	10.9	7.4	7.4	7.4	7.1
Inpatient	12.4	8.8	10.3	9.1	9.1	9.1	8.0
Outpatient	12.8	11.5	8.9	13.1	13.1	13.1	12.4
Lodging	13.3	11.9	15.6	14.3	14.3	14.3	16.5
Retail (Other Than Mall)	8.8	9.5	8.6	13.2	13.2	13.2	14.7
Office	6.1	7.1	7.9	7.7	7.7	7.7	8.2
Public Assembly	9.4	13.3	12.8	16.3	16.3	16.3	20.8
Public Order and Safety	23.1	18.3	18.7	21.1	21.1	21.1	19.9
Religious Worship	10.5	9.5	8.1	10.0	10.0	10.0	9.3
Service	9.2	11.1	11.2	21.4	21.4	21.4	10.3
Warehouse and Storage	10.0	12.0	10.9	18.3	18.3	18.3	13.7
Other	19.1	22.6	23.3	25.1	25.1	25.1	26.3
Vacant	26.8	28.0	21.9	27.2	27.2	27.2	31.5
Year Constructed							
Before 1920	10.3	13.1	12.4	21.0	21.0	21.0	15.9
1920 to 1945	8.4	14.8	13.8	21.2	21.2	21.2	13.4
1946 to 1959	10.0	10.3	9.9	11.3	11.3	11.3	14.4
1960 to 1969	8.4	7.8	6.8	8.9	8.9	8.9	9.7
1970 to 1979	8.1	7.6	8.7	9.5	9.5	9.5	9.1
1980 to 1989	7.4	7.1	7.8	8.6	8.6	8.6	8.8
1990 to 1999	7.6	6.5	6.4	9.3	9.3	9.3	10.4
2000 to 2003	11.8	9.0	10.8	12.3	12.3	12.3	11.2
Census Region and Division							
Northeast	8.5	9.5	9.8	9.8	9.8	9.8	8.9
New England	18.8	20.8	12.3	26.4	26.4	26.4	26.3
Middle Atlantic	9.9	10.6	12.4	10.5	10.5	10.5	9.0
Midwest	10.3	9.8	9.2	10.6	10.6	10.6	9.2
East North Central	13.9	13.7	10.3	15.0	15.0	15.0	12.7
West North Central	17.0	13.3	13.6	10.7	10.7	10.7	11.7
South	8.2	4.7	8.1	6.0	6.0	6.0	5.7
South Atlantic	13.7	5.2	11.9	7.7	7.7	7.7	7.7
East South Central	15.6	7.3	18.5	11.4	11.4	11.4	9.5
West South Central	13.9	12.3	13.5	12.9	12.9	12.9	13.1
West	7.8	4.6	9.6	9.0	9.0	9.0	11.4
Mountain	15.0	7.7	20.1	17.7	17.7	17.7	21.1
Pacific	8.4	4.9	9.2	8.7	8.7	8.7	13.0

RSEs for Table C13. Total Electricity Consumption and Expenditures, 2003

	RSEs for All Buildings* Using Electricity			RSEs for Electricity Consumption			RSEs for Electricity Expenditures
				Primary	Site		
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total	Total	Total
All Buildings*	3.9	3.7	4.6	4.3	4.3	4.3	4.3
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	10.7	11.2	7.0	12.2	12.2	12.2	12.5
5,500-7,000 HDD	13.4	11.7	9.5	13.4	13.4	13.4	12.8
4,000-5,499 HDD	21.8	16.6	17.7	20.4	20.4	20.4	17.0
Fewer than 4,000 HDD	14.8	11.0	7.4	12.1	12.1	12.1	11.2
2,000 CDD or More and --							
Fewer than 4,000 HDD	9.4	8.5	9.7	10.6	10.6	10.6	11.0
Number of Floors							
One	5.4	5.2	5.0	6.4	6.4	6.4	5.2
Two	5.6	6.4	5.3	9.3	9.3	9.3	9.1
Three	8.1	6.6	7.3	9.9	9.9	9.9	9.9
Four to Nine	12.9	11.7	7.3	12.5	12.5	12.5	10.5
Ten or More	14.0	15.3	7.7	15.0	15.0	15.0	17.5
Elevators and Escalators (more than one may apply)							
Any Elevators	6.4	6.0	6.0	7.4	7.4	7.4	7.5
Number of Elevators							
One	9.1	7.9	6.1	9.3	9.3	9.3	9.7
Two to Five	8.7	8.4	5.4	9.3	9.3	9.3	10.4
Six or More	15.8	14.9	11.2	15.1	15.1	15.1	15.6
Any Escalators	28.1	21.1	29.7	26.8	26.8	26.8	26.1
Number of Workers (main shift)							
Fewer than 5	6.3	9.5	7.8	13.5	13.5	13.5	8.5
5 to 9	7.4	7.3	4.9	8.1	8.1	8.1	7.8
10 to 19	5.9	8.9	8.5	7.9	7.9	7.9	8.0
20 to 49	7.0	9.9	6.4	9.8	9.8	9.8	9.6
50 to 99	9.0	7.3	6.6	9.0	9.0	9.0	9.1
100 to 249	10.2	8.7	7.6	10.0	10.0	10.0	11.1
250 or More	10.1	11.0	8.0	11.2	11.2	11.2	11.4
Weekly Operating Hours							
Fewer than 40	9.1	10.9	8.7	11.1	11.1	11.1	11.7
40 to 48	6.3	6.7	7.2	8.8	8.8	8.8	7.3
49 to 60	5.2	7.5	6.3	10.4	10.4	10.4	8.1
61 to 84	6.9	7.3	7.3	7.1	7.1	7.1	6.9
85 to 167	8.8	8.0	9.1	8.5	8.5	8.5	7.4
Open Continuously	11.9	6.1	12.4	8.1	8.1	8.1	9.5
Ownership and Occupancy							
Nongovernment Owned	4.1	3.9	5.1	4.5	4.5	4.5	4.9
Owner Occupied	6.1	5.3	5.5	6.3	6.3	6.3	6.9
Nonowner Occupied	5.8	5.6	6.7	6.7	6.7	6.7	6.7
Unoccupied	27.4	35.6	30.1	41.2	41.2	41.2	45.6
Government Owned	8.2	6.2	7.3	8.7	8.7	8.7	7.5
Federal	35.7	29.7	35.7	34.1	34.1	34.1	26.5
State	16.5	13.1	14.9	18.2	18.2	18.2	18.0
Local	8.6	7.3	6.4	9.8	9.8	9.8	8.7

RSEs for Table C13. Total Electricity Consumption and Expenditures, 2003

	RSEs for All Buildings* Using Electricity			RSEs for Electricity Consumption			RSEs for Electricity Expenditures
				Primary	Site		
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total	Total	Total
All Buildings*	3.9	3.7	4.6	4.3	4.3	4.3	4.3
Vacancy Status							
Completely Vacant	26.5	32.6	26.1	38.1	38.1	38.1	41.4
Mostly Vacant	45.8	45.0	29.7	37.7	37.7	37.7	47.2
Partially Vacant	6.4	7.8	7.6	8.3	8.3	8.3	9.4
Not At All Vacant	4.4	3.9	4.8	4.9	4.9	4.9	4.6
Number of Establishments							
One	4.6	4.4	5.2	4.7	4.7	4.7	4.6
2 to 5	7.4	6.8	5.8	7.9	7.9	7.9	9.9
6 to 10	15.1	15.5	15.5	21.9	21.9	21.9	20.2
11 to 20	15.5	16.1	18.5	16.8	16.8	16.8	15.6
More than 20	35.2	17.1	43.2	17.6	17.6	17.6	21.5
Currently Unoccupied	26.5	32.6	26.1	38.1	38.1	38.1	41.4
Predominant Exterior Wall Material							
Brick, Stone or Stucco	5.2	5.1	5.7	5.9	5.9	5.9	5.0
Concrete (Block or Poured)	7.8	7.5	6.6	8.3	8.3	8.3	8.6
Concrete Panels	11.2	12.4	13.2	17.1	17.1	17.1	15.7
Siding or Shingles	10.0	10.1	7.6	15.0	15.0	15.0	18.7
Metal Panels	8.7	8.8	7.4	13.5	13.5	13.5	14.2
Window Glass	31.8	23.4	34.3	27.6	27.6	27.6	25.8
Other	31.6	23.0	36.3	25.9	25.9	25.9	25.1
No One Major Type	38.7	25.5	32.8	35.9	35.9	35.9	33.1
Predominant Roof Material							
Built-Up	5.7	5.2	5.5	7.0	7.0	7.0	7.2
Shingles (Not Wood)	6.4	4.8	5.1	8.3	8.3	8.3	8.7
Metal Surfacing	7.8	7.5	7.2	9.5	9.5	9.5	8.6
Synthetic or Rubber	5.6	6.4	6.3	7.6	7.6	7.6	7.3
Slate or Tile	11.7	11.6	14.5	13.7	13.7	13.7	12.5
Wooden Materials	22.3	23.6	17.7	25.4	25.4	25.4	25.7
Concrete	31.2	45.7	42.3	43.0	43.0	43.0	30.9
Other	31.8	27.2	22.0	26.6	26.6	26.6	33.6
No One Major Type	34.2	32.6	26.7	34.1	34.1	34.1	33.0
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation Since 1980	7.0	5.5	6.7	6.6	6.6	6.6	6.7
Addition or Annex	10.5	9.4	11.7	9.6	9.6	9.6	9.3
Reduction In Floorspace	27.3	25.0	26.3	26.6	26.6	26.6	26.5
Cosmetic Improvements	7.5	6.1	7.2	7.0	7.0	7.0	7.1
Wall or Roof Replacement	12.8	8.2	11.9	9.2	9.2	9.2	10.7
Interior Wall Re-Configuration	9.6	7.0	9.8	8.2	8.2	8.2	8.7
HVAC Equipment Upgrade	8.4	6.5	7.3	7.5	7.5	7.5	8.5
Lighting Upgrade	8.7	7.0	8.0	7.9	7.9	7.9	8.2
Window Replacement	8.7	7.3	10.5	10.0	10.0	10.0	10.9
Plumbing System Upgrade	9.4	8.7	9.9	9.4	9.4	9.4	11.1
Insulation Upgrade	14.5	11.6	12.2	11.7	11.7	11.7	12.2
Other Renovation	36.7	25.7	37.4	28.6	28.6	28.6	32.9
No Renovations Since 1980	5.6	7.8	7.5	10.4	10.4	10.4	6.6
Building Newer than 1980	5.6	4.9	5.4	6.1	6.1	6.1	6.6

RSEs for Table C13. Total Electricity Consumption and Expenditures, 2003

	RSEs for All Buildings* Using Electricity			RSEs for Electricity Consumption			RSEs for Electricity Expenditures
				Primary	Site		
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total	Total	Total
All Buildings*	3.9	3.7	4.6	4.3	4.3	4.3	4.3
Energy Sources (more than one may apply)							
Electricity	3.9	3.7	4.6	4.3	4.3	4.3	4.3
Natural Gas	5.6	5.0	4.7	5.9	5.9	5.9	5.6
Fuel Oil	13.3	9.2	12.7	9.7	9.7	9.7	11.3
District Heat	14.2	15.1	13.5	16.0	16.0	16.0	16.5
District Chilled Water	18.6	14.8	17.6	17.5	17.5	17.5	18.3
Propane	16.8	15.8	15.6	17.1	17.1	17.1	16.7
Other	18.1	17.5	17.1	26.3	26.3	26.3	21.3
Space-Heating Energy Sources							
Electricity	7.4	5.0	6.1	5.7	5.7	5.7	6.1
Electricity Main	9.8	7.3	6.2	7.1	7.1	7.1	7.3
Electricity Secondary	8.3	7.1	8.9	10.7	10.7	10.7	9.8
Other Excluding Electricity	5.1	6.3	5.7	5.7	5.7	5.7	5.4
Buildings without Heating	11.3	11.2	10.5	22.3	22.3	22.3	27.2
Primary Space-Heating Energy Source							
Electricity	9.8	7.3	6.2	7.1	7.1	7.1	7.3
Natural Gas	5.9	5.2	4.5	6.2	6.2	6.2	5.9
Fuel Oil	13.8	29.7	25.8	18.4	18.4	18.4	16.9
District Heat	14.9	16.2	13.9	17.1	17.1	17.1	17.7
Propane	22.0	20.5	13.1	30.3	30.3	30.3	39.7
Other	26.9	28.3	20.9	37.7	37.7	37.7	30.9
Cooling Energy Sources							
Electricity	4.0	3.8	4.6	4.6	4.6	4.6	4.5
Other Excluding Electricity	18.0	16.4	19.1	19.3	19.3	19.3	23.5
Buildings without Cooling	9.6	16.5	13.5	35.0	35.0	35.0	20.4
Water-Heating Energy Sources							
Electricity	7.3	5.1	6.1	6.1	6.1	6.1	5.9
Other Excluding Electricity	5.0	5.2	5.4	5.9	5.9	5.9	6.1
Bldgs without Water Heating	8.5	12.1	11.3	28.2	28.2	28.2	16.5
Cooking Energy Sources							
Electricity	9.1	7.3	8.5	8.8	8.8	8.8	8.8
Other Excluding Electricity	8.1	13.7	12.3	11.9	11.9	11.9	11.1
Buildings without Cooking	4.1	3.9	4.5	5.1	5.1	5.1	5.0
Energy End Uses (more than one may apply)							
Buildings with Space Heating	3.8	3.8	4.7	4.3	4.3	4.3	4.3
Buildings with Cooling	3.9	3.6	4.6	4.3	4.3	4.3	4.4
Buildings with Water Heating	4.0	3.5	4.8	4.3	4.3	4.3	4.4
Buildings with Cooking	6.1	7.2	6.9	6.9	6.9	6.9	6.8
Buildings with Manufacturing	13.2	14.3	14.8	19.2	19.2	19.2	16.8
Buildings with Electricity Generation	8.2	7.3	9.0	7.4	7.4	7.4	9.2
Percent of Floorspace Heated							
Not Heated	11.3	11.2	10.5	22.3	22.3	22.3	27.2
1 to 50	9.0	10.4	8.0	15.9	15.9	15.9	13.9
51 to 99	7.6	8.2	8.8	9.5	9.5	9.5	9.1
100	4.4	5.0	5.3	5.2	5.2	5.2	5.0

RSEs for Table C13. Total Electricity Consumption and Expenditures, 2003

	RSEs for All Buildings* Using Electricity			RSEs for Electricity Consumption			RSEs for Electricity Expenditures
				Primary	Site		
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total	Total	Total
All Buildings*	3.9	3.7	4.6	4.3	4.3	4.3	4.3
Percent of Floorspace Cooled							
Not Cooled	9.6	16.5	13.5	35.0	35.0	35.0	20.4
1 to 50	6.3	6.7	7.0	8.9	8.9	8.9	8.6
51 to 99	6.9	6.9	8.0	6.3	6.3	6.3	6.9
100	4.9	4.7	4.8	6.0	6.0	6.0	6.3
Percent Lit When Open							
Zero	39.1	32.6	25.0	65.9	65.9	65.9	50.6
1 to 50	7.0	6.5	7.3	7.4	7.4	7.4	8.2
51 to 99	6.1	5.1	5.2	6.3	6.3	6.3	6.5
100	4.7	4.8	5.8	6.1	6.1	6.1	5.6
Building Never Open/ Electricity Not Used	27.7	30.3	27.4	30.0	30.0	30.0	32.9
Percent Lit When Closed							
Zero	5.1	6.1	5.8	7.8	7.8	7.8	6.0
1 to 50	4.2	4.5	4.9	5.4	5.4	5.4	4.9
51 to 100	13.9	11.2	12.6	19.6	19.6	19.6	18.5
Building Never Closed/ Electricity Not Used	11.9	6.1	12.4	8.1	8.1	8.1	9.5
Heating Equipment (more than one may apply)							
Heat Pumps	15.3	9.5	12.2	11.0	11.0	11.0	11.2
Packaged Heat Pumps	13.7	10.3	13.4	14.5	14.5	14.5	14.1
Split-System Heat Pumps	22.6	17.5	17.0	25.2	25.2	25.2	13.2
Individual Room Heat Pumps	16.9	13.0	16.3	13.5	13.5	13.5	15.4
Furnaces	6.1	5.6	5.0	6.3	6.3	6.3	6.6
Individual Space Heaters	10.0	6.7	9.3	8.7	8.7	8.7	7.5
District Heat	14.3	15.6	13.8	16.6	16.6	16.6	17.2
Boilers	7.1	8.3	6.2	9.1	9.1	9.1	8.1
Packaged Heating Units	6.7	5.6	5.4	6.3	6.3	6.3	6.8
Other	12.0	14.0	14.0	13.5	13.5	13.5	13.3
Cooling Equipment (more than one may apply)							
Residential-Type Central Air Conditioners	7.3	7.3	8.1	12.4	12.4	12.4	8.8
Heat Pumps	14.9	10.2	10.7	10.9	10.9	10.9	11.3
Packaged Heat Pumps	13.1	10.6	12.6	14.9	14.9	14.9	14.4
Split-System Heat Pumps	22.4	17.4	16.4	25.4	25.4	25.4	13.9
Individual Room Heat Pumps	16.8	13.8	14.3	15.5	15.5	15.5	16.4
Individual Air Conditioners	7.5	8.4	9.0	9.1	9.1	9.1	10.1
District Chilled Water	18.6	14.8	17.6	17.5	17.5	17.5	18.3
Central Chillers	9.9	8.8	9.3	10.5	10.5	10.5	10.3
Packaged Air Conditioning Units	5.3	5.3	5.5	5.1	5.1	5.1	5.1
Swamp Coolers	17.7	14.5	12.3	12.4	12.4	12.4	10.0
Other	28.9	16.9	21.4	18.5	18.5	18.5	20.7
Main Equipment Replaced Since 1990 (more than one may apply)							
Heating	5.9	5.6	5.3	8.0	8.0	8.0	8.4
Cooling	5.6	5.9	5.6	7.6	7.6	7.6	7.2

RSEs for Table C13. Total Electricity Consumption and Expenditures, 2003

	RSEs for All Buildings* Using Electricity			RSEs for Electricity Consumption			RSEs for Electricity Expenditures
				Primary	Site		
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total	Total	Total
All Buildings*	3.9	3.7	4.6	4.3	4.3	4.3	4.3
Water Heating Equipment							
Centralized System	4.3	3.6	5.1	4.9	4.9	4.9	4.9
Distributed System	9.6	9.2	8.5	9.4	9.4	9.4	10.1
Combination of Centralized and Distributed System	10.0	7.4	11.6	9.3	9.3	9.3	10.2
Lighting Equipment Types (more than one may apply)							
Incandescent	4.6	4.9	6.2	5.5	5.5	5.5	5.7
Standard Fluorescent	3.6	3.7	4.4	4.4	4.4	4.4	4.3
Compact Fluorescent	5.0	5.1	5.8	6.1	6.1	6.1	6.4
High Intensity Discharge	7.2	5.9	7.2	6.9	6.9	6.9	6.5
Halogen	8.3	5.6	8.5	7.1	7.1	7.1	7.1
Other	53.8	33.7	49.4	37.4	37.4	37.4	41.6
Refrigeration Equipment (more than one may apply)[a]							
Any Refrigeration	4.2	3.7	4.7	4.3	4.3	4.3	4.6
Commercial Refrigeration	5.2	5.8	5.6	5.9	5.9	5.9	5.8
Walk-In Units	4.8	6.9	7.8	6.0	6.0	6.0	6.3
Cases or Cabinets	6.4	5.9	6.4	6.5	6.5	6.5	6.7
Residential-Type Units	5.6	4.3	5.7	5.6	5.6	5.6	5.2
Vending Machines	5.1	4.5	4.9	5.1	5.1	5.1	5.7
No Refrigeration	6.9	10.0	9.2	17.0	17.0	17.0	9.7
Office Equipment (more than one may apply)							
Computers	4.0	3.8	4.5	4.5	4.5	4.5	4.6
With Flat Screen Monitors	6.5	5.3	7.3	6.5	6.5	6.5	6.8
Dedicated Servers	4.7	4.4	4.7	5.4	5.4	5.4	5.5
Laser Printers	4.2	4.1	4.8	5.1	5.1	5.1	5.4
Inkjet Printers	5.4	4.7	5.1	6.2	6.2	6.2	5.9
FAX Machines	4.0	3.8	4.7	4.5	4.5	4.5	4.6
Photocopiers	4.9	4.0	5.1	4.9	4.9	4.9	5.2
Number of Computers							
None	7.9	11.3	8.9	12.2	12.2	12.2	9.0
1 to 4	5.8	7.8	7.2	9.2	9.2	9.2	7.4
5 to 9	6.9	6.5	6.9	7.3	7.3	7.3	7.2
10 to 19	9.7	9.4	8.5	11.2	11.2	11.2	9.4
20 to 49	9.5	8.4	8.6	9.8	9.8	9.8	11.1
50 to 99	8.6	11.4	11.1	9.5	9.5	9.5	8.9
100 to 249	8.5	7.8	5.7	9.5	9.5	9.5	10.0
250 or More	8.7	9.1	6.9	10.1	10.1	10.1	10.6
Number of Dedicated Servers							
None	5.2	5.7	5.7	5.4	5.4	5.4	5.0
1 to 4	4.5	5.1	4.9	5.4	5.4	5.4	5.2
5 to 9	15.1	13.4	16.3	19.8	19.8	19.8	17.0
10 to 19	19.9	11.2	22.9	13.3	13.3	13.3	13.3
20 to 49	18.9	16.5	20.2	16.7	16.7	16.7	16.6
50 or More	35.4	19.3	27.9	18.9	18.9	18.9	21.6

RSEs for Table C13. Total Electricity Consumption and Expenditures, 2003

	RSEs for All Buildings* Using Electricity			RSEs for Electricity Consumption			RSEs for Electricity Expenditures
				Primary	Site		
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total	Total	Total
All Buildings*	3.9	3.7	4.6	4.3	4.3	4.3	4.3
Number of Photocopiers							
None	6.2	8.0	6.2	6.8	6.8	6.8	5.9
One	6.3	6.3	6.2	6.5	6.5	6.5	5.8
2 to 4	6.3	5.9	5.2	7.7	7.7	7.7	7.4
5 to 9	12.2	12.2	13.5	12.4	12.4	12.4	13.9
10 or More	9.0	9.3	9.9	10.4	10.4	10.4	10.6
Energy-Related Space Functions (more than one may apply)							
Commercial Food Preparation	6.2	7.2	6.9	6.9	6.9	6.9	6.8
Activities with Large Amounts of Hot Water	6.1	7.0	8.1	7.4	7.4	7.4	7.5
Separate Computer Area	6.6	5.5	6.7	7.0	7.0	7.0	6.8
HVAC Conservation Features (more than one may apply)							
Variable Air-Volume System	7.4	5.9	6.6	7.4	7.4	7.4	8.1
Economizer Cycle	6.7	5.3	6.8	6.5	6.5	6.5	6.6
HVAC Maintenance	4.3	4.5	5.0	4.9	4.9	4.9	4.8
Energy Management and Control System (EMCS)	11.5	6.7	10.4	7.6	7.6	7.6	8.4
Window and Interior Lighting Features (more than one may apply)							
Multipaned Windows	4.6	4.7	4.9	5.0	5.0	5.0	5.0
Tinted Window Glass	4.1	4.8	5.9	6.0	6.0	6.0	5.6
Reflective Window Glass	9.2	6.4	10.0	9.4	9.4	9.4	9.1
External Overhangs or Awnings	7.8	6.4	7.3	8.8	8.8	8.8	8.3
Skylights or Atriums	7.9	6.6	7.2	8.8	8.8	8.8	9.4
Daylighting Sensors	21.0	12.6	23.5	17.1	17.1	17.1	21.9
Specular Reflectors	5.6	5.7	6.6	6.9	6.9	6.9	7.1
Electronic Ballasts	5.9	4.1	5.7	5.0	5.0	5.0	5.1
Energy Management and Control System (EMCS) For Lighting	23.4	12.4	23.8	10.6	10.6	10.6	13.5
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]							
Heating	4.4	4.0	5.2	4.7	4.7	4.7	4.8
Cooling	4.8	4.1	5.5	5.0	5.0	5.0	5.1
Lighting	4.0	4.0	4.2	4.9	4.9	4.9	4.2
Office Equipment	5.6	5.5	5.8	8.5	8.5	8.5	7.4
Annual Consumption (kilowatthours)							
10,000 or Less	9.4	17.1	11.3	10.4	10.4	10.4	9.8
10,001 to 50,000	6.5	7.7	5.8	6.4	6.4	6.4	6.4
50,001 to 100,000	6.6	9.1	7.4	6.3	6.3	6.3	6.6
100,001 to 500,000	4.8	6.9	5.7	5.0	5.0	5.0	5.2
500,001 to 1,000,000	9.1	7.1	6.0	8.4	8.4	8.4	9.4
1,000,001 to 5,000,000	7.9	6.1	5.3	7.3	7.3	7.3	7.1
Over 5,000,000	10.2	12.2	6.1	11.4	11.4	11.4	12.4

RSEs for Table C13. Total Electricity Consumption and Expenditures, 2003

	RSEs for All Buildings* Using Electricity			RSEs for Electricity Consumption			RSEs for Electricity Expenditures
				Primary	Site		
	Number of Buildings	Floorspace	Floorspace per Building	Total	Total	Total	Total
All Buildings*	3.9	3.7	4.6	4.3	4.3	4.3	4.3
Provider of Purchased Electricity (more than one may apply)							
Local Utility	4.0	3.8	4.6	4.6	4.6	4.6	4.4
Some Other Provider	21.8	14.5	18.6	16.6	16.6	16.6	13.7

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

RSEs for Table C14. Electricity Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Electricity Consumption						RSEs for Electricity Expenditures		
				RSEs Not Available for Percentiles					
	per Building	per Square Foot	per Worker	25th Per-centile	Median	75th Per-centile	per Building	per Square Foot	per kWh
All Buildings*	5.2	3.2	6.2	_	_	_	5.5	4.0	2.1
Building Floorspace (Square Feet)									
1,001 to 5,000	5.2	5.8	5.5	_	_	_	5.7	6.0	2.4
5,001 to 10,000	7.9	7.7	6.2	_	_	_	10.4	10.2	3.9
10,001 to 25,000	9.2	9.0	6.5	_	_	_	7.7	7.5	3.5
25,001 to 50,000	6.4	6.2	5.5	_	_	_	6.7	6.5	4.3
50,001 to 100,000	6.4	6.5	5.2	_	_	_	6.5	6.6	3.6
100,001 to 200,000	7.2	8.0	23.7	_	_	_	8.9	9.5	5.1
200,001 to 500,000	9.0	8.6	7.6	_	_	_	10.5	10.1	5.1
Over 500,000	9.0	8.5	11.1	_	_	_	11.5	10.3	11.9
Principal Building Activity									
Education	8.5	5.4	22.9	_	_	_	8.0	5.0	2.7
Food Sales	10.4	8.1	10.6	_	_	_	8.1	9.1	5.9
Food Service	11.6	10.2	7.4	_	_	_	10.2	9.3	5.9
Health Care	12.7	5.1	5.8	_	_	_	11.9	5.7	4.1
Inpatient	9.1	4.8	7.5	_	_	_	10.3	5.8	4.6
Outpatient	12.0	10.4	9.8	_	_	_	11.6	10.2	4.9
Lodging	19.1	14.6	9.4	_	_	_	20.7	16.3	4.5
Retail (Other Than Mall)	13.5	8.4	9.6	_	_	_	14.4	9.8	6.0
Office	8.5	3.0	4.3	_	_	_	8.8	4.1	3.5
Public Assembly	17.5	18.0	18.7	_	_	_	22.0	22.9	10.0
Public Order and Safety	23.2	10.1	12.4	_	_	_	22.0	8.6	5.7
Religious Worship	11.1	7.4	12.7	_	_	_	10.0	6.8	3.9
Service	23.0	17.0	15.3	_	_	_	10.7	9.6	25.5
Warehouse and Storage	17.3	10.2	15.3	_	_	_	13.7	6.7	6.3
Other	30.1	24.8	20.7	_	_	_	30.7	26.1	7.8
Vacant	27.0	26.8	100.3	_	_	_	31.9	31.2	17.0
Year Constructed									
Before 1920	19.9	18.6	12.7	_	_	_	14.9	11.7	7.8
1920 to 1945	20.6	12.9	20.1	_	_	_	13.1	8.8	8.7
1946 to 1959	10.5	9.5	5.6	_	_	_	14.5	12.5	6.4
1960 to 1969	10.2	7.0	5.6	_	_	_	10.6	7.6	4.1
1970 to 1979	10.9	6.8	6.5	_	_	_	9.7	6.7	6.3
1980 to 1989	10.0	5.2	7.1	_	_	_	10.2	5.9	2.6
1990 to 1999	8.8	6.8	19.5	_	_	_	9.8	8.1	4.5
2000 to 2003	13.0	8.9	7.5	_	_	_	12.6	8.4	3.4
Census Region and Division									
Northeast	10.8	10.5	7.3	_	_	_	10.2	11.8	4.0
New England	23.2	20.7	20.9	_	_	_	24.4	22.3	3.4
Middle Atlantic	12.2	12.4	6.9	_	_	_	10.8	14.1	5.1
Midwest	10.0	6.7	4.9	_	_	_	9.8	7.5	3.1
East North Central	12.1	9.4	6.5	_	_	_	12.4	10.8	4.4
West North Central	11.1	4.5	6.3	_	_	_	11.5	3.6	2.3
South	9.8	4.0	14.1	_	_	_	8.9	4.5	2.8
South Atlantic	13.9	5.2	19.8	_	_	_	12.9	6.4	4.4
East South Central	27.3	9.3	8.8	_	_	_	24.7	6.8	2.5
West South Central	14.5	8.3	8.1	_	_	_	12.5	8.8	3.7
West	13.3	6.2	7.3	_	_	_	15.8	8.8	5.2
Mountain	28.9	12.9	15.7	_	_	_	31.7	16.6	4.5
Pacific	10.4	5.9	5.9	_	_	_	16.6	10.3	6.9

RSEs for Table C14. Electricity Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Electricity Consumption						RSEs for Electricity Expenditures		
				RSEs Not Available for Percentiles					
	per Building	per Square Foot	per Worker	25th Per-centile	Median	75th Per-centile	per Building	per Square Foot	per kWh
All Buildings*	5.2	3.2	6.2	_	_	_	5.5	4.0	2.1
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	9.3	5.9	6.9	_	_	_	9.7	6.5	2.2
5,500-7,000 HDD	12.3	7.8	5.8	_	_	_	14.1	9.9	5.0
4,000-5,499 HDD	18.8	9.4	6.8	_	_	_	17.1	11.3	8.2
Fewer than 4,000 HDD	9.3	5.8	6.5	_	_	_	10.5	6.7	4.7
2,000 CDD or More and --									
Fewer than 4,000 HDD	10.6	5.9	23.2	_	_	_	10.8	7.5	2.7
Number of Floors									
One	6.6	3.7	4.6	_	_	_	5.6	4.0	3.2
Two	8.0	7.1	5.6	_	_	_	8.4	7.7	4.0
Three	11.6	8.3	6.9	_	_	_	10.8	8.2	2.9
Four to Nine	11.0	8.0	19.7	_	_	_	11.4	8.9	7.2
Ten or More	9.2	6.6	9.8	_	_	_	12.2	9.7	7.4
Elevators and Escalators (more than one may apply)									
Any Elevators	7.2	3.6	10.7	_	_	_	7.8	5.0	3.8
Number of Elevators									
One	8.3	5.5	6.0	_	_	_	8.6	6.1	2.8
Two to Five	6.4	6.3	18.8	_	_	_	7.0	7.7	3.5
Six or More	13.4	7.2	8.9	_	_	_	13.8	8.8	10.5
Any Escalators	35.6	13.5	21.5	_	_	_	36.5	17.8	21.9
Number of Workers (main shift)									
Fewer than 5	12.5	8.0	12.4	_	_	_	7.7	6.9	6.0
5 to 9	5.8	7.0	5.6	_	_	_	5.7	7.0	3.1
10 to 19	5.6	10.6	5.5	_	_	_	5.9	10.1	2.8
20 to 49	5.6	7.0	5.9	_	_	_	5.8	7.3	4.1
50 to 99	7.3	6.0	7.0	_	_	_	7.5	5.9	4.0
100 to 249	7.0	7.0	5.5	_	_	_	6.7	8.9	4.5
250 or More	8.8	4.7	15.1	_	_	_	9.0	6.1	7.0
Weekly Operating Hours									
Fewer than 40	10.2	11.1	15.5	_	_	_	9.3	11.6	5.7
40 to 48	8.2	7.3	5.0	_	_	_	7.2	6.4	3.1
49 to 60	9.4	4.9	7.0	_	_	_	7.3	4.7	4.4
61 to 84	7.0	5.6	4.4	_	_	_	6.6	5.2	2.4
85 to 167	8.0	6.1	26.2	_	_	_	7.2	6.1	3.6
Open Continuously	13.8	5.4	5.8	_	_	_	13.9	7.9	5.9
Ownership and Occupancy									
Nongovernment Owned	5.7	3.9	3.2	_	_	_	6.2	4.7	2.0
Owner Occupied	6.6	4.4	3.9	_	_	_	7.3	5.8	3.0
Nonowner Occupied	7.9	4.6	4.6	_	_	_	7.9	5.0	2.3
Unoccupied	43.5	40.7	0.0	_	_	_	47.7	45.8	10.6
Government Owned	9.5	5.0	18.0	_	_	_	8.3	4.3	5.3
Federal	42.4	14.4	29.8	_	_	_	34.6	12.0	27.7
State	19.9	8.2	29.6	_	_	_	18.9	8.2	3.2
Local	8.0	6.2	7.6	_	_	_	7.7	5.1	3.5

RSEs for Table C14. Electricity Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Electricity Consumption						RSEs for Electricity Expenditures		
				RSEs Not Available for Percentiles					
	per Building	per Square Foot	per Worker	25th Per-centile	Median	75th Per-centile	per Building	per Square Foot	per kWh
All Buildings*	5.2	3.2	6.2	_	_	_	5.5	4.0	2.1
Vacancy Status									
Completely Vacant	36.2	36.6	0.0	_	_	_	39.3	40.5	10.0
Mostly Vacant	38.4	30.5	83.3	_	_	_	49.7	37.1	36.9
Partially Vacant	8.8	4.2	6.1	_	_	_	9.6	5.8	4.6
Not At All Vacant	5.6	3.7	7.7	_	_	_	5.8	4.2	2.4
Number of Establishments									
One	5.8	3.8	3.0	_	_	_	6.0	4.7	2.6
2 to 5	7.3	4.8	5.9	_	_	_	9.0	6.7	4.8
6 to 10	20.6	11.1	27.2	_	_	_	18.7	10.5	4.9
11 to 20	18.6	9.4	8.1	_	_	_	18.5	8.9	7.6
More than 20	45.7	9.0	12.7	_	_	_	48.8	12.0	11.7
Currently Unoccupied	36.2	36.6	0.0	_	_	_	39.3	40.5	10.0
Predominant Exterior Wall Material									
Brick, Stone or Stucco	5.6	4.0	4.2	_	_	_	4.9	4.1	2.4
Concrete (Block or Poured)	9.0	6.3	6.1	_	_	_	9.0	7.0	3.3
Concrete Panels	16.6	8.4	25.1	_	_	_	15.3	8.9	9.7
Siding or Shingles	14.3	14.9	8.5	_	_	_	18.9	19.4	7.8
Metal Panels	12.9	10.3	9.3	_	_	_	14.4	10.9	7.5
Window Glass	38.0	14.2	14.0	_	_	_	35.9	12.6	11.9
Other	40.2	11.6	18.6	_	_	_	39.9	11.9	8.9
No One Major Type	49.8	19.0	24.9	_	_	_	49.3	22.5	19.7
Predominant Roof Material									
Built-Up	7.7	5.1	4.6	_	_	_	7.9	5.6	2.4
Shingles (Not Wood)	9.0	7.6	6.8	_	_	_	9.4	8.4	4.1
Metal Surfacing	8.8	5.8	8.8	_	_	_	8.2	5.3	4.6
Synthetic or Rubber	7.7	4.6	15.6	_	_	_	7.2	5.6	4.5
Slate or Tile	14.2	10.2	10.0	_	_	_	12.9	10.6	6.5
Wooden Materials	19.7	13.7	20.1	_	_	_	17.5	14.5	6.7
Concrete	39.8	61.6	43.5	_	_	_	27.5	56.1	14.5
Other	28.3	15.4	30.9	_	_	_	34.9	19.2	14.9
No One Major Type	36.6	28.9	19.8	_	_	_	35.6	27.0	9.6
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	7.8	4.7	4.3	_	_	_	8.0	5.2	2.7
Addition or Annex	12.4	8.5	7.5	_	_	_	11.7	8.8	3.6
Reduction In Floorspace	28.5	16.8	19.7	_	_	_	30.7	17.7	15.7
Cosmetic Improvements	7.5	4.9	5.3	_	_	_	8.5	5.6	3.1
Wall or Roof Replacement	14.4	7.5	6.4	_	_	_	15.1	9.1	4.6
Interior Wall Re-Configuration	10.8	5.7	6.4	_	_	_	10.8	6.6	3.9
HVAC Equipment Upgrade	8.7	4.7	5.1	_	_	_	9.6	5.5	3.5
Lighting Upgrade	9.0	5.6	5.6	_	_	_	9.0	6.3	3.6
Window Replacement	11.7	9.7	7.4	_	_	_	12.2	11.2	4.9
Plumbing System Upgrade	11.9	6.7	7.5	_	_	_	13.1	9.0	5.0
Insulation Upgrade	14.9	9.0	10.6	_	_	_	14.9	7.7	4.4
Other Renovation	37.8	25.2	29.2	_	_	_	46.0	27.0	11.2
No Renovations Since 1980	10.3	6.9	7.5	_	_	_	7.1	6.4	6.9
Building Newer than 1980	6.2	3.6	11.1	_	_	_	6.8	4.4	2.5

RSEs for Table C14. Electricity Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Electricity Consumption						RSEs for Electricity Expenditures		
				RSEs Not Available for Percentiles					
	per Building	per Square Foot	per Worker	25th Per-centile	Median	75th Per-centile	per Building	per Square Foot	per kWh
All Buildings*	5.2	3.2	6.2	_	_	_	5.5	4.0	2.1
Energy Sources (more than one may apply)									
Electricity	5.2	3.2	6.2	_	_	_	5.5	4.0	2.1
Natural Gas	6.3	4.2	4.0	_	_	_	6.1	4.3	2.6
Fuel Oil	14.8	4.6	6.3	_	_	_	16.0	6.6	4.4
District Heat	14.5	5.2	27.1	_	_	_	16.6	9.4	7.5
District Chilled Water	18.3	7.7	30.6	_	_	_	19.1	8.3	4.8
Propane	18.3	7.7	14.0	_	_	_	17.7	13.1	9.1
Other	27.2	17.2	18.4	_	_	_	22.9	16.2	10.4
Space-Heating Energy Sources									
Electricity	7.3	3.6	4.2	_	_	_	7.2	4.0	3.2
Electricity Main	8.1	4.6	5.3	_	_	_	8.1	4.4	2.7
Electricity Secondary	12.4	6.6	7.4	_	_	_	11.1	6.7	6.5
Other Excluding Electricity	5.9	4.8	10.2	_	_	_	6.0	5.5	2.8
Buildings without Heating	20.5	17.3	15.1	_	_	_	26.3	20.3	10.4
Primary Space-Heating Energy Source									
Electricity	8.1	4.6	5.3	_	_	_	8.1	4.4	2.7
Natural Gas	7.0	4.5	4.0	_	_	_	6.7	4.7	3.0
Fuel Oil	14.9	30.5	12.3	_	_	_	12.8	29.5	3.3
District Heat	15.0	4.9	28.2	_	_	_	17.4	9.8	7.9
Propane	24.3	23.7	7.5	_	_	_	37.2	37.0	18.7
Other	37.0	21.7	19.5	_	_	_	32.8	19.3	16.8
Cooling Energy Sources									
Electricity	4.9	3.1	3.0	_	_	_	5.2	3.8	2.2
Other Excluding Electricity	20.1	9.3	30.1	_	_	_	25.0	15.5	12.6
Buildings without Cooling	33.9	21.6	34.0	_	_	_	19.2	12.0	13.3
Water-Heating Energy Sources									
Electricity	6.8	4.4	3.7	_	_	_	7.0	4.4	2.3
Other Excluding Electricity	6.7	4.5	10.7	_	_	_	6.6	5.4	3.3
Bldgs without Water Heating	27.7	17.5	27.4	_	_	_	15.7	9.5	11.6
Cooking Energy Sources									
Electricity	9.4	4.7	5.3	_	_	_	10.2	5.3	3.4
Other Excluding Electricity	11.4	13.8	8.1	_	_	_	10.6	14.3	8.6
Buildings without Cooking	6.0	3.6	8.5	_	_	_	6.2	4.1	2.1
Energy End Uses (more than one may apply)									
Buildings with Space Heating	5.1	3.2	6.3	_	_	_	5.3	4.1	2.1
Buildings with Cooling	4.9	2.9	6.3	_	_	_	5.3	3.7	2.1
Buildings with Water Heating	5.1	3.4	6.3	_	_	_	5.4	4.1	2.2
Buildings with Cooking	7.6	5.9	4.5	_	_	_	7.8	6.9	3.7
Buildings with Manufacturing	22.1	13.8	14.0	_	_	_	19.8	13.0	7.7
Buildings with Electricity Generation	8.7	3.9	4.9	_	_	_	10.0	5.5	4.0

RSEs for Table C14. Electricity Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Electricity Consumption						RSEs for Electricity Expenditures		
				RSEs Not Available for Percentiles					
	per Building	per Square Foot	per Worker	25th Per-centile	Median	75th Per-centile	per Building	per Square Foot	per kWh
All Buildings*	5.2	3.2	6.2	_	_	_	5.5	4.0	2.1
Percent of Floorspace Heated									
Not Heated	20.5	17.3	15.1	_	_	_	26.3	20.3	10.4
1 to 50	15.7	12.2	12.4	_	_	_	12.6	8.6	7.2
51 to 99	9.7	5.5	6.6	_	_	_	9.2	5.5	4.1
100	5.6	4.0	7.5	_	_	_	5.6	4.7	2.3
Percent of Floorspace Cooled									
Not Cooled	33.9	21.6	34.0	_	_	_	19.2	12.0	13.3
1 to 50	7.9	6.4	6.2	_	_	_	8.2	6.8	4.5
51 to 99	7.2	5.1	4.5	_	_	_	7.6	5.5	2.8
100	6.1	3.0	10.3	_	_	_	6.3	4.0	3.0
Percent Lit When Open									
Zero	76.9	69.6	61.8	_	_	_	62.7	52.8	48.9
1 to 50	8.8	7.4	8.5	_	_	_	9.4	8.4	2.8
51 to 99	7.3	4.3	12.1	_	_	_	7.6	4.6	2.8
100	6.7	4.0	4.2	_	_	_	6.6	4.8	2.9
Building Never Open/ Electricity Not Used	33.4	31.0	31.1	_	_	_	35.0	33.1	15.3
Percent Lit When Closed									
Zero	8.4	5.5	17.2	_	_	_	6.9	5.1	3.5
1 to 50	5.2	4.1	3.3	_	_	_	5.2	4.2	2.0
51 to 100	17.4	12.3	9.9	_	_	_	16.3	11.5	4.0
Building Never Closed/ Electricity Not Used	13.8	5.4	5.8	_	_	_	13.9	7.9	5.9
Heating Equipment (more than one may apply)									
Heat Pumps	16.4	8.4	8.0	_	_	_	14.1	8.8	7.3
Packaged Heat Pumps	17.4	10.3	11.0	_	_	_	14.7	11.0	10.4
Split-System Heat Pumps	30.5	18.6	16.0	_	_	_	18.6	12.7	28.5
Individual Room Heat Pumps	17.6	8.6	11.6	_	_	_	18.2	9.9	5.4
Furnaces	6.4	4.8	4.9	_	_	_	6.4	5.2	2.2
Individual Space Heaters	12.3	6.3	5.8	_	_	_	10.8	5.5	6.9
District Heat	14.9	5.4	27.8	_	_	_	17.1	9.7	7.7
Boilers	8.3	7.2	5.5	_	_	_	8.4	7.4	4.3
Packaged Heating Units	6.1	4.4	5.1	_	_	_	7.0	5.2	2.9
Other	14.3	8.2	9.3	_	_	_	13.7	9.6	6.3
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	11.8	10.1	7.5	_	_	_	8.5	8.5	7.9
Heat Pumps	14.2	7.5	7.7	_	_	_	12.7	8.1	6.8
Packaged Heat Pumps	16.8	10.2	11.4	_	_	_	14.4	11.1	10.4
Split-System Heat Pumps	29.6	17.9	15.8	_	_	_	17.2	12.1	28.5
Individual Room Heat Pumps	14.7	7.9	14.1	_	_	_	16.2	8.7	5.3
Individual Air Conditioners	9.3	6.5	7.0	_	_	_	9.8	7.6	4.6
District Chilled Water	18.3	7.7	30.6	_	_	_	19.1	8.3	4.8
Central Chillers	9.9	4.3	6.9	_	_	_	10.8	5.2	5.8
Packaged Air Conditioning Units	4.9	4.5	3.9	_	_	_	5.5	5.1	2.4
Swamp Coolers	12.6	7.6	10.4	_	_	_	14.8	15.2	11.1
Other	21.8	12.4	12.9	_	_	_	21.6	14.9	7.5

RSEs for Table C14. Electricity Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Electricity Consumption						RSEs for Electricity Expenditures		
				RSEs Not Available for Percentiles					
	per Building	per Square Foot	per Worker	25th Per-centile	Median	75th Per-centile	per Building	per Square Foot	per kWh
All Buildings*	5.2	3.2	6.2	_	_	_	5.5	4.0	2.1
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	7.8	6.0	5.3	_	_	_	8.3	6.6	2.3
Cooling	7.8	5.0	5.0	_	_	_	7.6	5.7	3.9
Water Heating Equipment									
Centralized System	5.3	4.0	3.2	_	_	_	5.5	4.6	2.1
Distributed System	8.6	6.4	5.6	_	_	_	9.7	7.2	4.0
Combination of Centralized and Distributed System	13.7	5.9	18.1	_	_	_	14.2	6.3	5.7
Lighting Equipment Types (more than one may apply)									
Incandescent	6.7	4.5	8.0	_	_	_	7.1	5.4	2.8
Standard Fluorescent	5.0	3.2	6.3	_	_	_	5.2	4.0	2.2
Compact Fluorescent	6.7	3.7	4.0	_	_	_	6.8	5.0	3.4
High Intensity Discharge	8.2	4.2	12.7	_	_	_	7.9	5.3	4.2
Halogen	9.2	4.3	4.5	_	_	_	9.2	5.1	4.2
Other	45.9	15.4	21.0	_	_	_	41.4	25.0	11.4
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	5.2	3.4	6.6	_	_	_	5.6	4.2	2.3
Commercial Refrigeration	6.1	4.8	4.4	_	_	_	6.2	5.7	3.0
Walk-In Units	6.5	6.2	4.6	_	_	_	6.8	7.0	3.5
Cases or Cabinets	6.9	4.0	5.0	_	_	_	6.8	5.3	3.4
Residential-Type Units	6.3	4.4	8.2	_	_	_	6.1	4.8	3.1
Vending Machines	5.5	3.2	8.8	_	_	_	6.1	4.0	2.6
No Refrigeration	17.1	9.9	17.4	_	_	_	10.0	5.9	8.0
Office Equipment (more than one may apply)									
Computers	4.7	3.2	6.4	_	_	_	5.0	4.1	2.2
With Flat Screen Monitors	7.6	3.1	9.0	_	_	_	7.8	4.6	3.4
Dedicated Servers	5.1	3.2	7.6	_	_	_	5.1	4.2	2.7
Laser Printers	5.9	4.0	9.9	_	_	_	6.1	5.0	3.1
Inkjet Printers	6.4	3.2	3.8	_	_	_	6.1	3.5	3.2
FAX Machines	4.9	3.3	6.4	_	_	_	5.0	4.1	2.3
Photocopiers	5.0	3.2	6.9	_	_	_	5.1	4.3	2.6
Number of Computers									
None	10.8	7.2	13.7	_	_	_	7.8	8.4	6.3
1 to 4	8.2	8.1	6.5	_	_	_	6.3	8.2	3.8
5 to 9	8.9	6.0	7.4	_	_	_	8.1	5.5	3.1
10 to 19	9.8	8.3	8.3	_	_	_	8.7	7.4	4.6
20 to 49	10.8	6.7	7.5	_	_	_	11.8	9.0	6.2
50 to 99	8.4	10.1	8.3	_	_	_	9.0	10.1	3.3
100 to 249	8.5	5.2	6.7	_	_	_	8.4	5.1	3.1
250 or More	8.0	5.0	14.8	_	_	_	8.7	6.6	6.6

RSEs for Table C14. Electricity Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Electricity Consumption						RSEs for Electricity Expenditures		
				RSEs Not Available for Percentiles					
	per Building	per Square Foot	per Worker	25th Per-centile	Median	75th Per-centile	per Building	per Square Foot	per kWh
All Buildings*	5.2	3.2	6.2	_	_	_	5.5	4.0	2.1
Number of Dedicated Servers									
None	5.5	4.7	5.8	_	_	_	5.5	5.7	2.6
1 to 4	4.3	4.2	3.6	_	_	_	4.3	4.1	2.3
5 to 9	19.1	11.1	11.4	_	_	_	12.1	15.6	16.5
10 to 19	24.7	7.6	25.7	_	_	_	23.2	9.1	5.6
20 to 49	19.0	7.6	10.8	_	_	_	19.7	7.3	3.5
50 or More	28.1	10.0	13.6	_	_	_	29.9	13.1	7.5
Number of Photocopiers									
None	7.0	6.0	8.2	_	_	_	6.5	7.2	3.4
One	5.8	5.7	5.1	_	_	_	4.9	5.6	3.3
2 to 4	5.9	4.8	4.5	_	_	_	5.8	5.0	3.1
5 to 9	11.5	10.3	24.8	_	_	_	12.2	12.4	5.1
10 or More	11.5	4.8	6.6	_	_	_	10.7	6.5	7.2
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	7.6	5.9	4.5	_	_	_	7.8	6.9	3.7
Activities with Large Amounts of Hot Water	8.7	6.6	5.0	_	_	_	8.5	7.4	4.2
Separate Computer Area	7.6	3.7	4.0	_	_	_	8.0	4.8	3.6
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	8.1	3.3	11.7	_	_	_	8.9	4.9	4.2
Economizer Cycle	7.7	3.0	11.2	_	_	_	8.1	4.0	3.6
HVAC Maintenance	5.2	3.5	7.0	_	_	_	5.6	4.5	2.4
Energy Management and Control System (EMCS)	11.4	3.6	4.8	_	_	_	10.9	4.9	4.7
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	5.4	4.2	3.0	_	_	_	5.9	4.6	1.9
Tinted Window Glass	7.1	3.5	9.8	_	_	_	6.8	4.4	3.1
Reflective Window Glass	12.0	6.0	7.8	_	_	_	11.8	7.3	8.0
External Overhangs or Awnings	8.7	5.9	14.7	_	_	_	9.1	6.1	3.6
Skylights or Atriums	8.9	5.7	6.5	_	_	_	9.5	6.7	3.8
Daylighting Sensors	21.7	11.3	13.1	_	_	_	20.7	18.1	9.6
Specular Reflectors	7.4	3.7	4.3	_	_	_	7.6	5.1	3.8
Electronic Ballasts	6.4	3.0	7.4	_	_	_	6.6	4.0	2.5
Energy Management and Control System (EMCS) For Lighting	22.7	6.0	8.5	_	_	_	23.1	7.5	5.8
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	5.9	3.9	3.0	_	_	_	6.1	4.8	2.5
Cooling	5.8	3.3	7.4	_	_	_	6.2	4.3	2.5
Lighting	4.9	3.3	7.4	_	_	_	4.8	3.3	2.0
Office Equipment	7.7	6.2	5.7	_	_	_	6.4	5.8	3.5

RSEs for Table C14. Electricity Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Electricity Consumption						RSEs for Electricity Expenditures		
				RSEs Not Available for Percentiles					
	per Building	per Square Foot	per Worker	25th Per-centile	Median	75th Per-centile	per Building	per Square Foot	per kWh
All Buildings*	5.2	3.2	6.2	_	_	_	5.5	4.0	2.1
Annual Consumption (kilowatthours)									
10,000 or Less	3.8	10.7	9.4	_	_	_	5.6	12.8	4.0
10,001 to 50,000	1.6	5.7	4.6	_	_	_	3.2	5.5	2.9
50,001 to 100,000	1.1	7.9	7.4	_	_	_	3.6	7.1	3.3
100,001 to 500,000	1.8	6.0	4.9	_	_	_	2.2	5.8	1.7
500,001 to 1,000,000	1.9	5.7	5.6	_	_	_	5.1	6.3	4.5
1,000,001 to 5,000,000	3.8	3.6	16.4	_	_	_	4.3	4.9	3.0
Over 5,000,000	6.4	5.8	7.8	_	_	_	8.5	8.2	7.7
Provider of Purchased Electricity (more than one may apply)									
Local Utility	5.4	3.6	6.7	_	_	_	5.6	4.1	2.0
Some Other Provider	22.2	8.5	10.4	_	_	_	19.2	10.8	13.8

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

RSEs for Table C15. Electricity Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	9.8	10.6	6.0	9.0	9.5	9.8	4.7	4.6	10.5	6.7	4.0	6.2
Building Floorspace (Square Feet)												
1,001 to 5,000	12.2	11.7	13.7	12.8	14.6	13.6	11.8	13.5	12.3	10.4	8.9	12.4
5,001 to 10,000	15.2	21.8	12.1	27.3	11.5	18.8	9.3	15.2	15.9	14.3	7.7	25.7
10,001 to 25,000	23.0	15.2	17.3	10.3	15.4	13.5	9.3	11.3	26.2	12.9	17.0	11.3
25,001 to 50,000	21.4	13.9	16.9	15.5	12.6	10.2	11.5	11.9	17.6	10.2	12.5	9.3
50,001 to 100,000	19.5	21.5	10.7	20.7	13.9	19.0	9.6	19.0	18.4	16.6	5.7	10.8
100,001 to 200,000	27.3	22.6	22.6	9.7	28.0	18.9	20.5	14.7	36.6	9.9	9.1	9.4
200,001 to 500,000	21.3	22.6	15.9	15.1	30.2	31.4	15.6	18.6	34.7	11.1	5.9	11.2
Over 500,000	16.5	15.4	31.8	43.4	16.2	22.7	32.7	38.7	8.9	16.8	13.5	24.7
Principal Building Activity												
Education	18.1	16.1	13.2	13.1	19.3	13.2	10.4	10.6	10.2	11.9	6.5	12.9
Food Sales	22.2	31.3	29.7	39.7	15.3	29.6	26.5	43.4	14.4	13.4	12.1	39.3
Food Service	27.9	27.1	24.0	34.0	35.9	25.8	20.5	29.8	18.5	21.8	14.1	12.9
Health Care	16.0	15.4	13.2	14.1	12.6	13.5	14.4	15.1	15.2	6.2	10.1	7.3
Inpatient	23.8	12.6	16.2	15.8	20.7	11.6	16.4	19.9	14.1	8.5	6.8	7.8
Outpatient	27.7	30.6	20.4	21.6	27.8	23.5	23.2	16.8	14.6	14.1	25.0	14.8
Lodging	26.9	14.3	18.5	41.4	40.2	14.4	15.9	17.2	64.5	7.8	5.9	33.9
Retail (Other Than Mall)	23.6	24.3	22.4	23.3	12.7	24.8	14.1	18.0	16.5	10.4	16.2	9.5
Office	13.7	14.9	14.7	14.4	12.8	11.0	15.5	15.2	5.4	7.5	4.5	6.0
Public Assembly	29.9	26.2	23.5	48.1	31.7	24.7	21.0	17.5	74.1	14.2	19.7	44.1
Public Order and Safety	39.2	31.8	50.5	33.1	36.8	32.8	40.7	32.5	22.0	9.1	26.9	8.5
Religious Worship	23.2	12.4	15.5	30.6	26.2	18.4	15.9	13.7	17.1	10.2	9.5	28.2
Service	22.4	21.0	46.7	35.1	21.5	20.3	21.1	26.2	16.8	13.5	40.2	15.5
Warehouse and Storage	24.2	39.1	16.3	39.3	23.5	26.2	18.3	25.8	27.2	16.0	13.9	22.0
Other	39.3	37.5	63.3	55.2	27.3	31.4	64.7	38.4	18.5	19.6	146.0	28.0
Vacant	50.8	41.4	50.4	54.6	46.1	48.1	41.3	47.0	23.7	43.5	39.1	45.0
Year Constructed												
Before 1920	40.9	14.9	50.5	34.6	22.2	17.4	47.0	27.3	41.7	10.9	21.5	29.7
1920 to 1945	23.0	44.8	25.1	18.2	25.9	30.0	23.1	23.3	24.2	17.0	14.7	13.9
1946 to 1959	29.2	18.3	19.6	22.7	24.3	12.7	24.4	19.8	31.9	10.6	11.7	12.3
1960 to 1969	21.4	18.3	14.2	19.5	23.7	13.8	12.8	16.0	14.3	15.3	10.5	16.4
1970 to 1979	16.9	18.3	15.9	20.5	14.9	17.1	7.4	19.3	14.2	15.0	12.3	7.0
1980 to 1989	19.4	15.7	11.7	22.1	20.3	11.8	10.7	14.8	16.6	8.1	6.8	15.1
1990 to 1999	27.3	17.1	14.0	21.4	17.5	15.9	9.4	12.9	21.6	9.9	10.1	17.7
2000 to 2003	39.4	26.3	17.4	23.3	31.7	20.7	10.8	20.8	13.7	15.2	14.1	17.1
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	43.1	12.5	0.0	24.6	35.3	13.5	0.0	20.1	22.7	8.3	0.0	6.9
5,500-7,000 HDD	20.4	18.0	0.0	38.8	15.7	18.1	0.0	25.0	11.5	10.8	0.0	22.6
4,000-5,499 HDD	28.0	20.5	37.8	55.8	21.6	21.2	35.4	46.6	22.4	1.3	5.3	17.8
Fewer than 4,000 HDD	0.0	0.0	16.3	15.0	0.0	0.0	16.0	10.2	0.0	0.0	7.8	8.5
2,000 CDD or More and --												
Fewer than 4,000 HDD	0.0	0.0	11.1	34.4	0.0	0.0	8.9	33.6	0.0	0.0	6.2	14.9
Number of Floors												
One	10.9	19.1	8.7	9.7	14.2	15.6	7.2	7.8	13.0	7.2	5.9	4.6
Two	13.4	16.4	16.8	16.8	16.6	12.9	10.0	9.4	14.5	13.2	10.1	12.9
Three	30.8	19.7	13.2	12.8	15.1	10.6	13.0	10.5	29.9	16.4	6.6	12.6
Four to Nine	20.6	15.2	26.1	16.9	24.7	12.9	25.3	16.4	27.1	11.5	3.8	8.5
Ten or More	15.7	15.5	25.2	43.4	14.7	21.3	30.2	40.7	8.0	11.5	7.4	30.1

RSEs for Table C15. Electricity Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	9.8	10.6	6.0	9.0	9.5	9.8	4.7	4.6	10.5	6.7	4.0	6.2
Elevators and Escalators (more than one may apply)												
Any Elevators	13.9	10.9	13.3	16.8	10.7	8.7	12.1	12.7	11.2	7.6	4.2	7.3
Number of Elevators												
One	26.6	16.3	12.5	18.9	20.5	12.7	10.7	21.3	20.5	7.8	7.8	16.7
Two to Five	23.7	15.9	16.6	18.2	17.6	13.8	15.6	13.8	21.5	12.5	6.1	10.4
Six or More	15.7	13.8	26.1	36.0	16.3	15.3	27.8	34.4	5.8	12.6	11.5	22.9
Any Escalators	37.8	44.2	37.6	65.2	36.8	43.3	34.2	45.6	20.1	13.4	16.2	47.2
Number of Workers (main shift)												
Fewer than 5	15.5	31.7	15.1	16.4	17.5	22.2	14.9	13.1	17.6	14.2	9.9	16.6
5 to 9	22.5	18.1	14.5	10.6	23.9	15.5	11.2	15.8	16.5	13.7	11.9	9.5
10 to 19	23.7	16.5	11.8	21.5	30.3	10.2	9.5	13.6	38.6	14.5	12.4	17.4
20 to 49	25.5	16.8	16.2	18.3	27.8	14.7	15.7	18.5	37.5	10.7	5.5	9.6
50 to 99	33.9	13.1	14.0	12.1	17.3	15.5	11.8	14.5	26.4	7.6	5.6	6.0
100 to 249	23.8	19.4	16.0	20.4	17.0	16.6	13.2	20.1	15.1	12.5	11.3	17.4
250 or More	13.3	9.9	20.6	28.6	14.1	16.8	22.3	25.1	5.5	12.2	8.1	12.7
Weekly Operating Hours												
Fewer than 40	31.7	16.8	17.5	30.7	23.8	24.7	15.4	17.0	18.6	20.4	15.3	22.2
40 to 48	15.2	23.8	8.8	16.8	21.0	10.6	11.9	11.3	25.9	17.3	9.0	10.2
49 to 60	15.4	30.2	11.7	11.5	12.6	20.8	8.4	13.0	9.4	12.0	6.8	6.3
61 to 84	19.0	18.9	9.8	11.9	12.6	16.4	12.5	13.0	11.9	10.0	11.8	8.8
85 to 167	18.1	14.6	15.0	9.6	22.5	13.1	15.3	10.7	16.5	12.2	9.3	11.1
Open Continuously	16.6	8.9	15.0	22.0	13.9	8.4	12.1	13.1	13.9	7.3	7.9	13.7
Ownership and Occupancy												
Nongovernment Owned	10.8	9.1	6.3	12.3	10.0	8.9	6.5	6.7	11.9	8.3	5.4	7.0
Owner Occupied	13.1	12.0	11.3	16.4	10.3	8.0	12.3	11.2	13.2	8.2	6.0	10.5
Nonowner Occupied	15.9	13.1	9.8	17.7	14.3	13.7	8.0	10.7	15.2	7.3	7.1	10.7
Unoccupied	87.2	50.4	50.4	79.7	70.2	53.4	41.3	74.6	21.9	54.1	39.1	6.4
Government Owned	15.3	22.6	11.2	16.0	14.7	15.8	6.8	9.6	9.0	9.2	8.2	11.4
Federal	39.7	54.7	55.7	37.8	36.7	57.1	43.5	50.6	33.2	3.9	32.7	16.0
State	31.0	38.0	28.2	19.0	20.1	32.0	21.0	19.4	19.0	14.2	10.5	10.2
Local	25.7	17.2	15.4	21.2	19.7	12.2	13.1	10.0	14.7	13.0	7.3	17.7
Vacancy Status												
Completely Vacant	73.6	50.3	50.4	79.7	55.2	50.8	41.3	74.6	32.9	52.9	39.1	6.4
Mostly Vacant	64.6	60.1	X	58.6	62.7	71.2	X	51.8	33.2	21.2	X	22.5
Partially Vacant	14.6	12.3	14.8	25.7	12.1	13.1	16.8	21.2	7.8	10.2	6.6	10.3
Not At All Vacant	10.3	13.2	5.7	10.1	12.3	9.5	4.0	5.5	14.8	7.3	4.9	6.9
Number of Establishments												
One	11.4	11.7	5.8	11.0	15.1	11.4	5.0	5.0	17.7	6.2	4.3	8.2
2 to 5	18.2	19.9	8.1	22.4	13.2	12.9	10.7	18.3	15.5	10.7	6.6	7.6
6 to 10	36.3	19.7	46.7	22.6	24.7	18.5	43.9	22.0	26.7	17.8	12.8	15.9
11 to 20	28.4	24.4	29.3	31.0	29.5	22.8	29.0	32.6	18.0	8.4	15.1	13.2
More than 20	20.8	45.5	27.5	46.1	20.3	43.8	24.4	43.4	8.4	21.7	15.5	9.4
Currently Unoccupied	73.6	50.3	50.4	79.7	55.2	50.8	41.3	74.6	32.9	52.9	39.1	6.4

RSEs for Table C15. Electricity Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	9.8	10.6	6.0	9.0	9.5	9.8	4.7	4.6	10.5	6.7	4.0	6.2
Predominant Exterior Wall Material												
Brick, Stone or Stucco	15.2	15.6	6.5	7.9	14.0	10.9	5.5	9.6	15.5	8.0	3.8	6.7
Concrete (Block or Poured)	15.4	19.0	13.9	16.6	13.7	18.9	9.9	11.1	14.8	14.5	8.8	7.8
Concrete Panels	23.6	16.1	30.0	36.4	17.4	16.4	23.9	23.2	15.8	14.0	14.3	18.8
Siding or Shingles	21.9	14.6	26.2	39.2	20.3	16.2	11.3	31.4	28.6	11.6	22.1	37.3
Metal Panels	35.0	24.9	22.7	23.1	25.8	15.1	16.2	19.1	15.9	17.1	22.3	5.9
Window Glass	49.8	66.0	35.5	51.5	50.9	55.8	29.8	49.5	21.2	36.2	15.1	10.8
Other	42.8	42.7	40.4	51.5	41.6	41.7	42.8	51.0	30.7	11.2	11.8	22.5
No One Major Type	71.7	57.9	71.3	75.9	73.1	28.1	52.6	73.6	15.6	39.2	43.8	10.7
Predominant Roof Material												
Built-Up	12.8	7.8	12.1	16.9	9.7	8.5	10.4	8.0	9.8	11.5	7.8	12.6
Shingles (Not Wood)	28.1	11.3	12.2	20.4	10.7	7.6	11.4	5.6	23.4	10.4	10.7	19.9
Metal Surfacing	25.5	21.1	15.4	16.3	35.7	13.3	13.0	14.3	22.8	11.6	9.1	5.2
Synthetic or Rubber	16.9	15.6	13.1	11.8	11.6	15.6	9.7	13.9	10.1	8.5	6.2	10.0
Slate or Tile	27.4	29.3	22.7	21.8	22.0	24.5	17.1	28.6	35.0	23.5	9.1	26.7
Wooden Materials	67.5	49.2	33.0	57.0	69.8	51.6	33.2	42.4	20.0	14.9	9.0	25.2
Concrete	79.8	70.4	47.7	37.3	98.8	67.7	45.9	29.4	1678.5	2.8	16.3	20.2
Other	92.5	44.2	55.4	42.8	95.4	43.7	47.8	45.7	64.7	26.3	42.8	13.3
No One Major Type	64.0	54.4	62.4	23.3	48.4	49.1	58.7	54.6	59.9	23.1	10.4	68.9
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation Since 1980	11.9	12.8	11.4	14.8	10.5	10.3	11.1	12.7	10.6	9.2	7.9	9.3
Addition or Annex	22.4	17.0	17.2	18.5	27.2	13.9	16.0	10.2	33.6	9.7	9.0	10.7
Reduction In Floorspace	39.1	42.2	70.1	82.0	35.3	49.2	69.5	64.6	22.2	47.6	5.3	20.7
Cosmetic Improvements	12.6	13.8	11.0	18.1	11.9	10.7	12.2	14.7	11.2	9.4	7.5	10.2
Wall or Roof Replacement	18.5	15.7	16.2	25.1	15.4	14.3	17.1	21.4	20.0	11.5	6.5	14.7
Interior Wall Re-Configuration	14.8	15.6	15.0	18.5	11.6	13.2	13.5	16.7	17.4	8.8	7.0	8.3
HVAC Equipment Upgrade	14.0	12.7	13.9	20.0	10.5	12.1	14.3	16.4	10.1	9.9	7.0	8.2
Lighting Upgrade	13.6	13.3	17.0	19.2	11.3	12.1	18.3	16.7	13.6	9.3	8.9	10.1
Window Replacement	18.0	19.1	18.2	21.1	13.1	11.9	19.5	19.4	20.0	15.0	15.2	14.0
Plumbing System Upgrade	17.2	15.5	16.6	24.5	14.2	17.0	20.1	20.4	18.1	7.6	8.5	12.1
Insulation Upgrade	22.6	17.3	25.2	28.9	24.4	14.9	25.1	23.6	20.4	14.1	8.9	13.8
Other Renovation	37.3	48.8	74.0	55.6	42.2	44.3	83.8	48.8	48.2	18.4	398.2	30.1
No Renovations Since 1980	10.6	21.0	21.3	11.3	15.5	17.0	13.8	10.3	17.3	10.2	12.1	5.3
Building Newer than 1980	20.3	10.5	8.7	14.7	15.5	11.4	6.3	11.5	12.2	7.7	5.4	7.0
Energy Sources (more than one may apply)												
Electricity	9.8	10.6	6.0	9.0	9.5	9.8	4.7	4.6	10.5	6.7	4.0	6.2
Natural Gas	11.4	9.1	10.7	13.1	10.2	8.3	9.6	9.5	12.8	7.2	7.1	6.4
Fuel Oil	22.4	12.0	16.8	23.5	17.9	12.8	19.9	18.3	11.4	8.6	5.7	13.0
District Heat	24.2	36.1	27.7	29.4	21.1	35.2	26.2	25.7	8.6	9.6	9.9	8.6
District Chilled Water	29.9	42.0	27.7	28.1	29.0	40.4	23.1	26.1	11.8	20.4	11.3	13.8
Propane	24.5	41.9	17.9	32.6	30.2	38.9	20.3	24.0	18.0	11.2	8.9	18.2
Other	32.8	40.9	50.8	58.6	36.0	31.0	24.9	42.4	12.8	27.3	28.8	18.2

RSEs for Table C15. Electricity Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	9.8	10.6	6.0	9.0	9.5	9.8	4.7	4.6	10.5	6.7	4.0	6.2
Space-Heating Energy Sources												
Electricity	16.2	12.2	7.9	15.2	13.0	9.3	8.3	10.5	10.0	7.4	5.8	7.6
Electricity Main	22.4	16.4	9.6	18.0	21.4	15.4	11.0	14.9	9.4	9.7	7.2	7.6
Electricity Secondary	23.5	13.4	19.5	29.1	16.2	11.4	12.9	18.7	15.9	7.5	10.9	18.3
Other Excluding Electricity	11.1	11.2	10.6	9.6	15.1	11.4	11.3	9.5	15.1	8.0	7.1	7.8
Buildings without Heating	46.5	59.9	31.9	37.8	43.3	27.1	14.7	25.6	63.2	40.1	27.1	15.4
Primary Space-Heating Energy Source												
Electricity	22.4	16.4	9.6	18.0	21.4	15.4	11.0	14.9	9.4	9.7	7.2	7.6
Natural Gas	13.4	8.7	11.6	14.5	8.0	9.3	9.8	10.9	9.7	8.3	8.1	8.0
Fuel Oil	24.3	16.4	24.5	56.5	34.2	20.1	36.3	57.5	36.1	17.0	19.4	27.5
District Heat	27.2	37.1	28.9	24.8	24.0	37.4	27.5	22.0	9.1	6.2	9.9	9.9
Propane	50.9	61.3	39.3	68.0	66.0	42.5	30.1	39.3	9.8	16.5	18.7	65.7
Other	83.2	72.1	64.7	38.6	53.3	60.3	53.3	48.0	28.1	40.0	41.3	30.0
Cooling Energy Sources												
Electricity	11.6	9.9	6.5	10.2	10.2	8.8	4.5	6.5	11.5	6.0	3.9	6.0
Other Excluding Electricity	19.4	46.1	37.0	25.9	20.8	44.2	28.8	26.4	8.1	29.4	15.3	16.7
Buildings without Cooling	25.0	63.4	24.4	21.9	24.7	37.3	24.9	21.7	24.8	27.6	19.5	11.4
Water-Heating Energy Sources												
Electricity	15.7	12.0	9.3	11.4	10.2	12.9	8.2	10.2	12.3	9.8	6.7	5.5
Other Excluding Electricity	8.4	9.0	12.3	14.3	10.9	7.8	10.7	9.6	12.1	7.8	5.5	11.1
Bldgs without Water Heating	20.1	59.7	14.7	22.6	35.8	35.4	12.4	11.8	27.5	19.3	13.8	18.6
Cooking Energy Sources												
Electricity	17.6	16.9	13.2	24.7	17.9	14.0	12.6	15.3	12.0	9.5	5.8	14.0
Other Excluding Electricity	38.2	13.0	18.6	26.0	41.0	13.6	14.1	18.0	60.9	9.4	9.9	17.8
Buildings without Cooking	13.0	11.5	8.5	9.3	8.1	10.9	6.3	5.4	10.1	7.5	5.7	6.1
Energy End Uses (more than one may apply)												
Buildings with Space Heating	9.9	10.5	6.0	9.4	9.2	9.9	4.8	4.6	10.6	6.6	3.7	6.8
Buildings with Cooling	10.5	9.1	6.0	9.9	9.6	8.2	4.6	6.1	10.5	6.0	3.6	5.8
Buildings with Water Heating	10.0	8.8	6.1	9.7	9.3	7.9	4.8	5.2	10.8	7.7	3.7	6.8
Buildings with Cooking	15.9	12.5	11.1	16.7	23.4	10.7	10.0	11.4	26.7	7.5	4.7	10.3
Buildings with Manufacturing	34.0	35.0	36.1	43.9	24.6	21.3	29.4	36.6	26.4	28.0	36.2	14.8
Buildings with Electricity Generation	13.9	11.7	11.4	21.2	11.9	11.2	14.7	17.0	10.4	8.5	5.3	11.0
Percent of Floorspace Heated												
Not Heated	46.5	59.9	31.9	37.8	43.3	27.1	14.7	25.6	63.2	40.1	27.1	15.4
1 to 50	30.8	44.8	25.4	22.4	30.0	24.8	16.7	17.5	16.0	29.6	22.6	10.7
51 to 99	19.7	14.2	16.5	19.9	15.2	16.9	15.3	17.1	11.8	14.5	9.6	6.8
100	11.0	11.6	7.4	12.8	14.2	10.3	6.2	6.4	15.2	6.8	3.5	9.2
Percent of Floorspace Cooled												
Not Cooled	25.0	63.4	24.4	21.9	24.7	37.3	24.9	21.7	24.8	27.6	19.5	11.4
1 to 50	9.1	15.7	15.7	24.3	13.3	12.1	12.4	16.5	11.8	9.2	14.2	11.3
51 to 99	14.6	12.4	10.9	14.1	17.2	13.1	10.2	13.4	16.4	9.8	6.7	5.7
100	14.5	12.4	8.5	15.3	10.7	10.0	7.3	9.0	7.1	5.6	4.1	10.3

RSEs for Table C15. Electricity Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	9.8	10.6	6.0	9.0	9.5	9.8	4.7	4.6	10.5	6.7	4.0	6.2
Percent Lit When Open												
Zero	65.7	96.0	78.7	63.0	60.3	96.0	46.1	66.0	44.9	0.0	92.3	14.1
1 to 50	20.0	9.6	13.0	24.6	17.0	10.8	10.4	12.2	22.4	9.2	9.5	20.2
51 to 99	13.4	14.3	11.2	9.8	9.8	13.2	7.4	9.4	11.7	9.4	6.3	5.8
100	14.7	12.3	9.2	13.7	12.6	10.9	6.2	8.6	13.8	6.0	6.1	8.5
Building Never Open/ Electricity Not Used	69.8	35.8	45.0	83.0	52.3	47.4	39.2	55.8	30.9	41.3	37.0	82.9
Percent Lit When Closed												
Zero	14.2	15.2	14.3	14.8	14.4	14.8	9.1	9.4	12.3	6.2	12.8	10.0
1 to 50	15.1	12.4	6.9	6.7	11.7	9.6	6.0	6.8	14.9	10.5	4.1	7.1
51 to 100	41.9	44.0	28.0	31.1	25.2	31.5	15.2	21.4	34.2	19.6	16.6	18.2
Building Never Closed/ Electricity Not Used	16.6	8.9	15.0	22.0	13.9	8.4	12.1	13.1	13.9	7.3	7.9	13.7
Heating Equipment (more than one may apply)												
Heat Pumps	25.8	21.2	14.2	30.9	21.0	19.0	13.9	21.4	21.4	8.4	12.5	19.7
Packaged Heat Pumps	35.3	26.0	19.8	38.3	31.3	19.8	13.4	25.9	22.9	9.8	16.5	25.5
Split-System Heat Pumps	21.6	28.3	34.4	29.6	26.5	40.5	24.5	29.0	16.8	11.7	26.0	13.0
Individual Room Heat Pumps	38.4	44.9	15.6	25.1	33.2	45.4	17.0	24.9	31.8	12.7	9.3	16.1
Furnaces	16.6	10.0	12.2	13.9	13.3	10.5	7.9	10.5	12.2	7.9	10.0	6.4
Individual Space Heaters	19.3	11.5	18.8	17.7	17.0	11.9	12.6	13.5	16.7	5.7	13.3	10.0
District Heat	26.8	36.2	27.7	30.5	23.8	35.2	26.2	26.7	8.9	9.6	9.9	9.4
Boilers	20.1	12.4	18.8	16.9	20.5	8.5	17.5	12.5	23.4	9.9	6.7	11.0
Packaged Heating Units	17.7	15.1	9.5	14.2	14.9	14.0	9.1	10.2	12.0	10.4	6.1	10.3
Other	22.4	19.9	23.9	36.2	25.5	24.2	25.0	28.7	15.7	9.9	17.8	9.7
Cooling Equipment (more than one may apply)												
Residential-Type Central Air Conditioners	19.7	9.7	29.1	16.3	22.3	8.9	14.6	15.9	33.5	10.0	18.3	10.9
Heat Pumps	25.8	21.1	14.4	29.5	21.3	18.2	15.9	20.5	21.5	7.9	10.8	19.1
Packaged Heat Pumps	34.9	26.0	20.5	39.5	31.4	20.2	14.0	26.8	23.3	9.3	16.1	26.3
Split-System Heat Pumps	21.6	24.2	34.3	28.8	26.5	34.1	24.5	28.8	16.8	14.7	24.5	13.2
Individual Room Heat Pumps	38.4	44.9	22.7	25.4	33.2	45.4	19.7	27.3	31.8	12.7	7.1	15.1
Individual Air Conditioners	15.8	14.7	19.9	21.3	19.1	11.6	19.7	15.9	16.5	7.1	11.5	8.9
District Chilled Water	29.9	42.0	27.7	28.1	29.0	40.4	23.1	26.1	11.8	20.4	11.3	13.8
Central Chillers	19.8	13.9	18.2	25.2	18.0	13.1	14.5	23.8	4.4	8.5	6.4	14.5
Packaged Air Conditioning Units	13.4	11.3	6.9	11.1	15.5	10.7	7.0	6.5	18.1	7.8	5.8	8.0
Swamp Coolers	100.1	101.3	47.2	13.2	100.1	101.3	41.7	15.7	0.0	.	48.3	5.7
Other	47.7	28.9	34.5	36.8	34.4	30.3	31.4	37.7	23.4	29.2	22.1	11.8
Main Equipment Replaced Since 1990 (more than one may apply)												
Heating	16.4	11.4	11.2	26.6	11.2	9.7	11.5	13.9	11.6	10.0	10.0	18.8
Cooling	15.6	14.1	13.0	18.7	12.6	12.3	9.7	8.8	10.3	9.8	7.9	13.7
Water Heating Equipment												
Centralized System	8.5	11.4	8.1	10.7	8.5	7.4	6.9	7.5	10.6	9.4	4.9	6.6
Distributed System	32.8	20.2	11.3	19.4	33.5	17.6	9.7	13.6	34.8	8.6	4.7	10.7
Combination of Centralized and Distributed System	20.6	17.8	13.5	22.9	21.0	14.7	10.2	18.2	12.9	12.7	8.8	14.1

RSEs for Table C15. Electricity Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	9.8	10.6	6.0	9.0	9.5	9.8	4.7	4.6	10.5	6.7	4.0	6.2
Lighting Equipment Types (more than one may apply)												
Incandescent	13.4	9.2	8.8	13.6	14.5	8.7	6.9	9.1	15.9	7.6	5.6	10.4
Standard Fluorescent	10.3	10.6	6.3	9.2	9.3	9.5	4.7	5.4	10.7	6.8	3.9	6.5
Compact Fluorescent	14.1	10.0	10.3	13.3	11.7	9.8	9.8	7.9	12.2	6.1	5.2	7.8
High Intensity Discharge	14.2	15.9	11.7	9.5	10.6	14.6	10.4	6.4	9.4	7.1	7.9	6.6
Halogen	14.0	10.6	12.7	15.9	10.5	10.8	9.0	14.7	11.2	5.2	7.8	7.7
Other	76.4	77.1	46.8	73.9	66.1	76.2	50.5	82.4	17.2	18.3	24.5	84.3
Refrigeration Equipment (more than one may apply)[a]												
Any Refrigeration	10.0	8.9	6.1	10.4	9.8	8.1	4.7	5.9	11.3	7.8	3.6	6.3
Commercial Refrigeration	11.6	12.6	9.4	13.7	16.0	10.7	8.8	9.1	19.0	6.8	4.8	8.4
Walk-In Units	13.4	10.5	9.6	14.9	23.7	10.7	8.8	9.8	27.5	7.6	6.0	10.2
Cases or Cabinets	13.9	16.0	9.7	15.9	11.8	14.0	9.4	11.0	11.9	6.1	5.8	9.6
Residential-Type Units	10.7	12.6	9.8	8.8	11.2	9.3	7.2	6.5	16.0	9.1	5.8	4.3
Vending Machines	12.3	9.5	7.1	12.7	11.6	9.2	6.1	9.6	11.1	7.3	3.7	6.6
No Refrigeration	14.9	43.4	20.2	13.5	19.8	29.0	16.5	11.1	15.1	16.8	12.1	9.9
Office Equipment (more than one may apply)												
Computers	10.3	10.1	6.5	9.9	8.8	8.4	5.3	5.7	11.4	6.9	3.4	6.5
With Flat Screen Monitors	15.5	10.4	10.8	12.5	10.1	9.5	10.2	9.2	9.9	6.9	3.6	7.5
Dedicated Servers	13.8	11.2	8.5	12.0	9.3	8.6	7.9	7.8	10.4	6.9	3.8	6.9
Laser Printers	10.0	9.3	7.5	15.2	8.9	7.4	6.7	9.8	10.8	8.5	5.3	9.7
Inkjet Printers	13.3	10.5	10.8	11.8	10.5	9.3	8.1	10.6	9.7	5.9	4.7	4.3
FAX Machines	10.6	9.5	6.7	9.8	9.3	8.0	5.4	6.7	11.6	7.5	4.0	5.5
Photocopiers	11.5	10.3	7.0	11.4	9.3	8.2	5.2	7.8	12.1	6.9	3.6	6.2
Number of Computers												
None	21.4	29.7	17.1	18.2	27.6	25.8	18.2	20.9	26.0	7.7	11.5	15.0
1 to 4	19.5	23.3	11.4	15.6	19.3	18.7	7.3	12.9	29.6	14.3	12.1	12.6
5 to 9	25.5	14.1	10.7	17.3	20.5	11.9	9.8	13.3	20.6	9.6	9.2	12.6
10 to 19	35.3	21.6	18.4	12.9	23.2	17.2	17.3	13.8	34.8	14.0	12.4	10.1
20 to 49	18.8	18.4	17.3	21.0	19.9	17.2	13.6	15.1	13.4	10.7	7.4	17.9
50 to 99	26.0	20.6	15.9	14.8	35.4	16.4	15.9	19.1	54.7	11.0	6.3	14.3
100 to 249	30.8	14.0	10.8	23.8	20.5	13.5	11.3	16.8	14.9	12.0	6.4	12.4
250 or More	14.3	12.4	18.2	27.7	10.8	14.7	18.5	21.0	8.6	13.2	7.5	16.1
Number of Dedicated Servers												
None	10.4	12.3	8.2	9.2	14.3	15.0	7.1	6.9	15.6	7.8	7.5	6.0
1 to 4	14.0	9.4	9.1	9.9	14.4	7.5	7.7	10.9	15.3	6.6	5.9	6.5
5 to 9	27.6	15.1	38.6	41.0	23.4	17.1	29.3	23.1	17.8	16.8	15.0	35.6
10 to 19	32.8	19.1	24.8	15.5	22.7	20.7	23.7	15.9	21.5	11.7	12.6	8.5
20 to 49	29.3	40.2	26.5	26.8	29.3	29.6	29.7	29.3	11.6	22.4	8.7	12.7
50 or More	28.4	42.0	31.1	51.1	26.6	51.2	39.0	45.6	15.8	9.7	9.8	33.0
Number of Photocopiers												
None	17.0	15.0	11.2	12.1	19.7	18.8	12.8	13.2	20.4	9.2	10.4	8.8
One	17.2	10.8	13.1	11.1	19.9	13.5	9.0	14.3	26.1	8.2	6.7	10.9
2 to 4	12.7	14.0	13.1	13.2	10.3	8.6	11.4	10.4	11.3	10.7	7.1	8.3
5 to 9	28.6	17.2	21.6	27.3	31.2	10.6	17.2	27.0	39.0	9.0	5.5	25.3
10 or More	13.4	15.7	20.3	24.8	13.7	15.8	20.5	18.7	7.1	11.3	8.3	13.5

RSEs for Table C15. Electricity Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	9.8	10.6	6.0	9.0	9.5	9.8	4.7	4.6	10.5	6.7	4.0	6.2
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	15.9	12.5	11.1	16.9	23.4	10.7	10.0	11.5	26.7	7.5	4.7	10.3
Activities with Large Amounts of Hot Water	20.1	10.2	12.6	15.7	25.9	10.3	8.6	6.5	31.0	5.9	6.5	12.3
Separate Computer Area	13.7	13.0	11.9	14.8	10.2	10.7	9.8	9.4	12.0	7.4	4.5	8.1
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	18.8	12.0	11.5	18.4	14.3	10.8	10.6	10.9	9.2	6.9	4.5	10.1
Economizer Cycle	16.5	10.9	11.0	13.0	13.2	9.4	11.0	7.2	6.8	7.4	4.5	6.9
HVAC Maintenance	10.5	11.6	7.0	9.9	11.4	11.1	5.8	5.1	12.4	6.4	4.1	7.3
Energy Management and Control System (EMCS)	15.2	12.2	12.5	18.1	13.1	13.2	11.9	11.9	8.3	5.9	5.6	10.6
Window and Interior Lighting Features (more than one may apply)												
Multipaned Windows	10.2	11.0	6.6	12.3	13.1	9.5	4.6	7.3	14.8	7.6	4.6	7.7
Tinted Window Glass	14.0	13.8	9.5	12.7	12.3	13.3	7.2	7.4	8.5	8.5	4.9	7.1
Reflective Window Glass	21.1	17.9	15.9	11.2	14.2	14.8	10.3	10.8	13.7	12.2	9.7	4.8
External Overhangs or Awnings	14.0	16.0	15.4	16.9	19.1	12.6	10.9	9.6	23.2	8.9	8.8	12.1
Skylights or Atriums	15.1	14.2	13.8	23.0	15.3	12.3	11.8	14.2	19.5	12.4	6.0	13.0
Daylighting Sensors	36.5	24.9	20.2	36.7	32.9	20.7	23.1	28.2	23.4	16.8	12.2	22.4
Specular Reflectors	15.8	13.7	11.6	14.4	11.4	12.5	9.2	10.1	11.9	5.6	5.7	7.4
Electronic Ballasts	12.8	10.6	7.5	11.2	9.4	9.8	5.8	6.7	9.7	4.4	4.6	6.8
Energy Management and Control System (EMCS) For Lighting	22.0	16.7	21.1	22.0	19.6	24.8	22.6	26.3	7.4	13.4	10.5	11.8
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]												
Heating	10.6	10.2	7.1	10.3	9.4	9.4	6.2	5.3	13.4	9.2	3.1	8.2
Cooling	10.7	11.8	7.5	9.8	9.8	9.6	6.3	5.3	12.6	8.0	2.9	7.1
Lighting	10.9	12.8	5.9	5.9	9.8	10.1	4.9	4.9	11.5	7.1	4.8	5.2
Office Equipment	12.9	20.3	13.2	10.0	11.0	11.4	7.9	10.5	14.2	15.0	7.9	5.8
Annual Consumption (kilowatthours)												
10,000 or Less	27.0	15.5	26.5	19.4	39.9	33.5	28.1	19.4	13.6	20.4	11.0	11.7
10,001 to 50,000	18.1	13.4	11.9	13.0	15.6	16.8	15.6	17.3	14.2	10.6	7.0	17.8
50,001 to 100,000	18.1	17.6	9.9	13.0	28.8	18.5	9.8	13.8	26.9	14.6	8.8	6.5
100,001 to 500,000	15.7	9.9	6.6	12.4	25.8	9.3	9.7	11.7	25.8	8.2	10.4	7.6
500,001 to 1,000,000	16.0	18.8	12.2	20.3	14.9	13.6	10.7	17.8	13.3	11.5	8.3	12.5
1,000,001 to 5,000,000	18.2	17.7	11.3	10.2	16.0	15.2	8.7	8.6	9.1	5.4	5.4	9.6
Over 5,000,000	18.2	12.9	20.4	31.0	16.3	21.8	23.1	29.1	11.2	13.6	8.5	15.9

RSEs for Table C15. Electricity Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	9.8	10.6	6.0	9.0	9.5	9.8	4.7	4.6	10.5	6.7	4.0	6.2
Provider of Purchased Electricity (more than one may apply)												
Local Utility	11.1	11.0	6.0	9.9	9.8	10.1	3.9	5.2	12.2	7.3	4.9	6.6
Some Other Provider	18.3	23.9	33.4	45.7	19.9	23.8	29.0	45.1	8.0	13.3	17.5	29.4

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

RSEs for Table C16. Electricity Expenditures by Census Region for Non-Mall Buildings, 2003

	RSEs for Total Electricity Expenditures				RSEs for Electricity Expenditures							
					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*	8.9	9.2	5.7	11.4	4.0	3.1	2.8	5.2	11.8	7.5	4.5	8.8
Building Floorspace (Square Feet)												
1,001 to 5,000	12.8	10.6	12.8	12.0	3.3	2.8	3.0	6.4	13.0	10.1	9.3	15.1
5,001 to 10,000	14.3	22.8	13.7	30.8	6.4	7.2	2.7	7.0	15.3	15.8	9.4	30.3
10,001 to 25,000	17.4	13.3	14.4	13.1	11.4	3.3	3.9	6.1	17.7	11.2	14.8	14.2
25,001 to 50,000	18.3	14.1	16.2	22.0	5.1	2.2	3.6	16.5	16.9	9.9	11.4	14.9
50,001 to 100,000	20.5	17.8	9.1	23.9	4.1	4.9	2.9	9.0	18.8	14.7	4.2	11.5
100,001 to 200,000	29.9	20.2	22.4	22.9	6.2	6.4	5.5	15.9	37.6	10.6	11.0	17.8
200,001 to 500,000	20.5	18.0	16.3	22.9	3.8	5.4	5.7	16.8	34.3	14.3	7.3	21.4
Over 500,000	30.0	16.5	29.2	42.6	18.9	4.3	22.9	16.4	21.2	13.7	14.1	23.4
Principal Building Activity												
Education	20.5	14.5	13.7	10.9	7.2	4.1	3.3	10.6	10.4	10.5	6.7	9.1
Food Sales	17.7	32.9	28.3	41.3	16.5	9.1	6.3	9.8	13.0	19.8	10.3	43.5
Food Service	22.9	21.6	20.7	37.2	7.9	6.1	5.5	11.9	19.3	18.6	13.3	20.1
Health Care	13.0	16.8	12.1	18.0	11.3	5.3	6.2	6.3	14.3	7.6	11.6	6.0
Inpatient	17.9	11.1	15.8	19.5	11.2	4.2	7.8	8.9	15.6	7.8	9.7	7.6
Outpatient	27.8	32.8	16.9	22.3	9.1	7.0	6.6	9.9	21.2	16.7	24.5	11.5
Lodging	27.0	14.3	20.5	40.3	8.4	4.6	4.8	9.3	62.1	6.9	9.0	32.4
Retail (Other Than Mall)	20.2	26.8	24.4	32.3	7.5	7.1	4.7	19.1	13.0	13.8	17.5	18.6
Office	16.6	15.6	14.9	17.8	7.8	3.4	2.7	7.4	9.6	7.5	5.0	7.9
Public Assembly	29.5	24.7	20.9	56.8	12.8	3.8	5.4	18.8	77.6	13.8	15.2	53.0
Public Order and Safety	41.4	37.4	46.1	28.6	12.4	12.6	11.2	12.3	24.9	8.8	22.0	10.9
Religious Worship	27.0	11.9	14.0	24.0	9.7	4.3	5.4	17.8	17.8	9.9	8.8	22.1
Service	26.9	19.4	19.1	20.0	10.1	6.9	91.7	23.2	21.3	7.5	20.6	27.2
Warehouse and Storage	18.8	29.8	17.5	33.2	8.0	8.7	4.4	15.7	22.2	9.0	12.8	15.4
Other	36.8	33.7	71.3	57.5	7.5	5.3	19.9	5.2	17.9	17.9	133.3	31.2
Vacant	53.9	41.9	50.6	49.3	23.1	11.2	18.8	46.1	37.3	47.3	43.3	32.9
Year Constructed												
Before 1920	26.2	14.3	50.6	45.7	14.4	5.5	6.6	22.8	23.2	13.4	15.7	37.7
1920 to 1945	18.7	31.9	25.3	23.5	8.9	10.5	4.3	8.9	24.2	9.2	11.8	14.9
1946 to 1959	37.4	16.5	22.5	20.0	10.6	4.4	7.5	15.3	37.7	8.5	8.4	15.2
1960 to 1969	22.0	16.7	14.1	24.0	5.9	4.3	3.2	12.0	13.2	15.0	11.1	19.7
1970 to 1979	18.7	18.5	11.5	21.5	6.3	4.3	16.9	9.6	14.8	17.0	9.4	9.7
1980 to 1989	18.5	17.1	11.4	21.6	3.8	4.0	2.6	6.4	15.4	8.3	6.5	16.1
1990 to 1999	29.6	16.0	13.7	28.4	6.0	3.5	4.2	9.0	24.0	9.7	8.7	25.2
2000 to 2003	33.4	22.3	17.4	16.2	7.9	6.9	3.0	16.1	9.6	10.1	14.8	13.0
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	41.1	12.9	0.0	23.7	5.5	1.6	0.0	1.2	22.9	8.1	0.0	6.2
5,500-7,000 HDD	21.9	16.3	0.0	41.4	3.6	5.3	0.0	25.8	13.5	12.6	0.0	37.2
4,000-5,499 HDD	22.9	21.8	32.5	71.3	7.9	1.3	13.7	15.0	24.5	1.7	10.6	23.8
Fewer than 4,000 HDD	0.0	0.0	16.6	15.3	0.0	0.0	2.9	6.7	0.0	0.0	6.1	11.3
2,000 CDD or More and --												
Fewer than 4,000 HDD	0.0	0.0	11.6	37.9	0.0	0.0	2.7	6.6	0.0	0.0	8.0	13.1
Number of Floors												
One	12.9	13.4	9.2	9.7	8.6	5.7	2.4	8.1	11.8	6.8	6.5	8.1
Two	13.3	14.1	14.9	23.7	3.1	3.9	3.8	10.6	14.9	12.2	8.4	20.7
Three	25.8	19.8	13.7	18.0	8.9	2.3	4.2	8.6	24.6	16.5	5.5	16.2
Four to Nine	22.0	14.5	20.5	21.3	3.2	3.5	15.0	5.7	26.7	10.4	15.4	11.3
Ten or More	22.9	18.8	26.3	48.1	14.6	7.3	3.7	18.0	19.9	8.2	8.2	22.7

RSEs for Table C16. Electricity Expenditures by Census Region for Non-Mall Buildings, 2003

	RSEs for Total Electricity Expenditures				RSEs for Electricity Expenditures							
					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*	8.9	9.2	5.7	11.4	4.0	3.1	2.8	5.2	11.8	7.5	4.5	8.8
Elevators and Escalators (more than one may apply)												
Any Elevators	14.8	11.3	11.0	20.9	5.4	2.6	6.1	8.2	14.6	8.1	4.9	10.6
Number of Elevators												
One	27.1	15.6	13.1	18.3	4.7	3.7	3.7	6.3	20.7	6.9	7.9	15.6
Two to Five	24.5	17.3	17.8	23.8	4.7	3.2	3.6	10.5	23.7	12.8	4.9	17.8
Six or More	24.0	13.7	22.9	38.6	14.8	4.6	18.3	13.3	16.6	11.9	11.8	16.9
Any Escalators	39.5	43.3	33.0	65.5	13.9	7.1	40.0	10.4	23.7	12.8	26.1	46.1
Number of Workers (main shift)												
Fewer than 5	15.6	22.1	14.8	12.3	3.1	9.3	3.4	10.3	17.3	13.0	9.2	15.4
5 to 9	21.6	19.0	13.3	11.9	6.1	3.5	4.6	8.1	19.7	15.1	11.3	13.2
10 to 19	22.9	13.7	11.7	24.6	6.3	2.8	2.4	7.8	35.9	12.1	12.0	20.0
20 to 49	23.6	14.3	13.8	24.8	5.4	3.7	4.4	11.8	33.0	8.7	7.1	15.5
50 to 99	28.1	15.8	12.3	19.5	10.0	5.8	3.6	10.8	19.1	9.4	5.6	11.2
100 to 249	24.6	19.3	17.4	25.6	3.5	3.5	5.5	12.1	16.2	12.2	13.4	24.4
250 or More	17.5	11.9	18.8	31.6	9.7	4.1	11.9	13.9	10.8	9.6	8.2	14.9
Weekly Operating Hours												
Fewer than 40	31.4	15.4	14.3	38.1	23.7	4.4	5.5	16.7	16.7	21.8	11.1	26.7
40 to 48	14.7	21.7	9.7	10.2	4.7	5.6	3.5	11.3	29.1	15.0	7.8	6.1
49 to 60	14.9	22.5	11.7	16.3	4.0	7.6	2.9	6.6	9.2	9.9	6.8	9.4
61 to 84	16.7	16.9	10.6	11.6	5.3	3.2	3.6	6.7	9.7	7.8	10.5	11.4
85 to 167	12.9	11.3	14.3	12.3	10.2	5.5	4.4	11.6	20.2	10.8	8.8	13.9
Open Continuously	18.8	9.6	13.0	26.0	8.1	3.9	12.3	9.5	18.3	7.9	7.8	18.1
Ownership and Occupancy												
Nongovernment Owned	9.8	8.9	6.5	14.2	4.1	2.5	1.7	5.6	13.1	8.8	5.3	9.7
Owner Occupied	12.4	11.2	11.8	21.8	2.7	3.1	2.5	10.5	13.2	8.4	6.9	17.7
Nonowner Occupied	14.2	12.1	9.9	16.2	7.8	2.7	2.1	5.1	16.4	7.5	6.9	10.2
Unoccupied	86.4	49.5	50.6	80.1	0.8	17.4	18.8	0.7	21.2	61.5	43.3	6.5
Government Owned	15.5	17.1	11.6	11.7	5.8	5.9	9.8	10.8	9.4	5.9	6.9	9.7
Federal	37.8	47.9	46.1	38.9	17.9	6.5	106.6	7.9	30.1	7.9	41.8	20.5
State	28.9	37.0	29.3	23.7	7.2	5.0	3.5	10.9	16.6	13.8	11.1	11.9
Local	22.8	13.6	14.9	15.4	8.7	5.0	4.4	14.7	11.9	9.1	6.1	14.1
Vacancy Status												
Completely Vacant	71.9	50.7	50.6	80.1	2.2	15.2	18.8	0.7	30.3	59.9	43.3	6.5
Mostly Vacant	81.1	60.8	X	58.7	61.5	2.9	X	48.5	76.9	18.9	X	29.7
Partially Vacant	19.1	11.2	15.7	26.2	9.3	5.0	4.6	14.3	13.6	6.7	8.6	9.3
Not At All Vacant	7.6	10.9	6.0	11.8	4.8	3.9	3.3	5.3	14.5	7.3	4.9	9.7
Number of Establishments												
One	7.5	9.1	6.2	13.9	5.8	3.7	3.6	6.5	17.1	6.6	4.8	11.9
2 to 5	19.3	18.5	7.7	32.7	7.3	3.3	3.2	11.1	17.0	10.1	7.0	17.2
6 to 10	36.2	16.6	44.8	25.7	7.0	6.8	4.7	10.4	25.3	17.7	13.8	16.5
11 to 20	30.6	26.6	27.2	30.5	6.7	3.2	10.5	9.8	17.6	9.7	15.3	6.4
More than 20	36.0	47.8	28.1	55.0	19.7	15.2	8.0	31.8	23.8	17.0	15.9	27.3
Currently Unoccupied	71.9	50.7	50.6	80.1	2.2	15.2	18.8	0.7	30.3	59.9	43.3	6.5

RSEs for Table C16. Electricity Expenditures by Census Region for Non-Mall Buildings, 2003

	RSEs for Total Electricity Expenditures				RSEs for Electricity Expenditures							
					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*	8.9	9.2	5.7	11.4	4.0	3.1	2.8	5.2	11.8	7.5	4.5	8.8
Predominant Exterior Wall Material												
Brick, Stone or Stucco	12.5	12.5	6.1	11.3	5.2	5.0	2.0	4.8	15.9	7.7	3.5	7.2
Concrete (Block or Poured)	14.9	17.9	13.8	21.2	3.5	3.7	4.0	7.1	13.9	13.1	9.9	12.8
Concrete Panels	20.0	15.9	25.6	33.5	9.1	4.9	21.5	8.0	16.6	15.7	16.8	14.7
Siding or Shingles	22.4	16.2	22.0	45.4	5.4	4.0	7.0	17.9	29.3	12.7	17.5	48.7
Metal Panels	40.9	20.8	18.2	27.1	12.4	7.6	6.2	21.8	19.4	14.2	16.6	20.7
Window Glass	48.0	62.7	32.9	56.8	9.2	11.4	5.2	25.6	19.7	28.1	13.8	33.6
Other	44.0	42.1	41.8	54.9	26.9	5.6	8.7	11.7	51.0	10.6	14.5	31.1
No One Major Type	74.1	53.6	70.2	58.7	22.3	5.4	1.5	129.6	8.1	35.4	41.8	107.2
Predominant Roof Material												
Built-Up	15.2	7.6	12.1	16.1	5.0	3.2	2.7	6.1	13.3	11.0	8.2	12.3
Shingles (Not Wood)	20.4	12.5	12.5	24.2	12.4	4.6	3.0	6.9	15.0	12.1	9.4	24.3
Metal Surfacing	27.1	18.0	12.5	20.5	12.9	4.6	4.1	14.3	24.8	7.7	6.8	12.5
Synthetic or Rubber	17.2	15.5	10.4	17.2	3.8	2.8	10.2	9.6	11.6	9.7	7.9	16.0
Slate or Tile	23.8	29.9	20.5	23.2	17.3	4.6	8.7	4.9	38.0	25.9	10.8	24.7
Wooden Materials	67.0	54.4	33.6	52.5	9.7	27.3	4.9	5.0	31.2	37.3	10.6	24.6
Concrete	100.1	64.0	51.6	36.9	101.8	10.9	6.6	19.0	100.0	10.1	15.3	28.7
Other	91.7	45.4	53.1	54.8	11.0	7.2	8.6	21.7	82.7	26.6	39.1	19.4
No One Major Type	56.5	51.0	65.1	7.5	32.5	14.4	10.3	21.8	47.7	15.3	14.5	105.7
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation Since 1980	11.9	12.8	10.9	16.7	4.9	3.0	2.6	9.8	12.5	10.0	6.0	8.8
Addition or Annex	21.9	16.8	16.3	17.4	6.3	2.7	3.2	14.3	33.3	10.4	7.2	15.3
Reduction In Floorspace	39.4	43.7	72.8	72.8	10.9	5.1	10.6	80.8	21.8	43.3	10.6	72.6
Cosmetic Improvements	12.8	12.9	12.1	18.0	5.4	3.3	3.2	11.0	13.8	9.2	5.6	7.7
Wall or Roof Replacement	21.6	15.0	17.0	26.5	6.3	3.8	3.6	15.6	22.7	10.6	5.3	13.4
Interior Wall Re-Configuration	14.9	14.1	16.2	24.0	5.5	3.6	3.5	13.9	18.2	7.5	7.0	11.6
HVAC Equipment Upgrade	15.6	13.1	13.7	25.0	5.5	3.0	3.0	14.0	10.9	9.9	5.2	12.9
Lighting Upgrade	12.3	13.8	17.2	23.5	6.6	2.9	3.7	13.4	15.0	9.2	6.9	9.9
Window Replacement	19.1	17.8	18.5	22.4	4.9	4.3	3.6	19.2	22.0	14.2	12.8	12.8
Plumbing System Upgrade	20.3	15.5	18.4	28.0	6.1	3.5	4.2	17.2	21.7	8.4	7.2	13.2
Insulation Upgrade	23.3	16.7	25.7	22.8	8.0	3.8	3.6	20.9	15.7	12.8	7.8	14.4
Other Renovation	37.2	43.9	65.7	62.4	16.3	11.4	47.5	18.9	31.8	21.5	362.5	38.4
No Renovations Since 1980	7.5	13.3	12.5	15.6	6.4	7.1	16.0	7.5	19.6	9.8	9.5	9.7
Building Newer than 1980	19.1	9.9	8.8	17.5	4.4	3.1	2.1	6.4	11.2	7.0	5.5	11.9
Energy Sources (more than one may apply)												
Electricity	8.9	9.2	5.7	11.4	4.0	3.1	2.8	5.2	11.8	7.5	4.5	8.8
Natural Gas	10.0	7.7	8.9	14.8	4.2	2.7	4.7	5.4	13.2	7.2	5.4	8.6
Fuel Oil	23.3	12.0	17.7	28.2	7.7	2.9	3.3	12.2	14.3	8.1	5.3	17.2
District Heat	31.4	30.7	31.1	35.9	10.7	5.4	4.2	19.1	15.3	8.2	10.8	21.0
District Chilled Water	29.0	40.8	30.9	41.0	9.4	6.8	3.6	14.6	8.5	17.5	13.0	23.8
Propane	21.1	36.0	21.0	40.8	5.3	6.2	5.4	23.5	20.8	8.9	7.5	35.2
Other	34.2	38.5	45.9	29.0	15.4	9.1	8.9	31.8	15.5	29.3	23.5	26.1

RSEs for Table C16. Electricity Expenditures by Census Region for Non-Mall Buildings, 2003

	RSEs for Total Electricity Expenditures				RSEs for Electricity Expenditures							
					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*	8.9	9.2	5.7	11.4	4.0	3.1	2.8	5.2	11.8	7.5	4.5	8.8
Space-Heating Energy Sources												
Electricity	17.8	12.1	8.5	15.6	4.2	3.0	5.5	7.4	9.9	7.0	5.8	9.9
Electricity Main	23.8	16.9	11.0	14.2	6.3	2.8	3.2	11.5	8.4	9.2	6.2	11.6
Electricity Secondary	24.3	12.4	9.7	30.1	4.4	4.0	14.7	9.7	16.1	7.2	9.1	17.1
Other Excluding Electricity	9.6	8.8	11.5	12.6	6.6	4.4	2.5	5.9	15.1	10.0	6.0	10.9
Buildings without Heating	40.8	37.0	31.3	44.4	10.4	44.5	3.8	5.8	58.8	23.5	25.8	20.2
Primary Space-Heating Energy Source												
Electricity	23.8	16.9	11.0	14.2	6.3	2.8	3.2	11.5	8.4	9.2	6.2	11.6
Natural Gas	11.7	8.2	9.3	15.8	5.4	2.9	6.3	6.1	8.2	9.0	6.7	10.0
Fuel Oil	20.4	18.1	31.5	50.8	4.6	12.7	12.3	23.6	35.3	26.3	9.1	34.0
District Heat	34.6	32.1	32.2	36.4	11.0	4.5	4.2	19.9	15.3	7.6	10.6	22.9
Propane	44.5	54.7	37.8	77.9	7.0	5.7	8.7	31.7	14.2	12.6	17.1	77.8
Other	79.3	64.7	62.6	33.9	6.4	32.2	9.3	48.5	25.5	19.9	35.8	85.1
Cooling Energy Sources												
Electricity	9.9	9.2	5.9	12.5	3.9	2.7	3.0	5.6	12.4	6.1	4.2	9.2
Other Excluding Electricity	42.9	45.0	40.4	31.5	26.5	6.4	4.1	12.6	29.1	21.9	16.8	22.1
Buildings without Cooling	25.3	50.4	24.5	22.4	5.7	9.0	7.2	10.5	27.1	18.6	15.0	15.9
Water-Heating Energy Sources												
Electricity	14.1	11.8	9.9	9.8	4.4	3.0	2.9	9.7	12.0	10.6	5.8	9.2
Other Excluding Electricity	9.1	8.0	10.6	17.3	5.2	2.5	6.1	5.6	14.2	7.2	5.2	13.5
Bldgs without Water Heating	23.9	47.9	13.0	30.9	7.9	11.3	3.4	9.0	28.4	14.7	11.4	26.1
Cooking Energy Sources												
Electricity	17.1	15.1	11.7	28.8	6.4	4.0	3.7	10.0	12.8	8.3	4.6	17.9
Other Excluding Electricity	28.6	12.3	12.3	33.2	8.4	4.4	18.1	14.5	55.7	7.3	10.8	28.3
Buildings without Cooking	13.0	10.1	8.5	9.3	2.8	3.4	1.7	6.1	10.3	9.1	5.4	7.8
Energy End Uses (more than one may apply)												
Buildings with Space Heating	8.9	9.2	5.5	11.9	4.0	3.0	2.8	5.4	11.9	7.5	4.3	9.6
Buildings with Cooling	9.5	8.7	5.7	12.3	4.1	2.5	2.8	5.4	11.9	6.0	4.2	8.9
Buildings with Water Heating	8.9	8.2	5.8	12.5	4.1	2.5	2.9	5.5	12.0	7.8	4.1	9.6
Buildings with Cooking	12.3	10.5	9.8	22.0	5.6	3.3	5.8	8.6	28.4	6.5	5.4	15.9
Buildings with Manufacturing	28.3	29.6	23.8	45.4	7.0	7.6	13.2	25.4	23.7	22.0	22.3	29.2
Buildings with Electricity Generation	18.3	12.2	12.6	25.5	8.7	2.9	2.8	10.5	13.7	8.3	4.8	13.3
Percent of Floorspace Heated												
Not Heated	40.8	37.0	31.3	44.4	10.4	44.5	3.8	5.8	58.8	23.5	25.8	20.2
1 to 50	36.2	38.0	21.7	24.6	9.8	8.1	10.6	5.9	13.4	21.5	14.6	14.5
51 to 99	17.9	14.1	16.1	19.7	11.0	5.1	3.0	12.1	10.8	12.5	9.3	9.5
100	9.6	10.4	7.2	14.8	4.5	3.3	3.8	5.2	15.3	8.0	4.4	11.7
Percent of Floorspace Cooled												
Not Cooled	25.3	50.4	24.5	22.4	5.7	9.0	7.2	10.5	27.1	18.6	15.0	15.9
1 to 50	8.6	12.3	13.9	25.1	3.8	5.6	4.0	13.2	13.3	6.6	11.1	16.4
51 to 99	16.3	14.4	10.4	15.0	7.6	2.8	2.5	7.9	17.4	10.3	6.1	7.8
100	12.8	11.4	8.5	17.4	6.1	2.8	4.5	5.7	6.3	5.0	4.4	13.3

RSEs for Table C16. Electricity Expenditures by Census Region for Non-Mall Buildings, 2003

	RSEs for Total Electricity Expenditures				RSEs for Electricity Expenditures							
					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*	8.9	9.2	5.7	11.4	4.0	3.1	2.8	5.2	11.8	7.5	4.5	8.8
Percent Lit When Open												
Zero	59.1	96.0	67.6	63.3	40.9	0.0	55.3	6.8	23.3	0.0	79.8	21.0
1 to 50	21.7	9.6	12.8	26.2	4.2	3.1	3.3	6.8	24.8	8.9	7.7	23.4
51 to 99	12.4	14.7	11.5	14.2	4.0	3.1	2.7	8.8	11.9	10.0	6.5	7.8
100	12.8	9.8	7.9	14.5	6.8	3.8	4.6	4.8	15.9	6.7	6.2	10.9
Building Never Open/ Electricity Not Used	68.9	34.0	44.7	57.7	2.3	9.8	16.8	245.8	28.8	44.5	39.8	24.1
Percent Lit When Closed												
Zero	14.0	10.5	11.7	11.0	4.7	5.8	4.0	8.6	13.0	8.0	9.9	5.8
1 to 50	11.8	10.9	6.6	8.7	5.3	3.3	2.2	6.1	14.5	10.5	4.0	7.8
51 to 100	36.8	42.3	29.0	32.3	8.0	7.5	3.9	14.3	28.7	18.8	17.6	20.6
Building Never Closed/ Electricity Not Used	18.8	9.6	13.0	26.0	8.1	3.9	12.3	9.5	18.3	7.9	7.8	18.1
Heating Equipment (more than one may apply)												
Heat Pumps	29.2	20.5	12.2	29.6	6.5	4.6	12.8	9.5	21.2	7.7	11.4	19.0
Packaged Heat Pumps	39.2	25.8	14.3	36.1	7.9	5.9	20.0	9.2	26.4	8.8	15.7	24.2
Split-System Heat Pumps	26.5	31.9	16.8	29.3	9.2	4.1	44.3	13.9	18.0	8.7	16.6	18.7
Individual Room Heat Pumps	39.7	45.4	16.9	26.9	10.0	3.7	5.9	11.9	31.4	12.7	5.7	12.3
Furnaces	16.5	9.6	11.7	16.6	3.9	2.3	3.1	7.4	12.9	8.5	8.8	11.5
Individual Space Heaters	19.8	11.9	13.0	11.0	4.1	2.9	20.1	17.3	16.6	5.6	9.0	10.8
District Heat	34.0	30.8	31.1	36.4	10.8	5.4	4.2	22.2	15.1	8.3	10.8	22.4
Boilers	16.6	12.6	13.6	19.6	5.9	2.9	9.7	8.2	22.1	10.3	10.7	13.1
Packaged Heating Units	17.7	13.3	9.6	19.1	3.1	3.1	2.5	8.3	10.4	8.9	6.3	16.1
Other	25.7	16.6	26.5	29.5	9.1	7.2	6.9	24.2	20.3	15.1	18.6	20.3
Cooling Equipment (more than one may apply)												
Residential-Type Central Air Conditioners	19.4	9.3	20.6	19.9	3.4	3.7	20.9	6.7	34.4	8.7	14.6	13.9
Heat Pumps	29.3	20.9	14.1	27.7	5.9	4.9	11.9	9.0	21.2	7.8	10.0	17.6
Packaged Heat Pumps	38.8	25.8	15.0	37.7	6.6	5.7	20.0	9.5	26.3	8.7	15.9	25.8
Split-System Heat Pumps	26.5	29.2	18.6	28.9	9.2	5.6	43.4	13.6	18.0	12.2	15.7	18.5
Individual Room Heat Pumps	39.7	45.4	22.9	29.5	10.0	3.7	3.4	14.3	31.4	12.7	5.1	9.0
Individual Air Conditioners	16.2	15.0	19.5	28.4	4.3	4.1	4.0	12.7	16.4	7.4	10.2	17.8
District Chilled Water	29.0	40.8	30.9	41.0	9.4	6.8	3.6	14.6	8.5	17.5	13.0	23.8
Central Chillers	22.5	15.8	13.7	27.6	11.7	3.9	8.7	8.4	12.5	9.4	4.7	12.4
Packaged Air Conditioning Units	12.5	9.4	6.8	13.8	4.1	3.2	2.4	7.2	19.3	6.9	5.1	11.6
Swamp Coolers	100.1	101.3	45.4	10.5	0.0	0.0	10.5	12.5	0.0	.	44.0	16.3
Other	47.1	28.6	40.6	40.2	9.5	17.5	14.1	15.0	18.6	18.3	32.2	24.1
Main Equipment Replaced Since 1990 (more than one may apply)												
Heating	16.3	12.3	10.2	27.4	3.7	2.6	2.5	8.1	11.9	11.1	8.9	20.7
Cooling	14.3	13.9	9.1	19.7	5.1	3.0	10.5	6.0	11.6	10.6	7.7	15.9
Water Heating Equipment												
Centralized System	9.3	11.0	8.1	13.6	5.7	2.9	1.5	5.4	12.6	9.9	4.8	10.5
Distributed System	32.9	19.6	11.7	19.6	2.6	2.4	3.6	13.8	34.0	7.3	4.5	15.1
Combination of Centralized and Distributed System	19.2	16.5	14.1	25.3	5.1	3.5	12.8	8.8	10.5	10.6	9.3	14.7

RSEs for Table C16. Electricity Expenditures by Census Region for Non-Mall Buildings, 2003

	RSEs for Total Electricity Expenditures				RSEs for Electricity Expenditures							
					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*	8.9	9.2	5.7	11.4	4.0	3.1	2.8	5.2	11.8	7.5	4.5	8.8
Lighting Equipment Types (more than one may apply)												
Incandescent	13.4	9.5	7.1	16.5	5.1	2.1	4.3	6.0	17.8	7.7	5.6	13.1
Standard Fluorescent	9.2	9.3	5.8	11.6	4.0	3.0	2.8	5.1	12.0	7.6	4.3	9.0
Compact Fluorescent	14.7	9.7	8.5	16.5	4.9	2.6	5.0	7.3	14.8	5.8	6.4	10.7
High Intensity Discharge	16.6	12.2	10.0	16.0	6.0	4.5	7.3	10.7	11.0	6.3	8.6	12.7
Halogen	17.1	10.4	10.0	18.4	5.9	2.3	7.4	8.8	14.8	4.8	8.7	10.7
Other	82.5	77.7	49.7	85.9	7.3	1.8	29.1	111.6	25.2	16.6	54.1	284.3
Refrigeration Equipment (more than one may apply)[a]												
Any Refrigeration	9.5	8.2	5.7	13.5	4.4	2.6	2.9	6.1	12.6	7.9	4.3	9.6
Commercial Refrigeration	11.7	10.8	8.5	17.4	5.6	3.1	4.5	7.2	20.4	5.8	6.0	12.3
Walk-In Units	13.4	9.7	8.9	19.1	5.5	3.3	5.7	7.2	27.9	7.5	7.3	14.0
Cases or Cabinets	12.4	14.4	9.8	20.0	5.0	2.9	5.7	8.4	13.3	4.8	7.2	14.5
Residential-Type Units	11.6	12.3	7.6	12.2	3.2	2.2	5.7	7.9	18.2	9.0	5.0	8.2
Vending Machines	12.8	9.6	7.1	16.6	3.8	2.5	3.6	7.8	12.7	7.0	4.3	10.1
No Refrigeration	14.0	29.8	19.5	12.6	5.7	11.2	3.4	7.2	14.0	13.5	11.4	7.8
Office Equipment (more than one may apply)												
Computers	9.6	9.2	6.1	12.4	4.3	2.8	3.0	5.4	13.1	7.1	4.1	9.4
With Flat Screen Monitors	14.6	11.2	9.4	17.2	6.1	3.0	5.0	8.0	12.0	7.0	5.4	11.5
Dedicated Servers	12.4	10.8	7.7	14.7	4.9	2.9	4.0	6.2	11.5	6.6	4.6	10.7
Laser Printers	9.9	8.1	6.8	16.6	3.1	3.2	5.4	6.7	12.1	8.1	5.4	13.4
Inkjet Printers	14.2	10.2	9.5	13.4	6.6	2.4	5.4	6.1	9.0	6.3	5.7	6.8
FAX Machines	9.9	9.3	6.0	12.6	4.4	2.5	3.0	5.5	13.2	7.6	4.2	8.6
Photocopiers	11.2	9.7	6.5	14.6	5.1	2.8	3.5	6.1	14.3	6.3	4.2	9.9
Number of Computers												
None	26.6	17.0	17.7	16.3	9.6	10.8	3.7	17.9	31.7	10.8	10.2	22.5
1 to 4	18.1	17.5	11.9	14.4	6.2	6.8	2.9	8.1	32.1	12.5	12.0	12.5
5 to 9	23.7	12.5	9.4	20.5	4.9	4.5	3.3	9.0	17.3	7.4	7.3	16.6
10 to 19	23.2	19.3	17.4	14.7	15.0	4.6	7.2	7.5	21.1	10.5	15.5	12.2
20 to 49	19.6	17.0	13.9	27.7	4.2	4.8	5.3	13.3	13.2	10.5	5.1	24.5
50 to 99	27.9	18.8	15.4	10.6	6.1	4.8	3.1	7.5	54.8	8.5	6.0	12.3
100 to 249	28.0	14.0	12.0	23.1	4.6	4.4	4.8	10.6	13.6	10.0	5.5	9.2
250 or More	19.2	14.4	15.9	32.8	9.5	3.8	11.6	14.4	12.8	12.6	7.2	17.7
Number of Dedicated Servers												
None	10.9	8.7	9.0	9.5	2.8	5.6	2.1	8.0	16.3	11.0	8.2	7.4
1 to 4	11.3	8.6	8.5	13.1	5.0	3.0	2.2	6.8	13.8	5.8	4.9	8.8
5 to 9	28.1	14.1	26.6	48.1	5.5	5.2	32.5	14.6	19.9	13.8	21.5	44.6
10 to 19	32.3	18.6	25.6	27.1	7.4	3.7	4.1	23.7	22.2	11.0	12.0	27.3
20 to 49	28.5	44.8	29.1	20.3	7.7	10.1	5.1	15.2	11.9	28.8	9.8	15.4
50 or More	32.0	40.5	35.1	52.7	9.7	5.6	7.6	15.1	15.1	11.3	10.8	26.1
Number of Photocopiers												
None	16.1	11.1	11.0	13.9	4.1	6.4	2.2	6.7	20.0	13.3	9.3	13.3
One	15.4	9.8	11.5	13.0	10.7	3.3	4.3	9.3	28.7	7.2	5.0	8.8
2 to 4	11.8	13.0	11.6	17.2	2.9	4.1	3.4	8.5	10.6	10.1	7.4	11.6
5 to 9	29.7	14.8	21.7	35.1	4.8	4.1	3.5	11.4	40.0	6.3	6.4	32.8
10 or More	19.5	17.0	16.9	29.0	10.7	3.2	13.2	13.4	12.6	10.5	8.7	14.1

RSEs for Table C16. Electricity Expenditures by Census Region for Non-Mall Buildings, 2003

	RSEs for Total Electricity Expenditures				RSEs for Electricity Expenditures							
					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*	8.9	9.2	5.7	11.4	4.0	3.1	2.8	5.2	11.8	7.5	4.5	8.8
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	12.3	10.5	9.8	22.1	5.6	3.3	5.8	8.4	28.4	6.5	5.4	15.9
Activities with Large Amounts of Hot Water	18.0	10.0	11.0	20.6	6.1	2.4	7.5	9.0	30.7	5.0	5.9	17.0
Separate Computer Area	12.8	13.5	9.3	17.5	6.6	2.8	5.7	8.2	14.4	7.5	5.4	11.0
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	20.3	11.1	10.7	22.1	7.6	2.9	7.0	9.7	12.5	6.2	4.9	14.0
Economizer Cycle	16.5	10.2	9.5	16.2	5.0	2.8	6.4	9.1	7.5	6.5	4.9	11.2
HVAC Maintenance	9.5	9.9	6.5	12.4	4.2	3.3	3.0	5.4	13.7	7.0	4.9	10.0
Energy Management and Control System (EMCS)	18.5	12.7	11.6	22.3	6.8	2.6	8.4	8.5	10.7	5.3	4.7	13.9
Window and Interior Lighting Features (more than one may apply)												
Multipaned Windows	10.2	10.5	6.2	14.7	2.7	2.7	2.2	6.0	15.5	7.4	4.1	10.9
Tinted Window Glass	14.4	11.7	8.0	13.4	3.3	3.6	5.1	6.0	9.3	10.1	5.3	8.9
Reflective Window Glass	26.2	16.6	11.2	11.8	6.6	3.7	18.2	10.2	18.3	11.1	11.0	11.6
External Overhangs or Awnings	14.6	14.9	13.1	18.6	3.7	3.0	4.3	9.1	25.0	8.1	5.8	14.6
Skylights or Atriums	16.2	12.8	13.3	24.1	7.0	4.6	4.0	8.1	22.0	8.6	5.8	14.1
Daylighting Sensors	39.0	23.7	21.6	40.7	16.5	2.2	7.6	15.6	22.4	15.7	12.0	31.6
Specular Reflectors	16.7	11.6	10.1	17.2	5.9	3.9	6.5	8.8	14.0	6.0	7.8	9.8
Electronic Ballasts	12.3	9.6	6.9	13.4	5.1	3.1	3.3	5.5	11.7	5.2	5.0	9.5
Energy Management and Control System (EMCS) For Lighting	24.8	18.8	22.3	31.4	5.3	5.4	6.5	12.7	7.9	11.5	9.1	15.7
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]												
Heating	10.5	9.5	6.2	13.0	4.7	2.0	3.9	5.8	14.7	9.2	3.2	10.9
Cooling	10.4	11.0	7.0	12.8	4.3	2.3	3.6	6.1	14.4	7.7	3.7	9.8
Lighting	9.0	10.0	6.1	6.6	4.2	3.9	1.9	5.8	11.3	7.1	4.3	5.1
Office Equipment	14.2	15.4	12.6	12.2	4.9	6.3	2.4	8.5	16.3	13.8	7.5	7.4
Annual Consumption (kilowatthours)												
10,000 or Less	23.8	14.9	24.3	20.0	9.6	5.7	5.9	9.7	21.2	24.2	11.6	17.3
10,001 to 50,000	19.6	13.3	12.6	9.3	5.1	3.6	3.2	9.7	15.5	10.0	6.0	14.9
50,001 to 100,000	20.8	15.2	9.4	14.4	6.5	4.4	3.2	9.8	22.1	13.5	8.5	9.9
100,001 to 500,000	14.5	9.4	6.7	12.6	3.4	2.8	2.3	3.1	25.5	8.9	8.8	8.7
500,001 to 1,000,000	19.6	16.1	11.6	28.7	6.0	4.4	4.0	12.7	13.9	9.3	7.6	16.9
1,000,001 to 5,000,000	17.3	17.2	12.0	14.2	5.4	4.3	2.9	9.6	10.8	6.1	6.8	15.2
Over 5,000,000	22.4	11.2	18.4	36.3	11.1	4.7	12.8	15.0	14.4	14.0	9.1	18.6

RSEs for Table C16. Electricity Expenditures by Census Region for Non-Mall Buildings, 2003

	RSEs for Total Electricity Expenditures				RSEs for Electricity Expenditures							
					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*	8.9	9.2	5.7	11.4	4.0	3.1	2.8	5.2	11.8	7.5	4.5	8.8
Provider of Purchased Electricity (more than one may apply)												
Local Utility	9.5	9.7	6.0	11.4	3.9	3.1	1.9	4.9	12.6	8.1	4.4	8.4
Some Other Provider	23.6	24.4	20.1	53.7	8.8	4.9	32.8	23.9	12.4	13.9	14.5	51.4

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

RSEs for Table C17. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	26.4	10.5	15.0	20.8	10.6	13.7	20.7	12.4	9.4
Building Floorspace (Square Feet)									
1,001 to 5,000	10.5	16.2	15.3	26.6	17.9	11.7	18.1	13.3	10.5
5,001 to 10,000	28.5	18.1	34.2	22.2	13.4	30.4	32.4	16.7	22.4
10,001 to 25,000	51.5	25.6	20.4	47.3	15.0	19.6	50.4	29.2	14.8
25,001 to 50,000	43.5	23.8	21.7	31.9	13.8	11.1	38.2	19.5	19.7
50,001 to 100,000	39.9	20.9	28.5	29.7	15.4	24.4	39.6	16.5	22.0
100,001 to 200,000	62.5	24.0	29.3	28.0	34.8	24.6	51.0	47.6	9.4
200,001 to 500,000	59.8	22.6	25.3	74.9	31.9	36.1	71.8	37.8	10.7
Over 500,000	60.7	17.0	17.0	60.1	16.7	25.0	17.6	9.5	18.4
Principal Building Activity									
Education	36.7	19.9	17.6	40.5	21.9	14.5	7.9	11.5	14.3
Food Sales	34.6	28.0	28.0	35.4	15.7	32.5	19.9	16.7	19.5
Food Service	60.6	31.0	39.1	61.8	43.2	33.7	5.7	26.2	21.0
Health Care	40.7	17.2	18.6	52.8	11.0	16.7	22.5	16.4	7.0
Inpatient	49.8	25.5	14.2	73.9	20.0	11.7	22.8	13.0	11.2
Outpatient	69.0	30.1	42.6	56.5	31.0	34.1	23.9	16.0	12.8
Lodging	49.3	26.0	23.1	43.0	53.7	26.7	15.1	119.4	8.8
Retail (Other Than Mall)	38.5	28.2	26.8	21.3	16.6	30.3	29.7	17.7	15.6
Office	37.2	14.8	18.6	25.6	15.1	14.4	21.2	3.4	9.4
Public Assembly	46.5	35.8	30.6	28.4	39.7	34.4	49.7	105.0	16.4
Public Order and Safety	66.7	47.6	57.1	63.6	44.7	56.2	35.7	29.0	8.4
Religious Worship	69.4	23.5	18.8	72.1	19.6	29.9	13.6	18.4	11.6
Service	71.1	23.1	29.0	74.1	22.1	31.3	13.1	15.0	22.1
Warehouse and Storage	37.2	26.0	49.8	65.3	25.2	35.1	22.0	29.1	18.5
Other	56.3	54.8	41.6	48.9	32.9	29.2	20.4	27.3	20.7
Vacant	84.7	61.1	47.4	88.5	49.1	53.2	6.7	18.2	47.8
Year Constructed									
Before 1920	33.7	49.6	17.0	31.4	28.8	18.9	8.2	53.8	13.7
1920 to 1945	29.5	26.6	54.2	23.9	29.4	37.4	25.2	28.9	18.7
1946 to 1959	30.9	31.2	15.9	52.6	26.6	15.6	46.1	35.6	6.2
1960 to 1969	52.8	20.7	20.7	53.8	26.5	17.0	31.1	12.6	19.4
1970 to 1979	28.2	20.6	27.1	25.1	18.8	23.3	21.9	17.9	19.7
1980 to 1989	53.5	20.5	19.3	31.0	23.9	14.6	41.5	18.1	9.4
1990 to 1999	64.0	23.3	23.9	41.1	19.6	25.5	59.7	12.7	13.4
2000 to 2003	47.8	55.2	33.6	46.3	43.4	27.0	20.7	13.2	21.2
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	31.6	61.0	12.4	55.2	47.0	11.5	15.3	22.7	14.4
5,500-7,000 HDD	31.8	26.3	19.5	16.7	23.6	19.0	21.1	9.0	11.7
4,000-5,499 HDD	0.0	28.0	0.0	0.0	21.6	0.0	0.0	22.4	0.0
Fewer than 4,000 HDD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2,000 CDD or More and --									
Fewer than 4,000 HDD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Number of Floors									
One	27.0	12.6	28.5	28.0	16.6	23.5	26.4	14.5	9.3
Two	30.2	15.2	24.9	31.3	19.6	18.9	20.4	18.5	19.2
Three	30.7	40.1	25.0	30.7	16.9	12.0	38.7	36.7	19.8
Four to Nine	44.1	15.6	16.9	26.1	32.1	11.0	29.1	36.7	13.0
Ten or More	53.3	16.5	16.4	53.4	15.5	23.1	7.5	8.7	12.6

RSEs for Table C17. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	26.4	10.5	15.0	20.8	10.6	13.7	20.7	12.4	9.4
Elevators and Escalators (more than one may apply)									
Any Elevators	35.1	14.7	12.7	20.2	12.1	9.2	22.4	13.0	8.9
Number of Elevators									
One	50.2	29.8	21.2	38.1	23.6	16.4	38.9	21.4	9.8
Two to Five	52.6	24.7	18.9	36.6	19.7	13.9	34.4	26.4	13.3
Six or More	48.5	16.5	15.8	48.0	17.1	17.6	19.1	5.9	15.1
Any Escalators	100.1	40.3	50.3	100.1	39.1	52.8	0.0	23.5	12.2
Number of Workers (main shift)									
Fewer than 5	30.2	18.0	41.5	22.9	24.6	32.9	33.2	19.8	17.2
5 to 9	49.3	24.3	26.4	48.7	24.7	27.2	17.8	24.8	17.3
10 to 19	27.0	30.1	27.0	34.1	37.7	12.9	36.2	53.8	19.8
20 to 49	8.6	30.8	21.4	23.2	30.6	18.0	18.6	44.2	15.5
50 to 99	56.0	39.7	16.9	45.1	18.8	15.6	36.9	31.1	8.3
100 to 249	42.5	26.0	23.5	30.0	20.2	18.6	24.8	15.0	15.7
250 or More	40.1	14.5	11.4	30.6	15.9	19.7	31.8	3.6	14.4
Weekly Operating Hours									
Fewer than 40	35.1	35.5	17.8	40.4	29.0	37.1	38.2	17.9	21.4
40 to 48	46.9	12.1	32.4	35.7	24.4	13.7	25.7	32.7	23.9
49 to 60	37.6	16.3	40.1	29.1	14.2	29.0	25.1	9.4	14.1
61 to 84	20.7	22.5	24.7	14.7	15.7	19.5	7.5	14.0	13.2
85 to 167	8.3	21.4	18.2	53.1	23.8	10.5	38.9	14.8	12.3
Open Continuously	42.3	17.1	12.8	33.6	15.3	12.2	20.3	17.5	9.9
Ownership and Occupancy									
Nongovernment Owned	30.6	11.1	13.3	22.8	10.9	12.2	25.0	13.8	12.5
Owner Occupied	31.9	13.8	18.6	25.3	10.8	11.2	23.5	15.9	12.3
Nonowner Occupied	40.4	17.1	17.9	25.3	15.5	18.6	27.5	17.4	9.9
Unoccupied	99.1	92.9	56.4	99.1	89.5	55.4	0.0	4.1	57.1
Government Owned	26.5	18.1	28.2	16.6	19.7	20.5	20.6	10.2	10.3
Federal	59.0	53.9	59.8	50.8	54.0	63.8	32.2	74.1	4.1
State	43.0	41.0	44.8	13.3	35.0	40.0	36.2	22.0	18.4
Local	16.0	29.8	20.1	18.0	25.1	14.3	14.1	16.4	14.4
Vacancy Status									
Completely Vacant	99.1	77.4	56.4	99.1	63.8	55.4	0.0	36.1	57.1
Mostly Vacant	82.9	96.0	90.7	86.3	86.1	95.4	6.6	73.3	5.5
Partially Vacant	36.5	14.9	14.6	22.2	15.3	15.9	19.4	7.4	12.8
Not At All Vacant	26.7	11.3	19.3	18.7	14.4	13.4	22.7	18.0	10.0
Number of Establishments									
One	25.9	12.8	16.6	25.3	17.8	16.4	23.0	22.4	8.6
2 to 5	35.7	21.7	23.4	20.0	17.1	13.1	26.4	19.0	14.1
6 to 10	72.1	35.8	23.0	47.1	30.1	19.4	50.1	20.1	19.5
11 to 20	59.1	30.6	27.1	45.0	36.2	28.1	38.2	13.4	7.0
More than 20	21.2	21.4	52.2	37.4	21.1	50.2	87.9	8.3	27.0
Currently Unoccupied	99.1	77.4	56.4	99.1	63.8	55.4	0.0	36.1	57.1

RSEs for Table C17. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	26.4	10.5	15.0	20.8	10.6	13.7	20.7	12.4	9.4
Predominant Exterior Wall Material									
Brick, Stone or Stucco	38.6	16.1	20.3	23.6	15.8	13.9	21.4	18.8	9.2
Concrete (Block or Poured)	52.4	16.5	25.3	24.4	15.9	25.6	42.3	16.5	21.4
Concrete Panels	70.8	23.6	16.4	70.9	17.5	20.4	16.2	17.8	19.3
Siding or Shingles	32.0	32.1	25.4	30.8	21.9	37.6	41.7	33.5	20.8
Metal Panels	69.1	40.2	44.5	49.4	30.0	23.2	45.8	13.1	32.0
Window Glass	97.8	57.2	68.8	97.8	58.9	60.6	0.1	29.9	36.4
Other	95.3	48.2	51.6	96.8	42.0	49.3	38.5	37.6	9.1
No One Major Type	X	71.7	62.1	X	73.1	27.0	X	15.6	39.1
Predominant Roof Material									
Built-Up	31.2	14.0	11.4	20.6	10.7	10.8	22.9	10.6	15.6
Shingles (Not Wood)	32.2	35.3	11.8	12.8	15.8	9.6	31.8	27.8	10.4
Metal Surfacing	57.5	28.4	34.9	71.9	39.1	25.3	23.1	23.9	20.0
Synthetic or Rubber	38.4	16.6	18.7	25.4	13.2	18.4	23.0	9.8	10.8
Slate or Tile	84.2	28.3	32.1	74.8	22.8	25.9	177.2	36.8	29.6
Wooden Materials	100.1	81.8	81.9	100.2	71.9	95.5	1.4	15.1	14.5
Concrete	X	79.8	83.6	X	98.8	82.5	X	1678.5	1.1
Other	100.1	100.1	48.9	100.1	100.1	33.4	0.0	0.1	28.4
No One Major Type	62.6	70.7	58.6	71.2	61.4	60.1	48.1	72.3	29.8
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	24.7	13.9	17.8	24.5	11.6	12.2	24.6	11.3	12.5
Addition or Annex	45.4	23.7	23.8	79.8	29.2	16.9	27.2	38.1	14.3
Reduction In Floorspace	90.4	41.8	48.8	78.5	39.7	43.0	62.9	22.9	28.6
Cosmetic Improvements	24.7	14.8	19.3	23.3	13.9	14.1	24.0	12.7	11.8
Wall or Roof Replacement	44.1	20.4	21.4	28.2	18.1	17.2	39.9	22.9	13.1
Interior Wall Re-Configuration	39.0	15.4	20.5	26.6	13.0	17.8	34.7	19.9	9.8
HVAC Equipment Upgrade	34.5	15.6	17.8	20.6	13.1	15.6	27.9	10.0	13.6
Lighting Upgrade	29.4	15.7	18.2	22.5	13.1	14.5	27.2	15.7	12.1
Window Replacement	40.9	20.2	24.2	23.7	15.3	16.9	36.2	23.6	18.4
Plumbing System Upgrade	35.7	20.1	20.2	26.6	16.8	21.2	26.3	22.6	7.4
Insulation Upgrade	65.2	19.6	22.3	46.3	29.4	21.3	50.5	18.2	20.8
Other Renovation	70.7	44.4	48.8	71.1	48.7	44.3	9.1	59.8	18.4
No Renovations Since 1980	23.1	12.2	28.1	21.6	17.7	22.5	14.4	21.0	12.8
Building Newer than 1980	50.6	19.8	14.0	31.4	18.1	16.1	33.5	11.8	11.4
Energy Sources (more than one may apply)									
Electricity	26.4	10.5	15.0	20.8	10.6	13.7	20.7	12.4	9.4
Natural Gas	33.4	12.2	11.5	19.7	11.1	9.9	27.2	14.3	9.1
Fuel Oil	41.0	26.9	15.3	30.5	22.4	10.7	22.8	13.7	8.4
District Heat	38.2	30.6	40.0	34.9	25.2	39.7	23.5	7.1	9.7
District Chilled Water	58.6	32.8	44.8	59.0	30.9	42.7	13.2	12.7	21.9
Propane	25.6	45.1	58.2	42.2	36.7	63.3	13.9	29.6	14.3
Other	32.7	55.8	52.3	55.3	46.9	32.7	19.5	17.7	42.6

RSEs for Table C17. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	26.4	10.5	15.0	20.8	10.6	13.7	20.7	12.4	9.4
Space-Heating Energy Sources									
Electricity	43.6	14.9	19.0	20.8	16.0	13.9	30.6	6.0	10.9
Electricity Main	38.3	25.6	23.2	47.2	23.4	17.0	38.4	10.1	13.9
Electricity Secondary	52.4	22.5	19.1	26.5	20.4	14.9	39.7	11.2	9.6
Other Excluding Electricity	33.9	11.9	14.8	28.5	17.5	14.5	21.0	18.9	10.1
Buildings without Heating	73.7	30.5	71.3	62.0	45.2	39.8	86.1	75.3	44.0
Primary Space-Heating Energy Source									
Electricity	38.3	25.6	23.2	47.2	23.4	17.0	38.4	10.1	13.9
Natural Gas	46.7	13.1	11.8	15.4	9.1	11.2	41.5	8.2	11.0
Fuel Oil	26.2	37.1	26.2	20.8	48.8	21.3	13.9	62.3	27.2
District Heat	42.3	34.5	40.7	37.2	28.3	42.4	22.0	7.8	3.3
Propane	56.6	70.4	63.9	76.4	69.8	63.5	11.7	12.8	6.1
Other	98.3	86.3	98.9	98.1	62.4	98.9	2.6	19.0	0.0
Cooling Energy Sources									
Electricity	28.0	12.9	14.2	16.3	11.9	12.0	21.2	13.6	8.7
Other Excluding Electricity	60.6	20.6	48.1	75.8	20.0	45.7	78.2	3.7	31.0
Buildings without Cooling	22.0	40.8	70.6	33.9	36.1	48.2	36.6	27.7	26.6
Water-Heating Energy Sources									
Electricity	28.2	19.2	17.5	20.5	11.4	18.5	22.2	15.0	15.0
Other Excluding Electricity	33.3	8.1	12.3	20.9	12.5	9.0	20.2	14.7	9.7
Bldgs without Water Heating	24.5	29.7	73.2	75.8	41.1	50.1	52.2	22.5	16.7
Cooking Energy Sources									
Electricity	25.1	21.1	22.1	26.1	22.8	17.7	21.0	14.0	11.5
Other Excluding Electricity	20.8	42.7	18.5	36.5	47.6	18.4	30.9	77.8	12.9
Buildings without Cooking	32.2	13.4	15.3	22.1	8.9	15.5	24.8	9.9	11.1
Energy End Uses (more than one may apply)									
Buildings with Space Heating	27.0	10.5	14.9	18.2	10.5	13.7	20.6	12.6	9.2
Buildings with Cooling	28.7	11.2	13.0	17.1	11.1	10.9	19.7	12.4	8.6
Buildings with Water Heating	27.1	10.6	12.4	18.3	10.5	10.5	19.5	13.1	10.8
Buildings with Cooking	19.6	18.5	16.9	24.1	28.5	14.0	18.5	34.7	9.7
Buildings with Manufacturing	83.8	37.3	44.7	46.2	28.1	30.6	82.7	28.1	38.4
Buildings with Electricity Generation	39.6	14.8	15.3	25.6	13.9	13.9	23.6	12.0	9.6
Percent of Floorspace Heated									
Not Heated	73.7	30.5	71.3	62.0	45.2	39.8	86.1	75.3	44.0
1 to 50	60.5	36.7	60.7	44.5	37.9	36.2	51.6	15.6	35.5
51 to 99	25.7	24.5	19.7	33.3	17.0	24.3	14.9	13.5	22.8
100	26.5	12.2	16.4	15.2	17.0	14.3	22.6	18.7	9.4
Percent of Floorspace Cooled									
Not Cooled	22.0	40.8	70.6	33.9	36.1	48.2	36.6	27.7	26.6
1 to 50	17.5	10.5	20.7	22.4	15.7	14.9	26.7	12.7	13.7
51 to 99	39.5	14.9	17.2	28.0	19.8	17.4	18.3	19.3	12.5
100	39.7	16.0	16.9	33.9	11.5	14.6	16.7	7.9	7.6

RSEs for Table C17. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	26.4	10.5	15.0	20.8	10.6	13.7	20.7	12.4	9.4
Percent Lit When Open									
Zero	100.5	77.8	X	100.5	71.4	X	0.0	43.4	X
1 to 50	39.8	23.8	12.2	38.7	18.4	16.7	22.0	28.8	12.9
51 to 99	19.1	16.7	18.6	21.1	11.2	16.5	16.5	13.7	12.6
100	37.0	15.8	17.7	23.6	13.9	15.7	18.1	16.4	8.2
Building Never Open/ Electricity Not Used	99.1	73.1	39.1	99.1	59.7	53.4	0.0	33.0	46.4
Percent Lit When Closed									
Zero	19.2	17.5	21.0	34.8	15.6	22.8	25.1	12.7	7.6
1 to 50	30.7	17.1	16.9	20.4	13.1	11.8	22.4	18.2	12.6
51 to 100	74.7	50.4	59.9	42.6	31.7	40.9	29.5	45.8	28.3
Building Never Closed/ Electricity Not Used	42.3	17.1	12.8	33.6	15.3	12.2	20.3	17.5	9.9
Heating Equipment (more than one may apply)									
Heat Pumps	59.2	28.9	28.2	27.9	24.5	24.1	44.2	24.3	9.0
Packaged Heat Pumps	73.5	37.5	33.6	84.0	33.6	26.4	96.1	24.7	11.0
Split-System Heat Pumps	12.5	32.9	28.5	8.4	33.4	42.0	18.7	20.0	18.6
Individual Room Heat Pumps	72.3	43.7	49.6	37.8	44.0	51.7	57.1	35.5	11.8
Furnaces	36.2	19.2	15.7	29.6	15.5	15.9	30.8	12.3	13.5
Individual Space Heaters	41.0	19.3	17.9	15.0	25.0	17.3	34.0	15.9	8.1
District Heat	40.0	34.4	40.0	35.2	28.3	39.7	20.8	7.8	9.7
Boilers	42.2	22.9	14.1	20.2	25.2	8.8	34.1	30.3	11.3
Packaged Heating Units	43.6	16.9	20.7	38.3	16.2	19.8	26.9	10.7	14.1
Other	33.9	31.4	25.8	48.6	28.9	30.3	27.7	13.7	13.6
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	61.2	16.7	16.3	38.9	24.8	15.2	48.8	38.9	17.6
Heat Pumps	56.5	29.3	28.3	27.1	25.2	24.3	41.3	24.9	8.5
Packaged Heat Pumps	61.9	37.7	33.6	73.2	34.3	26.5	64.0	25.7	10.7
Split-System Heat Pumps	12.5	32.9	26.7	8.4	33.4	34.8	18.7	20.0	9.9
Individual Room Heat Pumps	72.3	43.7	49.6	37.8	44.0	51.7	57.1	35.5	11.8
Individual Air Conditioners	26.9	18.7	22.1	19.1	24.9	17.3	30.6	19.2	8.8
District Chilled Water	58.6	32.8	44.8	59.0	30.9	42.7	13.2	12.7	21.9
Central Chillers	28.9	23.4	17.2	25.6	21.8	16.1	10.9	4.7	10.5
Packaged Air Conditioning Units	35.5	14.2	16.0	20.9	17.4	14.6	26.0	21.0	11.2
Swamp Coolers	X	100.1	101.3	X	100.1	101.3	X	0.0	0.0
Other	74.3	50.2	25.7	82.8	37.9	31.7	76.1	21.7	29.3
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	32.4	19.8	16.7	25.3	13.2	13.5	33.8	11.0	15.3
Cooling	25.6	18.9	19.1	15.6	15.2	12.5	22.2	11.9	11.6
Water Heating Equipment									
Centralized System	23.0	9.4	15.8	16.9	9.6	9.9	19.6	12.9	12.7
Distributed System	65.5	37.2	32.9	35.5	37.9	29.0	63.4	39.6	11.9
Combination of Centralized and Distributed System	35.9	26.1	25.7	29.4	27.0	20.0	19.1	14.1	18.3

RSEs for Table C17. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	26.4	10.5	15.0	20.8	10.6	13.7	20.7	12.4	9.4
Lighting Equipment Types (more than one may apply)									
Incandescent	32.4	13.8	13.7	21.5	17.4	12.4	23.5	20.6	11.4
Standard Fluorescent	26.8	11.1	15.0	18.2	10.6	13.0	20.2	12.9	9.4
Compact Fluorescent	33.2	15.5	14.3	17.9	14.3	13.5	23.1	15.0	8.1
High Intensity Discharge	40.5	13.1	18.8	19.5	12.6	17.5	27.6	7.0	8.1
Halogen	33.2	14.7	7.3	26.7	11.0	9.4	18.3	14.0	7.6
Other	98.4	71.0	77.1	98.4	72.1	76.2	0.0	17.7	18.3
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	27.1	10.5	12.9	17.9	11.2	10.7	20.4	13.8	10.8
Commercial Refrigeration	27.1	12.8	16.8	22.7	19.1	14.0	23.4	23.9	8.7
Walk-In Units	27.2	15.5	14.1	22.8	29.4	13.3	24.9	36.9	9.1
Cases or Cabinets	27.6	16.2	20.7	19.8	13.8	18.2	19.9	14.3	8.0
Residential-Type Units	24.0	12.4	18.9	15.9	13.6	13.5	19.0	20.9	12.9
Vending Machines	33.0	11.6	13.4	21.3	13.4	12.5	15.9	13.9	9.4
No Refrigeration	22.7	17.4	52.7	45.1	22.5	36.5	19.0	17.0	17.3
Office Equipment (more than one may apply)									
Computers	26.7	11.2	14.2	15.8	10.1	11.3	20.1	13.8	9.6
With Flat Screen Monitors	36.6	17.3	12.0	22.4	11.5	8.9	25.0	11.1	9.3
Dedicated Servers	31.5	15.7	15.7	20.7	10.5	11.0	18.3	12.4	10.0
Laser Printers	24.4	11.0	13.2	15.9	10.3	9.6	26.3	11.9	11.7
Inkjet Printers	37.2	14.0	12.7	27.1	11.9	9.7	20.1	10.8	8.9
FAX Machines	28.7	11.4	13.7	18.3	10.5	10.1	20.0	14.0	10.7
Photocopiers	31.3	12.2	14.5	16.3	10.5	11.0	19.8	14.5	9.6
Number of Computers									
None	25.9	26.1	39.5	52.8	30.4	36.6	21.7	29.7	8.7
1 to 4	31.4	24.6	31.2	14.3	25.1	27.5	32.2	40.4	19.8
5 to 9	56.8	29.2	17.2	33.4	25.1	12.5	55.5	19.1	14.5
10 to 19	22.3	44.2	28.3	33.5	28.9	13.6	20.8	44.8	18.9
20 to 49	44.5	20.4	21.5	20.3	23.3	18.6	33.1	13.7	12.4
50 to 99	60.8	28.8	22.0	45.9	39.2	17.0	33.2	66.0	14.1
100 to 249	52.8	37.0	19.1	37.9	23.7	16.6	32.4	15.7	13.4
250 or More	51.6	12.0	14.1	27.4	12.2	16.4	35.1	6.2	14.8
Number of Dedicated Servers									
None	23.9	11.5	16.8	24.7	17.1	22.4	36.3	17.2	10.2
1 to 4	24.2	16.7	13.3	20.3	17.0	8.9	11.8	19.0	10.5
5 to 9	67.5	27.1	16.4	61.9	23.7	18.9	46.7	18.2	21.7
10 to 19	55.8	39.0	23.1	48.3	24.3	24.1	48.2	23.9	13.6
20 to 49	79.8	31.9	44.7	87.6	31.7	33.6	13.0	13.2	21.9
50 or More	63.7	31.7	44.1	54.0	29.7	54.0	43.5	15.8	10.1
Number of Photocopiers									
None	23.9	20.9	20.3	35.3	24.0	27.9	41.7	16.7	13.4
One	47.0	16.7	18.1	20.0	25.5	22.6	41.2	33.5	12.9
2 to 4	38.2	8.2	19.3	16.8	12.0	7.7	29.3	7.8	15.3
5 to 9	64.2	30.8	20.9	49.4	35.7	13.2	44.7	48.7	8.9
10 or More	38.6	14.9	18.5	22.7	15.6	18.1	33.2	6.3	13.4

RSEs for Table C17. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	26.4	10.5	15.0	20.8	10.6	13.7	20.7	12.4	9.4
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	19.6	18.5	16.9	24.1	28.5	14.0	18.5	34.7	9.7
Activities with Large Amounts of Hot Water	39.2	22.9	15.4	23.7	33.4	15.3	25.8	45.4	7.9
Separate Computer Area	38.5	14.5	17.5	23.7	11.3	14.2	23.8	13.9	9.7
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	50.0	19.6	10.5	35.7	15.7	8.8	26.8	8.9	8.7
Economizer Cycle	44.0	17.4	14.4	32.3	14.8	11.6	22.7	6.2	9.6
HVAC Maintenance	28.9	11.1	15.8	17.9	13.3	14.9	19.3	15.2	8.0
Energy Management and Control System (EMCS)	45.9	15.5	14.9	40.7	13.7	15.4	18.5	8.9	6.5
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	30.1	9.8	15.0	20.9	15.6	12.2	24.2	18.4	10.5
Tinted Window Glass	39.2	13.9	17.5	24.2	14.3	17.9	24.9	6.1	10.9
Reflective Window Glass	60.8	22.0	24.3	46.0	15.1	19.7	36.3	14.2	16.3
External Overhangs or Awnings	39.4	14.7	25.9	24.7	23.1	21.2	26.9	30.2	11.8
Skylights or Atriums	26.8	18.0	19.6	30.5	17.6	13.5	18.1	24.7	14.9
Daylighting Sensors	37.1	42.4	32.4	30.3	44.6	27.1	55.6	30.8	20.7
Specular Reflectors	38.4	16.8	17.9	30.1	11.8	15.8	26.7	13.8	6.6
Electronic Ballasts	28.9	14.5	15.1	17.6	11.0	13.8	23.1	10.8	5.6
Energy Management and Control System (EMCS) For Lighting	100.1	21.7	22.5	100.1	19.0	32.6	0.0	8.2	16.5
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	28.0	12.0	13.7	19.9	10.5	12.5	22.1	16.0	12.8
Cooling	25.9	12.2	16.1	14.2	11.1	13.1	18.8	15.0	10.9
Lighting	21.2	12.7	17.4	22.3	10.6	13.8	15.3	14.3	9.1
Office Equipment	8.7	15.7	28.2	26.5	11.8	16.8	18.7	16.7	20.7
Annual Consumption (kilowatthours)									
10,000 or Less	38.4	37.2	30.6	59.8	53.2	54.8	15.4	17.3	23.3
10,001 to 50,000	35.4	22.1	19.8	24.5	20.5	29.3	36.5	10.6	19.1
50,001 to 100,000	37.0	20.6	24.7	55.1	32.5	26.7	61.0	32.2	17.2
100,001 to 500,000	29.5	18.0	15.0	37.2	29.9	10.5	25.8	32.1	10.5
500,001 to 1,000,000	41.4	14.8	26.5	20.7	18.4	20.5	27.8	15.2	13.6
1,000,001 to 5,000,000	29.1	22.7	25.0	18.3	20.5	19.8	15.6	11.0	7.3
Over 5,000,000	69.3	16.6	13.9	53.6	17.4	24.1	44.0	9.3	15.1

RSEs for Table C17. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	26.4	10.5	15.0	20.8	10.6	13.7	20.7	12.4	9.4
Provider of Purchased Electricity (more than one may apply)									
Local Utility	28.2	12.2	15.7	18.2	11.2	14.1	23.1	14.6	10.2
Some Other Provider	39.0	21.0	21.6	45.1	22.4	27.7	20.6	6.8	12.7

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

RSEs for Table C18. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	10.7	7.7	11.4	13.3	5.2	7.3	4.5	5.2	9.3
Building Floorspace (Square Feet)									
1,001 to 5,000	18.7	23.3	17.0	26.2	19.2	25.3	13.5	11.5	18.5
5,001 to 10,000	30.0	15.8	32.4	23.8	12.3	18.2	18.8	11.4	20.7
10,001 to 25,000	13.2	25.6	34.9	13.2	15.3	4.0	25.4	22.3	34.8
25,001 to 50,000	17.7	18.9	21.7	16.6	14.3	22.5	7.4	12.1	28.7
50,001 to 100,000	27.5	17.9	20.8	33.3	17.4	23.4	14.2	10.7	7.6
100,001 to 200,000	15.9	31.9	43.7	25.1	28.3	40.6	22.5	12.0	3.6
200,001 to 500,000	43.2	19.8	38.9	52.8	20.1	45.0	63.4	6.7	10.8
Over 500,000	49.4	43.4	23.6	36.8	44.5	28.4	26.9	16.7	5.3
Principal Building Activity									
Education	38.8	15.9	40.1	33.6	11.6	39.3	20.4	7.6	3.1
Food Sales	64.9	39.3	68.4	58.7	30.6	72.4	8.4	21.5	13.0
Food Service	26.4	41.8	19.6	39.2	32.4	12.9	25.2	28.4	7.6
Health Care	29.0	16.2	15.9	25.0	20.2	21.3	11.7	17.8	7.4
Inpatient	28.5	21.7	12.9	27.6	24.0	15.1	7.9	11.7	4.7
Outpatient	32.3	22.5	37.4	31.3	29.6	38.0	26.4	42.1	4.8
Lodging	14.9	27.7	29.1	14.0	22.2	33.5	13.6	7.6	8.2
Retail (Other Than Mall)	44.0	33.1	10.0	44.7	21.9	9.0	6.0	24.7	14.8
Office	21.3	18.6	42.3	16.3	18.9	38.8	8.2	5.0	8.3
Public Assembly	26.4	28.3	56.4	28.8	25.2	48.5	33.1	35.0	8.3
Public Order and Safety	29.7	54.6	81.8	34.2	50.1	86.4	16.3	35.0	36.8
Religious Worship	15.0	25.9	21.0	19.3	24.7	31.6	18.2	16.3	14.2
Service	27.7	58.8	40.6	19.6	24.0	47.6	15.5	49.8	15.6
Warehouse and Storage	29.4	19.8	61.5	27.4	21.5	46.3	13.0	16.2	37.9
Other	87.5	100.1	92.9	91.8	100.1	54.7	57.9	0.0	30.4
Vacant	74.3	56.6	X	68.2	43.6	X	31.8	44.4	X
Year Constructed									
Before 1920	32.0	64.5	100.2	30.4	60.9	76.6	12.6	13.6	107.5
1920 to 1945	23.9	39.9	39.6	34.7	37.5	23.9	18.1	22.7	14.3
1946 to 1959	46.9	26.4	60.6	20.8	38.8	56.4	34.1	13.4	31.9
1960 to 1969	39.8	18.7	19.0	28.0	16.1	22.2	25.3	15.4	25.2
1970 to 1979	8.3	24.6	23.3	23.9	9.4	4.3	25.5	19.2	24.3
1980 to 1989	24.8	14.6	43.1	21.5	12.1	34.0	14.6	8.7	14.6
1990 to 1999	24.3	19.4	15.3	15.7	11.5	24.2	15.6	14.3	19.1
2000 to 2003	37.7	26.5	27.0	31.1	14.6	35.6	9.8	19.2	12.7
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	22.1	0.0	0.0	26.5	0.0	0.0	8.2	0.0	0.0
5,500-7,000 HDD	54.3	0.0	0.0	58.6	0.0	0.0	9.3	0.0	0.0
4,000-5,499 HDD	20.5	45.0	70.0	21.2	41.8	71.0	1.3	6.4	10.5
Fewer than 4,000 HDD	0.0	17.2	61.3	0.0	15.2	60.4	0.0	8.8	9.7
2,000 CDD or More and --									
Fewer than 4,000 HDD	0.0	14.1	94.8	0.0	6.3	88.0	0.0	10.9	3.6
Number of Floors									
One	15.3	14.0	11.5	15.4	10.9	17.8	11.0	5.4	16.3
Two	16.7	23.0	33.5	16.5	12.9	24.7	14.3	14.7	8.2
Three	14.8	15.9	34.3	23.8	15.3	25.2	23.4	12.0	9.7
Four to Nine	38.1	35.4	44.2	39.8	34.8	40.2	18.5	4.1	9.6
Ten or More	36.0	41.8	35.1	31.7	46.1	34.0	10.9	6.5	1.6

RSEs for Table C18. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	10.7	7.7	11.4	13.3	5.2	7.3	4.5	5.2	9.3
Elevators and Escalators (more than one may apply)									
Any Elevators	21.2	17.7	17.6	20.9	15.4	16.7	13.3	6.0	5.8
Number of Elevators									
One	21.3	15.9	16.6	15.6	14.3	8.6	12.8	9.7	21.1
Two to Five	25.1	23.4	18.4	35.9	21.5	19.8	26.6	8.2	11.3
Six or More	28.3	38.8	39.8	27.8	40.8	46.7	8.9	15.9	10.3
Any Escalators	65.8	61.8	100.0	66.1	54.6	100.0	16.0	22.4	0.0
Number of Workers (main shift)									
Fewer than 5	20.6	22.7	28.9	10.5	24.5	32.3	12.0	14.7	4.9
5 to 9	25.8	18.2	33.6	10.1	15.8	8.0	25.3	11.5	29.5
10 to 19	11.5	16.3	34.7	18.7	9.4	38.4	18.0	11.4	14.9
20 to 49	25.3	26.8	28.4	24.4	27.1	22.3	13.2	3.2	12.3
50 to 99	22.4	19.0	37.9	34.0	16.8	31.2	19.1	6.7	20.8
100 to 249	20.1	23.5	28.0	29.3	16.7	35.5	9.1	16.5	9.2
250 or More	25.4	28.2	39.1	26.5	29.8	46.4	11.5	11.1	7.4
Weekly Operating Hours									
Fewer than 40	34.0	22.9	27.2	5.2	22.2	27.1	30.7	21.8	11.6
40 to 48	25.7	8.4	20.5	18.1	19.7	14.8	10.1	14.4	8.4
49 to 60	21.5	11.9	56.9	15.5	8.0	29.9	16.9	4.6	23.1
61 to 84	30.0	12.6	20.4	31.4	17.8	18.5	16.7	18.3	20.0
85 to 167	25.0	21.4	27.9	40.6	20.0	53.2	38.7	10.2	19.7
Open Continuously	10.2	21.8	8.6	10.2	16.1	14.0	10.4	12.7	8.2
Ownership and Occupancy									
Nongovernment Owned	9.5	7.2	16.3	12.8	7.2	13.5	5.0	7.4	12.3
Owner Occupied	10.7	16.5	18.2	12.1	17.5	14.6	3.7	8.4	6.0
Nonowner Occupied	15.0	11.0	17.5	19.6	10.6	22.1	9.9	9.5	23.3
Unoccupied	98.2	56.6	X	92.8	43.6	X	108.5	44.4	X
Government Owned	25.8	14.5	16.7	18.6	7.0	15.2	16.2	11.4	4.1
Federal	64.3	64.7	25.9	63.6	53.4	24.4	20.9	38.8	24.1
State	67.6	44.4	28.8	52.5	36.9	17.0	33.1	13.8	12.4
Local	35.2	21.3	13.6	26.6	17.9	16.8	29.4	9.0	22.2
Vacancy Status									
Completely Vacant	99.1	56.6	X	76.1	43.6	X	100.5	44.4	X
Mostly Vacant	77.1	X	0.0	71.4	X	0.0	24.2	X	0.0
Partially Vacant	23.5	19.1	41.0	22.6	22.4	28.3	15.1	12.7	12.7
Not At All Vacant	10.2	7.8	9.5	14.0	4.5	7.9	5.3	6.8	9.6
Number of Establishments									
One	10.2	8.0	10.9	14.3	6.4	10.2	5.4	5.3	12.5
2 to 5	39.0	11.3	18.5	31.0	15.3	13.9	14.7	8.7	9.7
6 to 10	35.1	62.2	91.5	31.1	55.2	67.5	33.5	8.9	107.6
11 to 20	47.3	45.8	33.1	16.1	44.8	42.2	27.5	23.9	18.9
More than 20	95.1	45.6	76.4	90.2	37.5	87.3	51.5	32.5	15.3
Currently Unoccupied	99.1	56.6	X	76.1	43.6	X	100.5	44.4	X

RSEs for Table C18. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	10.7	7.7	11.4	13.3	5.2	7.3	4.5	5.2	9.3
Predominant Exterior Wall Material									
Brick, Stone or Stucco	12.2	9.2	5.8	16.4	6.7	5.9	14.3	5.6	1.0
Concrete (Block or Poured)	27.8	15.2	41.2	24.1	12.9	22.6	11.3	9.6	17.0
Concrete Panels	33.1	40.6	53.4	24.6	35.4	47.8	12.8	16.7	12.6
Siding or Shingles	16.9	44.1	30.9	14.3	13.4	39.1	14.4	36.8	43.3
Metal Panels	25.9	28.6	63.4	21.4	23.2	44.4	11.1	30.9	65.0
Window Glass	100.7	36.5	100.1	100.7	34.0	100.1	0.0	20.5	0.0
Other	74.9	74.7	69.9	71.1	64.2	62.7	57.7	13.2	20.8
No One Major Type	100.2	80.6	0.0	100.2	62.2	0.0	0.0	34.4	0.0
Predominant Roof Material									
Built-Up	6.5	17.3	27.5	15.3	14.2	14.1	14.6	11.9	18.9
Shingles (Not Wood)	20.3	20.7	13.8	13.0	17.2	17.4	22.4	14.4	24.5
Metal Surfacing	22.7	23.4	31.5	14.1	20.0	31.6	9.1	12.1	18.2
Synthetic or Rubber	32.6	17.7	23.1	31.4	11.7	17.6	2.7	8.5	16.5
Slate or Tile	68.4	29.0	55.3	60.0	21.6	36.8	25.4	9.7	24.2
Wooden Materials	61.2	41.8	89.5	61.8	45.7	77.5	20.4	8.4	59.5
Concrete	87.2	59.8	0.0	77.7	72.8	0.0	46.3	15.8	0.0
Other	98.6	67.9	0.0	98.6	59.1	0.0	0.8	52.8	0.0
No One Major Type	88.9	76.3	0.0	88.9	72.9	0.0	0.0	21.0	0.0
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	17.7	18.9	10.7	19.2	20.3	7.3	10.7	12.8	11.3
Addition or Annex	24.5	31.5	24.2	23.7	29.8	27.5	10.4	19.4	10.4
Reduction In Floorspace	84.5	72.5	100.3	84.6	73.6	100.3	11.3	7.2	0.0
Cosmetic Improvements	18.1	18.3	9.3	17.7	21.7	10.8	13.7	10.8	11.3
Wall or Roof Replacement	19.1	21.9	26.5	26.8	25.8	34.9	16.4	9.9	12.4
Interior Wall Re-Configuration	18.7	24.7	15.2	17.9	21.8	16.0	18.3	8.7	6.4
HVAC Equipment Upgrade	16.9	21.3	21.7	20.7	21.8	23.1	10.8	10.5	10.4
Lighting Upgrade	17.3	28.3	19.7	22.6	31.1	14.4	12.2	13.1	6.3
Window Replacement	34.9	29.0	37.4	11.5	27.7	49.6	28.8	25.2	22.2
Plumbing System Upgrade	24.0	25.1	17.0	29.5	31.1	12.7	16.1	11.4	8.1
Insulation Upgrade	27.6	41.9	27.5	17.8	40.5	21.5	15.1	14.7	15.6
Other Renovation	0.0	74.8	100.3	0.0	95.2	100.3	0.0	1161.8	0.0
No Renovations Since 1980	19.7	36.5	23.3	20.5	23.2	9.0	12.9	19.1	17.3
Building Newer than 1980	14.0	12.0	14.0	13.8	7.4	14.8	5.9	7.4	10.9
Energy Sources (more than one may apply)									
Electricity	10.7	7.7	11.4	13.3	5.2	7.3	4.5	5.2	9.3
Natural Gas	12.5	16.0	10.0	15.4	14.4	5.6	10.7	13.1	6.4
Fuel Oil	20.3	22.1	4.8	30.9	26.0	8.6	19.2	6.5	8.5
District Heat	60.6	36.7	44.1	68.2	35.8	38.1	54.4	11.5	13.4
District Chilled Water	71.8	40.0	44.9	71.1	33.9	35.2	17.7	8.3	20.7
Propane	32.6	20.4	60.2	30.8	26.6	55.4	13.1	10.4	10.3
Other	67.5	59.3	60.2	56.7	33.7	35.2	32.8	25.8	39.6

RSEs for Table C18. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	10.7	7.7	11.4	13.3	5.2	7.3	4.5	5.2	9.3
Space-Heating Energy Sources									
Electricity	8.2	10.7	20.2	9.7	12.0	14.3	6.3	7.0	20.5
Electricity Main	21.6	14.3	27.2	26.1	16.6	10.1	5.2	9.4	23.2
Electricity Secondary	14.5	27.2	13.3	14.7	18.4	24.9	11.0	12.5	15.9
Other Excluding Electricity	14.8	17.6	12.6	20.9	19.7	7.6	10.4	12.4	14.5
Buildings without Heating	50.5	40.5	79.7	29.1	17.2	58.1	33.5	31.8	118.5
Primary Space-Heating Energy Source									
Electricity	21.6	14.3	27.2	26.1	16.6	10.1	5.2	9.4	23.2
Natural Gas	9.8	19.1	10.4	17.0	16.3	7.5	9.0	14.5	7.6
Fuel Oil	21.5	24.7	100.4	40.1	38.1	100.4	27.2	20.0	0.0
District Heat	65.5	38.1	46.2	71.2	37.1	41.7	61.5	11.6	6.8
Propane	66.2	48.8	64.1	45.8	42.5	59.7	17.4	17.8	12.8
Other	77.9	82.3	87.2	64.1	75.0	73.3	48.0	52.3	66.5
Cooling Energy Sources									
Electricity	10.9	8.4	16.2	13.4	5.1	10.2	4.9	5.1	8.3
Other Excluding Electricity	100.3	54.7	63.2	100.3	44.6	48.6	0.0	12.9	27.1
Buildings without Cooling	13.3	28.8	66.9	18.4	35.4	52.4	14.6	20.4	40.7
Water-Heating Energy Sources									
Electricity	12.8	12.6	23.7	17.3	11.2	19.6	5.9	9.5	10.0
Other Excluding Electricity	10.1	19.9	6.7	17.9	16.7	14.6	12.1	8.1	9.7
Bldgs without Water Heating	55.5	18.4	50.1	23.1	14.2	38.5	43.4	16.8	22.7
Cooking Energy Sources									
Electricity	16.1	19.4	17.8	23.6	17.6	9.4	16.0	8.3	10.2
Other Excluding Electricity	15.0	29.3	28.6	16.0	18.7	36.0	12.9	16.5	8.7
Buildings without Cooking	17.1	12.1	21.9	14.7	8.6	13.6	6.2	6.6	13.8
Energy End Uses (more than one may apply)									
Buildings with Space Heating	10.6	7.7	11.5	13.3	5.2	9.2	4.6	5.1	8.2
Buildings with Cooling	10.6	7.7	12.1	13.3	5.0	9.0	4.8	5.0	7.2
Buildings with Water Heating	9.5	7.7	13.0	12.7	5.2	9.7	6.1	5.4	7.5
Buildings with Cooking	12.6	16.4	10.5	15.7	13.1	10.5	9.1	6.9	9.3
Buildings with Manufacturing	41.8	45.6	48.6	26.7	15.8	42.4	22.4	37.6	13.2
Buildings with Electricity Generation	15.1	14.9	10.1	22.4	19.8	16.9	19.3	6.4	7.4
Percent of Floorspace Heated									
Not Heated	50.5	40.5	79.7	29.1	17.2	58.1	33.5	31.8	118.5
1 to 50	35.3	31.7	69.0	10.2	22.7	46.9	40.4	34.7	41.7
51 to 99	19.1	24.2	34.3	20.7	21.8	6.8	10.1	9.2	36.3
100	12.1	8.9	15.3	14.3	5.7	13.9	5.7	5.3	9.1
Percent of Floorspace Cooled									
Not Cooled	13.3	28.8	66.9	18.4	35.4	52.4	14.6	20.4	40.7
1 to 50	23.5	17.5	68.7	22.1	10.2	47.1	9.6	17.0	40.2
51 to 99	20.2	14.7	23.8	22.0	13.4	18.9	17.7	7.1	25.8
100	9.6	11.2	13.1	6.5	8.5	8.6	4.0	6.3	7.9

RSEs for Table C18. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	10.7	7.7	11.4	13.3	5.2	7.3	4.5	5.2	9.3
Percent Lit When Open									
Zero	96.0	92.2	92.0	96.0	74.7	86.5	0.0	266.9	43.4
1 to 50	18.2	18.8	18.2	14.7	15.1	10.3	11.1	16.7	15.0
51 to 99	19.1	14.5	32.8	22.6	9.9	16.6	10.9	7.9	20.3
100	8.9	13.0	15.6	11.4	7.6	14.6	4.5	9.4	11.2
Building Never Open/ Electricity Not Used	72.5	56.6	92.8	60.8	43.6	69.6	36.4	44.4	88.6
Percent Lit When Closed									
Zero	20.0	20.6	31.8	10.8	12.6	33.1	14.7	17.6	7.8
1 to 50	9.5	8.1	22.7	20.9	6.8	15.1	19.9	5.0	10.0
51 to 100	63.0	46.9	49.7	49.2	26.4	35.7	28.7	22.4	22.4
Building Never Closed/ Electricity Not Used	10.2	21.8	8.6	10.2	16.1	14.0	10.4	12.7	8.2
Heating Equipment (more than one may apply)									
Heat Pumps	24.5	17.3	33.2	28.9	17.0	35.9	10.9	15.8	7.9
Packaged Heat Pumps	16.9	24.2	52.6	15.9	16.1	49.2	15.0	19.9	12.1
Split-System Heat Pumps	47.4	42.1	16.4	58.0	30.3	26.4	9.3	32.5	11.8
Individual Room Heat Pumps	86.7	17.1	48.8	88.7	19.0	56.6	2.8	10.6	20.8
Furnaces	12.9	17.1	17.5	12.9	10.3	4.5	2.3	14.2	19.5
Individual Space Heaters	11.1	24.5	21.2	13.3	15.2	29.3	7.7	16.2	25.7
District Heat	60.2	36.7	44.1	67.7	35.8	38.1	57.5	11.5	13.4
Boilers	23.6	31.0	22.6	21.2	30.2	18.3	20.2	11.7	12.3
Packaged Heating Units	9.8	15.2	14.5	14.9	14.2	8.9	9.0	4.5	17.8
Other	29.3	28.5	70.9	36.6	33.0	70.2	15.6	23.5	24.7
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	7.2	40.6	20.4	8.6	22.2	21.1	7.1	23.6	17.1
Heat Pumps	15.2	17.0	38.6	23.2	19.3	38.0	8.7	13.3	10.6
Packaged Heat Pumps	17.3	25.1	58.1	18.6	16.2	51.2	12.6	20.2	17.9
Split-System Heat Pumps	47.7	39.9	17.8	54.6	28.8	29.8	20.3	29.1	10.9
Individual Room Heat Pumps	86.7	25.9	48.8	88.7	22.3	56.6	2.8	7.7	20.8
Individual Air Conditioners	15.2	26.4	29.1	12.5	28.5	24.4	11.4	15.2	14.0
District Chilled Water	71.8	40.0	44.9	71.1	33.9	35.2	17.7	8.3	20.7
Central Chillers	16.1	28.7	19.8	21.9	22.5	21.0	9.8	10.5	3.5
Packaged Air Conditioning Units	13.5	10.1	13.2	15.4	9.2	4.5	7.0	6.7	14.5
Swamp Coolers	0.0	57.1	X	0.0	64.7	X	0.0	25.4	X
Other	96.7	43.2	100.0	96.7	38.5	100.0	0.0	22.5	0.0
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	14.2	15.3	32.7	14.6	18.4	8.2	7.4	11.7	23.7
Cooling	18.5	21.4	27.3	26.0	14.1	14.7	12.9	11.4	15.0
Water Heating Equipment									
Centralized System	6.7	10.2	13.4	11.6	7.9	15.2	7.9	7.2	12.1
Distributed System	17.1	12.4	30.9	14.9	10.0	31.5	10.7	5.7	5.4
Combination of Centralized and Distributed System	16.7	16.8	37.8	20.5	12.0	31.1	11.3	12.4	7.5

RSEs for Table C18. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	10.7	7.7	11.4	13.3	5.2	7.3	4.5	5.2	9.3
Lighting Equipment Types (more than one may apply)									
Incandescent	8.7	11.6	22.0	10.6	9.6	12.5	4.6	8.3	11.8
Standard Fluorescent	10.9	7.9	13.0	14.0	4.8	8.9	5.0	5.1	9.3
Compact Fluorescent	6.6	14.0	17.3	13.0	12.5	20.6	8.8	8.4	3.4
High Intensity Discharge	28.2	14.9	28.2	27.5	13.6	30.6	16.6	10.8	13.1
Halogen	29.2	17.2	31.5	27.6	11.1	30.1	4.2	11.3	7.7
Other	0.0	100.3	63.0	0.0	100.3	65.3	0.0	0.0	13.8
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	8.6	7.7	11.8	13.9	4.9	9.3	7.4	5.1	7.0
Commercial Refrigeration	15.1	13.4	14.8	16.7	11.2	9.3	9.0	7.2	7.7
Walk-In Units	15.2	14.1	14.9	19.8	12.2	9.5	15.1	8.6	12.7
Cases or Cabinets	23.6	13.8	12.8	22.5	10.9	10.3	7.0	9.4	9.1
Residential-Type Units	7.9	14.2	14.7	11.6	10.3	11.7	8.2	8.6	8.8
Vending Machines	8.1	9.3	14.2	14.5	6.4	12.9	9.0	5.0	8.8
No Refrigeration	48.6	26.8	85.1	15.1	21.7	47.6	45.6	11.8	66.3
Office Equipment (more than one may apply)									
Computers	10.5	8.4	12.8	13.9	5.4	10.4	5.1	4.4	6.3
With Flat Screen Monitors	20.9	14.6	18.9	25.1	13.0	18.7	7.9	5.1	5.3
Dedicated Servers	13.0	10.5	22.4	14.7	8.7	22.5	5.1	4.7	5.7
Laser Printers	9.8	10.2	18.5	12.4	9.1	15.0	8.7	6.0	13.5
Inkjet Printers	21.4	13.9	22.1	22.9	8.9	14.1	3.6	6.7	9.6
FAX Machines	10.4	8.4	13.9	15.0	5.6	10.6	6.1	5.3	8.8
Photocopiers	10.4	9.0	13.7	12.5	6.4	10.6	6.1	4.8	9.4
Number of Computers									
None	14.6	23.3	35.3	11.1	27.7	41.0	13.4	13.3	30.8
1 to 4	21.0	20.8	15.4	12.7	12.0	9.9	11.6	19.5	9.2
5 to 9	21.4	18.0	16.1	19.2	10.7	22.8	12.7	14.7	15.2
10 to 19	35.6	21.4	39.4	38.0	22.4	37.8	20.3	10.6	23.6
20 to 49	31.8	26.3	29.3	31.2	20.2	21.8	21.0	10.2	9.1
50 to 99	48.8	20.2	40.1	42.4	21.9	38.4	13.5	10.0	15.1
100 to 249	18.6	11.7	29.2	25.5	13.5	33.8	24.3	8.7	9.6
250 or More	15.0	23.9	42.1	20.0	23.3	49.7	9.7	10.0	8.3
Number of Dedicated Servers									
None	14.6	12.6	15.4	14.1	7.5	16.6	11.7	12.0	12.5
1 to 4	12.6	14.1	21.3	13.8	10.3	21.3	5.9	8.2	8.8
5 to 9	31.3	45.3	45.1	35.3	35.2	53.2	15.4	14.6	17.3
10 to 19	37.9	29.1	60.4	44.6	28.0	58.0	25.2	16.4	14.3
20 to 49	52.7	29.6	38.3	62.3	36.9	45.1	37.8	12.2	10.7
50 or More	72.7	51.2	22.7	73.4	66.5	36.8	35.0	11.9	23.3
Number of Photocopiers									
None	18.3	19.2	17.7	16.1	19.7	8.2	8.5	11.3	20.5
One	9.4	21.4	8.1	7.0	15.5	14.1	8.7	7.9	9.4
2 to 4	17.1	19.2	26.7	20.6	16.9	25.2	10.6	9.5	11.3
5 to 9	30.3	28.8	58.9	16.8	22.0	46.6	24.8	7.6	9.3
10 or More	27.1	29.2	39.6	30.5	28.7	46.0	11.3	12.2	7.7

RSEs for Table C18. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	10.7	7.7	11.4	13.3	5.2	7.3	4.5	5.2	9.3
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	12.6	16.4	10.5	15.7	13.1	10.5	9.1	6.9	9.3
Activities with Large Amounts of Hot Water	7.2	18.1	6.6	11.5	11.5	5.0	8.4	8.7	7.7
Separate Computer Area	11.2	16.1	11.1	13.2	12.2	15.0	9.8	6.1	7.4
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	35.2	14.3	32.2	32.7	11.2	28.0	11.3	6.1	8.1
Economizer Cycle	12.5	14.2	18.3	19.0	11.5	27.3	9.0	6.0	10.0
HVAC Maintenance	8.4	8.8	17.0	14.6	6.9	11.3	8.4	5.7	6.8
Energy Management and Control System (EMCS)	23.4	15.9	35.5	29.8	15.2	23.7	14.7	7.7	10.7
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	15.2	8.2	18.2	17.8	4.6	14.4	6.5	6.8	4.2
Tinted Window Glass	15.2	12.1	32.4	15.4	9.0	18.6	9.9	5.7	14.2
Reflective Window Glass	17.1	27.5	17.0	20.0	14.6	27.4	13.6	19.7	22.8
External Overhangs or Awnings	10.9	23.9	25.0	13.3	16.4	17.1	11.4	13.1	17.9
Skylights or Atriums	17.0	20.9	30.6	27.0	17.4	36.6	23.3	7.6	15.3
Daylighting Sensors	21.8	30.2	41.6	27.0	32.1	44.4	27.9	14.8	7.4
Specular Reflectors	15.4	14.9	31.0	21.9	11.0	23.1	9.4	7.7	11.5
Electronic Ballasts	9.7	10.1	10.4	13.8	6.2	5.8	5.8	6.2	10.7
Energy Management and Control System (EMCS) For Lighting	28.3	25.6	94.1	34.1	28.5	91.3	24.9	12.7	3.2
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	17.1	8.8	11.3	16.9	6.2	13.7	9.9	3.8	10.6
Cooling	16.9	9.4	12.4	15.6	7.2	12.4	10.0	3.6	8.6
Lighting	14.0	7.8	18.7	15.5	5.5	13.4	6.8	6.8	11.3
Office Equipment	18.0	19.3	25.7	10.8	12.0	19.0	10.1	10.7	11.0
Annual Consumption (kilowatthours)									
10,000 or Less	14.3	40.5	40.3	8.8	42.7	48.9	18.0	16.3	14.9
10,001 to 50,000	19.4	19.7	13.7	14.0	25.4	18.9	9.4	8.8	12.9
50,001 to 100,000	27.3	15.6	15.1	26.5	13.6	14.7	27.5	11.9	24.9
100,001 to 500,000	7.6	7.8	15.7	17.4	16.5	14.9	14.4	16.2	10.5
500,001 to 1,000,000	23.9	17.3	32.0	17.4	16.0	16.3	19.2	9.2	32.3
1,000,001 to 5,000,000	12.8	14.5	35.3	17.4	10.3	28.4	10.2	6.9	6.1
Over 5,000,000	41.8	27.7	23.5	45.0	30.2	28.9	9.3	11.6	6.2

RSEs for Table C18. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	10.7	7.7	11.4	13.3	5.2	7.3	4.5	5.2	9.3
Provider of Purchased Electricity (more than one may apply)									
Local Utility	10.5	7.8	12.8	13.7	4.4	7.9	4.9	6.5	10.0
Some Other Provider	63.2	77.1	100.4	43.1	72.8	100.4	33.0	21.3	0.1

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

RSEs for Table C19. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	12.9	17.7	8.7	12.3	7.7	4.9	8.3	12.9	5.9
Building Floorspace (Square Feet)									
1,001 to 5,000	20.9	21.4	15.0	14.1	30.2	12.0	17.5	22.9	13.7
5,001 to 10,000	23.4	30.1	38.2	21.6	30.9	12.8	9.6	11.9	37.5
10,001 to 25,000	17.4	9.2	15.6	17.5	13.9	16.8	21.9	16.7	15.3
25,001 to 50,000	46.3	21.9	21.6	26.0	23.6	13.1	41.5	14.5	12.9
50,001 to 100,000	16.8	12.3	28.0	11.1	17.2	26.4	8.4	23.9	12.3
100,001 to 200,000	30.1	21.3	10.6	21.2	18.2	17.6	20.8	4.1	11.5
200,001 to 500,000	28.5	40.6	12.3	23.2	51.4	12.1	14.8	32.2	11.7
Over 500,000	37.4	68.1	41.6	50.4	69.7	44.5	12.1	56.0	12.4
Principal Building Activity									
Education	19.2	12.5	20.3	21.2	16.8	12.6	7.0	11.2	19.6
Food Sales	63.1	52.1	62.3	59.7	61.2	60.0	12.6	92.5	10.5
Food Service	32.8	51.9	39.9	36.7	60.4	34.1	14.3	16.7	15.4
Health Care	35.4	18.3	20.9	31.7	14.9	24.4	10.5	11.9	8.6
Inpatient	40.8	15.5	25.9	35.6	13.6	33.7	10.6	5.5	13.1
Outpatient	74.8	33.6	25.7	69.2	21.8	24.6	11.1	26.5	13.3
Lodging	42.9	71.5	26.9	38.6	31.4	19.5	14.6	63.3	16.1
Retail (Other Than Mall)	46.9	53.8	25.4	29.4	24.4	21.4	31.6	27.7	7.0
Office	27.0	18.5	18.2	30.9	18.1	19.4	10.0	9.4	7.3
Public Assembly	36.3	42.8	62.6	46.6	21.6	23.9	30.4	32.1	58.8
Public Order and Safety	100.4	24.9	57.5	100.4	37.1	48.3	0.0	16.7	16.2
Religious Worship	25.0	49.8	36.7	26.5	32.3	11.5	12.2	39.0	35.2
Service	50.3	52.6	20.0	57.4	44.2	16.9	21.4	14.4	28.3
Warehouse and Storage	33.6	70.5	36.9	38.0	53.2	26.8	22.6	49.4	10.5
Other	87.0	64.3	60.5	33.5	51.7	53.5	55.8	27.3	15.7
Vacant	99.3	91.0	66.9	73.7	60.2	61.1	42.1	89.3	57.7
Year Constructed									
Before 1920	89.3	31.7	58.4	80.3	39.3	35.9	6.4	36.7	41.9
1920 to 1945	49.2	23.9	21.4	44.4	23.5	27.7	32.8	1.3	17.0
1946 to 1959	21.7	43.2	25.6	30.2	44.3	19.2	20.7	17.3	17.6
1960 to 1969	34.3	28.7	25.1	29.6	32.0	18.4	17.1	35.5	11.5
1970 to 1979	27.8	32.9	20.9	16.0	29.2	24.7	17.9	10.4	6.2
1980 to 1989	18.3	46.9	20.5	22.5	29.0	16.7	12.2	37.6	10.2
1990 to 1999	20.1	22.8	27.4	22.5	25.5	14.7	12.1	15.9	23.2
2000 to 2003	27.4	21.0	34.5	20.0	31.9	26.7	27.1	33.7	22.6
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	0.0	18.7	90.7	0.0	12.4	89.1	0.0	8.7	4.6
5,500-7,000 HDD	0.0	48.2	62.0	0.0	16.7	50.2	0.0	41.3	23.6
4,000-5,499 HDD	96.3	0.0	55.8	96.4	0.0	46.6	0.9	0.0	17.8
Fewer than 4,000 HDD	8.7	0.0	15.0	28.1	0.0	10.2	26.2	0.0	8.5
2,000 CDD or More and --									
Fewer than 4,000 HDD	16.4	34.8	84.6	15.2	32.2	95.0	7.4	14.6	221.8
Number of Floors									
One	17.6	17.3	10.9	12.5	12.9	9.7	16.0	9.4	4.1
Two	21.7	22.6	22.5	15.1	13.4	12.4	11.9	15.7	18.3
Three	37.3	32.0	13.9	34.2	24.4	11.7	18.1	18.9	15.2
Four to Nine	20.5	21.3	21.3	13.0	27.4	19.8	13.5	17.4	9.4
Ten or More	33.2	74.4	45.3	43.7	66.1	50.6	11.0	50.7	13.5

RSEs for Table C19. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	12.9	17.7	8.7	12.3	7.7	4.9	8.3	12.9	5.9
Elevators and Escalators (more than one may apply)									
Any Elevators	22.9	35.0	16.8	25.6	25.2	14.5	5.7	13.4	7.2
Number of Elevators									
One	27.2	26.4	26.3	26.9	31.7	26.8	11.1	30.1	16.1
Two to Five	29.1	25.4	21.9	25.9	17.5	16.6	8.2	10.9	12.7
Six or More	31.2	68.1	36.9	40.6	60.2	41.4	11.2	41.6	12.6
Any Escalators	34.7	99.1	44.9	43.9	97.8	46.5	8.6	49.6	20.8
Number of Workers (main shift)									
Fewer than 5	25.9	23.5	21.8	18.9	26.0	13.5	22.9	27.7	18.5
5 to 9	29.1	23.8	10.8	28.2	30.3	17.6	16.9	14.7	11.9
10 to 19	24.4	26.2	34.2	18.6	18.6	19.1	40.2	30.0	18.6
20 to 49	21.2	26.5	24.1	16.0	26.1	24.6	14.6	14.5	12.5
50 to 99	18.3	24.1	12.8	13.0	28.5	14.1	12.7	10.6	6.5
100 to 249	18.5	18.5	24.7	12.8	18.1	25.6	16.4	19.0	21.0
250 or More	28.6	57.6	23.3	36.1	58.0	24.6	7.5	32.2	6.9
Weekly Operating Hours									
Fewer than 40	44.9	38.4	41.5	32.5	20.4	23.9	26.8	42.2	21.6
40 to 48	18.6	16.0	26.9	18.0	15.4	15.9	11.8	10.7	16.9
49 to 60	22.7	17.9	13.9	19.2	22.6	15.8	17.1	14.2	5.7
61 to 84	28.6	16.5	15.7	22.7	20.7	16.4	7.9	14.3	11.5
85 to 167	17.2	14.9	12.0	24.8	23.7	10.3	19.6	30.6	10.7
Open Continuously	32.9	38.2	24.7	31.7	20.6	17.7	10.3	22.5	16.7
Ownership and Occupancy									
Nongovernment Owned	15.8	25.1	11.9	15.7	13.4	6.9	10.1	15.0	6.8
Owner Occupied	19.5	31.3	18.5	22.5	23.1	12.3	10.7	10.4	13.3
Nonowner Occupied	24.2	34.4	14.1	15.3	19.6	11.9	12.5	19.1	8.9
Unoccupied	99.3	100.1	87.7	73.7	100.1	85.5	42.1	0.0	2.6
Government Owned	12.5	16.0	25.2	17.1	13.6	12.8	7.2	14.1	16.9
Federal	57.5	56.0	48.3	54.7	71.4	43.2	6.4	14.4	12.4
State	41.0	43.1	20.1	40.2	32.5	24.2	20.7	16.7	7.5
Local	12.6	15.4	35.9	17.2	12.6	14.6	8.2	20.7	26.8
Vacancy Status									
Completely Vacant	99.3	100.1	87.7	73.7	100.1	85.5	42.1	0.0	2.6
Mostly Vacant	X	93.4	73.0	X	73.4	72.6	X	82.1	4.0
Partially Vacant	25.7	49.7	26.1	29.1	32.2	27.6	7.6	27.8	6.5
Not At All Vacant	10.7	20.5	9.7	10.5	9.6	6.1	9.0	14.7	6.6
Number of Establishments									
One	13.5	19.2	12.7	13.2	5.5	6.8	7.8	16.2	8.3
2 to 5	17.7	27.4	29.0	18.5	31.3	22.3	14.8	9.3	9.1
6 to 10	60.3	34.6	30.7	44.8	19.3	33.1	35.5	25.8	16.2
11 to 20	59.4	60.8	35.4	49.6	41.8	36.6	16.9	39.9	12.1
More than 20	27.9	100.3	51.2	33.1	100.3	47.8	6.9	1.1	9.4
Currently Unoccupied	99.3	100.1	87.7	73.7	100.1	85.5	42.1	0.0	2.6

RSEs for Table C19. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	12.9	17.7	8.7	12.3	7.7	4.9	8.3	12.9	5.9
Predominant Exterior Wall Material									
Brick, Stone or Stucco	14.7	6.2	11.1	14.1	15.0	12.5	8.2	14.3	5.4
Concrete (Block or Poured)	28.5	29.3	20.0	19.0	21.2	12.8	19.4	12.8	9.6
Concrete Panels	36.8	60.7	18.7	32.2	50.1	17.1	19.1	19.3	9.2
Siding or Shingles	33.7	67.3	47.7	17.5	64.8	31.8	35.8	9.3	52.1
Metal Panels	24.9	45.5	20.6	27.1	36.1	19.7	10.4	8.1	7.2
Window Glass	58.1	105.7	52.3	50.2	105.7	51.3	20.1	0.0	10.6
Other	61.4	95.1	51.9	69.5	95.1	53.6	13.7	0.0	23.7
No One Major Type	100.2	100.8	88.6	100.2	100.8	86.7	0.0	0.0	14.4
Predominant Roof Material									
Built-Up	19.8	33.9	11.3	20.1	12.8	9.5	8.8	25.4	6.7
Shingles (Not Wood)	26.8	31.0	25.8	26.3	11.4	5.0	10.5	27.9	25.1
Metal Surfacing	22.1	22.4	23.7	21.3	17.8	22.3	16.7	7.1	7.8
Synthetic or Rubber	22.5	15.5	15.8	23.9	20.5	18.2	8.7	9.2	15.0
Slate or Tile	43.4	47.0	23.0	39.2	19.6	33.6	30.9	40.1	25.8
Wooden Materials	43.6	71.0	63.4	44.7	56.4	47.6	32.2	35.7	27.6
Concrete	42.8	100.3	39.7	42.7	100.2	30.4	23.2	1.6	21.7
Other	78.8	96.5	46.4	78.0	78.6	53.2	51.3	86.3	21.5
No One Major Type	97.0	0.0	23.3	97.0	0.0	54.6	0.0	0.0	68.9
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	14.7	21.6	19.5	12.4	8.7	20.7	12.5	16.0	10.1
Addition or Annex	30.0	27.5	20.0	25.5	12.3	16.8	9.5	18.2	7.1
Reduction In Floorspace	100.1	98.5	77.8	100.1	84.6	81.6	0.0	16.1	28.9
Cosmetic Improvements	21.6	33.3	18.6	23.0	17.3	20.4	17.4	18.6	10.0
Wall or Roof Replacement	38.7	49.3	25.3	24.7	24.5	32.4	17.6	37.4	13.4
Interior Wall Re-Configuration	15.6	26.1	24.9	18.4	15.8	26.7	18.0	13.2	7.9
HVAC Equipment Upgrade	15.9	26.0	29.8	21.7	14.6	28.9	14.7	14.1	6.7
Lighting Upgrade	19.9	29.5	23.0	21.5	18.8	26.1	20.1	18.8	8.4
Window Replacement	26.5	29.1	30.1	34.6	27.2	27.8	27.4	27.4	12.8
Plumbing System Upgrade	27.8	35.4	32.6	30.7	24.0	30.9	21.9	18.7	13.0
Insulation Upgrade	30.5	23.3	44.5	30.1	30.5	35.0	10.0	11.3	19.8
Other Renovation	0.0	X	55.6	0.0	X	48.8	0.0	X	30.1
No Renovations Since 1980	25.1	12.8	16.6	21.0	18.3	12.4	21.1	10.3	5.9
Building Newer than 1980	17.9	30.1	15.8	16.9	21.1	13.4	10.0	12.3	8.7
Energy Sources (more than one may apply)									
Electricity	12.9	17.7	8.7	12.3	7.7	4.9	8.3	12.9	5.9
Natural Gas	19.7	23.1	13.3	19.0	15.0	11.8	10.0	12.6	4.3
Fuel Oil	31.1	57.0	16.8	36.3	41.4	19.2	10.6	32.1	8.4
District Heat	37.6	58.0	32.2	65.4	48.4	28.6	23.3	25.4	7.9
District Chilled Water	31.8	46.7	34.4	48.5	51.6	30.7	19.1	17.1	16.9
Propane	45.0	54.2	40.9	40.6	43.0	24.1	23.3	19.2	29.4
Other	100.0	91.7	33.1	100.0	73.2	41.0	0.0	10.9	19.2

RSEs for Table C19. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	12.9	17.7	8.7	12.3	7.7	4.9	8.3	12.9	5.9
Space-Heating Energy Sources									
Electricity	14.6	33.2	12.0	13.2	22.7	10.2	9.6	14.6	7.1
Electricity Main	14.3	28.2	22.1	15.3	24.5	18.0	8.5	15.7	8.6
Electricity Secondary	19.5	55.1	23.1	17.8	29.3	23.9	20.8	36.5	8.6
Other Excluding Electricity	17.0	11.4	14.2	18.9	14.2	12.7	8.8	10.4	10.7
Buildings without Heating	53.9	68.9	38.7	36.5	65.8	26.3	55.1	56.4	15.7
Primary Space-Heating Energy Source									
Electricity	14.3	28.2	22.1	15.3	24.5	18.0	8.5	15.7	8.6
Natural Gas	16.2	23.9	16.8	15.1	14.1	15.3	11.1	16.3	4.8
Fuel Oil	0.0	71.0	72.3	0.0	69.6	85.8	0.0	6.4	159.6
District Heat	39.7	41.7	31.1	66.9	34.5	28.8	22.3	25.8	8.0
Propane	63.1	37.9	87.1	65.0	52.2	60.9	21.5	17.1	109.6
Other	0.0	100.1	41.2	0.0	100.1	55.0	0.0	1.5	47.4
Cooling Energy Sources									
Electricity	12.9	20.5	9.7	10.6	14.0	5.4	7.5	10.8	6.8
Other Excluding Electricity	36.6	55.4	29.9	53.5	58.5	29.8	18.4	30.9	21.1
Buildings without Cooling	23.8	47.6	20.7	48.4	46.4	16.9	31.1	19.8	14.9
Water-Heating Energy Sources									
Electricity	12.3	18.0	13.9	15.7	15.2	12.7	7.8	7.2	7.4
Other Excluding Electricity	17.8	21.2	19.5	16.9	9.4	15.3	9.1	20.2	11.9
Bldgs without Water Heating	23.2	28.3	26.5	23.8	20.0	13.5	29.7	18.0	22.2
Cooking Energy Sources									
Electricity	19.0	45.8	18.0	22.7	26.3	17.3	8.2	26.6	8.6
Other Excluding Electricity	23.4	37.7	33.4	25.5	37.6	19.4	11.2	11.3	23.3
Buildings without Cooking	11.7	20.6	8.2	13.6	11.7	5.0	12.7	12.6	6.5
Energy End Uses (more than one may apply)									
Buildings with Space Heating	12.8	17.8	9.1	12.2	7.9	4.6	6.9	13.0	7.1
Buildings with Cooling	13.0	19.9	9.3	12.1	12.9	5.4	6.6	10.7	6.4
Buildings with Water Heating	13.2	18.1	10.2	12.7	8.3	5.9	5.8	13.3	7.2
Buildings with Cooking	15.9	29.4	20.1	19.4	18.0	14.6	6.8	18.6	12.7
Buildings with Manufacturing	54.1	64.0	46.7	68.3	63.6	40.0	28.1	13.1	13.1
Buildings with Electricity Generation	27.0	47.6	16.3	29.9	34.4	18.4	10.1	25.9	8.3
Percent of Floorspace Heated									
Not Heated	53.9	68.9	38.7	36.5	65.8	26.3	55.1	56.4	15.7
1 to 50	37.8	33.9	25.5	27.7	36.8	19.6	23.4	13.5	11.7
51 to 99	25.5	41.0	17.9	18.3	42.1	15.1	21.4	9.6	8.4
100	17.0	23.8	12.6	16.4	11.4	6.2	4.0	18.3	8.9
Percent of Floorspace Cooled									
Not Cooled	23.8	47.6	20.7	48.4	46.4	16.9	31.1	19.8	14.9
1 to 50	23.3	49.0	20.1	30.7	35.9	15.0	20.4	22.0	9.6
51 to 99	20.6	17.0	20.0	18.5	10.4	19.9	12.6	8.5	7.0
100	18.4	32.3	14.6	20.1	19.7	8.3	5.8	22.4	10.9

RSEs for Table C19. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	12.9	17.7	8.7	12.3	7.7	4.9	8.3	12.9	5.9
Percent Lit When Open									
Zero	83.2	X	63.0	65.8	X	66.0	10.6	X	14.1
1 to 50	23.9	37.2	31.0	21.5	26.2	13.1	13.7	13.8	28.1
51 to 99	16.3	15.2	12.3	12.2	14.0	12.1	10.9	9.9	7.6
100	15.0	27.1	12.9	13.4	16.5	8.2	7.2	15.4	10.3
Building Never Open/ Electricity Not Used	99.3	71.6	87.4	73.7	55.9	69.2	42.1	61.6	88.4
Percent Lit When Closed									
Zero	7.5	17.2	21.2	14.5	14.7	11.8	14.6	12.1	14.1
1 to 50	10.9	13.1	7.4	12.4	9.5	8.7	8.9	11.2	8.9
51 to 100	26.2	65.4	33.5	21.6	51.6	22.5	13.7	40.4	21.2
Building Never Closed/ Electricity Not Used	32.9	38.2	24.7	31.7	20.6	17.7	10.3	22.5	16.7
Heating Equipment (more than one may apply)									
Heat Pumps	29.5	66.6	25.3	20.8	49.4	22.5	24.7	38.9	16.7
Packaged Heat Pumps	36.5	72.5	26.3	18.7	55.4	27.5	35.7	43.2	17.2
Split-System Heat Pumps	71.5	56.3	33.7	71.4	52.1	33.5	1.9	12.7	15.8
Individual Room Heat Pumps	39.6	39.9	31.4	33.1	40.0	31.0	32.6	18.8	22.2
Furnaces	22.6	15.3	21.4	16.3	6.8	18.3	18.0	11.4	6.3
Individual Space Heaters	31.9	22.7	25.3	30.3	8.6	21.1	14.4	15.9	13.1
District Heat	37.6	58.0	31.1	65.4	48.4	28.8	23.3	25.4	8.0
Boilers	25.9	33.2	13.9	24.3	20.2	15.6	6.8	22.6	7.1
Packaged Heating Units	16.8	19.2	17.1	16.1	22.3	10.6	16.0	16.5	12.6
Other	45.9	45.9	30.0	38.0	36.8	25.4	17.6	10.5	19.5
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	30.8	23.5	21.1	24.7	25.9	19.7	15.1	18.5	13.0
Heat Pumps	25.9	62.5	24.0	17.3	45.2	22.3	27.7	35.9	15.1
Packaged Heat Pumps	35.0	72.1	27.7	19.5	55.8	28.8	35.9	42.1	17.0
Split-System Heat Pumps	75.1	47.3	33.9	77.3	42.4	34.5	15.1	12.5	16.4
Individual Room Heat Pumps	39.6	43.9	30.6	33.1	38.4	34.7	32.6	18.2	19.3
Individual Air Conditioners	42.9	28.6	30.4	30.0	23.3	20.8	38.3	10.9	13.4
District Chilled Water	31.8	46.7	34.4	48.5	51.6	30.7	19.1	17.1	16.9
Central Chillers	18.7	49.5	25.3	19.0	39.0	29.9	3.1	26.5	14.2
Packaged Air Conditioning Units	13.7	15.0	14.4	14.0	13.5	6.1	15.0	11.4	10.9
Swamp Coolers	81.0	19.3	16.7	45.4	21.1	20.9	86.9	4.0	11.8
Other	21.4	49.5	53.1	62.5	58.2	32.5	26.1	14.3	26.7
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	7.4	39.5	27.6	24.1	18.9	19.5	19.5	28.5	16.9
Cooling	15.2	32.1	9.0	16.3	14.9	8.8	14.4	23.0	8.4
Water Heating Equipment									
Centralized System	21.2	12.3	14.9	18.6	11.8	9.8	8.4	6.5	8.8
Distributed System	24.1	23.1	26.0	18.3	18.1	17.8	11.1	12.6	14.6
Combination of Centralized and Distributed System	18.5	40.5	21.6	18.6	23.9	25.3	8.7	23.9	12.9

RSEs for Table C19. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	12.9	17.7	8.7	12.3	7.7	4.9	8.3	12.9	5.9
Lighting Equipment Types (more than one may apply)									
Incandescent	16.4	24.8	14.6	14.5	12.1	12.4	8.7	20.4	10.6
Standard Fluorescent	13.7	18.2	9.1	12.9	9.4	5.9	7.3	13.3	6.5
Compact Fluorescent	16.3	30.2	11.5	18.8	13.9	9.2	5.7	20.0	5.2
High Intensity Discharge	20.4	16.8	11.1	14.5	7.6	8.0	11.5	11.9	7.8
Halogen	16.8	30.5	17.1	16.1	25.7	17.6	8.0	13.0	9.2
Other	81.4	100.2	100.4	62.8	100.2	100.4	59.8	0.0	0.0
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	13.9	21.5	9.5	13.2	11.0	6.0	6.7	12.6	6.4
Commercial Refrigeration	16.3	25.9	13.9	18.9	14.4	11.3	6.7	14.1	9.6
Walk-In Units	13.5	28.8	15.3	15.6	11.9	13.8	8.5	20.3	10.5
Cases or Cabinets	19.1	30.0	16.3	23.4	19.8	12.8	8.1	13.2	12.6
Residential-Type Units	13.5	14.0	10.8	13.3	9.2	8.2	8.3	6.2	5.6
Vending Machines	14.0	26.0	9.4	15.5	17.2	10.1	5.6	12.2	5.9
No Refrigeration	28.4	30.5	13.8	29.5	21.1	13.1	23.7	19.2	11.4
Office Equipment (more than one may apply)									
Computers	13.4	20.2	9.3	13.3	11.5	5.2	7.5	13.1	6.7
With Flat Screen Monitors	19.2	28.4	12.0	21.0	15.0	11.2	5.2	20.3	5.7
Dedicated Servers	17.6	26.1	11.0	17.9	18.3	6.6	9.3	12.9	7.8
Laser Printers	15.7	32.7	11.4	13.3	21.3	6.8	12.2	19.7	10.2
Inkjet Printers	20.5	24.4	11.5	21.0	23.1	10.3	7.7	6.6	5.4
FAX Machines	13.6	19.9	9.3	13.6	13.9	6.4	7.4	9.4	6.5
Photocopiers	12.6	22.5	11.3	11.6	17.3	6.6	5.8	11.1	7.4
Number of Computers									
None	31.5	26.1	24.8	23.9	35.1	25.6	32.5	14.9	26.9
1 to 4	17.4	17.0	22.7	15.4	26.3	13.5	24.2	25.8	11.0
5 to 9	24.6	23.1	23.7	23.7	16.5	19.1	17.4	14.4	17.9
10 to 19	42.4	21.5	15.7	29.9	30.5	13.3	42.8	19.7	10.5
20 to 49	19.2	33.2	25.3	15.0	22.5	19.6	19.4	20.9	23.8
50 to 99	32.4	19.9	18.1	30.7	27.9	23.2	7.6	17.0	18.0
100 to 249	22.4	45.9	20.4	17.6	25.9	21.6	13.6	27.9	8.2
250 or More	24.7	58.1	20.8	31.3	44.7	22.5	7.4	35.6	8.6
Number of Dedicated Servers									
None	16.5	13.0	12.4	18.4	11.1	8.9	9.2	10.0	7.4
1 to 4	12.5	17.8	11.0	13.2	17.1	13.3	13.8	11.1	7.6
5 to 9	70.5	71.2	44.7	56.2	69.9	24.2	42.7	24.2	39.3
10 to 19	55.8	44.2	15.9	50.1	47.8	15.5	11.9	24.1	8.0
20 to 49	53.0	56.8	21.6	53.7	65.7	29.7	11.5	30.8	16.0
50 or More	41.6	89.8	47.2	47.9	84.0	53.6	13.9	34.9	39.8
Number of Photocopiers									
None	20.7	15.6	17.1	25.4	26.1	13.9	22.8	18.0	6.9
One	14.6	14.4	15.7	13.9	23.9	17.5	12.6	17.1	12.9
2 to 4	18.6	19.4	17.1	10.3	15.7	13.1	16.7	12.8	10.1
5 to 9	23.6	45.8	29.8	21.4	48.8	31.0	12.1	43.4	28.4
10 or More	23.6	47.8	20.0	31.1	35.0	21.8	8.9	22.1	4.7

RSEs for Table C19. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	12.9	17.7	8.7	12.3	7.7	4.9	8.3	12.9	5.9
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	15.9	29.4	20.5	19.4	18.0	14.9	6.8	18.6	12.9
Activities with Large Amounts of Hot Water	16.7	25.7	19.5	18.7	6.2	11.4	12.0	22.5	12.4
Separate Computer Area	21.1	32.8	11.5	19.8	19.5	9.1	7.8	16.4	7.4
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	22.9	37.7	16.9	25.8	18.7	13.0	7.5	23.1	7.6
Economizer Cycle	23.9	27.4	11.6	30.6	14.9	7.6	6.6	14.5	5.2
HVAC Maintenance	14.0	20.4	9.2	13.2	7.6	5.9	7.7	15.1	7.3
Energy Management and Control System (EMCS)	20.5	40.6	15.7	23.2	22.0	13.8	8.3	25.1	7.9
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	14.3	21.3	9.4	11.8	11.6	8.0	8.7	14.0	5.3
Tinted Window Glass	17.3	27.1	9.9	15.1	17.8	6.2	11.2	12.4	6.8
Reflective Window Glass	18.1	16.3	14.3	15.1	11.5	14.3	7.4	11.3	5.0
External Overhangs or Awnings	11.5	27.9	19.9	12.4	9.6	15.0	12.5	23.9	10.8
Skylights or Atriums	16.0	40.1	19.3	16.3	24.0	16.5	10.3	21.4	10.5
Daylighting Sensors	25.4	81.5	37.3	31.1	66.4	29.0	29.3	48.7	29.0
Specular Reflectors	15.6	30.6	12.9	17.0	20.1	11.0	7.7	13.1	6.5
Electronic Ballasts	13.6	23.2	10.6	14.4	13.1	6.6	8.4	13.3	7.6
Energy Management and Control System (EMCS) For Lighting	36.9	30.1	26.4	39.1	48.4	30.3	16.2	43.4	13.3
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	15.5	20.8	10.6	15.6	9.1	5.7	5.9	16.3	9.2
Cooling	15.6	19.8	10.1	15.1	10.1	5.3	6.3	14.1	8.1
Lighting	9.5	7.8	7.4	11.2	6.0	6.1	7.7	8.4	6.3
Office Equipment	18.8	16.6	12.7	12.4	18.6	12.6	13.1	6.7	7.7
Annual Consumption (kilowatthours)									
10,000 or Less	49.0	42.4	15.1	56.6	47.8	7.6	33.4	19.0	14.4
10,001 to 50,000	21.9	24.3	14.0	24.0	28.2	22.1	13.3	24.2	24.8
50,001 to 100,000	19.8	17.6	17.3	21.5	25.3	16.0	14.5	11.4	7.3
100,001 to 500,000	18.4	21.9	13.6	8.9	21.2	12.7	22.9	9.3	10.9
500,001 to 1,000,000	22.1	34.8	25.1	20.6	28.4	22.5	6.5	24.8	13.8
1,000,001 to 5,000,000	19.3	19.4	11.2	18.1	22.5	6.7	13.7	21.6	10.5
Over 5,000,000	32.9	55.3	30.4	41.2	56.3	31.4	8.1	39.4	14.4

RSEs for Table C19. Electricity Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3

	RSEs for Total Electricity Consumption			RSEs for Total Floorspace of Buildings Using Electricity			RSEs for Electricity Energy Intensity		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	12.9	17.7	8.7	12.3	7.7	4.9	8.3	12.9	5.9
Provider of Purchased Electricity (more than one may apply)									
Local Utility	14.2	18.8	9.8	10.9	8.1	6.0	10.8	13.5	6.4
Some Other Provider	19.7	32.1	48.0	29.7	51.5	49.3	11.0	24.5	30.8

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

RSEs for Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Total Electricity Consumption					RSEs for Total Floorspace of Buildings Using Electricity					RSEs for Electricity Energy Intensity				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	12.2	13.4	20.4	12.1	10.6	11.2	11.7	16.6	11.0	8.5	5.9	7.8	9.4	5.8	5.9
Building Floorspace (Square Feet)															
1,001 to 5,000	15.9	14.7	21.5	20.3	21.3	13.3	16.2	31.3	17.6	10.3	11.4	10.0	12.4	10.2	14.6
5,001 to 10,000	21.7	23.1	23.7	19.5	27.3	19.2	18.1	20.2	11.2	21.0	12.4	14.9	11.8	19.4	12.5
10,001 to 25,000	14.6	18.8	34.9	19.9	26.8	16.9	16.1	24.5	17.3	14.7	9.1	15.2	16.7	14.9	23.3
25,001 to 50,000	10.9	20.3	19.8	22.2	22.4	9.5	12.8	21.5	16.2	12.4	7.0	15.5	14.5	11.3	14.4
50,001 to 100,000	23.5	21.7	25.4	19.9	14.9	19.1	19.7	22.2	18.3	15.9	8.5	19.8	8.5	9.4	8.1
100,001 to 200,000	18.9	24.3	28.3	31.5	36.8	18.9	18.5	33.4	27.7	25.4	11.1	11.6	35.3	13.0	14.2
200,001 to 500,000	25.3	24.0	29.8	21.1	19.8	24.6	35.4	33.4	18.2	18.4	14.7	10.8	40.6	9.1	9.0
Over 500,000	52.4	32.5	37.9	32.5	35.7	51.0	25.7	31.0	35.7	46.4	5.2	24.2	17.1	22.2	10.8
Principal Building Activity															
Education	15.2	17.0	27.8	23.6	20.6	15.9	13.9	23.8	19.2	12.4	4.9	13.6	15.8	7.6	10.8
Food Sales	37.1	32.0	55.4	40.7	45.2	30.7	33.6	52.0	31.7	41.5	17.7	15.2	14.2	14.4	28.6
Food Service	24.0	35.1	39.5	31.2	36.6	32.9	26.7	38.4	27.0	42.4	28.0	20.2	40.5	12.2	33.3
Health Care	19.5	16.0	20.5	16.6	23.1	17.4	12.8	21.9	17.1	24.5	6.8	10.2	8.4	11.8	19.8
Inpatient	19.7	17.6	23.2	20.4	27.5	18.8	15.8	25.8	19.0	28.1	7.0	11.0	8.9	9.0	9.2
Outpatient	22.4	36.2	22.0	28.8	34.1	18.1	28.6	23.7	30.5	37.1	12.7	17.9	21.8	19.9	54.9
Lodging	17.9	38.1	29.4	22.4	36.9	17.3	20.0	40.5	18.0	33.2	9.5	29.5	64.8	10.1	12.1
Retail (Other Than Mall)	29.1	22.2	43.0	27.2	36.0	26.4	17.9	35.5	20.3	29.9	13.5	11.7	16.5	10.7	26.9
Office	20.9	16.7	21.8	14.8	21.3	17.6	13.7	21.1	16.2	22.2	6.9	8.2	3.6	7.1	7.4
Public Assembly	36.8	19.3	32.7	35.6	29.5	27.2	16.6	35.7	24.4	31.5	17.4	18.5	74.3	31.5	25.4
Public Order and Safety	27.0	42.4	47.7	46.8	76.0	29.7	38.1	45.1	44.5	69.4	10.5	21.4	10.0	31.8	27.3
Religious Worship	21.3	15.7	25.2	24.6	23.6	13.6	20.9	28.7	21.1	20.2	17.4	12.3	20.0	12.6	7.7
Service	29.7	25.9	66.2	27.2	42.6	26.2	21.6	32.7	27.8	21.1	14.3	15.4	51.3	15.9	28.3
Warehouse and Storage	37.0	45.8	33.4	22.2	25.7	27.8	29.0	24.7	26.3	20.1	24.0	20.0	17.7	15.1	18.5
Other	40.6	44.0	48.9	57.1	94.7	30.0	31.8	47.0	69.4	40.0	35.7	24.8	22.0	148.6	56.8
Vacant	53.2	47.8	46.6	56.2	88.3	52.3	49.4	47.3	43.9	77.0	18.9	48.5	27.0	43.5	87.8
Year Constructed															
Before 1920	17.7	18.8	58.1	40.2	85.9	19.3	18.1	42.7	20.5	77.0	11.7	12.4	51.7	26.4	10.9
1920 to 1945	30.0	48.4	25.1	21.8	50.4	20.0	31.7	29.4	23.6	45.1	26.5	17.7	25.0	11.5	27.4
1946 to 1959	27.3	16.1	31.5	24.1	33.3	18.7	15.0	28.7	28.6	37.6	18.2	10.5	35.2	14.5	10.8
1960 to 1969	19.7	21.9	22.9	20.3	24.0	17.4	19.9	20.8	17.0	24.6	9.7	19.9	12.8	10.5	14.7
1970 to 1979	20.3	22.0	34.4	17.4	25.2	18.5	19.4	23.9	19.5	18.8	12.5	15.5	19.9	10.1	9.7
1980 to 1989	22.0	20.6	25.8	16.8	15.3	23.8	13.6	23.4	14.7	17.1	11.3	11.7	13.0	10.0	6.3
1990 to 1999	20.0	22.4	27.4	19.1	23.5	18.5	20.0	23.4	12.6	18.6	13.3	10.9	10.2	16.3	10.0
2000 to 2003	28.5	25.8	36.3	26.3	29.3	26.6	20.5	27.3	24.5	15.0	10.8	18.5	14.4	8.8	24.9
Census Region and Division															
Northeast	43.1	20.4	28.0	0.0	0.0	35.3	15.7	21.6	0.0	0.0	22.7	11.5	22.4	0.0	0.0
New England	31.6	31.8	0.0	0.0	0.0	55.2	16.7	0.0	0.0	0.0	15.3	21.1	0.0	0.0	0.0
Middle Atlantic	61.0	26.3	28.0	0.0	0.0	47.0	23.6	21.6	0.0	0.0	22.7	9.0	22.4	0.0	0.0
Midwest	12.5	18.0	20.5	0.0	0.0	13.5	18.1	21.2	0.0	0.0	8.3	10.8	1.3	0.0	0.0
East North Central	12.4	19.5	0.0	0.0	0.0	11.5	19.0	0.0	0.0	0.0	14.4	11.7	0.0	0.0	0.0
West North Central	22.1	54.3	20.5	0.0	0.0	26.5	58.6	21.2	0.0	0.0	8.2	9.3	1.3	0.0	0.0
South	0.0	0.0	37.8	16.3	11.1	0.0	0.0	35.4	16.0	8.9	0.0	0.0	5.3	7.8	6.2
South Atlantic	0.0	0.0	45.0	17.2	14.1	0.0	0.0	41.8	15.2	6.3	0.0	0.0	6.4	8.8	10.9
East South Central	0.0	0.0	70.0	61.3	94.8	0.0	0.0	71.0	60.4	88.0	0.0	0.0	10.5	9.7	3.6
West South Central	0.0	0.0	96.3	8.7	16.4	0.0	0.0	96.4	28.1	15.2	0.0	0.0	0.9	26.2	7.4
West	24.6	38.8	55.8	15.0	34.4	20.1	25.0	46.6	10.2	33.6	6.9	22.6	17.8	8.5	14.9
Mountain	18.7	48.2	0.0	0.0	34.8	12.4	16.7	0.0	0.0	32.2	8.7	41.3	0.0	0.0	14.6
Pacific	90.7	62.0	55.8	15.0	84.6	89.1	50.2	46.6	10.2	95.0	4.6	23.6	17.8	8.5	221.8

RSEs for Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Total Electricity Consumption					RSEs for Total Floorspace of Buildings Using Electricity					RSEs for Electricity Energy Intensity				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	12.2	13.4	20.4	12.1	10.6	11.2	11.7	16.6	11.0	8.5	5.9	7.8	9.4	5.8	5.9
Number of Floors															
One	13.7	22.7	24.1	15.1	14.1	10.9	18.3	21.3	12.9	8.4	8.4	8.3	12.2	6.5	9.4
Two	16.9	19.8	21.6	24.3	23.5	15.2	16.5	19.9	17.2	14.4	9.1	16.1	14.3	15.3	13.7
Three	17.7	23.1	34.2	16.5	24.2	16.8	11.9	25.1	17.7	19.1	10.5	20.0	18.1	9.8	16.1
Four to Nine	16.3	21.5	37.8	15.0	30.1	16.0	14.7	32.7	16.0	26.2	9.1	14.2	28.5	6.8	7.0
Ten or More	45.5	37.3	26.9	33.4	30.6	47.1	26.8	24.1	41.2	41.4	6.6	19.6	8.2	16.5	11.1
Elevators and Escalators (more than one may apply)															
Any Elevators	15.3	14.6	24.9	13.7	17.5	13.1	10.6	19.6	11.9	18.0	6.0	8.1	11.2	6.7	4.2
Number of Elevators															
One	17.6	20.4	25.4	26.6	20.7	14.8	17.2	20.4	21.5	21.2	8.4	13.0	12.9	10.8	12.4
Two to Five	16.5	20.8	28.5	16.9	32.1	17.6	15.7	22.7	14.4	30.5	9.9	13.1	21.9	8.2	7.0
Six or More	33.4	30.8	33.7	26.7	27.0	37.7	21.9	29.2	31.9	36.3	11.1	16.7	13.7	20.0	10.7
Any Escalators	54.1	63.3	57.0	55.6	32.4	56.2	49.9	38.2	43.0	40.9	38.3	32.1	37.4	42.9	8.2
Number of Workers (main shift)															
Fewer than 5	11.3	34.3	23.3	25.7	19.7	12.5	25.2	25.7	22.8	15.1	14.9	15.6	12.6	9.6	23.1
5 to 9	18.3	23.9	38.8	18.3	20.6	22.1	20.3	24.0	18.0	19.3	15.2	13.8	30.0	10.3	14.8
10 to 19	18.2	19.6	29.2	17.6	18.3	14.1	15.8	35.0	13.7	13.6	15.2	17.3	46.5	16.4	17.5
20 to 49	19.1	20.1	25.9	28.6	15.9	19.8	12.2	27.5	25.0	12.8	9.6	15.5	30.0	7.1	7.9
50 to 99	20.6	16.4	36.8	18.9	14.3	23.2	13.7	24.2	16.7	12.1	10.1	8.0	17.3	7.8	8.0
100 to 249	21.2	21.1	26.1	24.8	22.2	14.9	17.5	26.6	22.4	21.5	12.0	13.3	9.3	13.8	24.6
250 or More	35.2	19.4	30.3	18.3	24.8	37.7	17.7	26.2	21.4	28.6	6.1	12.6	11.7	9.8	7.1
Weekly Operating Hours															
Fewer than 40	21.5	19.3	37.0	25.7	28.2	15.5	26.7	30.4	22.0	18.8	17.7	20.0	16.6	10.7	18.0
40 to 48	11.2	25.8	25.9	16.5	17.0	14.0	13.6	24.3	18.3	17.2	10.1	17.6	25.2	11.1	11.4
49 to 60	17.9	33.8	21.8	11.4	20.4	14.5	25.2	17.8	12.9	14.0	13.0	10.5	10.7	7.2	9.0
61 to 84	19.2	17.9	25.8	17.2	23.1	18.9	14.6	24.8	18.6	15.1	8.6	10.3	9.3	13.8	15.5
85 to 167	15.5	20.0	29.0	21.0	27.3	17.0	17.6	27.5	20.1	24.7	13.4	16.2	11.0	11.1	13.7
Open Continuously	17.4	18.2	23.6	18.8	22.5	14.0	12.8	17.3	15.7	26.9	8.0	10.5	15.8	10.1	9.7
Ownership and Occupancy															
Nongovernment Owned	13.1	13.5	18.0	10.5	12.6	12.6	10.5	15.8	10.3	10.6	6.9	9.7	10.9	6.0	7.8
Owner Occupied	15.4	15.5	18.6	18.0	16.7	13.7	11.1	15.9	17.5	14.4	9.0	9.4	11.9	8.6	10.1
Nonowner Occupied	15.7	19.7	24.4	12.4	18.0	15.2	15.8	18.6	12.1	12.3	8.5	9.9	14.6	8.7	10.2
Unoccupied	70.9	57.0	59.8	56.2	100.1	59.5	52.5	66.8	43.9	100.1	37.9	54.2	97.9	43.5	0.0
Government Owned	14.3	25.0	34.2	23.1	17.0	12.2	17.2	23.1	18.5	12.2	6.4	11.2	18.6	9.4	8.8
Federal	41.3	53.8	65.7	34.9	39.8	40.6	52.0	55.2	35.1	39.1	28.3	8.9	36.5	14.1	6.7
State	36.9	22.3	36.7	33.8	68.4	30.7	19.5	36.8	26.3	61.1	13.3	14.3	15.3	12.7	10.5
Local	13.9	21.5	35.1	27.0	11.3	11.4	14.9	27.8	21.4	13.2	11.3	16.0	12.5	12.1	4.5
Vacancy Status															
Completely Vacant	57.4	57.6	55.2	56.2	100.1	51.2	51.9	52.1	43.9	100.1	28.2	52.9	38.8	43.5	0.0
Mostly Vacant	55.6	87.5	66.8	X	100.9	65.8	67.2	81.4	X	100.9	21.8	116.6	149.5	X	.
Partially Vacant	29.9	13.3	20.8	16.8	22.5	22.1	11.2	21.8	18.8	23.6	13.3	10.2	6.8	8.2	7.0
Not At All Vacant	12.7	16.3	21.8	13.3	10.4	11.1	11.9	18.5	12.3	6.5	6.9	8.3	13.5	6.6	7.1
Number of Establishments															
One	11.4	14.7	22.2	13.6	11.3	11.9	13.2	19.7	12.5	8.9	7.9	7.0	15.5	6.3	7.2
2 to 5	21.4	21.0	23.2	18.7	18.5	18.3	12.1	20.6	18.0	21.1	8.5	16.7	9.1	7.8	12.4
6 to 10	27.6	33.9	33.8	33.7	53.1	29.0	21.8	29.9	30.5	53.9	24.9	20.7	20.4	24.7	13.8
11 to 20	50.1	25.4	35.1	42.3	44.3	47.5	20.3	34.6	35.1	38.9	21.8	14.1	18.6	15.0	24.6
More than 20	80.0	42.7	21.6	47.9	25.6	76.6	40.7	22.3	45.0	28.9	16.2	19.5	8.4	34.8	6.3
Currently Unoccupied	57.4	57.6	55.2	56.2	100.1	51.2	51.9	52.1	43.9	100.1	28.2	52.9	38.8	43.5	0.0

RSEs for Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Total Electricity Consumption					RSEs for Total Floorspace of Buildings Using Electricity					RSEs for Electricity Energy Intensity				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	12.2	13.4	20.4	12.1	10.6	11.2	11.7	16.6	11.0	8.5	5.9	7.8	9.4	5.8	5.9
Predominant Exterior Wall Material															
Brick, Stone or Stucco	14.8	16.9	21.3	15.5	11.7	11.8	12.6	19.6	13.5	12.4	10.1	7.9	14.3	4.7	5.8
Concrete (Block or Poured)	21.1	22.8	24.7	20.7	15.1	20.9	19.7	17.1	15.5	9.3	9.8	19.3	14.2	8.9	11.4
Concrete Panels	25.3	38.9	47.2	20.6	30.6	18.1	34.8	35.0	20.3	26.4	10.3	17.4	25.9	10.2	16.7
Siding or Shingles	25.1	22.2	31.5	38.2	45.8	24.4	16.5	28.7	23.8	22.8	20.2	19.4	9.2	39.6	33.0
Metal Panels	26.8	29.2	37.6	23.5	20.6	20.3	21.6	28.2	22.1	16.6	11.0	15.9	18.8	24.0	18.2
Window Glass	72.7	56.8	45.4	38.4	48.2	69.4	47.5	45.7	27.2	38.9	12.5	39.0	5.8	19.1	23.6
Other	69.6	45.0	52.3	43.0	53.9	62.4	44.2	40.5	45.5	61.1	11.7	22.3	22.4	18.7	14.6
No One Major Type	35.8	71.5	71.7	80.9	74.2	25.9	76.5	73.1	71.1	58.1	31.2	63.4	15.6	57.3	49.3
Predominant Roof Material															
Built-Up	14.8	15.5	20.9	12.7	20.0	12.5	11.1	18.0	9.9	17.9	10.3	15.4	10.0	8.4	10.8
Shingles (Not Wood)	18.7	12.3	34.6	20.6	21.4	12.7	7.7	24.3	19.6	23.3	13.2	10.0	21.4	14.7	10.7
Metal Surfacing	18.2	24.9	26.7	25.2	16.4	17.9	18.7	29.0	23.2	17.4	7.3	15.2	7.7	14.3	11.2
Synthetic or Rubber	17.3	16.8	26.1	16.8	21.1	15.7	15.0	22.1	17.4	20.6	8.7	8.7	11.4	9.9	6.1
Slate or Tile	40.0	23.1	40.7	24.6	25.2	30.2	21.3	32.5	24.2	23.4	29.7	33.4	11.0	18.1	22.0
Wooden Materials	67.7	44.4	44.0	39.5	61.5	80.4	51.3	44.7	43.9	55.9	87.6	16.9	27.1	6.7	19.4
Concrete	74.6	83.7	56.9	40.3	59.0	65.2	82.7	90.6	28.3	52.2	33.7	1.1	709.2	25.1	13.6
Other	58.8	49.4	53.1	57.7	68.9	40.1	50.8	52.5	57.8	79.6	41.8	15.5	39.6	14.0	38.2
No One Major Type	68.8	49.2	59.6	5.1	97.0	62.6	63.0	51.7	5.4	97.0	38.0	46.7	52.9	0.4	0.0
Renovations in Buildings Constructed Before 1980 (more than one may apply)															
Any Type of Renovation Since 1980	14.0	14.9	21.2	17.2	22.3	13.3	11.6	16.5	19.3	21.9	8.6	10.2	11.1	10.3	6.5
Addition or Annex	21.2	20.4	25.7	24.3	27.7	16.2	17.9	26.5	29.4	24.4	12.8	11.4	30.9	18.6	9.9
Reduction In Floorspace	51.3	45.0	35.8	80.8	X	49.8	38.1	34.2	79.3	X	35.4	35.9	28.4	13.7	X
Cosmetic Improvements	15.5	16.8	22.8	17.2	27.7	12.6	13.7	18.1	19.6	28.1	10.0	10.5	13.6	8.2	8.9
Wall or Roof Replacement	19.6	20.0	20.4	22.3	34.2	14.0	16.5	17.9	24.9	31.5	17.3	13.7	18.2	11.6	8.0
Interior Wall Re-Configuration	14.7	19.1	19.9	19.8	22.1	12.4	16.2	15.8	19.8	24.9	11.4	9.1	16.6	9.2	9.3
HVAC Equipment Upgrade	13.5	17.1	18.6	20.2	32.5	10.8	15.1	15.9	20.3	33.4	8.2	11.9	9.4	9.0	7.9
Lighting Upgrade	16.1	16.7	27.1	21.2	30.1	13.1	14.3	19.4	24.3	30.9	9.5	11.0	16.9	11.7	9.1
Window Replacement	21.0	20.3	21.1	24.2	36.8	16.7	13.9	18.4	24.7	36.3	14.8	14.6	25.8	15.9	8.4
Plumbing System Upgrade	19.6	18.8	23.1	21.0	35.6	14.4	18.0	19.0	24.9	37.4	12.5	10.3	21.5	10.5	7.8
Insulation Upgrade	22.6	23.7	24.4	30.2	27.4	24.1	16.5	30.7	28.2	30.6	19.7	18.1	14.6	13.5	18.7
Other Renovation	63.1	43.9	42.2	61.0	0.0	54.7	40.9	44.9	60.8	0.0	17.2	21.0	55.0	51.2	0.0
No Renovations Since 1980	11.7	24.5	35.4	14.0	22.1	13.9	18.3	24.2	14.1	17.2	9.3	10.7	25.6	9.0	10.2
Building Newer than 1980	16.4	15.7	20.2	14.3	16.3	16.8	13.4	18.9	12.3	13.1	7.9	7.5	6.0	8.0	7.7
Energy Sources (more than one may apply)															
Electricity	12.2	13.4	20.4	12.1	10.6	11.2	11.7	16.6	11.0	8.5	5.9	7.8	9.4	5.8	5.9
Natural Gas	13.6	12.5	23.1	15.6	22.2	11.5	10.4	17.8	13.0	24.4	5.2	9.3	12.5	10.6	5.1
Fuel Oil	21.5	20.7	25.9	15.2	24.7	19.1	18.1	26.9	16.1	29.9	10.8	13.3	5.2	6.9	9.8
District Heat	24.0	35.9	32.3	32.7	62.3	23.7	37.1	30.3	30.6	50.6	10.0	10.6	5.7	6.0	21.6
District Chilled Water	46.8	31.6	32.3	31.9	50.2	44.0	22.0	30.9	29.6	39.7	8.7	23.4	5.7	10.8	18.6
Propane	30.5	45.8	42.6	26.4	15.8	26.5	42.5	44.5	27.9	16.8	18.9	11.5	15.1	22.0	10.0
Other	45.4	51.4	29.6	55.8	100.0	37.3	26.2	31.0	35.5	100.0	12.0	44.7	20.0	37.6	.

RSEs for Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Total Electricity Consumption					RSEs for Total Floorspace of Buildings Using Electricity					RSEs for Electricity Energy Intensity				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	12.2	13.4	20.4	12.1	10.6	11.2	11.7	16.6	11.0	8.5	5.9	7.8	9.4	5.8	5.9
Space-Heating Energy Sources															
Electricity	13.8	19.7	22.8	15.3	10.0	14.0	14.4	19.4	16.5	7.7	5.4	9.1	8.7	6.7	6.9
Electricity Main	19.9	24.7	26.1	17.0	11.8	20.6	21.5	24.3	20.9	8.2	9.0	9.4	8.8	8.8	7.9
Electricity Secondary	19.0	23.4	28.1	19.8	22.9	16.5	14.0	21.4	16.1	22.1	8.1	15.9	12.2	14.2	15.9
Other Excluding Electricity	14.4	13.0	21.0	15.8	24.4	11.9	13.5	21.0	15.1	25.9	8.4	8.1	17.5	8.4	9.0
Buildings without Heating	50.5	53.7	67.3	36.4	35.7	34.8	37.1	58.4	26.0	12.2	60.2	39.7	27.2	18.0	29.5
Primary Space-Heating Energy Source															
Electricity	19.9	24.7	26.1	17.0	11.8	20.6	21.5	24.3	20.9	8.2	9.0	9.4	8.8	8.8	7.9
Natural Gas	13.6	12.9	24.0	14.4	21.4	11.8	11.0	19.4	12.3	21.9	6.3	10.7	7.5	10.6	6.0
Fuel Oil	34.8	24.2	38.8	35.5	100.2	27.1	29.7	58.0	39.0	100.2	10.2	17.0	98.0	21.3	.
District Heat	21.0	37.4	34.4	35.2	68.2	20.9	41.0	32.2	33.5	55.7	11.7	7.3	6.0	5.0	22.5
Propane	35.6	28.1	60.7	68.3	65.4	52.2	34.4	59.0	36.4	66.3	13.6	19.4	14.7	66.8	14.7
Other	83.2	58.0	86.3	55.1	0.0	58.3	51.0	75.5	52.4	0.0	64.8	20.6	14.1	21.4	0.0
Cooling Energy Sources															
Electricity	12.7	13.4	21.4	12.0	10.8	12.4	10.6	17.2	10.3	8.4	6.0	6.8	10.1	6.2	5.4
Other Excluding Electricity	52.3	32.1	20.9	44.1	59.1	48.3	35.1	21.3	38.4	45.3	9.7	29.1	5.2	17.2	21.6
Buildings without Cooling	20.2	57.0	30.2	25.3	16.2	19.0	34.6	38.3	26.2	39.2	19.7	26.7	29.5	20.0	38.0
Water-Heating Energy Sources															
Electricity	11.2	15.6	21.5	16.3	13.2	15.0	13.4	17.5	15.6	9.8	9.8	9.4	9.0	9.6	8.3
Other Excluding Electricity	14.3	12.8	22.8	14.4	19.7	11.8	8.9	19.3	14.1	18.1	4.7	10.7	13.9	7.8	5.7
Bldgs without Water Heating	23.1	59.0	32.0	22.1	19.3	20.7	38.7	35.2	17.8	13.1	20.8	20.2	11.9	15.6	20.1
Cooking Energy Sources															
Electricity	15.9	21.7	20.9	24.0	16.0	12.9	16.5	21.5	20.2	20.3	9.0	12.4	6.7	9.0	7.2
Other Excluding Electricity	19.8	15.5	43.9	21.2	20.4	19.0	15.2	42.1	18.4	21.5	10.5	10.4	59.2	12.9	9.9
Buildings without Cooking	14.9	14.2	19.6	10.7	17.2	13.0	12.7	16.3	10.7	11.6	8.7	8.8	7.5	4.7	8.9
Energy End Uses (more than one may apply)															
Buildings with Space Heating	12.3	13.3	20.5	12.5	10.6	11.1	11.6	16.7	11.0	9.4	5.6	7.9	9.5	6.2	5.3
Buildings with Cooling	12.9	12.6	20.5	12.2	10.6	12.1	9.9	16.9	10.6	9.0	6.1	6.7	9.3	5.8	5.3
Buildings with Water Heating	12.2	12.2	20.4	12.4	10.7	10.9	9.4	16.7	10.8	9.6	5.8	8.8	10.1	6.0	5.1
Buildings with Cooking	15.7	15.5	26.5	19.6	14.8	12.9	12.4	26.0	16.5	17.9	8.0	9.0	25.3	8.7	5.7
Buildings with Manufacturing	44.4	35.2	38.1	37.4	47.9	32.4	26.6	25.9	33.8	42.9	22.3	30.5	19.5	32.9	42.2
Buildings with Electricity Generation	20.4	16.8	20.2	16.3	18.1	19.1	13.6	21.0	18.2	19.6	8.3	9.2	8.7	6.7	8.1
Percent of Floorspace Heated															
Not Heated	50.5	53.7	67.3	36.4	35.7	34.8	37.1	58.4	26.0	12.2	60.2	39.7	27.2	18.0	29.5
1 to 50	28.7	46.0	38.8	28.1	33.6	22.3	28.1	33.6	17.8	29.4	13.0	27.9	19.8	29.8	9.8
51 to 99	27.0	16.2	31.3	19.8	21.0	22.4	19.1	26.6	16.4	18.2	13.6	14.3	13.5	7.8	12.8
100	13.0	14.6	21.6	14.3	13.6	11.4	12.4	19.0	12.8	12.5	4.7	8.9	15.2	5.5	5.4
Percent of Floorspace Cooled															
Not Cooled	20.2	57.0	30.2	25.3	16.2	19.0	34.6	38.3	26.2	39.2	19.7	26.7	29.5	20.0	38.0
1 to 50	23.4	16.2	19.1	16.8	24.1	18.5	13.0	17.0	15.2	17.3	10.3	12.6	13.6	15.5	14.9
51 to 99	13.4	16.1	22.0	16.8	16.3	16.8	13.5	22.2	15.8	16.4	12.6	8.7	14.4	5.4	11.6
100	16.3	16.4	25.5	15.3	13.3	14.1	12.6	21.2	13.7	12.1	5.3	7.9	8.9	6.4	4.3

RSEs for Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Total Electricity Consumption					RSEs for Total Floorspace of Buildings Using Electricity					RSEs for Electricity Energy Intensity				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	12.2	13.4	20.4	12.1	10.6	11.2	11.7	16.6	11.0	8.5	5.9	7.8	9.4	5.8	5.9
Percent Lit When Open															
Zero	65.7	X	96.0	84.4	52.6	60.3	X	96.0	63.4	48.3	44.9	X	0.0	150.7	29.1
1 to 50	12.4	16.0	27.9	22.8	20.1	12.5	18.5	18.1	16.9	19.9	9.3	13.2	23.1	13.1	7.5
51 to 99	12.7	17.1	21.2	14.4	19.7	15.4	13.5	17.1	13.4	14.8	10.4	8.6	10.8	6.4	5.8
100	14.5	15.2	23.7	13.0	15.4	11.2	12.8	18.2	11.3	12.6	6.0	6.8	13.8	8.4	9.0
Building Never Open/ Electricity Not Used	41.9	46.8	55.2	48.0	100.1	39.0	50.0	52.1	40.9	100.1	35.1	47.8	38.8	40.4	0.0
Percent Lit When Closed															
Zero	12.3	19.7	15.7	14.0	28.2	13.9	19.2	16.3	12.9	14.8	8.8	5.7	10.5	13.0	17.0
1 to 50	12.8	14.7	24.0	13.2	10.4	10.1	11.1	20.1	12.2	9.3	6.7	11.1	11.9	7.1	3.9
51 to 100	43.1	59.8	33.3	42.2	37.7	35.1	29.8	30.8	24.8	20.4	22.6	29.3	11.3	26.3	21.8
Building Never Closed/ Electricity Not Used	17.4	18.2	23.6	18.8	22.5	14.0	12.8	17.3	15.7	26.9	8.0	10.5	15.8	10.1	9.7
Heating Equipment (more than one may apply)															
Heat Pumps	24.9	31.4	35.1	17.5	18.0	26.5	22.4	28.4	21.5	14.3	14.4	17.3	14.3	17.4	16.0
Packaged Heat Pumps	31.1	40.1	41.2	14.6	21.7	25.6	28.7	32.8	21.0	12.4	14.9	22.0	18.1	19.0	21.8
Split-System Heat Pumps	43.8	36.8	60.0	30.8	23.6	50.3	35.1	37.6	38.0	19.0	18.0	10.4	41.0	26.6	12.7
Individual Room Heat Pumps	36.5	41.1	36.1	22.1	38.6	38.1	35.5	37.0	20.6	30.2	19.1	25.9	14.1	10.2	21.4
Furnaces	11.8	16.6	18.8	16.0	24.3	11.8	14.5	16.0	14.8	22.0	7.0	10.7	9.8	11.8	11.7
Individual Space Heaters	16.7	19.1	29.5	17.5	29.2	14.8	16.5	19.2	18.7	25.8	9.4	10.4	18.2	11.2	7.7
District Heat	23.9	36.4	34.5	34.5	62.3	23.4	38.1	32.2	32.1	50.6	10.4	10.8	6.0	6.6	21.6
Boilers	17.1	14.9	30.9	17.8	22.3	13.6	8.5	30.3	15.7	22.2	8.4	11.8	27.8	11.8	5.1
Packaged Heating Units	16.4	18.4	20.7	17.8	15.7	16.9	17.0	20.1	15.5	12.3	8.1	11.6	7.0	7.9	9.5
Other	24.8	23.7	43.1	21.5	35.0	24.8	26.0	37.7	38.7	33.0	9.5	13.4	12.2	45.4	13.0
Cooling Equipment (more than one may apply)															
Residential-Type Central Air Conditioners	11.7	16.5	38.4	35.5	19.6	16.9	9.6	25.1	19.9	15.0	12.4	12.7	36.4	22.7	16.7
Heat Pumps	24.6	32.1	34.1	18.6	17.8	26.6	23.1	27.6	23.8	17.2	15.0	17.8	14.2	11.7	18.1
Packaged Heat Pumps	30.5	41.5	39.0	16.0	22.4	26.1	30.2	32.3	20.4	16.4	14.4	23.0	15.3	19.9	23.8
Split-System Heat Pumps	44.5	35.0	60.8	31.6	24.6	48.6	31.8	37.8	38.1	18.6	33.5	11.6	42.1	24.2	11.1
Individual Room Heat Pumps	35.6	41.1	35.5	31.9	38.6	35.9	35.5	34.0	25.7	30.2	17.8	25.9	11.8	11.6	21.4
Individual Air Conditioners	18.9	14.4	23.9	27.9	27.7	16.4	11.2	28.3	23.6	25.0	8.5	10.4	18.5	11.8	15.5
District Chilled Water	46.8	31.6	32.3	31.9	50.2	44.0	22.0	30.9	29.6	39.7	8.7	23.4	5.7	10.8	18.6
Central Chillers	17.4	19.1	31.4	21.6	13.9	17.2	15.6	26.3	21.0	14.3	5.8	10.4	10.6	11.6	2.6
Packaged Air Conditioning Units	14.3	14.6	19.1	13.7	15.6	12.3	13.7	18.4	12.5	12.6	7.3	8.7	16.1	8.0	6.6
Swamp Coolers	21.5	35.7	61.9	18.9	54.0	24.9	33.9	72.0	24.8	57.6	4.2	11.3	16.3	24.6	17.0
Other	39.8	27.0	46.0	45.6	38.1	37.2	28.7	35.3	47.7	39.5	28.7	32.0	15.2	16.4	18.2
Main Equipment Replaced Since 1990 (more than one may apply)															
Heating	11.3	19.6	21.2	14.4	23.1	11.4	13.0	17.6	17.8	22.6	7.8	15.2	10.0	11.2	9.4
Cooling	12.2	17.0	24.1	12.1	15.8	14.4	11.6	17.8	11.9	16.5	8.2	11.0	11.8	10.6	5.6
Water Heating Equipment															
Centralized System	13.4	13.8	18.7	13.6	16.6	10.6	9.4	16.6	12.1	16.1	6.0	10.7	10.3	6.4	9.1
Distributed System	16.7	25.7	26.3	16.9	15.0	14.5	24.1	30.3	14.1	12.5	15.1	13.8	28.7	8.7	6.3
Combination of Centralized and Distributed System	22.2	21.9	32.0	18.4	27.6	18.8	15.6	25.9	18.3	24.9	10.1	14.2	15.8	12.7	5.3

RSEs for Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Total Electricity Consumption					RSEs for Total Floorspace of Buildings Using Electricity					RSEs for Electricity Energy Intensity				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	12.2	13.4	20.4	12.1	10.6	11.2	11.7	16.6	11.0	8.5	5.9	7.8	9.4	5.8	5.9
Lighting Equipment Types (more than one may apply)															
Incandescent	12.4	13.8	22.0	13.6	13.2	11.1	10.5	19.8	12.7	12.4	6.6	10.1	14.0	9.6	7.6
Standard Fluorescent	12.3	13.3	20.5	12.0	11.3	11.3	11.1	16.8	10.8	9.3	5.1	8.1	9.7	5.7	5.7
Compact Fluorescent	15.7	15.2	22.3	16.1	12.1	13.6	11.2	18.5	12.8	15.0	5.7	9.0	10.8	7.2	9.5
High Intensity Discharge	15.3	17.1	24.2	13.4	16.3	12.9	16.8	19.9	13.6	13.5	8.0	8.4	8.1	11.1	12.7
Halogen	21.3	10.5	24.4	15.5	13.0	19.4	10.4	17.3	14.0	12.4	6.1	6.5	12.3	11.4	11.8
Other	100.2	53.2	100.4	100.3	56.2	100.2	45.2	100.4	100.3	53.3	0.0	21.1	.	.	26.3
Refrigeration Equipment (more than one may apply)[b]															
Any Refrigeration	12.8	12.5	20.6	12.9	10.8	11.8	9.8	17.2	11.2	10.2	6.5	8.7	10.2	5.7	5.7
Commercial Refrigeration	14.4	15.1	24.1	16.9	12.9	12.8	12.6	21.2	14.9	14.5	6.8	7.9	18.5	6.7	9.1
Walk-In Units	14.6	14.3	26.3	17.2	12.3	13.4	11.4	27.2	15.8	12.9	9.2	9.1	26.7	7.5	10.8
Cases or Cabinets	16.3	17.5	26.8	17.9	14.4	14.5	15.3	20.7	16.3	16.6	5.4	7.2	13.3	7.5	11.3
Residential-Type Units	11.5	15.9	21.2	12.7	13.1	11.2	11.5	17.2	12.4	10.9	5.6	9.9	15.1	7.9	5.3
Vending Machines	13.6	13.6	22.7	14.9	12.1	11.4	12.1	18.8	13.3	12.6	6.5	8.5	10.3	5.2	6.1
No Refrigeration	22.9	47.8	24.0	17.1	24.2	16.4	30.7	24.8	18.1	18.7	24.7	18.0	12.5	10.6	18.2
Office Equipment (more than one may apply)															
Computers	12.6	13.1	21.0	12.2	11.2	11.7	10.1	17.1	10.5	9.5	5.9	7.8	10.2	5.7	5.0
With Flat Screen Monitors	16.7	13.6	22.9	13.7	15.5	14.9	9.0	18.1	12.5	16.3	5.2	9.0	8.1	5.0	6.1
Dedicated Servers	14.3	14.4	22.1	12.5	13.1	13.9	9.7	17.4	10.5	13.0	6.3	7.4	8.5	6.9	4.7
Laser Printers	12.7	15.9	24.7	12.0	12.4	11.6	10.6	18.9	12.5	10.6	6.0	11.6	11.9	7.8	5.7
Inkjet Printers	17.8	12.8	22.6	13.0	16.2	16.1	10.7	18.2	9.9	15.1	4.3	7.7	7.6	7.2	6.2
FAX Machines	12.8	13.0	21.0	12.1	10.7	12.6	9.6	16.8	10.6	10.2	5.8	8.3	10.6	6.2	4.9
Photocopiers	13.3	13.5	21.4	12.6	11.1	12.7	9.5	17.0	10.6	9.6	6.4	7.6	11.1	5.7	5.0
Number of Computers															
None	13.5	31.3	34.3	23.5	22.3	20.0	27.2	27.0	26.3	20.3	14.5	11.0	20.5	13.3	23.5
1 to 4	15.3	26.6	30.4	18.0	24.8	17.1	20.5	26.4	14.6	15.1	18.0	13.4	29.9	10.9	23.9
5 to 9	16.8	18.5	27.1	17.2	21.9	12.2	12.4	25.2	14.2	20.9	13.3	13.8	13.8	11.9	9.0
10 to 19	21.2	24.9	34.6	20.1	26.7	19.4	18.5	29.0	22.2	17.1	12.9	15.3	32.3	11.7	20.9
20 to 49	27.9	18.9	26.7	22.8	16.4	24.6	15.4	23.5	17.4	17.7	15.7	11.4	12.5	14.1	12.5
50 to 99	28.1	18.6	32.6	21.7	21.6	24.3	11.6	40.9	23.4	21.5	11.6	13.2	67.1	10.1	6.0
100 to 249	25.5	19.1	30.9	18.5	16.9	18.9	17.4	24.9	19.1	14.8	15.3	14.0	10.1	8.5	8.4
250 or More	23.1	19.1	29.7	16.1	22.9	19.1	15.8	24.9	16.9	25.9	8.8	13.8	11.6	9.1	7.0
Number of Dedicated Servers															
None	15.2	14.4	21.0	15.0	14.7	11.8	16.7	21.3	13.6	11.0	10.1	9.2	14.4	5.4	15.5
1 to 4	12.9	12.7	23.1	15.7	11.5	13.6	8.8	19.0	14.0	10.3	5.5	7.8	15.7	8.9	5.5
5 to 9	33.4	20.1	52.3	42.1	36.8	33.5	17.9	39.2	27.2	27.7	15.1	19.6	25.3	24.8	21.9
10 to 19	28.8	23.0	34.5	19.9	52.1	25.9	22.1	32.4	17.2	49.7	16.4	13.7	16.5	17.8	3.6
20 to 49	45.0	38.6	38.3	21.7	41.4	46.0	28.2	37.0	23.9	42.9	8.8	20.9	9.8	17.6	12.7
50 or More	44.1	44.4	32.0	36.4	40.8	44.6	42.5	33.0	48.5	48.1	13.0	22.9	13.9	32.0	12.6
Number of Photocopiers															
None	14.7	17.6	26.4	17.4	19.4	14.6	21.8	22.7	18.4	17.4	13.9	11.1	14.6	10.7	15.7
One	13.1	17.0	23.6	21.6	20.5	18.7	12.9	23.1	17.5	18.6	14.0	10.8	24.7	8.9	8.2
2 to 4	16.8	16.1	24.2	19.8	13.5	14.8	9.4	17.6	15.8	12.0	7.6	13.0	12.3	8.6	12.8
5 to 9	18.4	23.1	40.4	23.6	40.5	16.0	15.3	39.3	23.4	33.8	10.1	13.5	53.1	14.9	7.5
10 or More	26.1	20.2	30.2	13.8	21.7	20.4	16.4	25.6	17.6	27.1	8.3	13.5	10.4	10.4	7.6

RSEs for Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Total Electricity Consumption					RSEs for Total Floorspace of Buildings Using Electricity					RSEs for Electricity Energy Intensity				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	12.2	13.4	20.4	12.1	10.6	11.2	11.7	16.6	11.0	8.5	5.9	7.8	9.4	5.8	5.9
Energy-Related Space Functions (more than one may apply)															
Commercial Food Preparation	15.7	15.4	26.5	19.6	14.8	12.9	12.3	26.0	16.5	17.9	8.0	9.0	25.3	8.7	5.7
Activities with Large Amounts of Hot Water	13.7	16.1	26.8	20.7	16.3	11.5	12.1	26.4	15.6	17.1	7.3	10.2	27.9	10.2	6.2
Separate Computer Area	17.6	15.9	24.8	14.6	16.6	15.5	11.6	19.9	10.7	16.6	4.5	8.9	10.9	7.5	5.6
HVAC Conservation Features (more than one may apply)															
Variable Air-Volume System	19.8	15.6	27.1	13.6	18.1	15.8	11.5	22.6	12.7	18.3	7.1	9.2	9.2	4.3	5.9
Economizer Cycle	14.1	15.1	26.1	14.3	18.5	11.8	12.4	21.9	11.7	21.7	6.0	8.0	8.6	4.3	6.1
HVAC Maintenance	13.1	13.8	21.4	12.4	11.2	11.0	12.5	17.9	10.8	10.1	6.4	7.6	11.5	7.1	5.1
Energy Management and Control System (EMCS)	19.9	17.1	29.3	19.1	18.2	17.5	13.6	24.0	17.1	21.2	5.6	10.6	11.0	7.0	5.5
Window and Interior Lighting Features (more than one may apply)															
Multipaned Windows	14.2	13.9	18.5	14.1	11.6	13.2	10.6	18.4	12.6	10.8	6.8	8.3	14.4	7.8	5.2
Tinted Window Glass	17.4	15.6	21.9	10.5	13.0	14.3	14.9	19.3	9.7	10.7	6.1	10.0	7.1	5.8	7.1
Reflective Window Glass	21.0	19.9	30.5	16.5	16.1	20.4	16.4	17.5	13.9	14.4	7.2	12.9	18.6	11.0	6.6
External Overhangs or Awnings	13.7	21.0	22.6	20.5	23.7	11.6	16.2	21.8	13.6	21.1	11.7	10.1	18.2	13.7	8.5
Skylights or Atriums	19.5	21.8	20.2	22.0	14.9	16.2	15.6	17.6	18.6	16.1	8.2	15.4	17.3	9.1	9.4
Daylighting Sensors	28.9	40.9	39.3	40.0	22.6	31.9	23.6	31.4	32.1	30.5	14.8	24.4	17.3	33.6	18.2
Specular Reflectors	13.4	16.6	23.3	16.3	11.6	13.0	14.8	18.2	11.8	12.6	5.6	7.1	10.8	7.8	12.2
Electronic Ballasts	12.6	14.4	21.2	14.2	11.6	11.5	12.0	17.1	11.9	10.5	4.2	6.7	7.9	7.1	6.6
Energy Management and Control System (EMCS) For Lighting	31.2	15.0	30.9	29.7	26.6	35.3	23.4	27.2	33.4	29.4	11.7	14.0	11.1	15.5	13.0
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[b]															
Heating	15.7	13.1	20.5	14.2	12.2	12.3	11.1	15.7	12.0	11.8	7.9	10.6	12.1	6.2	3.3
Cooling	15.9	13.9	21.0	13.5	12.3	13.7	10.0	16.7	11.3	11.3	8.6	8.4	11.7	5.9	3.6
Lighting	11.8	15.4	19.9	11.9	11.1	11.4	12.4	17.4	11.3	7.7	7.3	7.7	9.0	5.9	7.0
Office Equipment	14.6	23.0	19.1	17.6	23.6	12.6	14.1	17.8	14.2	14.9	10.0	16.4	14.3	7.0	12.9
Annual Consumption (kilowatthours)															
10,000 or Less	17.6	24.1	40.8	22.6	38.7	28.4	37.1	44.4	24.0	45.1	17.5	15.9	12.8	9.4	29.1
10,001 to 50,000	15.7	17.9	24.8	18.7	15.0	21.9	15.2	24.3	22.4	19.2	15.0	10.4	9.9	10.8	13.6
50,001 to 100,000	17.9	20.1	21.5	17.1	22.0	15.8	24.0	31.3	16.5	17.3	13.5	9.7	32.0	8.3	18.2
100,001 to 500,000	14.5	16.1	18.1	12.6	15.5	14.2	12.7	25.2	15.5	14.3	8.7	8.9	24.4	13.9	11.0
500,001 to 1,000,000	16.0	19.9	22.8	21.2	20.5	12.9	15.7	17.6	19.9	19.2	16.0	11.7	14.5	6.8	11.1
1,000,001 to 5,000,000	13.8	20.0	26.5	16.4	18.6	13.6	17.0	22.4	14.1	15.4	7.2	6.7	6.7	7.0	11.0
Over 5,000,000	35.7	19.2	29.9	19.3	26.1	39.2	21.6	27.7	21.8	32.8	9.1	15.4	11.7	11.9	7.4

RSEs for Table C20. Electricity Consumption and Conditional Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Total Electricity Consumption					RSEs for Total Floorspace of Buildings Using Electricity					RSEs for Electricity Energy Intensity				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	12.2	13.4	20.4	12.1	10.6	11.2	11.7	16.6	11.0	8.5	5.9	7.8	9.4	5.8	5.9
Provider of Purchased Electricity (more than one may apply)															
Local Utility	11.1	14.6	18.3	12.1	11.7	10.6	12.3	16.0	11.2	7.7	6.1	8.8	10.1	6.0	6.8
Some Other Provider	50.5	18.4	47.7	41.2	19.3	44.9	18.7	41.1	49.9	29.5	27.1	10.6	14.6	12.1	11.1

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

RSEs for Table C21. Electricity Consumption and Conditional Energy Intensity by Building Size for Non-Mall Buildings, 2003

	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*	5.5	6.0	8.4	5.0	4.0	8.9	5.1	4.7	5.3
Principal Building Activity									
Education	15.3	11.4	16.9	12.4	9.5	11.0	11.4	5.7	10.1
Food Sales	18.5	23.0	100.5	17.1	22.1	100.5	11.5	12.1	0.0
Food Service	11.3	35.8	100.0	9.8	22.1	100.0	8.6	23.8	0.0
Health Care	18.0	16.8	9.7	15.8	15.5	10.1	7.4	14.0	5.0
Inpatient	0.0	33.4	9.8	0.0	27.2	9.6	0.0	11.8	5.0
Outpatient	18.0	16.6	49.1	15.8	17.6	39.5	7.4	17.2	39.2
Lodging	26.5	10.4	24.4	28.5	10.6	21.3	17.4	5.9	26.1
Retail (Other Than Mall)	16.5	20.9	27.3	12.9	14.2	23.7	9.8	16.3	7.1
Office	10.6	11.2	12.2	7.8	9.5	13.8	6.0	4.7	5.2
Public Assembly	44.0	14.7	32.5	16.2	14.4	36.6	42.1	11.2	55.3
Public Order and Safety	32.2	32.9	34.5	28.6	28.8	32.0	15.1	17.8	11.6
Religious Worship	13.9	15.7	39.1	12.3	12.7	36.3	10.3	10.6	34.6
Service	14.6	21.7	72.3	11.3	20.1	58.8	9.1	11.1	35.8
Warehouse and Storage	30.6	19.6	30.5	14.1	12.1	25.7	23.5	15.7	9.3
Other	30.6	43.2	32.8	22.4	26.3	39.3	19.3	29.9	47.5
Vacant	45.1	41.9	40.7	30.4	38.9	40.6	28.2	47.3	31.3
Year Constructed									
Before 1920	17.5	36.7	38.1	14.9	18.0	30.8	12.1	30.4	31.1
1920 to 1945	12.7	15.5	38.4	10.2	15.1	28.3	9.1	10.8	24.4
1946 to 1959	14.7	13.9	23.9	12.4	11.6	26.9	10.2	8.9	29.3
1960 to 1969	14.6	13.5	13.7	10.9	10.6	13.5	14.4	10.7	7.2
1970 to 1979	12.0	11.5	18.1	11.3	8.3	17.4	8.4	8.3	12.3
1980 to 1989	13.7	12.3	15.2	10.9	10.0	13.3	11.7	8.7	8.3
1990 to 1999	18.1	12.1	13.1	9.9	9.3	10.8	17.1	9.4	8.2
2000 to 2003	24.3	15.8	22.4	16.6	10.3	17.8	19.8	12.9	11.2
Census Region and Division									
Northeast	9.7	13.7	15.1	9.2	8.9	19.3	10.6	12.3	21.7
New England	13.7	34.7	50.0	15.4	27.9	24.2	19.4	32.0	36.1
Middle Atlantic	12.4	14.1	14.8	12.4	7.8	21.9	11.6	12.0	25.5
Midwest	12.6	11.9	16.2	14.6	8.8	20.8	8.2	9.8	6.7
East North Central	18.9	18.4	19.1	19.3	12.1	25.2	13.1	14.6	7.9
West North Central	18.4	8.2	19.3	23.8	12.6	26.1	6.5	7.3	12.1
South	9.6	9.8	14.8	9.1	5.7	14.1	6.1	7.7	4.4
South Atlantic	15.7	13.8	20.2	13.7	8.1	18.0	9.0	10.1	6.1
East South Central	16.7	26.9	22.2	20.5	13.9	24.9	13.8	17.3	5.2
West South Central	18.4	17.5	23.9	18.6	12.3	25.8	9.6	16.1	5.8
West	15.7	7.3	19.5	8.1	7.9	14.2	16.6	6.1	7.7
Mountain	12.1	7.7	45.1	14.3	11.5	38.0	15.1	8.9	13.2
Pacific	23.1	10.7	13.4	9.3	10.4	11.1	23.9	8.4	5.7
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	12.8	11.9	18.6	11.8	11.8	16.4	10.3	5.3	7.4
5,500-7,000 HDD	16.5	15.7	19.0	15.4	11.4	21.7	7.4	12.3	9.1
4,000-5,499 HDD	20.7	24.0	27.5	24.3	18.7	24.4	9.2	7.5	21.0
Fewer than 4,000 HDD	15.8	15.5	13.1	13.5	13.7	10.7	11.8	8.4	6.3
2,000 CDD or More and --									
Fewer than 4,000 HDD	19.2	13.3	20.3	14.2	9.2	21.2	13.5	9.9	5.6

RSEs for Table C21. Electricity Consumption and Conditional Energy Intensity by Building Size for Non-Mall Buildings, 2003

	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*	5.5	6.0	8.4	5.0	4.0	8.9	5.1	4.7	5.3
Number of Floors									
One	6.4	7.4	23.3	6.0	5.1	23.3	5.0	6.2	6.8
Two	15.0	11.8	17.0	8.5	7.7	15.6	14.1	8.6	14.0
Three	11.2	11.2	18.3	12.0	8.6	13.7	9.0	10.0	12.0
Four to Nine	37.0	13.6	14.4	25.9	12.6	13.5	31.3	8.5	10.5
Ten or More	0.0	48.3	15.1	0.0	47.8	15.4	0.0	19.4	6.9
Elevators and Escalators (more than one may apply)									
Any Elevators	33.8	8.3	9.5	28.2	6.4	8.3	20.0	5.2	4.5
Number of Elevators									
One	33.8	10.0	16.6	28.2	8.4	14.1	20.0	6.8	8.6
Two to Five	0.0	12.4	11.4	0.0	11.3	10.6	0.0	7.8	8.0
Six or More	0.0	75.6	15.2	0.0	62.9	15.0	0.0	20.6	7.2
Any Escalators	X	74.6	27.2	X	70.6	21.4	X	28.1	13.7
Number of Workers (main shift)									
Fewer than 5	7.4	11.7	75.8	6.7	11.9	60.7	7.1	10.7	12.7
5 to 9	10.3	15.5	53.1	8.7	10.1	47.6	7.1	13.9	21.8
10 to 19	13.7	8.7	35.4	9.7	7.4	62.3	10.1	6.9	112.5
20 to 49	14.8	9.4	32.8	11.8	7.1	31.2	10.0	6.0	31.1
50 to 99	55.9	10.6	14.2	42.1	7.9	13.5	35.5	7.4	7.0
100 to 249	99.5	14.3	10.4	84.4	10.1	11.3	96.3	10.3	6.9
250 or More	0.0	25.2	11.8	0.0	23.7	11.4	0.0	7.7	5.0
Weekly Operating Hours									
Fewer than 40	14.2	19.6	35.5	11.4	17.1	36.0	7.1	19.0	33.2
40 to 48	7.4	9.9	27.9	7.3	7.8	28.7	5.1	8.0	37.8
49 to 60	8.9	9.4	23.0	7.7	7.2	19.2	8.5	6.5	6.6
61 to 84	11.5	11.8	15.3	10.6	8.2	16.3	9.5	9.2	10.6
85 to 167	11.9	14.2	19.3	13.5	11.9	13.4	9.6	10.1	10.2
Open Continuously	24.3	10.6	11.8	18.5	8.9	9.7	22.4	7.3	6.8
Ownership and Occupancy									
Nongovernment Owned	6.2	7.0	8.7	5.2	4.8	10.3	5.6	5.5	7.4
Owner Occupied	10.9	9.8	10.5	6.9	7.0	10.7	8.1	7.1	6.9
Nonowner Occupied	7.1	9.8	13.9	7.1	6.5	14.0	7.1	6.9	9.2
Unoccupied	52.6	64.8	63.1	35.5	52.4	53.6	37.8	75.7	40.6
Government Owned	13.8	9.2	15.6	10.9	7.5	11.5	9.1	5.1	7.7
Federal	46.6	25.0	42.1	44.3	30.9	39.2	27.3	16.4	16.0
State	31.1	17.2	27.1	25.5	14.7	21.2	19.2	10.2	9.4
Local	14.8	11.2	15.1	11.9	9.2	10.8	10.0	7.1	9.6
Vacancy Status									
Completely Vacant	52.6	52.5	56.2	35.5	49.2	46.3	37.8	66.6	37.0
Mostly Vacant	64.8	57.2	58.0	54.3	48.0	74.2	21.5	43.7	40.8
Partially Vacant	15.9	10.6	11.7	11.6	7.9	11.4	12.1	7.5	5.5
Not At All Vacant	6.0	6.4	10.5	5.5	4.2	10.7	5.7	4.6	8.0

RSEs for Table C21. Electricity Consumption and Conditional Energy Intensity by Building Size for Non-Mall Buildings, 2003

	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*	5.5	6.0	8.4	5.0	4.0	8.9	5.1	4.7	5.3
Number of Establishments									
One	6.7	6.6	10.4	5.5	4.6	11.9	6.0	5.0	9.2
2 to 5	14.5	11.7	11.5	11.7	9.5	10.3	7.6	8.4	5.9
6 to 10	47.4	21.2	36.3	46.3	13.7	27.0	33.5	14.5	16.5
11 to 20	X	24.0	23.8	X	20.2	23.0	X	18.5	12.0
More than 20	100.1	36.4	18.4	100.1	35.3	17.9	0.0	17.2	9.5
Currently Unoccupied	52.6	52.5	56.2	35.5	49.2	46.3	37.8	66.6	37.0
Predominant Exterior Wall Material									
Brick, Stone or Stucco	7.7	7.5	11.5	6.8	5.0	12.1	5.5	5.1	8.7
Concrete (Block or Poured)	14.2	12.6	14.1	9.6	10.2	13.5	10.8	10.5	9.4
Concrete Panels	34.3	19.5	22.1	27.3	10.0	16.6	25.7	16.5	10.3
Siding or Shingles	19.2	18.0	55.3	11.1	19.0	31.3	18.1	18.0	46.8
Metal Panels	17.5	18.2	23.3	12.1	12.1	21.2	11.8	14.7	13.6
Window Glass	61.5	46.6	30.7	50.6	35.8	27.4	37.9	20.0	16.1
Other	63.1	37.0	30.8	49.3	36.6	28.4	52.7	14.9	13.3
No One Major Type	63.1	58.3	48.4	51.9	42.8	38.9	50.7	26.3	19.6
Predominant Roof Material									
Built-Up	9.5	8.5	11.9	8.2	5.8	9.7	9.1	7.6	6.8
Shingles (Not Wood)	13.0	12.1	31.3	7.1	7.3	23.3	12.0	10.1	21.4
Metal Surfacing	11.5	12.1	25.9	9.0	10.0	21.0	6.4	9.4	13.2
Synthetic or Rubber	15.3	11.1	11.6	12.2	8.5	9.6	11.4	6.5	6.7
Slate or Tile	18.5	23.5	44.8	14.4	18.3	38.0	14.4	18.0	22.8
Wooden Materials	26.6	40.1	44.8	29.2	37.0	46.2	12.4	29.9	21.7
Concrete	53.8	46.0	58.1	46.9	33.8	55.3	23.8	28.0	87.6
Other	100.1	34.4	49.4	100.1	34.6	51.1	0.0	19.4	28.2
No One Major Type	56.9	36.8	57.1	51.6	44.1	58.1	39.3	30.0	4.4
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	9.7	9.2	10.6	9.3	7.1	10.6	8.4	7.2	7.3
Addition or Annex	22.6	15.8	14.9	17.9	12.1	18.4	17.3	8.7	17.0
Reduction In Floorspace	74.2	47.6	35.3	68.6	34.5	33.4	6.3	31.6	16.8
Cosmetic Improvements	11.6	9.8	11.0	10.5	7.7	11.7	8.3	8.2	8.2
Wall or Roof Replacement	14.2	13.4	13.6	13.9	10.6	13.0	9.8	11.4	10.9
Interior Wall Re-Configuration	13.8	14.5	11.8	12.3	11.1	12.1	10.5	9.4	9.1
HVAC Equipment Upgrade	15.9	10.6	11.5	12.8	8.5	11.6	11.4	8.4	4.8
Lighting Upgrade	14.1	10.9	13.0	11.7	8.6	12.8	13.1	9.3	8.9
Window Replacement	18.5	15.0	17.0	13.9	10.1	16.1	13.4	12.4	16.7
Plumbing System Upgrade	17.8	14.0	14.5	15.0	11.4	14.9	15.8	10.4	9.9
Insulation Upgrade	25.7	18.0	17.6	22.3	13.9	18.5	19.1	15.3	9.1
Other Renovation	70.1	38.1	45.9	64.4	39.2	37.8	27.2	37.6	30.5
No Renovations Since 1980	7.5	8.6	26.6	8.0	7.0	22.6	6.1	7.8	16.1
Building Newer than 1980	10.3	9.5	9.9	7.2	7.0	8.7	8.8	5.9	4.3

RSEs for Table C21. Electricity Consumption and Conditional Energy Intensity by Building Size for Non-Mall Buildings, 2003

	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*	5.5	6.0	8.4	5.0	4.0	8.9	5.1	4.7	5.3
Energy Sources (more than one may apply)									
Electricity	5.5	6.0	8.4	5.0	4.0	8.9	5.1	4.7	5.3
Natural Gas	7.9	7.0	10.6	7.3	5.7	9.9	6.6	4.8	7.4
Fuel Oil	20.5	12.9	11.8	18.6	13.5	11.6	12.4	10.8	5.1
District Heat	39.4	20.6	19.6	36.5	19.0	18.7	37.1	15.1	5.6
District Chilled Water	68.5	20.0	22.7	67.1	16.5	19.7	73.6	12.6	8.8
Propane	29.4	18.8	26.5	18.4	14.7	27.4	24.1	13.4	6.0
Other	22.0	38.9	42.4	21.2	27.0	30.1	15.1	23.4	30.3
Space-Heating Energy Sources									
Electricity	9.1	8.0	10.4	8.2	6.0	9.0	6.1	5.6	5.7
Electricity Main	11.3	10.9	10.6	10.9	9.4	12.4	7.6	7.0	7.3
Electricity Secondary	13.6	12.6	17.5	12.5	8.5	12.9	9.1	9.5	9.4
Other Excluding Electricity	8.0	7.1	10.7	6.7	5.6	14.3	8.1	5.8	10.6
Buildings without Heating	27.0	20.9	43.5	16.2	16.0	30.7	21.5	16.6	36.9
Primary Space-Heating Energy Source									
Electricity	11.3	10.9	10.6	10.9	9.4	12.4	7.6	7.0	7.3
Natural Gas	8.1	7.9	11.6	7.7	6.0	9.1	6.7	6.1	7.5
Fuel Oil	17.5	20.7	29.8	16.5	23.6	64.5	9.9	14.4	140.2
District Heat	39.4	21.9	21.0	36.5	20.5	20.2	37.1	15.7	5.1
Propane	39.0	40.8	47.5	22.5	27.3	61.5	34.3	21.9	39.6
Other	29.7	53.2	95.5	29.1	47.1	95.5	12.7	18.5	0.0
Cooling Energy Sources									
Electricity	5.9	6.3	8.7	5.3	4.2	8.6	5.2	4.1	6.2
Other Excluding Electricity	86.1	19.9	22.8	89.5	21.0	20.0	597.2	12.0	10.5
Buildings without Cooling	14.2	19.1	75.2	10.1	19.8	52.3	12.3	11.6	19.3
Water-Heating Energy Sources									
Electricity	9.4	9.7	7.7	8.3	6.9	9.1	6.0	6.4	6.2
Other Excluding Electricity	9.2	7.0	12.1	7.0	5.9	10.4	8.6	5.5	7.7
Bldgs without Water Heating	14.5	16.7	76.4	9.0	12.3	52.7	13.5	14.5	21.1
Cooking Energy Sources									
Electricity	14.6	12.3	11.1	11.8	9.6	9.8	12.4	7.7	5.3
Other Excluding Electricity	17.9	15.0	19.5	12.1	9.7	23.3	14.7	9.9	26.8
Buildings without Cooking	5.6	6.9	11.1	5.4	4.5	11.8	4.3	5.5	6.5
Energy End Uses (more than one may apply)									
Buildings with Space Heating	5.6	6.1	8.4	5.0	4.0	9.0	5.4	4.7	5.4
Buildings with Cooling	5.8	6.2	8.3	5.3	4.1	8.2	5.2	4.0	5.6
Buildings with Water Heating	6.1	6.2	8.3	5.2	4.1	8.4	5.5	4.5	5.9
Buildings with Cooking	10.7	9.3	10.8	8.3	7.0	11.5	10.2	6.3	9.5
Buildings with Manufacturing	24.4	28.3	30.5	22.5	17.9	26.3	16.7	25.1	12.4
Buildings with Electricity Generation	29.4	12.9	9.0	25.3	10.3	8.9	27.9	7.5	4.8

RSEs for Table C21. Electricity Consumption and Conditional Energy Intensity by Building Size for Non-Mall Buildings, 2003

	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*	5.5	6.0	8.4	5.0	4.0	8.9	5.1	4.7	5.3
Percent of Floorspace Heated									
Not Heated	27.0	20.9	43.5	16.2	16.0	30.7	21.5	16.6	36.9
1 to 50	17.8	22.9	33.1	12.9	11.9	25.0	14.1	17.8	25.5
51 to 99	13.5	13.0	16.3	10.8	9.7	14.9	10.4	11.5	6.1
100	7.1	6.6	9.6	5.9	4.6	11.5	6.5	5.0	8.1
Percent of Floorspace Cooled									
Not Cooled	14.2	19.1	75.2	10.1	19.8	52.3	12.3	11.6	19.3
1 to 50	9.4	12.6	15.0	9.2	8.5	14.5	6.9	9.4	13.2
51 to 99	12.9	9.4	10.8	10.2	7.5	12.1	9.1	7.5	8.5
100	8.3	8.5	12.0	6.6	6.4	9.9	7.8	4.6	5.5
Percent Lit When Open									
Zero	72.3	55.8	100.3	41.4	58.4	100.3	82.8	31.8	0.0
1 to 50	12.5	10.8	24.0	11.0	9.3	18.0	7.6	8.9	22.1
51 to 99	10.0	8.9	9.2	7.9	6.8	8.6	8.1	6.6	4.7
100	6.7	8.3	11.7	5.8	5.5	11.1	7.3	5.5	7.1
Building Never Open/ Electricity Not Used	35.9	50.7	51.3	29.2	45.8	45.4	20.2	63.8	34.5
Percent Lit When Closed									
Zero	7.6	8.4	24.1	6.2	6.7	23.4	6.0	7.4	9.4
1 to 50	6.3	8.2	9.4	6.3	5.0	10.7	5.2	6.7	6.6
51 to 100	29.2	31.9	22.5	16.7	18.0	20.4	22.6	18.7	8.6
Building Never Closed/ Electricity Not Used	24.3	10.6	11.8	18.5	8.9	9.7	22.4	7.3	6.8
Heating Equipment (more than one may apply)									
Heat Pumps	19.3	13.6	21.9	15.9	11.1	15.9	13.8	9.5	12.2
Packaged Heat Pumps	27.6	17.2	26.7	20.9	11.6	18.5	14.6	12.7	15.7
Split-System Heat Pumps	14.9	24.4	52.7	22.4	18.3	35.2	14.1	16.7	35.5
Individual Room Heat Pumps	36.7	16.6	23.0	31.9	14.4	21.5	15.7	9.1	12.8
Furnaces	8.3	9.7	13.9	7.7	8.0	12.6	6.1	7.7	9.4
Individual Space Heaters	11.5	10.6	17.6	12.2	8.6	12.5	5.8	8.1	11.5
District Heat	39.4	20.6	20.5	36.5	19.0	19.6	37.1	15.1	5.9
Boilers	13.4	10.1	12.1	10.3	6.7	13.4	11.2	7.7	11.8
Packaged Heating Units	12.5	9.6	9.4	9.2	6.5	9.8	9.9	6.3	6.6
Other	17.5	23.8	20.3	16.3	22.1	23.3	14.4	8.7	17.2
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	11.6	13.3	28.4	10.1	7.0	22.5	7.2	10.9	27.8
Heat Pumps	16.6	13.7	20.6	14.2	10.8	16.1	10.9	9.3	11.6
Packaged Heat Pumps	25.0	17.5	27.8	19.7	12.0	19.2	12.6	12.2	16.4
Split-System Heat Pumps	17.5	24.5	53.5	22.0	17.8	35.8	9.2	17.2	36.3
Individual Room Heat Pumps	36.7	16.9	25.3	31.9	14.5	21.6	15.7	9.2	11.0
Individual Air Conditioners	13.2	9.8	16.3	10.5	8.4	15.9	8.5	7.6	14.7
District Chilled Water	68.5	20.0	22.7	67.1	16.5	19.7	73.6	12.6	8.8
Central Chillers	81.8	10.7	12.8	63.8	9.8	11.0	66.8	4.7	5.5
Packaged Air Conditioning Units	9.6	7.4	7.7	7.0	5.9	11.2	6.8	4.6	9.5
Swamp Coolers	21.8	18.0	35.0	21.7	16.9	33.4	20.8	8.8	11.8
Other	76.4	30.5	24.7	57.5	27.6	23.8	31.6	15.3	16.4

RSEs for Table C21. Electricity Consumption and Conditional Energy Intensity by Building Size for Non-Mall Buildings, 2003

	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*	5.5	6.0	8.4	5.0	4.0	8.9	5.1	4.7	5.3
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	8.6	10.1	16.4	7.2	7.0	12.9	6.4	7.1	12.0
Cooling	7.6	10.2	13.9	7.5	7.1	11.2	6.4	6.7	9.3
Water Heating Equipment									
Centralized System	6.5	7.5	8.8	5.1	4.6	10.1	5.9	5.8	6.9
Distributed System	17.0	11.7	18.4	12.4	9.3	22.5	10.6	6.8	23.1
Combination of Centralized and Distributed System	31.4	13.9	13.3	28.7	9.0	11.2	15.1	8.6	7.8
Lighting Equipment Types (more than one may apply)									
Incandescent	8.9	7.1	10.2	5.9	5.0	10.3	8.0	5.5	7.9
Standard Fluorescent	5.8	6.1	8.4	4.6	4.2	8.7	5.2	4.6	5.4
Compact Fluorescent	9.8	8.1	9.6	7.6	6.0	8.5	10.0	5.1	5.0
High Intensity Discharge	16.9	9.7	10.0	12.6	6.8	9.7	12.6	7.9	4.8
Halogen	16.3	9.4	11.2	11.8	7.5	9.6	12.3	6.4	6.2
Other	74.9	83.9	36.7	70.9	66.6	40.6	32.3	19.0	10.5
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	6.1	6.5	8.3	5.7	4.2	8.5	5.5	4.9	5.9
Commercial Refrigeration	9.3	9.9	9.8	7.7	6.6	9.4	8.0	6.2	7.4
Walk-In Units	10.3	9.9	10.0	8.4	6.6	11.1	8.6	7.8	9.3
Cases or Cabinets	11.5	11.7	11.0	8.9	8.2	8.9	8.9	7.1	6.2
Residential-Type Units	7.7	7.3	10.3	7.0	4.8	10.4	3.6	5.7	8.3
Vending Machines	11.8	7.3	8.3	10.1	5.3	7.6	9.4	4.6	4.6
No Refrigeration	8.4	13.4	60.4	8.0	11.4	43.0	6.7	11.8	17.1
Office Equipment (more than one may apply)									
Computers	7.1	6.1	8.2	5.5	4.1	8.4	5.9	4.4	5.3
With Flat Screen Monitors	11.9	8.7	9.7	9.6	6.2	8.7	7.5	5.4	4.5
Dedicated Servers	12.7	7.3	8.8	6.9	5.1	7.8	9.8	4.6	4.2
Laser Printers	8.6	6.2	10.9	6.3	5.1	9.2	8.0	5.0	7.3
Inkjet Printers	9.0	8.7	9.9	8.4	5.3	8.4	7.1	5.3	4.7
FAX Machines	7.1	6.3	8.3	5.5	4.3	8.2	6.0	4.7	5.5
Photocopiers	10.7	6.4	8.3	7.4	4.2	8.2	8.3	4.4	5.6
Number of Computers									
None	11.0	15.9	72.6	9.4	15.4	51.1	7.9	18.3	19.3
1 to 4	8.2	14.1	51.1	6.5	11.0	45.4	6.9	13.6	51.0
5 to 9	11.7	11.5	30.1	10.2	9.0	27.9	8.0	8.6	21.5
10 to 19	15.7	14.1	31.7	14.6	10.5	25.1	9.9	10.8	18.1
20 to 49	29.1	12.7	19.1	16.1	8.8	18.8	27.1	6.8	12.3
50 to 99	61.5	11.0	20.2	55.9	9.1	31.2	34.8	7.0	31.9
100 to 249	X	11.9	15.0	X	10.5	12.1	X	7.7	6.3
250 or More	0.0	23.4	10.4	0.0	19.7	9.4	0.0	16.4	5.3

RSEs for Table C21. Electricity Consumption and Conditional Energy Intensity by Building Size for Non-Mall Buildings, 2003

	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*	5.5	6.0	8.4	5.0	4.0	8.9	5.1	4.7	5.3
Number of Dedicated Servers									
None	7.1	7.9	18.5	6.2	6.7	25.0	5.4	7.0	14.7
1 to 4	8.3	7.1	8.1	6.2	5.4	10.4	6.1	5.1	8.2
5 to 9	89.3	21.1	32.9	59.2	14.8	21.3	79.5	13.3	19.5
10 to 19	75.0	23.2	17.6	62.8	16.7	14.9	43.2	11.2	9.0
20 to 49	0.0	33.2	18.9	0.0	23.4	20.0	0.0	23.3	6.6
50 or More	0.0	45.8	19.6	0.0	47.5	20.1	0.0	11.3	10.4
Number of Photocopiers									
None	6.8	11.7	28.2	7.2	10.4	34.3	6.2	10.8	7.9
One	9.7	8.3	21.4	9.0	7.2	26.1	6.6	6.8	31.1
2 to 4	14.9	9.2	12.4	11.4	5.5	12.0	10.0	6.5	6.7
5 to 9	82.2	14.8	18.0	46.7	12.2	18.9	72.7	8.6	17.2
10 or More	0.0	16.6	12.3	0.0	14.6	11.1	0.0	9.7	5.6
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	10.7	9.3	10.8	8.3	7.0	11.5	10.2	6.3	9.5
Activities with Large Amounts of Hot Water	20.4	8.9	11.3	10.1	6.0	12.3	17.1	6.7	10.8
Separate Computer Area	20.8	8.3	9.6	16.3	5.7	8.8	7.3	5.4	4.7
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	15.4	11.1	10.2	13.6	8.2	8.3	12.6	5.3	4.5
Economizer Cycle	13.4	9.7	9.7	11.4	7.7	8.1	11.6	5.0	4.4
HVAC Maintenance	7.4	6.6	8.5	5.3	4.5	9.3	6.4	4.8	5.6
Energy Management and Control System (EMCS)	32.3	10.7	10.7	28.7	9.3	8.7	21.3	5.1	5.1
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	7.1	7.5	7.5	6.7	5.4	9.1	5.3	4.9	7.2
Tinted Window Glass	9.6	7.3	10.3	6.9	5.2	9.8	7.7	5.8	4.0
Reflective Window Glass	19.4	15.6	14.3	15.9	10.3	10.3	15.8	12.2	8.2
External Overhangs or Awnings	9.9	10.3	16.1	8.7	7.3	14.2	6.1	6.6	11.5
Skylights or Atriums	17.1	12.2	11.4	13.1	9.4	9.2	14.9	8.7	7.9
Daylighting Sensors	76.1	22.6	22.2	35.4	21.2	17.3	69.6	9.5	12.0
Specular Reflectors	10.6	8.9	9.7	9.5	6.0	9.4	9.6	5.8	5.4
Electronic Ballasts	8.3	7.0	8.9	7.1	4.3	8.3	6.9	4.8	4.3
Energy Management and Control System (EMCS) For Lighting	66.8	19.8	12.6	68.3	21.3	14.2	48.6	8.7	7.6
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	7.9	6.6	9.7	5.7	4.6	9.5	7.7	5.5	7.2
Cooling	7.9	6.9	9.7	6.2	4.5	9.2	7.0	4.9	6.8
Lighting	4.8	6.8	10.3	5.1	4.0	10.6	4.1	5.4	5.4
Office Equipment	8.4	9.9	20.2	7.7	6.1	18.4	4.7	8.7	14.7

RSEs for Table C21. Electricity Consumption and Conditional Energy Intensity by Building Size for Non-Mall Buildings, 2003

	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*	5.5	6.0	8.4	5.0	4.0	8.9	5.1	4.7	5.3
Annual Consumption (kilowatthours)									
10,000 or Less	10.3	36.7	108.0	11.1	38.8	108.0	5.1	24.4	0.0
10,001 to 50,000	7.2	14.4	100.1	7.4	14.3	100.1	3.4	6.4	0.0
50,001 to 100,000	9.3	10.3	58.9	10.1	10.6	66.1	3.7	4.1	24.8
100,001 to 500,000	7.2	6.4	32.0	8.5	5.4	36.9	6.2	4.0	25.5
500,001 to 1,000,000	33.6	8.6	18.9	38.9	7.9	18.3	16.3	4.7	9.1
1,000,001 to 5,000,000	100.4	10.4	10.0	100.4	9.0	7.8	0.0	4.5	4.6
Over 5,000,000	0.0	98.6	11.5	0.0	98.6	12.2	0.0	0.0	5.7
Provider of Purchased Electricity (more than one may apply)									
Local Utility	5.6	6.3	8.2	5.1	4.0	9.6	5.2	5.0	6.1
Some Other Provider	28.4	22.6	22.9	14.3	23.6	18.6	23.9	14.0	10.8

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

RSEs for Table C22. Electricity Consumption and Conditional Energy Intensity by Year Constructed for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	11.0	6.1	7.3	9.2	4.3	6.2	8.2	4.5	5.7
Building Floorspace (Square Feet)									
1,001 to 5,000	10.5	9.5	13.4	8.6	8.0	9.4	8.0	8.8	12.3
5,001 to 10,000	16.1	10.9	24.8	12.4	9.6	13.7	10.3	8.0	18.6
10,001 to 25,000	21.6	11.9	18.6	12.0	7.2	12.1	20.7	10.3	16.2
25,001 to 50,000	19.9	12.3	16.9	17.0	8.8	12.2	13.8	8.2	13.0
50,001 to 100,000	13.0	11.1	13.7	14.0	10.5	11.0	10.4	8.4	10.5
100,001 to 200,000	30.8	12.6	18.4	31.2	11.7	18.1	34.0	8.7	8.7
200,001 to 500,000	36.1	11.1	19.9	29.6	12.3	19.0	29.8	10.1	11.5
Over 500,000	20.2	23.9	30.4	22.6	21.1	26.4	12.0	11.9	17.5
Principal Building Activity									
Education	11.2	12.0	20.9	11.9	10.1	14.7	6.7	4.7	9.6
Food Sales	45.7	23.0	24.5	31.6	21.9	27.4	22.8	9.9	15.5
Food Service	19.3	16.6	29.3	22.0	16.8	28.1	13.2	13.1	10.7
Health Care	18.2	10.4	14.7	16.7	9.8	13.7	9.6	6.7	8.9
Inpatient	23.9	11.0	24.9	21.6	10.5	25.9	8.0	6.1	6.6
Outpatient	29.9	24.5	18.9	26.3	19.7	16.2	15.7	20.5	13.8
Lodging	29.7	21.1	19.6	40.7	11.4	16.0	58.5	15.8	9.8
Retail (Other Than Mall)	22.5	18.8	20.6	17.7	13.2	16.4	16.5	10.9	13.4
Office	14.6	9.5	10.1	12.9	9.1	9.7	6.7	4.2	5.1
Public Assembly	18.6	18.5	25.9	29.8	15.8	17.9	39.9	8.0	23.4
Public Order and Safety	45.1	31.6	37.0	36.4	26.3	31.1	30.2	10.4	21.1
Religious Worship	16.4	18.2	20.2	17.7	13.1	17.2	11.2	11.0	10.2
Service	24.6	33.3	21.5	22.9	16.2	16.4	16.7	25.5	10.0
Warehouse and Storage	56.6	22.9	15.5	32.7	15.3	15.2	21.8	14.4	14.1
Other	41.4	37.1	43.0	31.6	25.0	46.0	35.4	21.7	62.5
Vacant	35.5	39.1	69.8	29.9	46.5	51.1	27.1	37.2	26.3
Census Region and Division									
Northeast	16.4	11.7	27.4	18.1	11.0	17.9	19.6	8.6	14.7
New England	20.2	28.1	50.6	24.0	28.9	35.6	22.9	21.8	30.0
Middle Atlantic	18.7	13.4	32.0	21.1	12.0	20.8	23.7	8.6	16.5
Midwest	25.7	13.1	12.1	15.7	9.0	14.2	13.3	11.3	8.6
East North Central	32.6	18.6	15.3	19.6	10.1	21.6	15.6	15.0	13.0
West North Central	25.8	12.9	19.7	23.9	21.2	15.0	13.5	15.8	10.7
South	17.4	9.4	11.0	21.1	6.8	8.7	10.4	6.7	8.9
South Atlantic	26.2	14.4	15.6	33.4	8.8	11.1	14.7	10.2	12.2
East South Central	40.1	17.1	12.8	35.1	7.3	22.4	11.4	14.3	15.7
West South Central	23.3	13.1	20.2	28.5	14.0	20.7	20.7	9.4	15.5
West	16.3	13.2	16.6	14.6	8.9	14.7	10.2	10.0	13.7
Mountain	32.1	25.9	21.7	18.8	17.7	27.4	20.8	22.0	20.1
Pacific	18.6	11.0	20.6	19.1	8.5	17.1	12.1	4.5	17.1
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	16.3	14.9	17.6	12.7	14.2	19.6	11.7	8.5	9.9
5,500-7,000 HDD	26.2	16.0	15.7	16.8	10.3	16.3	13.8	12.5	10.1
4,000-5,499 HDD	22.2	25.8	23.0	24.5	20.0	20.0	22.0	11.3	7.1
Fewer than 4,000 HDD	18.3	12.1	17.1	21.7	12.3	14.6	8.9	6.5	13.3
2,000 CDD or More and --									
Fewer than 4,000 HDD	27.9	12.7	20.2	29.2	12.3	17.0	11.0	5.5	12.4

RSEs for Table C22. Electricity Consumption and Conditional Energy Intensity by Year Constructed for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	11.0	6.1	7.3	9.2	4.3	6.2	8.2	4.5	5.7
Number of Floors									
One	25.2	6.8	7.7	15.4	6.2	7.4	13.9	5.5	7.1
Two	12.2	11.3	17.3	13.9	8.1	10.3	10.1	7.8	13.2
Three	12.5	17.0	22.6	12.5	11.3	18.4	10.3	9.9	10.9
Four to Nine	18.6	14.9	21.6	22.2	10.5	17.9	17.8	7.3	8.2
Ten or More	18.3	18.5	30.3	18.2	18.1	32.0	9.6	9.0	9.2
Elevators and Escalators (more than one may apply)									
Any Elevators	12.0	10.0	10.5	12.3	7.8	8.5	10.2	4.5	6.5
Number of Elevators									
One	16.1	14.5	12.9	15.9	12.3	12.4	10.9	7.6	7.3
Two to Five	16.2	11.0	19.2	19.2	8.9	15.5	20.2	5.6	7.9
Six or More	21.3	18.5	26.7	23.4	16.6	20.3	6.5	9.3	16.1
Any Escalators	59.9	30.3	53.8	50.6	22.8	38.0	40.2	15.3	35.5
Number of Workers (main shift)									
Fewer than 5	32.6	9.7	11.6	15.4	11.0	9.9	18.5	11.3	12.4
5 to 9	10.9	12.6	14.4	13.5	10.5	14.4	12.0	9.9	12.8
10 to 19	18.4	9.1	12.6	24.7	8.5	12.0	26.9	9.8	10.8
20 to 49	14.0	11.2	16.8	20.9	9.1	16.8	20.8	8.3	9.4
50 to 99	30.1	10.5	12.8	11.7	10.9	12.5	29.6	5.4	7.2
100 to 249	18.7	13.3	16.6	20.9	12.6	12.2	15.1	7.7	13.2
250 or More	17.3	14.4	19.4	18.7	12.8	16.6	9.5	6.6	8.6
Weekly Operating Hours									
Fewer than 40	14.1	15.3	20.4	12.9	18.7	15.8	11.5	16.8	13.5
40 to 48	13.1	13.6	13.6	14.5	9.6	9.2	16.1	7.9	13.8
49 to 60	28.2	10.4	11.6	15.5	7.9	11.0	13.4	6.3	5.7
61 to 84	14.3	10.9	15.8	16.3	9.3	15.9	9.7	6.7	12.9
85 to 167	28.0	8.4	17.4	20.3	10.4	15.5	19.9	8.3	9.3
Open Continuously	13.5	12.2	13.7	15.1	8.1	10.8	14.0	7.1	8.0
Ownership and Occupancy									
Nongovernment Owned	8.6	6.4	7.1	10.1	4.5	5.9	9.3	5.0	6.1
Owner Occupied	10.1	8.0	11.8	10.9	6.8	8.5	9.3	5.0	6.9
Nonowner Occupied	15.9	8.4	11.0	13.5	6.5	10.5	14.4	6.1	8.7
Unoccupied	83.8	44.0	80.2	54.8	52.3	56.5	86.2	33.4	29.0
Government Owned	25.4	11.5	15.5	15.5	7.9	11.9	11.8	7.3	8.0
Federal	62.3	46.4	31.4	54.5	32.0	28.9	8.5	27.6	11.7
State	26.8	15.9	39.8	23.2	14.2	28.9	14.3	8.2	12.2
Local	12.7	13.8	14.2	12.7	11.1	12.4	9.0	6.4	10.6
Vacancy Status									
Completely Vacant	52.1	44.0	80.2	39.6	52.3	56.5	47.9	33.4	29.0
Mostly Vacant	45.6	70.7	73.0	47.7	62.8	79.7	34.4	59.3	37.7
Partially Vacant	14.5	10.9	15.0	13.5	10.9	13.7	9.1	5.0	7.5
Not At All Vacant	13.2	6.5	8.3	11.2	4.4	6.4	10.6	4.8	6.2
Number of Establishments									
One	14.2	6.7	7.4	12.5	4.8	6.7	11.7	5.2	5.9
2 to 5	14.6	10.9	11.9	11.2	8.8	11.6	11.1	7.1	8.3
6 to 10	26.9	20.1	45.6	29.4	15.6	41.4	15.2	13.0	12.0
11 to 20	41.3	23.6	32.5	51.6	21.2	28.7	19.4	10.2	19.5
More than 20	19.4	20.0	54.5	22.0	22.3	30.1	11.7	6.7	40.4
Currently Unoccupied	52.1	44.0	80.2	39.6	52.3	56.5	47.9	33.4	29.0

RSEs for Table C22. Electricity Consumption and Conditional Energy Intensity by Year Constructed for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	11.0	6.1	7.3	9.2	4.3	6.2	8.2	4.5	5.7
Predominant Exterior Wall Material									
Brick, Stone or Stucco	13.9	7.1	9.0	10.9	5.8	9.0	9.9	4.1	5.8
Concrete (Block or Poured)	15.3	11.1	15.4	13.3	10.6	14.5	10.6	9.6	10.7
Concrete Panels	41.8	24.3	21.1	39.8	16.8	15.6	12.3	12.5	13.5
Siding or Shingles	22.2	19.2	25.8	13.9	17.4	11.7	19.7	19.1	24.7
Metal Panels	59.8	15.6	20.4	39.2	11.5	11.9	20.6	11.0	18.6
Window Glass	92.4	29.3	36.5	81.8	27.1	34.9	63.7	10.6	23.3
Other	85.7	30.8	48.4	56.2	28.2	39.9	101.1	12.5	14.7
No One Major Type	72.6	41.1	55.4	61.9	33.9	55.7	50.3	21.0	77.1
Predominant Roof Material									
Built-Up	11.4	8.7	15.4	8.9	6.5	15.8	9.2	6.2	13.6
Shingles (Not Wood)	22.2	9.9	13.1	10.2	6.0	10.9	18.7	9.7	11.1
Metal Surfacing	20.1	11.6	14.6	19.2	10.3	10.0	14.3	8.1	10.2
Synthetic or Rubber	12.5	11.7	12.3	11.3	8.9	12.0	8.0	6.9	6.9
Slate or Tile	21.5	21.3	21.0	17.9	21.3	18.8	14.7	15.6	17.8
Wooden Materials	24.9	30.1	69.2	36.8	28.0	61.1	23.7	17.8	20.0
Concrete	68.5	35.8	51.1	61.4	29.0	40.4	108.9	23.3	27.2
Other	100.2	35.6	39.8	100.2	36.9	41.2	0.0	22.6	18.4
No One Major Type	41.9	55.0	51.6	56.8	42.6	48.2	42.1	41.9	44.4
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	10.4	8.7	0.0	9.0	7.0	0.0	8.0	5.6	0.0
Addition or Annex	14.8	12.1	0.0	17.2	9.4	0.0	17.8	7.9	0.0
Reduction In Floorspace	38.8	36.6	0.0	33.5	31.9	0.0	20.6	23.2	0.0
Cosmetic Improvements	11.3	9.6	0.0	9.7	8.5	0.0	9.3	6.0	0.0
Wall or Roof Replacement	13.6	12.9	0.0	13.1	11.8	0.0	12.4	7.7	0.0
Interior Wall Re-Configuration	12.3	10.2	0.0	11.7	9.0	0.0	11.2	6.3	0.0
HVAC Equipment Upgrade	11.8	10.0	0.0	9.5	8.8	0.0	7.4	5.9	0.0
Lighting Upgrade	12.8	11.2	0.0	10.8	9.8	0.0	10.9	6.8	0.0
Window Replacement	13.7	16.4	0.0	12.3	12.7	0.0	13.4	10.6	0.0
Plumbing System Upgrade	14.0	12.5	0.0	12.9	12.3	0.0	12.3	6.9	0.0
Insulation Upgrade	14.5	17.5	0.0	14.6	16.6	0.0	11.2	12.8	0.0
Other Renovation	36.2	47.9	0.0	30.3	43.5	0.0	29.1	15.7	0.0
No Renovations Since 1980	21.3	11.1	0.0	12.8	6.6	0.0	13.1	8.9	0.0
Building Newer than 1980	0.0	8.6	7.3	0.0	7.1	6.2	0.0	5.2	5.7
Energy Sources (more than one may apply)									
Electricity	11.0	6.1	7.3	9.2	4.3	6.2	8.2	4.5	5.7
Natural Gas	9.9	8.5	8.4	10.2	5.9	8.4	9.8	5.2	7.8
Fuel Oil	20.8	11.8	14.8	14.9	9.9	14.5	11.0	6.4	8.3
District Heat	38.6	14.2	39.2	30.7	14.9	30.8	11.0	7.4	9.0
District Chilled Water	33.3	13.6	47.7	33.5	14.7	36.3	11.7	9.0	14.3
Propane	47.4	15.3	20.4	30.5	14.2	19.3	16.4	8.6	18.2
Other	27.8	31.4	52.7	25.1	23.8	28.3	14.6	17.0	37.7

RSEs for Table C22. Electricity Consumption and Conditional Energy Intensity by Year Constructed for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	11.0	6.1	7.3	9.2	4.3	6.2	8.2	4.5	5.7
Space-Heating Energy Sources									
Electricity	11.6	8.6	8.6	11.5	6.1	7.5	7.7	5.3	6.9
Electricity Main	22.2	8.4	11.6	22.7	8.0	9.9	12.2	4.3	8.7
Electricity Secondary	12.3	17.8	15.9	12.1	10.4	10.0	8.3	10.1	11.0
Other Excluding Electricity	16.3	7.4	10.3	13.2	6.8	9.4	13.7	6.1	8.2
Buildings without Heating	21.5	28.0	33.3	20.2	19.7	21.7	21.5	25.9	20.3
Primary Space-Heating Energy Source									
Electricity	22.2	8.4	11.6	22.7	8.0	9.9	12.2	4.3	8.7
Natural Gas	10.2	9.8	9.0	8.3	6.4	8.0	8.3	6.8	9.1
Fuel Oil	21.6	19.1	54.5	42.7	18.1	47.7	44.7	11.3	45.6
District Heat	39.6	14.7	41.1	32.3	14.9	33.2	9.1	7.9	8.8
Propane	45.3	26.0	47.1	28.1	28.5	23.0	36.2	8.1	41.1
Other	46.6	32.2	68.8	36.2	29.2	54.3	20.6	17.4	34.8
Cooling Energy Sources									
Electricity	9.0	6.6	6.9	9.9	4.9	6.2	8.1	4.0	6.2
Other Excluding Electricity	21.0	17.5	48.5	27.4	19.6	36.3	22.6	9.7	15.7
Buildings without Cooling	52.2	17.6	20.9	22.6	20.7	19.7	28.2	16.4	19.7
Water-Heating Energy Sources									
Electricity	15.2	7.3	11.2	11.1	6.8	7.7	12.0	4.4	9.6
Other Excluding Electricity	8.7	10.1	10.1	10.9	6.4	8.5	8.2	7.1	5.9
Bldgs without Water Heating	57.0	20.0	14.4	28.4	12.4	15.3	24.5	16.9	12.6
Cooking Energy Sources									
Electricity	14.3	11.1	14.6	13.9	9.2	11.0	8.9	6.4	8.5
Other Excluding Electricity	21.4	19.3	18.0	31.3	12.1	15.2	37.8	11.9	11.4
Buildings without Cooking	16.3	6.8	9.4	9.5	5.1	7.5	10.0	5.3	6.4
Energy End Uses (more than one may apply)									
Buildings with Space Heating	11.4	6.2	7.4	9.5	4.3	6.5	8.5	4.6	6.0
Buildings with Cooling	8.6	6.4	7.3	9.7	4.7	6.5	7.7	3.8	5.9
Buildings with Water Heating	8.3	6.3	7.4	9.3	4.3	6.4	8.1	4.5	5.9
Buildings with Cooking	13.3	9.4	12.1	18.0	7.1	9.0	15.5	5.4	7.8
Buildings with Manufacturing	28.4	26.0	39.4	24.3	21.1	28.5	16.5	14.4	26.5
Buildings with Electricity Generation	16.4	9.9	9.7	17.1	8.6	10.1	10.8	5.4	5.2
Percent of Floorspace Heated									
Not Heated	21.5	28.0	33.3	20.2	19.7	21.7	21.5	25.9	20.3
1 to 50	25.8	18.7	26.2	23.1	13.7	15.4	12.1	13.5	24.7
51 to 99	17.5	14.2	14.0	13.7	13.3	11.6	12.0	6.6	10.1
100	13.7	7.4	8.8	12.7	4.7	7.3	11.4	5.2	5.7
Percent of Floorspace Cooled									
Not Cooled	52.2	17.6	20.9	22.6	20.7	19.7	28.2	16.4	19.7
1 to 50	11.5	14.6	14.5	12.6	10.7	10.3	10.0	8.7	15.2
51 to 99	12.6	9.8	13.2	15.2	8.2	11.0	14.2	6.2	7.3
100	12.9	8.9	9.4	10.2	6.3	7.8	9.2	4.9	5.5

RSEs for Table C22. Electricity Consumption and Conditional Energy Intensity by Year Constructed for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	11.0	6.1	7.3	9.2	4.3	6.2	8.2	4.5	5.7
Percent Lit When Open									
Zero	62.8	93.5	42.2	58.8	53.7	43.2	21.7	100.4	17.9
1 to 50	11.3	13.7	19.1	12.4	10.2	13.2	15.1	9.1	14.2
51 to 99	11.5	8.0	13.7	10.4	6.3	10.8	8.3	5.3	6.3
100	18.6	8.6	8.2	13.5	5.6	6.5	11.8	5.2	7.5
Building Never Open/ Electricity Not Used	38.8	39.5	73.1	33.0	50.3	51.9	37.7	31.6	26.9
Percent Lit When Closed									
Zero	31.3	7.5	16.8	14.0	7.1	10.7	18.3	6.6	11.6
1 to 50	12.0	6.9	9.7	10.9	5.1	9.4	9.6	5.1	5.8
51 to 100	36.1	19.5	30.8	25.7	17.4	20.1	19.6	12.0	26.8
Building Never Closed/ Electricity Not Used	13.5	12.2	13.7	15.1	8.1	10.8	14.0	7.1	8.0
Heating Equipment (more than one may apply)									
Heat Pumps	20.8	18.9	17.8	22.5	13.2	10.3	11.1	11.3	13.4
Packaged Heat Pumps	27.3	23.8	21.4	28.5	16.3	11.3	10.0	13.2	17.9
Split-System Heat Pumps	30.3	41.9	29.3	29.5	24.3	21.1	11.2	30.2	19.7
Individual Room Heat Pumps	23.2	21.7	23.8	25.4	23.0	19.3	19.5	10.1	15.4
Furnaces	10.9	8.3	12.3	10.5	6.2	10.5	7.4	7.8	10.6
Individual Space Heaters	15.7	13.1	12.1	13.9	7.7	10.0	9.3	9.8	9.1
District Heat	38.7	14.6	39.2	30.8	15.1	30.8	11.1	7.7	9.0
Boilers	13.0	12.3	14.2	16.2	8.7	10.3	15.4	6.1	10.0
Packaged Heating Units	11.7	7.3	10.5	13.2	7.0	8.5	8.0	5.1	8.1
Other	32.6	17.2	22.3	25.7	16.5	27.9	30.7	7.8	23.9
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	12.5	17.1	26.0	16.7	9.0	11.0	13.0	13.5	22.0
Heat Pumps	21.2	19.2	14.8	22.8	13.3	11.0	10.6	11.4	11.3
Packaged Heat Pumps	27.1	24.4	22.6	29.0	16.9	13.5	11.9	13.3	17.8
Split-System Heat Pumps	29.3	43.7	28.8	28.0	25.1	20.3	10.7	31.8	17.7
Individual Room Heat Pumps	24.9	20.9	22.1	26.7	21.8	13.9	17.5	9.9	16.4
Individual Air Conditioners	12.1	11.1	24.1	14.6	9.5	16.6	10.1	7.0	15.3
District Chilled Water	33.3	13.6	47.7	33.5	14.7	36.3	11.7	9.0	14.3
Central Chillers	15.1	14.0	15.8	15.7	11.2	12.7	6.6	5.8	8.3
Packaged Air Conditioning Units	11.3	6.9	8.3	14.5	6.2	9.1	14.4	4.1	7.5
Swamp Coolers	28.7	15.7	41.3	39.3	16.9	34.7	22.1	7.5	10.0
Other	55.8	26.1	37.9	36.4	28.0	30.0	45.0	12.5	21.4
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	10.6	9.8	0.0	9.9	6.6	0.0	6.8	7.1	0.0
Cooling	11.9	8.7	0.0	10.6	6.2	0.0	8.7	5.6	0.0
Water Heating Equipment									
Centralized System	10.3	7.4	8.2	9.4	5.0	6.5	8.9	5.2	6.8
Distributed System	16.9	12.6	13.3	23.5	10.9	11.4	20.7	6.2	9.2
Combination of Centralized and Distributed System	15.4	15.2	17.0	16.8	11.6	15.3	9.0	9.0	10.0

RSEs for Table C22. Electricity Consumption and Conditional Energy Intensity by Year Constructed for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	11.0	6.1	7.3	9.2	4.3	6.2	8.2	4.5	5.7
Lighting Equipment Types (more than one may apply)									
Incandescent	8.3	7.7	10.4	11.3	5.5	8.0	9.9	4.9	8.2
Standard Fluorescent	11.4	6.2	7.5	9.5	4.2	6.5	8.5	4.5	6.1
Compact Fluorescent	9.8	8.9	9.7	11.4	6.8	7.1	9.7	4.5	7.3
High Intensity Discharge	22.7	9.7	10.2	15.0	7.4	7.7	9.5	5.4	8.9
Halogen	15.7	11.0	10.8	13.7	9.2	7.2	11.6	5.2	10.1
Other	85.1	46.7	58.4	71.8	41.3	65.1	42.8	18.8	49.2
Refrigeration Equipment (more than one may apply)[a]									
Any Refrigeration	8.5	6.5	7.5	9.7	4.6	6.6	8.2	4.5	5.7
Commercial Refrigeration	10.3	8.6	10.2	14.3	7.3	7.3	12.7	4.8	7.1
Walk-In Units	13.0	9.3	11.0	20.3	7.7	8.3	20.9	5.5	8.2
Cases or Cabinets	12.6	9.8	10.9	11.9	8.0	7.1	9.3	5.5	8.4
Residential-Type Units	8.7	7.7	9.9	11.3	5.2	7.4	10.5	5.0	7.0
Vending Machines	10.1	7.7	8.4	10.2	6.0	7.3	8.5	4.5	6.1
No Refrigeration	44.0	11.5	22.5	20.5	10.2	14.2	22.8	8.3	18.9
Office Equipment (more than one may apply)									
Computers	10.0	6.5	7.6	9.5	4.6	6.5	8.9	4.3	5.5
With Flat Screen Monitors	12.3	8.9	9.6	11.4	6.9	8.1	9.1	4.5	5.9
Dedicated Servers	10.1	7.4	9.3	10.1	5.7	7.5	9.0	4.2	6.2
Laser Printers	8.8	8.6	9.8	9.6	5.4	8.7	8.4	6.3	6.5
Inkjet Printers	10.9	8.6	8.5	9.0	7.1	6.2	8.4	4.6	6.5
FAX Machines	8.6	6.6	7.6	9.5	4.6	7.0	9.0	4.2	6.1
Photocopiers	9.5	6.9	8.4	10.2	5.0	7.5	9.9	3.9	5.8
Number of Computers									
None	25.8	12.4	17.8	14.8	15.1	12.2	15.7	14.4	17.4
1 to 4	24.8	10.8	13.9	15.0	8.5	10.2	18.8	10.2	13.8
5 to 9	18.1	9.6	12.7	19.1	7.7	10.9	11.5	9.3	8.1
10 to 19	38.1	12.2	19.0	24.8	11.4	16.7	36.7	8.7	12.0
20 to 49	18.6	13.1	17.8	17.6	11.9	13.0	10.9	6.0	12.9
50 to 99	21.8	14.3	15.4	29.5	15.1	16.4	35.8	9.9	8.8
100 to 249	17.4	14.4	17.5	15.9	12.7	14.9	9.4	6.2	7.0
250 or More	17.1	12.9	17.6	18.1	10.5	15.0	10.3	6.8	8.8
Number of Dedicated Servers									
None	20.0	7.6	9.3	11.5	7.3	8.0	13.1	8.2	9.1
1 to 4	14.0	7.0	9.7	14.5	6.6	8.7	13.9	4.7	5.8
5 to 9	23.4	31.4	29.1	27.2	21.5	18.1	15.1	16.0	18.7
10 to 19	24.4	16.2	36.1	24.9	14.4	33.4	12.6	7.3	14.7
20 to 49	29.4	19.7	30.9	29.0	18.3	32.2	10.8	9.3	14.9
50 or More	39.3	26.2	29.8	39.5	22.8	30.3	17.9	14.8	16.2
Number of Photocopiers									
None	27.2	8.1	11.0	14.9	9.2	10.0	14.9	11.2	9.6
One	18.1	8.5	11.9	15.3	7.9	9.8	19.4	6.2	6.3
2 to 4	12.6	10.1	14.8	10.4	8.1	12.2	8.7	5.1	10.8
5 to 9	20.9	12.6	25.4	37.3	12.7	21.9	51.2	7.4	10.7
10 or More	16.1	13.6	14.5	17.7	11.3	14.1	9.3	6.3	9.6

RSEs for Table C22. Electricity Consumption and Conditional Energy Intensity by Year Constructed for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	11.0	6.1	7.3	9.2	4.3	6.2	8.2	4.5	5.7
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	13.4	9.4	12.1	18.1	7.1	9.0	15.6	5.4	7.8
Activities with Large Amounts of Hot Water	13.6	9.8	13.9	21.8	6.7	10.2	24.4	6.1	8.7
Separate Computer Area	12.0	9.4	10.8	12.1	7.1	7.8	10.4	4.8	7.6
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	12.2	10.8	11.7	11.7	8.4	10.3	7.7	5.5	5.2
Economizer Cycle	14.7	9.4	9.2	11.6	7.7	8.7	9.5	4.4	5.8
HVAC Maintenance	12.5	6.9	7.6	11.2	5.0	7.0	10.3	4.4	6.2
Energy Management and Control System (EMCS)	16.9	12.2	8.0	14.0	9.7	8.7	8.8	6.5	4.1
Window and Interior Lighting Features (more than one may apply)									
Multipaned Windows	9.0	7.7	7.3	13.3	6.1	6.7	12.0	4.8	6.1
Tinted Window Glass	21.4	8.8	9.2	14.8	6.0	7.0	9.5	5.6	6.7
Reflective Window Glass	27.7	14.4	14.1	14.0	10.8	12.5	17.6	8.9	10.4
External Overhangs or Awnings	12.1	10.0	16.3	16.5	7.5	11.3	13.9	6.8	10.3
Skylights or Atriums	12.8	11.2	15.5	15.8	8.7	12.1	18.4	6.4	9.8
Daylighting Sensors	37.3	26.1	24.5	26.8	20.1	18.3	26.4	13.7	18.7
Specular Reflectors	18.8	9.7	11.5	13.3	6.8	8.5	11.5	5.5	8.1
Electronic Ballasts	12.9	7.0	8.6	9.5	5.2	6.7	8.3	4.5	6.7
Energy Management and Control System (EMCS) For Lighting	39.1	16.2	11.4	35.1	17.0	13.2	24.5	7.8	10.3
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	8.9	7.5	7.6	9.2	5.1	7.0	10.1	5.4	5.7
Cooling	9.4	7.5	8.7	10.3	5.2	7.5	9.3	4.5	5.6
Lighting	14.1	5.7	9.1	9.9	4.9	7.6	9.1	3.6	5.6
Office Equipment	18.2	9.7	13.5	12.4	7.5	11.3	14.0	7.2	10.9
Annual Consumption (kilowatthours)									
10,000 or Less	14.0	14.3	21.9	15.7	28.6	27.0	13.0	18.6	15.6
10,001 to 50,000	10.3	9.4	9.9	10.0	10.9	13.9	9.6	6.2	10.6
50,001 to 100,000	14.6	9.8	11.5	21.9	8.6	11.1	18.1	8.2	8.6
100,001 to 500,000	11.3	8.6	9.4	17.0	7.9	12.9	13.7	6.7	11.2
500,001 to 1,000,000	17.8	10.9	15.5	15.0	10.0	13.1	12.5	7.4	9.9
1,000,001 to 5,000,000	23.5	10.0	12.1	18.0	7.8	10.8	10.8	5.0	7.5
Over 5,000,000	23.7	16.1	17.5	24.1	15.3	15.4	10.3	6.9	10.6

RSEs for Table C22. Electricity Consumption and Conditional Energy Intensity by Year Constructed for Non-Mall Buildings, 2003

	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 2003**	**1959 or Before**	**1960 to 1989**	**1990 to 2003**	**1959 or Before**	**1960 to 1989**	**1990 to 2003**
All Buildings*	11.0	6.1	7.3	9.2	4.3	6.2	8.2	4.5	5.7
Provider of Purchased Electricity (more than one may apply)									
Local Utility	11.9	6.1	7.7	9.8	4.5	6.1	8.8	4.6	6.3
Some Other Provider	31.2	25.7	24.1	25.8	20.7	24.7	11.6	12.7	14.1

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

RSEs for Table C23. Total Natural Gas Consumption and Expenditures in Non-Mall Buildings, 2003

	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*	5.3	4.7	4.5	5.7	5.7	5.2
Building Floorspace (Square Feet)						
1,001 to 5,000	7.2	7.4	2.6	9.0	9.0	8.5
5,001 to 10,000	9.6	9.3	1.7	12.7	12.7	11.3
10,001 to 25,000	7.2	7.2	1.7	9.9	9.9	9.9
25,001 to 50,000	7.2	7.0	1.2	12.4	12.4	8.7
50,001 to 100,000	8.3	8.4	1.3	10.1	10.1	10.0
100,001 to 200,000	14.3	14.1	2.9	16.9	16.9	13.8
200,001 to 500,000	12.5	12.1	2.3	12.8	12.8	13.9
Over 500,000	17.8	18.7	5.2	20.3	20.3	26.2
Principal Building Activity						
Education	10.7	7.0	8.3	10.4	10.4	10.5
Food Sales	18.5	16.1	18.3	20.8	20.8	23.8
Food Service	10.0	11.0	7.7	12.2	12.2	12.0
Health Care	17.3	11.5	15.5	13.7	13.7	11.6
Inpatient	28.3	14.2	22.3	15.2	15.2	13.6
Outpatient	18.9	14.5	14.0	23.8	23.8	22.9
Lodging	12.0	13.9	14.6	15.1	15.1	17.1
Retail (Other Than Mall)	10.9	12.2	9.3	17.1	17.1	14.6
Office	7.6	8.8	9.8	12.9	12.9	13.9
Public Assembly	12.3	14.9	16.2	15.9	15.9	13.1
Public Order and Safety	24.3	18.5	23.9	21.4	21.4	26.7
Religious Worship	11.3	11.1	8.9	11.3	11.3	10.4
Service	13.5	17.0	14.3	17.5	17.5	18.0
Warehouse and Storage	13.7	12.5	10.3	20.4	20.4	15.5
Other	24.1	25.0	28.4	31.2	31.2	31.8
Vacant	28.8	27.0	22.1	25.6	25.6	27.1
Year Constructed						
Before 1920	12.4	13.6	13.6	14.8	14.8	14.5
1920 to 1945	10.8	12.4	10.2	15.3	15.3	16.2
1946 to 1959	12.1	11.1	12.1	14.6	14.6	8.9
1960 to 1969	10.8	9.3	8.4	9.0	9.0	9.7
1970 to 1979	8.5	9.3	9.1	9.8	9.8	9.7
1980 to 1989	9.7	9.3	10.7	14.3	14.3	16.6
1990 to 1999	10.9	8.9	7.2	10.6	10.6	9.2
2000 to 2003	16.8	11.0	15.7	17.6	17.6	16.9
Census Region and Division						
Northeast	6.4	10.1	8.7	10.0	10.0	10.8
New England	19.6	29.1	11.9	29.5	29.5	27.1
Middle Atlantic	6.4	10.5	10.4	10.7	10.7	12.1
Midwest	8.6	6.3	6.3	6.9	6.9	5.9
East North Central	11.2	6.0	7.7	5.1	5.1	4.9
West North Central	9.5	16.8	11.4	22.1	22.1	18.1
South	10.9	10.0	9.5	12.5	12.5	9.8
South Atlantic	16.9	16.3	13.2	24.7	24.7	15.7
East South Central	24.8	9.4	16.9	16.5	16.5	20.1
West South Central	15.4	17.1	18.3	14.9	14.9	14.5
West	11.3	8.1	11.2	14.5	14.5	15.9
Mountain	15.8	14.7	19.7	22.1	22.1	25.8
Pacific	15.9	9.1	12.7	16.2	16.2	15.8

RSEs for Table C23. Total Natural Gas Consumption and Expenditures in Non-Mall Buildings, 2003

	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*	5.3	4.7	4.5	5.7	5.7	5.2
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	12.5	12.1	7.1	13.3	13.3	12.8
5,500-7,000 HDD	10.0	7.5	7.6	6.8	6.8	8.2
4,000-5,499 HDD	14.3	16.9	10.8	21.5	21.5	21.6
Fewer than 4,000 HDD	15.8	13.3	9.2	19.1	19.1	16.4
2,000 CDD or More and --						
Fewer than 4,000 HDD	25.8	22.0	22.4	23.3	23.3	23.3
Number of Floors						
One	7.2	6.8	4.8	8.3	8.3	7.9
Two	6.8	7.1	5.6	7.4	7.4	7.3
Three	9.3	9.3	6.5	13.1	13.1	8.2
Four to Nine	14.1	11.8	10.1	10.5	10.5	10.4
Ten or More	15.4	20.2	11.8	23.2	23.2	28.3
Number of Workers (main shift)						
Fewer than 5	7.4	8.4	5.3	9.1	9.1	8.5
5 to 9	9.0	9.0	6.4	11.5	11.5	10.9
10 to 19	7.6	11.6	11.0	9.4	9.4	9.0
20 to 49	8.0	9.6	6.7	10.9	10.9	10.6
50 to 99	10.3	8.1	7.7	8.8	8.8	10.2
100 to 249	10.3	9.8	4.9	15.5	15.5	13.5
250 or More	9.6	13.1	7.7	13.8	13.8	17.3
Weekly Operating Hours						
Fewer than 40	10.8	12.5	8.8	15.8	15.8	15.5
40 to 48	8.2	8.4	10.3	10.2	10.2	10.1
49 to 60	8.4	7.1	6.1	10.9	10.9	9.4
61 to 84	8.4	8.3	6.5	8.9	8.9	9.3
85 to 167	9.2	8.0	10.1	9.4	9.4	9.3
Open Continuously	9.5	8.0	9.3	10.2	10.2	11.3
Ownership and Occupancy						
Nongovernment Owned	5.4	5.4	5.1	6.5	6.5	6.2
Owner Occupied	6.8	6.1	6.6	9.0	9.0	7.9
Nonowner Occupied	6.6	6.9	6.3	7.1	7.1	8.0
Unoccupied	34.7	32.7	30.1	27.0	27.0	28.2
Government Owned	10.9	5.8	9.1	7.7	7.7	7.6
Federal	40.3	24.9	35.1	24.0	24.0	24.9
State	29.3	15.4	20.1	20.6	20.6	21.7
Local	10.7	7.9	8.3	9.1	9.1	8.8
Vacancy Status						
Completely Vacant	34.1	31.1	28.9	27.3	27.3	27.5
Mostly Vacant	43.5	42.7	33.0	53.6	53.6	56.5
Partially Vacant	9.0	9.1	10.7	11.1	11.1	13.1
Not At All Vacant	5.8	5.3	5.0	6.4	6.4	5.7

RSEs for Table C23. Total Natural Gas Consumption and Expenditures in Non-Mall Buildings, 2003

	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*	5.3	4.7	4.5	5.7	5.7	5.2
Number of Establishments						
One	5.6	5.8	5.0	6.4	6.4	5.8
2 to 5	10.1	8.3	9.0	11.0	11.0	11.5
6 to 10	20.4	14.7	20.2	17.5	17.5	22.9
11 to 20	15.9	19.1	21.4	30.0	30.0	28.8
More than 20	45.4	21.3	71.7	37.6	37.6	46.7
Currently Unoccupied	34.1	31.1	28.9	27.3	27.3	27.5
Predominant Exterior Wall Material						
Brick, Stone or Stucco	5.9	5.7	5.6	6.5	6.5	6.3
Concrete (Block or Poured)	10.0	11.0	7.2	14.9	14.9	13.6
Concrete Panels	12.6	14.5	15.1	20.8	20.8	25.6
Siding or Shingles	10.9	13.5	11.3	11.1	11.1	11.1
Metal Panels	15.0	11.6	8.5	18.1	18.1	18.7
Window Glass	39.6	23.2	35.8	34.3	34.3	29.2
Other	26.1	24.2	30.2	27.6	27.6	29.1
No One Major Type	44.4	30.5	52.0	34.4	34.4	35.1
Predominant Roof Material						
Built-Up	7.4	6.9	6.8	9.1	9.1	8.4
Shingles (Not Wood)	7.9	7.6	7.1	11.8	11.8	12.2
Metal Surfacing	12.0	10.0	7.7	12.7	12.7	12.7
Synthetic or Rubber	7.3	7.3	9.1	7.3	7.3	7.2
Slate or Tile	12.0	13.2	11.8	16.0	16.0	14.5
Wooden Materials	31.2	24.3	23.1	27.5	27.5	24.3
Concrete	24.6	65.2	60.8	36.3	36.3	34.8
Other	36.4	31.4	30.8	37.9	37.9	43.5
No One Major Type	34.7	37.0	36.1	35.5	35.5	34.6
Renovations in Buildings Constructed Before 1980 (more than one may apply)						
Any Type of Renovation Since 1980	8.3	6.4	6.4	8.3	8.3	6.5
Addition or Annex	11.8	11.4	11.0	13.0	13.0	10.3
Reduction In Floorspace	32.4	27.7	24.4	25.3	25.3	29.6
Cosmetic Improvements	9.3	6.6	7.2	7.6	7.6	7.2
Wall or Roof Replacement	14.5	8.4	12.7	10.0	10.0	10.7
Interior Wall Re-Configuration	11.6	7.2	10.0	8.5	8.5	8.8
HVAC Equipment Upgrade	9.2	7.9	7.0	9.5	9.5	7.0
Lighting Upgrade	9.7	7.1	8.2	7.7	7.7	7.7
Window Replacement	10.7	8.3	10.1	11.7	11.7	10.9
Plumbing System Upgrade	10.3	9.1	9.8	10.1	10.1	10.3
Insulation Upgrade	15.1	12.1	14.5	10.7	10.7	10.6
Other Renovation	34.0	30.1	25.3	34.7	34.7	37.4
No Renovations Since 1980	6.7	8.0	7.2	9.3	9.3	9.7
Building Newer than 1980	8.3	6.6	6.5	8.5	8.5	9.1

RSEs for Table C23. Total Natural Gas Consumption and Expenditures in Non-Mall Buildings, 2003

	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*	5.3	4.7	4.5	5.7	5.7	5.2
Energy Sources (more than one may apply)						
Electricity	5.6	5.0	4.7	5.6	5.6	5.7
Natural Gas	5.3	4.7	4.5	5.7	5.7	5.2
Fuel Oil	15.5	10.3	16.9	13.0	13.0	14.6
District Heat	30.8	16.4	36.5	31.2	31.2	31.0
District Chilled Water	24.1	20.5	25.6	24.4	24.4	26.4
Propane	22.1	18.6	15.9	27.6	27.6	22.3
Other	26.2	21.3	24.5	24.5	24.5	25.2
Space-Heating Energy Sources						
Natural Gas	5.5	4.9	4.3	5.9	5.9	5.5
Natural Gas Main	5.6	5.1	4.5	6.1	6.1	5.6
Natural Gas Secondary	11.7	9.8	9.2	11.9	11.9	12.8
Other Excluding Natural Gas	11.1	19.2	18.1	12.5	12.5	12.4
Buildings without Heating	24.2	31.8	37.7	58.5	58.5	55.2
Primary Space-Heating Energy Source						
Electricity	9.8	9.4	8.8	9.8	9.8	9.8
Natural Gas	5.6	5.1	4.5	6.1	6.1	5.6
Fuel Oil	37.7	60.5	45.7	30.4	30.4	25.7
District Heat	33.3	17.1	40.8	33.1	33.1	36.0
Propane	X	X	X	X	X	X
Other	64.1	52.6	45.9	61.2	61.2	69.3
Cooling Energy Sources						
Natural Gas	31.5	22.8	34.3	26.7	26.7	32.4
Other Excluding Natural Gas	5.3	4.9	4.5	5.8	5.8	5.2
Buildings without Cooling	17.1	19.9	13.2	14.5	14.5	13.9
Water-Heating Energy Sources						
Natural Gas	5.1	4.9	4.6	6.5	6.5	6.0
Other Excluding Natural Gas	9.9	7.3	7.7	9.4	9.4	9.7
Bldgs without Water Heating	12.1	12.0	11.6	15.9	15.9	14.4
Cooking Energy Sources						
Natural Gas	7.8	8.3	8.3	8.2	8.2	8.5
Other Excluding Natural Gas	13.4	10.6	13.5	14.4	14.4	13.0
Buildings without Cooking	5.6	5.6	4.4	6.9	6.9	6.6
Energy End Uses (more than one may apply)						
Buildings with Space Heating	5.3	4.7	4.6	5.7	5.7	5.3
Buildings with Cooling	5.3	4.9	4.5	6.0	6.0	5.6
Buildings with Water Heating	5.3	4.8	4.5	5.8	5.8	5.3
Buildings with Cooking	7.1	7.7	7.7	7.7	7.7	7.8
Buildings with Manufacturing	14.7	15.1	16.4	23.4	23.4	19.3
Buildings with Electricity Generation	10.6	7.4	10.7	10.3	10.3	11.6

RSEs for Table C23. Total Natural Gas Consumption and Expenditures in Non-Mall Buildings, 2003

	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*	5.3	4.7	4.5	5.7	5.7	5.2
Percent of Floorspace Heated						
Not Heated	24.2	31.8	37.7	58.5	58.5	55.2
1 to 50	14.6	12.7	8.4	18.7	18.7	17.6
51 to 99	7.7	8.9	8.9	12.5	12.5	14.0
100	5.8	5.9	5.2	6.1	6.1	5.4
Percent of Floorspace Cooled						
Not Cooled	17.1	19.9	13.2	14.5	14.5	13.9
1 to 50	8.8	8.9	7.0	10.3	10.3	9.1
51 to 99	7.5	7.7	8.0	10.5	10.5	10.9
100	6.3	6.2	6.5	7.7	7.7	7.2
Heating Equipment (more than one may apply)						
Heat Pumps	12.3	11.1	12.4	19.4	19.4	18.2
Packaged Heat Pumps	16.1	16.2	16.9	27.7	27.7	28.5
Split-System Heat Pumps	21.0	19.9	21.8	19.2	19.2	21.0
Individual Room Heat Pumps	15.3	14.4	13.1	19.8	19.8	18.9
Furnaces	6.4	7.3	5.2	9.0	9.0	7.2
Individual Space Heaters	11.7	7.4	9.5	9.9	9.9	9.0
District Heat	31.2	16.7	37.6	30.7	30.7	30.6
Boilers	7.4	8.0	6.3	7.8	7.8	8.2
Packaged Heating Units	9.2	5.9	8.0	8.8	8.8	7.0
Other	18.9	19.5	20.0	20.1	20.1	18.0
Cooling Equipment (more than one may apply)						
Residential-Type Central Air Conditioners	6.8	8.5	7.9	9.4	9.4	8.8
Heat Pumps	13.6	11.2	12.6	19.1	19.1	18.0
Packaged Heat Pumps	18.2	16.7	17.7	27.1	27.1	28.4
Split-System Heat Pumps	22.2	20.1	22.1	19.3	19.3	21.1
Individual Room Heat Pumps	15.3	14.5	13.2	19.7	19.7	18.8
Individual Air Conditioners	8.1	9.0	7.1	10.1	10.1	8.2
District Chilled Water	24.1	20.5	25.6	24.4	24.4	26.4
Central Chillers	9.0	10.0	8.8	11.0	11.0	12.9
Packaged Air Conditioning Units	6.9	6.0	6.1	6.4	6.4	6.2
Swamp Coolers	20.7	17.4	12.3	18.8	18.8	20.4
Other	30.1	30.7	24.2	44.4	44.4	34.9
Main Equipment Replaced Since 1990 (more than one may apply)						
Heating	7.0	6.8	5.2	9.3	9.3	9.3
Cooling	6.2	6.7	5.8	8.1	8.1	8.1
Water Heating Equipment						
Centralized System	5.4	5.3	5.2	5.8	5.8	5.7
Distributed System	13.1	11.1	10.3	13.9	13.9	13.1
Combination of Centralized and Distributed System	10.4	7.4	11.6	12.5	12.5	13.3

RSEs for Table C23. Total Natural Gas Consumption and Expenditures in Non-Mall Buildings, 2003

	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*	5.3	4.7	4.5	5.7	5.7	5.2
Energy-Related Space Functions (more than one may apply)						
Commercial Food Preparation	7.1	7.7	7.7	7.7	7.7	7.8
Activities with Large Amounts of Hot Water	7.6	8.1	8.1	8.0	8.0	7.7
Separate Computer Area	7.7	6.1	7.7	7.5	7.5	8.8
HVAC Conservation Features (more than one may apply)						
Variable Air-Volume System	8.0	7.1	8.8	9.0	9.0	10.4
Economizer Cycle	6.7	6.2	6.6	7.1	7.1	7.9
HVAC Maintenance	5.1	5.0	4.8	6.0	6.0	5.7
Energy Management and Control System (EMCS)	10.8	7.2	9.5	9.3	9.3	10.7
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]						
Heating	6.1	5.1	5.5	6.0	6.0	6.0
Cooling	6.4	5.3	5.7	6.0	6.0	6.2
Lighting	5.7	4.5	4.3	5.8	5.8	5.0
Office Equipment	7.2	6.7	6.9	8.4	8.4	7.3
Annual Consumption (hundred cubic feet)						
1,000 or Less	9.1	14.5	11.9	8.6	8.6	9.1
1,001 to 5,000	7.3	8.0	4.5	7.7	7.7	7.6
5,001 to 10,000	8.0	8.5	6.3	8.0	8.0	7.8
10,001 to 25,000	10.2	8.1	7.4	9.0	9.0	8.9
25,001 to 50,000	10.3	11.1	11.7	9.9	9.9	10.1
50,001 to 100,000	16.4	12.5	11.6	16.6	16.6	17.2
Over 100,000	12.7	11.3	9.8	11.5	11.5	13.3
Provider of Natural Gas (more than one may apply)						
Local Utility	5.5	4.9	4.5	6.2	6.2	5.3
Some Other Provider	19.9	12.5	17.4	11.4	11.4	13.2

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

RSEs for Table C24. Natural Gas Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Natural Gas Consumption						RSEs for Natural Gas Expenditures		
				RSEs Not Available for Percentiles					
	per Building	per Square Foot	per Worker	25th Per-centile	Median	75th Per-centile	per Building	per Square Foot	per Thousand Cubic Feet
All Buildings*	5.6	3.9	4.4	_	_	_	5.8	4.2	2.4
Building Floorspace (Square Feet)									
1,001 to 5,000	6.4	6.5	9.2	_	_	_	5.8	5.8	3.1
5,001 to 10,000	10.2	9.9	10.7	_	_	_	8.5	8.3	4.6
10,001 to 25,000	9.5	9.4	10.0	_	_	_	9.5	9.3	2.9
25,001 to 50,000	8.0	8.2	10.3	_	_	_	5.6	5.7	5.8
50,001 to 100,000	7.7	7.8	8.7	_	_	_	7.9	8.0	2.7
100,001 to 200,000	10.1	11.5	11.2	_	_	_	13.6	13.5	10.5
200,001 to 500,000	13.3	12.7	13.5	_	_	_	14.7	13.9	4.4
Over 500,000	16.5	17.2	18.6	_	_	_	22.5	23.1	9.3
Principal Building Activity									
Education	11.0	7.5	8.0	_	_	_	11.2	7.8	2.9
Food Sales	21.3	17.1	10.9	_	_	_	22.8	21.3	5.4
Food Service	8.1	9.5	11.2	_	_	_	8.8	9.6	5.0
Health Care	17.9	5.7	7.8	_	_	_	17.6	11.2	11.0
Inpatient	23.2	5.7	8.0	_	_	_	37.3	15.0	13.2
Outpatient	17.8	12.4	13.2	_	_	_	18.5	10.7	6.5
Lodging	18.2	14.5	7.9	_	_	_	20.0	17.2	6.3
Retail (Other Than Mall)	12.4	12.3	12.7	_	_	_	9.9	10.0	4.7
Office	13.5	10.6	11.4	_	_	_	14.1	12.0	2.8
Public Assembly	18.8	17.7	18.8	_	_	_	14.0	16.8	7.3
Public Order and Safety	21.4	14.5	22.0	_	_	_	23.9	16.3	13.7
Religious Worship	8.9	6.7	19.3	_	_	_	7.2	5.4	3.4
Service	13.2	11.8	15.2	_	_	_	14.2	13.1	4.5
Warehouse and Storage	18.5	15.4	16.7	_	_	_	14.5	10.0	10.9
Other	34.6	29.7	27.1	_	_	_	34.4	31.9	7.0
Vacant	24.8	21.4	100.2	_	_	_	25.0	22.1	5.5
Year Constructed									
Before 1920	16.5	8.6	11.7	_	_	_	14.5	8.5	4.2
1920 to 1945	15.3	14.4	11.4	_	_	_	16.1	15.4	8.0
1946 to 1959	15.5	12.5	8.4	_	_	_	11.8	12.2	12.2
1960 to 1969	10.0	8.1	11.7	_	_	_	10.4	8.8	3.6
1970 to 1979	9.4	7.4	9.5	_	_	_	8.5	7.0	2.8
1980 to 1989	14.8	11.2	13.7	_	_	_	17.2	13.4	3.6
1990 to 1999	10.7	7.9	8.9	_	_	_	9.4	7.1	3.3
2000 to 2003	22.0	12.6	12.9	_	_	_	19.7	11.4	4.0
Census Region and Division									
Northeast	8.9	10.2	9.1	_	_	_	10.0	10.7	2.7
New England	19.8	16.8	19.7	_	_	_	21.9	22.6	8.9
Middle Atlantic	9.9	11.8	10.0	_	_	_	11.0	12.2	2.8
Midwest	9.1	6.1	8.8	_	_	_	8.3	5.7	3.8
East North Central	12.1	7.3	11.0	_	_	_	11.1	7.0	4.0
West North Central	14.8	12.5	15.6	_	_	_	12.0	8.9	10.7
South	12.6	8.1	7.7	_	_	_	10.3	8.5	6.9
South Atlantic	21.1	15.1	11.6	_	_	_	12.8	13.7	18.4
East South Central	27.5	13.6	17.6	_	_	_	25.9	15.2	4.9
West South Central	20.2	12.1	14.8	_	_	_	18.4	12.0	2.7
West	15.7	8.6	11.5	_	_	_	18.6	10.3	5.5
Mountain	24.8	9.3	17.2	_	_	_	31.4	14.2	10.8
Pacific	15.6	10.3	10.0	_	_	_	16.4	10.6	2.3

RSEs for Table C24. Natural Gas Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Natural Gas Consumption						RSEs for Natural Gas Expenditures		
				RSEs Not Available for Percentiles					
	per Building	per Square Foot	per Worker	25th Per-centile	Median	75th Per-centile	per Building	per Square Foot	per Thousand Cubic Feet
All Buildings*	5.6	3.9	4.4	_	_	_	5.8	4.2	2.4
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	10.8	5.9	9.6	_	_	_	9.6	3.7	4.2
5,500-7,000 HDD	11.1	7.3	9.0	_	_	_	12.2	8.1	3.5
4,000-5,499 HDD	12.9	12.7	13.2	_	_	_	12.6	13.3	5.7
Fewer than 4,000 HDD	15.1	9.7	8.5	_	_	_	11.5	8.3	9.9
2,000 CDD or More and --									
Fewer than 4,000 HDD	23.7	12.8	15.9	_	_	_	21.5	13.4	4.3
Number of Floors									
One	6.7	6.0	7.3	_	_	_	6.2	5.8	2.2
Two	8.3	7.3	7.7	_	_	_	8.3	7.1	3.4
Three	10.8	8.6	9.7	_	_	_	8.2	7.5	10.3
Four to Nine	13.0	9.2	9.5	_	_	_	12.4	8.6	3.1
Ten or More	19.8	20.1	21.4	_	_	_	25.3	25.3	8.0
Number of Workers (main shift)									
Fewer than 5	7.6	7.8	9.6	_	_	_	6.1	7.0	4.0
5 to 9	8.7	9.2	8.4	_	_	_	9.0	9.5	3.3
10 to 19	8.0	11.0	8.4	_	_	_	7.1	11.4	3.3
20 to 49	9.3	9.1	9.9	_	_	_	10.1	10.1	4.8
50 to 99	8.4	6.8	7.9	_	_	_	8.5	7.6	4.6
100 to 249	11.4	10.4	10.4	_	_	_	11.5	10.3	11.0
250 or More	11.4	10.9	12.0	_	_	_	15.2	14.5	5.9
Weekly Operating Hours									
Fewer than 40	10.2	12.8	17.6	_	_	_	10.2	12.7	2.9
40 to 48	10.6	9.4	8.1	_	_	_	10.7	10.2	3.3
49 to 60	10.9	8.6	9.7	_	_	_	9.2	7.2	4.5
61 to 84	6.8	7.4	7.6	_	_	_	7.5	7.6	3.1
85 to 167	8.5	9.0	10.3	_	_	_	8.2	8.9	4.2
Open Continuously	10.1	6.3	7.6	_	_	_	11.4	8.6	5.6
Ownership and Occupancy									
Nongovernment Owned	6.6	4.7	5.2	_	_	_	6.8	5.2	2.8
Owner Occupied	9.2	6.6	7.3	_	_	_	8.5	6.8	5.3
Nonowner Occupied	8.2	6.4	7.4	_	_	_	8.8	6.6	2.1
Unoccupied	28.5	26.8	0.0	_	_	_	26.8	26.9	5.9
Government Owned	9.1	5.7	6.1	_	_	_	7.9	5.6	3.2
Federal	26.3	19.7	25.6	_	_	_	31.1	29.4	17.1
State	21.8	14.0	18.3	_	_	_	20.7	14.3	5.3
Local	9.8	6.7	6.6	_	_	_	8.7	6.5	2.9
Vacancy Status									
Completely Vacant	29.5	25.8	0.0	_	_	_	27.4	25.3	5.9
Mostly Vacant	51.0	29.3	29.0	_	_	_	54.1	33.0	8.4
Partially Vacant	12.4	9.4	11.1	_	_	_	14.1	11.4	3.8
Not At All Vacant	6.2	4.4	4.6	_	_	_	6.1	4.6	2.6

RSEs for Table C24. Natural Gas Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Natural Gas Consumption						RSEs for Natural Gas Expenditures		
				RSEs Not Available for Percentiles					
	per Building	per Square Foot	per Worker	25th Per-centile	Median	75th Per-centile	per Building	per Square Foot	per Thousand Cubic Feet
All Buildings*	5.6	3.9	4.4	_	_	_	5.8	4.2	2.4
Number of Establishments									
One	6.1	5.0	5.2	_	_	_	6.1	5.1	2.8
2 to 5	11.0	7.7	8.2	_	_	_	11.9	8.8	3.2
6 to 10	25.5	14.0	17.5	_	_	_	28.8	15.1	10.7
11 to 20	32.0	25.0	26.5	_	_	_	30.8	23.5	8.5
More than 20	80.9	32.7	31.3	_	_	_	79.1	43.0	18.4
Currently Unoccupied	29.5	25.8	0.0	_	_	_	27.4	25.3	5.9
Predominant Exterior Wall Material									
Brick, Stone or Stucco	6.3	5.2	5.6	_	_	_	6.5	5.5	2.1
Concrete (Block or Poured)	11.6	10.2	10.3	_	_	_	10.8	9.8	7.9
Concrete Panels	20.9	14.5	17.5	_	_	_	24.8	19.3	7.4
Siding or Shingles	10.9	12.0	10.3	_	_	_	10.2	11.5	2.7
Metal Panels	13.6	11.9	10.6	_	_	_	14.2	12.9	4.5
Window Glass	39.9	19.1	33.4	_	_	_	36.6	21.0	15.5
Other	33.5	15.2	29.5	_	_	_	33.1	20.7	15.0
No One Major Type	50.3	28.9	29.4	_	_	_	51.1	29.3	4.3
Predominant Roof Material									
Built-Up	8.6	6.4	6.7	_	_	_	9.3	7.6	4.7
Shingles (Not Wood)	12.7	9.3	10.2	_	_	_	12.6	10.4	3.9
Metal Surfacing	11.8	9.5	10.1	_	_	_	10.8	8.4	4.1
Synthetic or Rubber	9.5	6.0	8.2	_	_	_	9.7	5.9	2.8
Slate or Tile	14.1	13.4	18.3	_	_	_	12.8	13.1	4.0
Wooden Materials	33.4	30.2	28.8	_	_	_	28.8	25.9	12.0
Concrete	23.0	116.1	29.6	_	_	_	23.1	142.4	14.1
Other	35.2	36.1	66.4	_	_	_	39.8	39.8	17.7
No One Major Type	34.2	21.9	52.9	_	_	_	27.8	19.1	18.1
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	7.9	5.3	6.1	_	_	_	7.2	4.8	4.5
Addition or Annex	10.9	9.9	6.9	_	_	_	11.0	10.2	9.2
Reduction In Floorspace	23.5	12.8	14.8	_	_	_	26.2	15.5	15.5
Cosmetic Improvements	8.1	5.7	6.5	_	_	_	8.0	4.9	3.0
Wall or Roof Replacement	13.5	7.8	8.8	_	_	_	13.0	8.0	3.4
Interior Wall Re-Configuration	9.8	6.4	7.7	_	_	_	10.8	6.9	3.0
HVAC Equipment Upgrade	9.2	6.1	7.7	_	_	_	8.6	5.3	6.3
Lighting Upgrade	8.5	5.7	7.3	_	_	_	8.8	5.8	3.0
Window Replacement	13.3	10.2	10.7	_	_	_	11.8	10.0	4.8
Plumbing System Upgrade	12.0	9.0	9.1	_	_	_	12.0	9.2	3.3
Insulation Upgrade	14.8	9.2	12.3	_	_	_	13.7	8.3	4.9
Other Renovation	32.0	25.6	23.3	_	_	_	33.5	28.4	5.7
No Renovations Since 1980	8.7	6.9	8.9	_	_	_	8.9	7.3	2.8
Building Newer than 1980	8.6	6.1	6.7	_	_	_	9.1	6.8	2.3

RSEs for Table C24. Natural Gas Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Natural Gas Consumption						RSEs for Natural Gas Expenditures		
				RSEs Not Available for Percentiles					
	per Building	per Square Foot	per Worker	25th Per-centile	Median	75th Per-centile	per Building	per Square Foot	per Thousand Cubic Feet
All Buildings*	5.6	3.9	4.4	_	_	_	5.8	4.2	2.4
Energy Sources (more than one may apply)									
Electricity	6.3	4.2	4.7	_	_	_	6.4	4.3	2.1
Natural Gas	5.6	3.9	4.4	_	_	_	5.8	4.2	2.4
Fuel Oil	17.5	9.2	11.5	_	_	_	19.5	11.6	8.1
District Heat	46.6	26.7	31.2	_	_	_	45.7	26.2	5.3
District Chilled Water	24.5	22.2	24.8	_	_	_	23.8	23.4	4.9
Propane	24.9	17.2	13.1	_	_	_	21.1	16.3	26.4
Other	35.0	13.6	24.6	_	_	_	33.5	13.9	8.8
Space-Heating Energy Sources									
Natural Gas	5.9	3.9	4.5	_	_	_	6.2	4.3	2.4
Natural Gas Main	6.1	4.1	4.5	_	_	_	6.4	4.7	2.5
Natural Gas Secondary	10.7	8.7	12.7	_	_	_	11.7	9.4	4.8
Other Excluding Natural Gas	9.4	19.3	15.1	_	_	_	9.2	21.8	4.4
Buildings without Heating	54.9	64.6	58.5	_	_	_	51.0	61.8	7.3
Primary Space-Heating Energy Source									
Electricity	8.0	7.1	10.7	_	_	_	7.9	7.2	3.3
Natural Gas	6.1	4.1	4.5	_	_	_	6.4	4.7	2.5
Fuel Oil	21.9	81.0	37.5	_	_	_	24.4	98.9	13.7
District Heat	51.1	30.4	35.4	_	_	_	51.4	32.2	7.8
Propane	X	X	X	_	_	_	X	X	X
Other	58.4	12.5	43.7	_	_	_	64.0	58.1	60.4
Cooling Energy Sources									
Natural Gas	37.2	23.1	13.1	_	_	_	40.8	28.8	11.5
Other Excluding Natural Gas	5.5	3.7	4.7	_	_	_	5.6	4.0	2.7
Buildings without Cooling	14.3	12.6	17.5	_	_	_	13.0	12.1	5.3
Water-Heating Energy Sources									
Natural Gas	5.9	4.2	4.8	_	_	_	6.2	4.4	3.0
Other Excluding Natural Gas	10.0	8.2	8.8	_	_	_	8.4	7.5	3.2
Bldgs without Water Heating	13.7	11.9	12.5	_	_	_	13.4	11.9	8.2
Cooking Energy Sources									
Natural Gas	8.1	7.5	5.7	_	_	_	9.1	8.2	4.5
Other Excluding Natural Gas	15.8	11.4	15.1	_	_	_	14.3	10.4	3.3
Buildings without Cooking	6.8	5.2	6.5	_	_	_	6.6	5.0	2.5
Energy End Uses (more than one may apply)									
Buildings with Space Heating	5.6	4.0	4.4	_	_	_	5.8	4.2	2.4
Buildings with Cooling	5.7	3.8	4.5	_	_	_	6.0	4.2	2.6
Buildings with Water Heating	5.5	4.0	4.4	_	_	_	5.7	4.2	2.4
Buildings with Cooking	7.8	6.7	6.1	_	_	_	8.3	7.3	3.9
Buildings with Manufacturing	25.8	16.2	20.9	_	_	_	21.9	11.7	12.8
Buildings with Electricity Generation	11.8	7.2	9.5	_	_	_	13.1	9.5	6.5

RSEs for Table C24. Natural Gas Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Natural Gas Consumption						RSEs for Natural Gas Expenditures		
				RSEs Not Available for Percentiles					
	per Building	per Square Foot	per Worker	25th Per-centile	Median	75th Per-centile	per Building	per Square Foot	per Thousand Cubic Feet
All Buildings*	5.6	3.9	4.4	_	_	_	5.8	4.2	2.4
Percent of Floorspace Heated									
Not Heated	54.9	64.6	58.5	_	_	_	51.0	61.8	7.3
1 to 50	14.2	11.7	13.4	_	_	_	13.8	11.7	3.8
51 to 99	12.5	9.6	10.2	_	_	_	14.1	11.1	4.0
100	5.5	4.4	4.7	_	_	_	5.7	4.8	2.7
Percent of Floorspace Cooled									
Not Cooled	14.3	12.6	17.5	_	_	_	13.0	12.1	5.3
1 to 50	9.4	6.9	8.4	_	_	_	8.5	6.7	4.3
51 to 99	9.9	8.3	8.0	_	_	_	10.6	8.7	3.3
100	7.6	5.5	6.4	_	_	_	7.5	5.8	4.0
Heating Equipment (more than one may apply)									
Heat Pumps	19.0	14.3	14.4	_	_	_	18.5	14.9	13.3
Packaged Heat Pumps	25.4	21.0	22.5	_	_	_	30.0	26.3	24.4
Split-System Heat Pumps	26.8	17.8	17.2	_	_	_	27.8	22.1	7.0
Individual Room Heat Pumps	18.0	16.4	20.2	_	_	_	16.4	14.3	9.1
Furnaces	6.8	5.0	5.9	_	_	_	5.5	5.2	4.2
Individual Space Heaters	11.0	6.6	8.5	_	_	_	10.6	5.6	4.2
District Heat	47.1	27.5	32.8	_	_	_	45.9	26.8	7.1
Boilers	7.0	6.4	6.0	_	_	_	7.7	7.2	3.5
Packaged Heating Units	8.8	6.6	6.6	_	_	_	8.7	5.9	5.5
Other	16.2	17.0	21.8	_	_	_	15.1	14.9	7.4
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	8.8	8.7	8.2	_	_	_	8.2	9.0	4.8
Heat Pumps	18.5	13.8	14.0	_	_	_	18.7	15.0	13.1
Packaged Heat Pumps	25.4	19.9	21.6	_	_	_	30.4	26.5	23.9
Split-System Heat Pumps	25.7	17.3	17.2	_	_	_	26.1	21.5	7.0
Individual Room Heat Pumps	17.8	16.8	20.4	_	_	_	16.3	14.8	9.0
Individual Air Conditioners	8.4	7.5	7.4	_	_	_	8.1	7.7	7.4
District Chilled Water	24.5	22.2	24.8	_	_	_	23.8	23.4	4.9
Central Chillers	9.6	8.3	10.2	_	_	_	11.7	10.0	4.3
Packaged Air Conditioning Units	6.8	4.8	5.0	_	_	_	7.3	5.9	3.3
Swamp Coolers	18.1	18.0	13.7	_	_	_	19.6	18.9	4.4
Other	40.0	22.7	21.7	_	_	_	29.0	36.1	66.7
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	8.5	7.9	8.2	_	_	_	8.8	8.2	3.7
Cooling	8.4	6.1	6.7	_	_	_	8.3	6.6	3.6
Water Heating Equipment									
Centralized System	5.5	4.6	4.9	_	_	_	5.3	4.9	2.0
Distributed System	12.8	12.8	10.6	_	_	_	12.0	11.5	3.9
Combination of Centralized and Distributed System	14.6	9.1	12.2	_	_	_	16.5	10.9	8.2

RSEs for Table C24. Natural Gas Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Natural Gas Consumption						RSEs for Natural Gas Expenditures		
				RSEs Not Available for Percentiles					
	per Building	per Square Foot	per Worker	25th Per-centile	Median	75th Per-centile	per Building	per Square Foot	per Thousand Cubic Feet
All Buildings*	5.6	3.9	4.4	_	_	_	5.8	4.2	2.4
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	7.8	6.7	6.1	_	_	_	8.3	7.3	3.9
Activities with Large Amounts of Hot Water	7.0	8.2	7.6	_	_	_	7.3	8.4	4.2
Separate Computer Area	8.3	5.2	6.7	_	_	_	9.4	6.3	2.6
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	10.5	6.2	7.2	_	_	_	11.7	7.8	3.5
Economizer Cycle	7.0	5.2	7.1	_	_	_	8.1	6.3	2.9
HVAC Maintenance	5.9	4.3	4.4	_	_	_	6.2	4.8	2.6
Energy Management and Control System (EMCS)	9.0	6.7	8.9	_	_	_	10.9	8.2	3.4
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	6.4	4.6	5.2	_	_	_	6.7	5.0	2.2
Cooling	6.7	4.3	4.8	_	_	_	7.1	4.9	2.3
Lighting	5.9	4.6	5.1	_	_	_	5.4	4.0	2.0
Office Equipment	7.0	7.5	5.7	_	_	_	6.2	7.3	3.4
Annual Consumption (hundred cubic feet)									
1,000 or Less	3.9	13.5	9.0	_	_	_	3.8	13.1	3.1
1,001 to 5,000	1.7	4.3	7.0	_	_	_	2.6	4.6	2.1
5,001 to 10,000	1.2	6.1	8.4	_	_	_	3.1	6.8	3.4
10,001 to 25,000	2.6	6.4	8.0	_	_	_	3.6	6.1	2.6
25,001 to 50,000	1.7	11.9	9.4	_	_	_	3.9	11.6	3.1
50,001 to 100,000	2.9	12.2	14.4	_	_	_	9.6	13.9	7.6
Over 100,000	9.1	6.7	10.5	_	_	_	14.8	10.6	7.0
Provider of Natural Gas (more than one may apply)									
Local Utility	6.1	4.4	4.7	_	_	_	5.9	4.4	2.7
Some Other Provider	17.5	9.7	11.6	_	_	_	18.1	11.3	4.8

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

RSEs for Table C25. Natural Gas Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	10.0	6.9	12.5	14.5	10.1	6.3	10.0	8.1	10.2	6.1	8.1	8.6
Building Floorspace (Square Feet)												
1,001 to 5,000	15.6	11.7	18.1	29.6	13.5	8.9	17.1	18.9	12.3	6.6	14.9	24.4
5,001 to 10,000	16.2	22.7	18.9	42.1	15.4	19.1	16.2	22.5	12.0	20.9	18.3	24.7
10,001 to 25,000	11.3	15.5	27.1	19.9	19.6	11.2	14.9	12.2	13.1	16.2	25.8	12.3
25,001 to 50,000	18.6	21.9	15.6	23.2	17.3	12.0	13.2	16.1	13.9	13.6	13.4	13.9
50,001 to 100,000	22.4	18.1	12.3	30.3	17.2	17.5	11.3	25.9	20.4	13.2	9.5	19.3
100,001 to 200,000	26.2	24.3	44.4	18.6	26.6	16.8	31.3	18.1	35.4	11.2	23.6	25.6
200,001 to 500,000	21.6	22.3	23.6	22.3	33.6	16.9	16.4	26.4	35.1	16.6	18.1	28.7
Over 500,000	44.7	26.7	28.8	51.2	26.4	21.3	42.4	33.3	37.5	24.1	24.5	39.6
Principal Building Activity												
Education	31.3	11.9	14.1	25.5	15.1	10.7	16.5	13.1	19.5	5.6	12.6	21.1
Food Sales	34.6	34.3	46.6	51.5	15.4	27.9	41.3	46.4	33.5	17.4	21.6	31.0
Food Service	16.6	18.5	21.0	30.1	22.5	19.2	18.6	21.8	22.2	15.1	15.9	24.4
Health Care	29.2	20.6	27.5	23.9	15.7	16.3	24.0	23.9	17.7	12.1	7.4	8.8
Inpatient	33.3	19.7	29.7	24.2	21.5	14.2	28.4	26.0	16.0	13.7	5.0	10.8
Outpatient	34.8	44.1	57.3	35.0	26.7	27.0	32.7	25.3	14.5	21.4	26.8	17.6
Lodging	33.7	21.7	18.0	45.3	47.3	14.9	20.6	23.5	65.4	16.2	11.8	34.4
Retail (Other Than Mall)	32.3	32.9	21.2	17.4	21.8	24.9	20.2	23.8	24.9	18.5	14.1	18.0
Office	27.1	22.4	24.6	20.6	15.8	14.0	25.2	16.2	23.7	11.7	14.0	20.6
Public Assembly	26.7	26.1	33.2	32.3	37.6	21.0	27.5	18.9	82.0	16.9	20.1	29.1
Public Order and Safety	36.9	26.8	56.3	56.5	33.9	32.7	35.8	44.3	9.9	17.6	56.4	11.7
Religious Worship	19.8	17.4	32.0	19.4	35.2	15.9	22.6	18.1	17.9	9.0	18.3	12.7
Service	26.4	31.4	35.2	34.7	34.9	26.6	32.1	47.7	38.2	17.7	24.2	26.2
Warehouse and Storage	21.3	29.5	35.9	61.3	26.5	17.3	25.5	36.9	19.5	21.0	22.5	53.0
Other	43.1	47.8	76.1	55.8	32.8	35.4	58.9	39.5	25.6	33.1	115.0	24.9
Vacant	62.4	31.7	82.6	55.7	49.8	40.8	53.1	44.9	37.7	29.2	46.1	42.2
Year Constructed												
Before 1920	19.6	23.4	49.5	50.9	24.8	18.9	49.0	34.8	19.3	9.9	12.3	17.2
1920 to 1945	26.7	25.1	25.4	39.5	25.7	16.3	20.8	29.0	32.1	16.2	15.2	35.2
1946 to 1959	21.3	16.4	46.0	34.0	21.9	15.2	24.7	23.0	34.0	11.5	33.6	17.1
1960 to 1969	19.9	14.5	16.8	22.5	21.2	16.2	20.0	16.3	18.4	15.0	10.9	16.7
1970 to 1979	20.7	16.3	14.2	21.7	23.8	14.1	15.0	24.0	20.2	12.6	13.0	16.7
1980 to 1989	27.2	24.2	25.8	29.3	19.0	13.8	17.6	18.4	22.5	13.4	23.9	20.6
1990 to 1999	31.7	16.1	17.7	24.2	16.6	16.2	14.4	20.8	25.0	10.5	14.0	17.8
2000 to 2003	48.2	24.7	26.2	33.0	30.2	17.1	21.0	24.2	25.2	14.2	16.8	27.0
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	74.1	10.1	0.0	28.0	71.8	10.4	0.0	21.0	15.0	6.6	0.0	11.5
5,500-7,000 HDD	16.8	6.2	0.0	25.3	12.7	10.0	0.0	23.2	11.5	10.4	0.0	6.8
4,000-5,499 HDD	33.9	49.4	35.1	33.4	23.7	24.7	34.5	41.7	20.0	34.6	21.3	8.3
Fewer than 4,000 HDD	0.0	0.0	25.0	19.7	0.0	0.0	21.0	8.4	0.0	0.0	11.0	16.9
2,000 CDD or More and --												
Fewer than 4,000 HDD	0.0	0.0	25.0	40.4	0.0	0.0	23.5	46.5	0.0	0.0	13.5	31.3
Number of Floors												
One	15.1	11.0	15.4	21.5	14.2	10.1	12.8	12.2	14.9	9.9	7.6	17.5
Two	12.2	10.5	20.7	13.9	21.1	10.7	12.7	13.1	28.6	9.9	19.3	9.1
Three	16.5	15.8	43.2	15.0	20.6	13.0	21.7	19.2	18.5	10.1	30.4	14.0
Four to Nine	20.4	16.1	20.1	33.5	24.8	12.2	27.0	23.7	22.1	8.5	17.5	26.9
Ten or More	43.8	32.0	30.1	63.6	25.8	24.5	42.2	43.3	36.5	27.2	15.3	67.7

RSEs for Table C25. Natural Gas Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	10.0	6.9	12.5	14.5	10.1	6.3	10.0	8.1	10.2	6.1	8.1	8.6
Number of Workers (main shift)												
Fewer than 5	17.0	12.1	20.2	32.4	13.0	15.2	17.3	15.0	10.2	11.0	13.2	31.0
5 to 9	17.8	13.9	23.9	32.0	21.7	14.7	15.8	19.7	20.0	13.4	17.9	24.6
10 to 19	21.5	14.9	17.6	22.3	36.4	12.7	15.5	17.7	39.3	13.5	15.7	17.5
20 to 49	20.4	16.1	24.4	27.7	27.2	11.8	16.4	20.9	30.1	11.3	19.0	13.8
50 to 99	20.9	8.7	21.7	28.2	19.9	13.5	15.6	19.7	14.9	10.1	15.1	19.2
100 to 249	27.8	22.8	35.6	17.3	15.2	16.4	20.7	13.6	29.6	13.2	22.4	20.2
250 or More	27.9	19.0	22.1	34.4	17.7	17.6	32.5	23.3	20.1	16.8	18.0	23.4
Weekly Operating Hours												
Fewer than 40	34.7	13.8	20.9	47.2	29.1	22.0	15.7	24.9	17.9	15.0	16.5	29.2
40 to 48	22.0	15.4	17.3	26.1	26.6	10.7	13.0	18.0	37.8	11.7	14.9	13.5
49 to 60	13.4	17.4	28.8	18.8	15.3	11.8	13.0	16.8	13.2	12.7	26.1	9.6
61 to 84	16.3	11.3	18.7	29.8	14.4	14.2	19.0	12.7	14.4	5.4	17.1	27.4
85 to 167	27.7	13.3	18.5	18.0	18.6	13.2	16.6	13.5	22.1	13.0	21.9	17.5
Open Continuously	22.8	14.2	18.1	24.1	16.1	11.2	16.4	16.8	15.8	10.6	10.9	14.8
Ownership and Occupancy												
Nongovernment Owned	13.1	7.9	13.8	17.6	12.3	7.3	11.8	9.7	12.2	7.6	9.1	10.1
Owner Occupied	18.3	11.7	21.0	21.1	13.3	9.1	11.7	14.2	16.3	9.7	15.7	8.4
Nonowner Occupied	10.2	9.1	14.9	21.3	16.0	10.8	14.3	13.3	13.3	11.6	14.0	13.8
Unoccupied	57.4	32.1	95.1	100.7	65.2	43.9	66.1	69.1	18.1	33.5	49.4	51.7
Government Owned	21.3	8.2	13.6	22.7	11.0	8.0	12.0	12.6	14.6	7.1	10.2	16.3
Federal	61.7	47.9	34.2	48.7	51.7	44.4	43.2	38.9	16.3	15.9	32.7	19.5
State	54.2	38.0	27.3	47.4	38.7	34.1	21.8	32.6	29.4	27.8	11.1	34.9
Local	24.7	12.0	18.8	24.1	12.3	10.2	17.6	21.8	17.4	7.4	15.3	19.0
Vacancy Status												
Completely Vacant	55.9	33.4	95.1	100.7	57.2	41.9	61.5	69.1	45.0	32.4	51.3	51.7
Mostly Vacant	93.6	86.3	101.3	64.4	81.9	90.0	101.3	57.8	70.0	4.5	0.0	56.8
Partially Vacant	25.6	16.4	23.6	24.7	16.2	11.6	26.2	18.6	22.9	11.5	15.5	17.8
Not At All Vacant	9.1	7.8	13.6	16.2	13.5	7.1	9.9	9.3	13.9	6.2	8.4	9.9
Number of Establishments												
One	10.7	8.3	14.7	14.1	15.9	8.6	11.5	7.2	17.4	7.8	8.6	9.6
2 to 5	21.2	18.4	18.2	29.9	18.1	13.6	15.7	19.8	14.6	12.7	13.2	17.3
6 to 10	34.7	18.8	91.1	20.1	32.5	20.1	39.3	20.0	25.5	22.1	58.7	13.6
11 to 20	36.1	42.1	61.5	50.0	46.8	30.9	30.0	37.6	28.2	31.3	47.8	33.1
More than 20	74.7	47.2	43.9	52.4	34.0	39.4	36.2	47.8	66.8	44.8	24.5	16.3
Currently Unoccupied	55.9	33.4	95.1	100.7	57.2	41.9	61.5	69.1	45.0	32.4	51.3	51.7
Predominant Exterior Wall Material												
Brick, Stone or Stucco	13.9	10.6	9.8	16.9	13.8	7.9	10.2	12.7	15.4	5.6	7.8	10.6
Concrete (Block or Poured)	19.2	21.1	36.2	24.5	18.5	21.6	21.4	14.5	22.4	12.6	27.2	16.7
Concrete Panels	24.7	22.4	31.1	47.6	16.2	15.7	30.4	26.9	21.3	21.0	18.7	30.9
Siding or Shingles	28.0	13.8	27.9	19.1	32.0	19.2	24.7	33.2	18.7	16.5	28.3	35.2
Metal Panels	44.6	19.7	30.2	42.5	28.1	18.3	21.2	25.0	25.7	11.0	25.6	21.3
Window Glass	63.2	57.3	43.5	58.3	24.8	51.7	30.7	56.2	66.6	28.6	33.4	20.7
Other	57.1	41.0	51.8	44.1	43.6	43.7	45.5	53.7	32.9	25.7	19.2	62.0
No One Major Type	66.3	50.6	100.2	63.6	60.7	33.6	100.2	56.0	22.1	32.8	.	55.6

RSEs for Table C25. Natural Gas Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	10.0	6.9	12.5	14.5	10.1	6.3	10.0	8.1	10.2	6.1	8.1	8.6
Predominant Roof Material												
Built-Up	5.8	11.9	22.0	19.8	14.4	8.4	15.9	12.3	11.7	9.4	13.9	17.4
Shingles (Not Wood)	34.9	17.1	14.4	18.1	15.8	12.6	14.0	17.0	28.9	11.7	11.7	17.8
Metal Surfacing	31.0	16.3	20.0	32.5	31.1	14.0	17.8	20.6	11.7	15.7	14.8	17.7
Synthetic or Rubber	14.2	10.3	15.7	28.6	13.1	11.3	14.5	27.3	9.8	8.8	9.8	27.9
Slate or Tile	26.7	31.6	32.5	32.2	27.4	26.9	24.5	26.0	49.8	15.9	24.7	11.9
Wooden Materials	95.9	41.0	42.8	45.4	95.9	32.7	57.2	45.8	0.0	43.4	104.8	23.9
Concrete	75.4	59.3	47.7	85.5	98.1	65.9	77.0	42.2	1268.9	34.2	50.8	67.0
Other	100.1	59.6	103.4	50.2	100.1	36.0	103.4	48.1	0.5	45.7	0.0	74.2
No One Major Type	54.1	56.2	88.2	82.1	62.7	51.5	62.5	5.4	32.0	24.4	37.7	81.2
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation Since 1980	12.8	13.4	20.9	14.2	11.6	11.0	12.4	11.6	13.2	6.5	12.6	8.7
Addition or Annex	27.3	19.8	33.5	16.4	31.2	15.1	24.0	11.7	43.0	9.8	15.8	11.4
Reduction In Floorspace	39.6	41.9	67.1	69.7	39.8	55.0	66.7	76.4	17.6	45.8	25.8	19.4
Cosmetic Improvements	17.4	11.8	12.9	13.2	14.3	10.9	11.1	12.1	16.2	5.6	10.3	8.9
Wall or Roof Replacement	19.4	14.2	20.8	28.8	16.1	13.8	16.1	21.1	20.4	10.2	10.4	22.2
Interior Wall Re-Configuration	16.9	13.8	20.4	15.0	13.5	12.1	12.1	14.7	17.5	8.2	14.3	8.6
HVAC Equipment Upgrade	12.6	15.1	27.9	14.0	17.5	12.6	17.3	14.3	12.4	9.6	16.0	9.6
Lighting Upgrade	15.1	12.5	16.5	13.4	13.3	12.4	13.5	12.6	14.9	6.6	13.7	8.6
Window Replacement	21.9	16.1	22.1	40.0	16.0	10.5	22.3	23.6	22.5	10.7	19.0	22.8
Plumbing System Upgrade	22.5	14.9	19.9	23.0	16.8	16.1	17.4	19.5	27.0	9.2	12.4	15.8
Insulation Upgrade	21.6	16.3	24.8	26.5	29.8	13.6	23.8	33.7	17.8	10.9	18.9	32.7
Other Renovation	49.2	42.5	76.4	99.2	50.5	40.0	61.8	99.2	54.0	14.0	62.9	0.0
No Renovations Since 1980	20.9	14.3	15.4	21.4	19.4	11.1	17.5	14.0	19.0	9.9	8.7	14.3
Building Newer than 1980	22.2	12.2	13.6	22.3	11.8	10.3	11.8	16.0	19.1	8.9	10.6	14.3
Energy Sources (more than one may apply)												
Electricity	11.0	7.4	9.9	16.3	10.2	8.3	9.6	9.5	11.3	6.5	8.2	9.0
Natural Gas	10.0	6.9	12.5	14.5	10.1	6.3	10.0	8.1	10.2	6.1	8.1	8.6
Fuel Oil	22.2	22.4	23.6	33.8	16.2	13.7	24.6	19.7	12.3	14.0	18.8	25.0
District Heat	54.2	49.9	46.5	51.3	24.3	26.8	39.5	34.4	40.5	37.9	39.3	55.1
District Chilled Water	49.4	56.1	39.0	41.1	33.0	64.0	37.3	38.5	34.0	60.7	33.0	37.3
Propane	72.0	26.5	66.0	53.9	51.0	30.9	38.3	33.5	25.6	20.0	50.3	34.9
Other	57.3	40.2	39.6	55.6	45.3	31.3	22.8	65.1	29.7	17.2	30.4	15.3
Space-Heating Energy Sources												
Natural Gas	10.1	7.0	13.5	15.8	10.2	6.2	10.7	10.0	10.0	6.3	8.1	8.8
Natural Gas Main	10.2	7.4	14.3	15.6	10.1	6.3	11.3	10.9	10.1	6.7	8.4	9.2
Natural Gas Secondary	26.7	15.1	26.1	29.1	23.2	14.4	18.1	23.9	21.1	17.2	13.2	20.3
Other Excluding Natural Gas	28.0	34.5	21.4	14.7	47.5	20.4	21.6	23.5	56.1	24.8	21.8	25.9
Buildings without Heating	100.1	94.1	67.2	84.5	100.1	82.3	52.0	46.0	0.0	11.5	63.1	91.8
Primary Space-Heating Energy Source												
Electricity	24.2	16.7	18.2	18.4	22.2	15.6	16.6	19.3	11.1	15.9	12.3	12.9
Natural Gas	10.2	7.4	14.3	15.6	10.1	6.3	11.3	10.9	10.1	6.7	8.4	9.2
Fuel Oil	37.3	94.8	23.9	X	63.8	83.6	21.4	X	79.3	71.3	51.3	X
District Heat	54.5	53.1	60.6	51.3	25.0	27.0	43.3	34.4	49.9	42.7	48.8	55.1
Propane	0.0	0.0	X	0.0	0.0	0.0	X	0.0	0.0	0.0	X	0.0
Other	85.3	84.6	100.8	X	79.1	75.5	100.8	X	11.6	47.2	0.0	X

RSEs for Table C25. Natural Gas Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	10.0	6.9	12.5	14.5	10.1	6.3	10.0	8.1	10.2	6.1	8.1	8.6
Cooling Energy Sources												
Natural Gas	48.6	38.9	45.8	31.5	37.8	35.5	40.9	57.7	33.3	24.5	46.7	88.1
Other Excluding Natural Gas	8.5	7.4	12.3	15.6	10.7	6.8	10.2	8.7	7.8	5.4	7.8	9.4
Buildings without Cooling	24.8	24.5	39.3	21.9	26.9	34.5	39.5	27.0	34.9	14.5	21.3	24.3
Water-Heating Energy Sources												
Natural Gas	11.5	9.5	13.8	13.9	11.0	7.1	9.8	9.0	11.9	6.2	9.4	7.6
Other Excluding Natural Gas	17.5	15.7	13.2	33.3	13.2	13.8	14.5	13.1	13.0	14.3	13.8	20.1
Bldgs without Water Heating	27.2	26.5	34.8	36.9	25.2	16.8	25.8	28.0	21.5	20.1	21.9	31.5
Cooking Energy Sources												
Natural Gas	19.0	10.3	15.9	20.7	26.5	8.9	12.3	16.0	29.3	7.1	11.8	14.0
Other Excluding Natural Gas	39.6	15.6	28.3	28.6	18.4	15.9	26.8	23.3	27.0	12.8	10.9	19.1
Buildings without Cooking	12.0	9.7	15.9	17.1	14.9	7.0	12.8	8.5	10.2	7.5	11.6	14.3
Energy End Uses (more than one may apply)												
Buildings with Space Heating	10.1	6.9	12.6	14.7	10.1	6.4	10.0	8.3	10.4	6.1	8.2	8.7
Buildings with Cooling	10.8	7.7	12.6	15.3	10.7	6.8	10.2	8.7	9.2	5.5	8.1	8.6
Buildings with Water Heating	10.3	6.9	12.7	15.0	10.7	6.5	9.9	8.8	10.4	6.2	8.6	8.3
Buildings with Cooking	17.5	9.3	15.0	20.6	22.6	9.2	13.2	15.5	23.8	7.5	12.0	12.5
Buildings with Manufacturing	35.5	45.5	38.8	56.3	28.9	19.4	29.8	38.8	17.8	36.9	33.2	37.2
Buildings with Electricity Generation	19.5	15.4	19.1	29.7	14.0	11.1	16.0	17.1	15.0	9.6	15.7	22.1
Percent of Floorspace Heated												
Not Heated	100.1	94.1	67.2	84.5	100.1	82.3	52.0	46.0	0.0	11.5	63.1	91.8
1 to 50	34.7	39.1	35.3	41.2	38.4	27.0	23.6	16.4	14.6	24.0	25.9	30.2
51 to 99	35.8	17.6	16.7	26.3	21.0	19.3	15.6	16.6	30.3	14.0	14.0	15.9
100	7.5	7.7	14.1	17.1	14.0	7.2	12.4	11.2	13.0	6.2	8.1	9.4
Percent of Floorspace Cooled												
Not Cooled	24.8	24.5	39.3	21.9	26.9	34.5	39.5	27.0	34.9	14.5	21.3	24.3
1 to 50	11.8	16.4	22.0	35.8	13.4	12.9	22.6	23.4	10.5	8.9	15.6	25.4
51 to 99	25.9	15.9	14.6	21.1	19.8	13.5	10.0	15.9	24.1	9.4	12.8	14.6
100	10.5	8.7	14.5	21.3	8.7	9.7	12.5	12.6	8.2	6.9	12.0	13.7
Heating Equipment (more than one may apply)												
Heat Pumps	33.2	24.5	31.6	49.9	26.3	28.3	18.2	17.9	25.9	13.1	25.5	41.5
Packaged Heat Pumps	32.1	28.6	49.8	64.7	31.4	32.5	28.0	33.6	22.3	15.0	43.6	55.5
Split-System Heat Pumps	40.5	43.6	27.0	40.9	40.4	35.4	29.1	33.6	39.2	45.1	27.1	31.2
Individual Room Heat Pumps	44.2	39.2	26.7	21.4	30.2	44.6	24.2	23.4	37.1	16.7	18.9	31.9
Furnaces	17.7	9.4	24.0	25.0	16.0	8.3	17.5	15.3	16.0	6.9	11.3	14.5
Individual Space Heaters	22.7	14.7	19.1	23.1	19.1	12.5	13.7	12.7	18.2	9.5	13.4	14.5
District Heat	58.8	52.1	46.5	51.3	24.8	24.7	39.5	34.4	48.4	46.5	39.3	55.1
Boilers	16.3	9.5	18.3	18.4	20.1	7.7	17.2	15.8	20.0	5.8	13.5	12.1
Packaged Heating Units	15.5	11.1	19.1	22.0	15.9	10.1	10.6	11.2	10.6	11.4	15.0	17.4
Other	40.3	33.2	27.9	50.7	25.6	27.1	39.4	55.5	33.1	19.7	32.8	14.2

RSEs for Table C25. Natural Gas Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	10.0	6.9	12.5	14.5	10.1	6.3	10.0	8.1	10.2	6.1	8.1	8.6
Cooling Equipment (more than one may apply)												
Residential-Type Central Air Conditioners	17.9	13.6	24.3	25.8	23.7	9.5	18.5	20.6	28.2	9.6	17.7	21.5
Heat Pumps	31.5	23.5	32.4	49.0	25.8	26.9	19.6	17.3	22.8	12.5	25.1	42.3
Packaged Heat Pumps	32.3	28.2	51.9	64.4	30.5	32.0	31.0	33.4	20.9	14.7	44.1	55.2
Split-System Heat Pumps	40.5	40.9	27.9	41.3	40.4	31.0	29.8	34.4	39.2	32.1	26.5	31.7
Individual Room Heat Pumps	44.2	39.2	26.8	20.9	30.2	44.6	24.0	25.5	37.1	16.7	18.3	28.0
Individual Air Conditioners	18.6	11.5	34.2	22.0	20.3	13.7	17.8	16.5	21.3	7.1	27.6	10.3
District Chilled Water	49.4	56.1	39.0	41.1	33.0	64.0	37.3	38.5	34.0	60.7	33.0	37.3
Central Chillers	24.1	17.2	16.3	32.0	20.4	11.6	20.4	24.3	14.8	12.0	11.3	26.2
Packaged Air Conditioning Units	13.8	6.7	15.7	12.8	14.3	8.2	12.3	9.0	14.7	7.0	9.3	11.1
Swamp Coolers	100.1	101.3	45.8	20.6	100.1	101.3	44.8	19.1	0.0	.	60.0	18.5
Other	43.8	43.6	91.6	54.4	33.5	42.4	67.1	59.2	46.7	13.9	76.1	13.2
Main Equipment Replaced Since 1990 (more than one may apply)												
Heating	13.3	13.8	16.2	29.5	16.7	9.8	12.8	16.3	15.0	11.6	17.6	21.4
Cooling	16.0	11.9	14.6	23.8	16.2	10.8	11.7	10.4	11.9	7.9	15.4	16.0
Water Heating Equipment												
Centralized System	10.2	7.7	11.6	19.0	11.3	5.9	12.9	11.0	11.6	7.0	8.1	12.1
Distributed System	31.0	24.9	20.9	19.4	31.0	19.9	14.6	20.9	39.0	17.5	15.6	21.2
Combination of Centralized and Distributed System	26.1	18.7	29.1	23.4	23.6	13.1	9.7	16.3	17.0	13.2	23.9	18.2
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	17.5	9.3	15.0	20.9	22.6	9.2	13.2	15.6	23.8	7.5	12.0	12.6
Activities with Large Amounts of Hot Water	14.7	12.7	15.8	17.7	28.1	10.9	12.3	13.0	37.4	10.4	12.1	12.3
Separate Computer Area	16.9	9.6	13.2	19.6	9.9	9.9	14.8	11.9	12.2	7.3	8.1	11.4
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	21.7	12.1	16.4	23.6	14.3	10.1	16.9	14.4	15.7	7.7	13.1	13.9
Economizer Cycle	17.2	9.4	13.0	16.6	16.6	7.8	15.9	10.5	12.7	6.9	8.2	14.8
HVAC Maintenance	12.3	6.3	13.7	13.5	11.6	6.2	10.8	8.0	11.5	6.2	9.2	9.1
Energy Management and Control System (EMCS)	8.2	15.6	13.7	28.8	7.8	11.6	16.0	14.8	6.6	11.2	11.0	20.1
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]												
Heating	11.0	9.7	10.9	14.0	10.6	8.0	10.9	8.3	12.4	7.1	7.2	9.4
Cooling	11.4	9.9	10.7	13.3	11.7	7.9	11.3	7.7	11.5	7.1	7.0	8.6
Lighting	6.3	7.7	11.9	17.0	9.8	6.1	9.5	8.1	9.3	6.7	9.7	12.8
Office Equipment	14.7	13.1	15.0	19.3	12.4	9.8	14.3	13.5	18.5	11.3	13.2	13.8

RSEs for Table C25. Natural Gas Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	10.0	6.9	12.5	14.5	10.1	6.3	10.0	8.1	10.2	6.1	8.1	8.6
Annual Consumption (hundred cubic feet)												
1,000 or Less	12.0	13.1	16.8	19.5	48.0	14.3	18.2	29.9	74.7	12.8	12.9	18.5
1,001 to 5,000	9.9	14.9	14.8	15.7	16.2	17.1	13.9	14.0	10.4	6.4	8.2	14.3
5,001 to 10,000	14.3	13.9	14.1	19.2	21.5	13.0	17.0	12.7	20.4	8.7	12.2	11.6
10,001 to 25,000	15.9	11.1	15.3	33.8	15.6	11.6	11.6	28.2	13.5	8.3	10.0	24.6
25,001 to 50,000	14.6	15.0	21.3	24.9	33.8	11.4	14.6	15.2	45.1	9.0	16.5	25.9
50,001 to 100,000	28.4	25.8	39.9	33.1	23.6	17.6	34.8	28.2	20.2	17.9	37.4	22.3
Over 100,000	24.6	14.4	23.8	33.0	19.7	14.3	24.4	32.5	10.4	9.0	14.6	19.7
Provider of Natural Gas (more than one may apply)												
Local Utility	8.4	7.9	13.6	16.0	10.6	6.8	10.0	8.8	11.1	6.7	9.4	9.7
Some Other Provider	24.4	17.3	27.5	19.9	19.3	19.6	37.1	20.9	23.3	11.4	22.8	8.9

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

RSEs for Table C26. Natural Gas Expenditures by Census Region for Non-Mall Buildings, 2003

	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*	10.8	5.9	9.8	15.9	2.7	3.8	6.9	5.5	10.7	5.7	8.5	10.3
Building Floorspace (Square Feet)												
1,001 to 5,000	14.8	10.1	19.0	29.4	9.5	4.2	6.1	3.4	7.4	6.5	12.4	24.7
5,001 to 10,000	17.0	18.2	15.8	42.2	7.1	6.8	11.5	2.8	10.8	14.4	15.8	25.5
10,001 to 25,000	9.4	16.6	27.0	17.3	6.8	4.8	5.5	3.8	14.5	16.6	24.6	10.7
25,001 to 50,000	16.2	15.8	14.7	17.4	4.6	10.1	2.3	8.2	13.0	9.3	12.5	11.8
50,001 to 100,000	21.1	18.8	12.1	30.2	6.9	3.9	5.0	4.8	20.0	13.7	9.9	19.6
100,001 to 200,000	21.4	24.9	26.5	17.7	6.4	8.8	61.1	10.7	33.9	11.9	33.6	27.1
200,001 to 500,000	25.0	26.9	25.8	21.3	10.7	6.9	8.4	6.6	42.3	18.1	21.5	26.0
Over 500,000	53.1	27.9	29.5	59.7	16.0	15.5	7.2	19.0	46.7	25.7	25.3	50.9
Principal Building Activity												
Education	30.3	13.1	14.8	22.9	7.2	3.3	4.1	8.5	17.5	7.2	13.7	22.5
Food Sales	42.0	34.7	43.7	44.9	8.1	7.6	8.7	19.1	40.3	21.6	20.3	38.6
Food Service	18.1	16.7	21.3	29.0	2.6	7.8	9.2	2.9	22.9	14.1	16.1	22.9
Health Care	27.6	24.0	18.3	25.7	7.1	10.3	32.6	9.1	16.8	15.6	25.8	14.0
Inpatient	33.9	22.6	19.8	29.4	7.8	13.0	37.2	13.5	17.2	19.9	34.1	20.4
Outpatient	33.8	43.8	52.1	34.4	7.0	3.9	22.8	4.6	12.9	21.6	22.3	18.0
Lodging	33.0	17.3	18.0	51.0	18.8	11.2	5.0	11.5	80.9	10.4	12.9	41.1
Retail (Other Than Mall)	23.8	29.6	18.8	14.3	11.5	4.4	12.3	4.7	15.5	15.9	9.9	17.9
Office	28.8	24.2	19.9	18.9	3.5	4.1	6.6	2.6	25.7	13.1	16.6	19.1
Public Assembly	27.7	19.9	30.5	28.9	8.6	14.7	6.4	5.4	87.4	8.0	15.8	26.1
Public Order and Safety	42.5	45.3	58.4	51.4	27.5	29.7	17.9	6.5	28.9	18.6	57.6	8.9
Religious Worship	18.7	17.2	27.4	17.3	4.8	6.3	8.8	3.7	16.5	7.5	12.0	13.5
Service	15.5	31.9	36.7	39.7	16.2	6.1	10.6	6.3	32.5	21.5	32.4	27.8
Warehouse and Storage	19.2	20.6	32.2	56.8	10.3	21.5	10.7	13.5	14.9	8.6	20.2	46.1
Other	40.7	48.2	80.8	58.9	14.2	4.8	8.6	11.6	22.5	32.7	130.9	30.8
Vacant	65.7	32.1	83.7	55.3	10.5	6.2	5.9	11.9	43.7	27.8	46.7	42.8
Year Constructed												
Before 1920	24.1	21.8	48.9	43.7	5.3	3.5	5.4	13.6	20.7	7.9	15.4	19.6
1920 to 1945	31.8	18.5	22.5	40.3	8.3	13.3	11.5	5.9	34.7	14.0	10.6	36.2
1946 to 1959	15.9	14.5	15.1	28.6	12.0	8.1	83.3	6.9	34.8	13.0	30.6	11.5
1960 to 1969	22.7	16.2	16.9	18.0	6.3	6.3	5.4	7.1	17.7	17.6	12.5	13.7
1970 to 1979	20.9	15.2	15.0	24.2	8.8	3.8	6.7	3.1	20.8	10.9	13.0	17.1
1980 to 1989	26.3	30.1	26.9	36.7	5.8	7.8	3.6	11.4	22.4	18.7	25.1	28.9
1990 to 1999	23.7	14.7	14.9	24.1	14.0	5.2	6.0	5.1	17.8	8.7	13.5	17.7
2000 to 2003	42.7	27.1	27.3	32.5	5.7	10.7	5.7	6.3	19.6	14.6	17.8	23.7
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	72.5	9.8	0.0	28.7	19.1	6.0	0.0	5.6	3.8	2.9	0.0	10.8
5,500-7,000 HDD	16.0	6.4	0.0	40.0	4.0	3.9	0.0	19.8	12.4	10.2	0.0	24.2
4,000-5,499 HDD	32.4	32.3	35.8	32.1	4.3	34.7	5.4	2.7	20.1	15.2	23.9	7.7
Fewer than 4,000 HDD	0.0	0.0	21.7	20.2	0.0	0.0	14.3	2.2	0.0	0.0	9.9	17.0
2,000 CDD or More and --												
Fewer than 4,000 HDD	0.0	0.0	24.8	41.3	0.0	0.0	4.5	11.7	0.0	0.0	14.2	25.6
Number of Floors												
One	12.4	11.3	15.2	20.7	6.0	3.9	3.7	3.8	14.3	9.4	8.3	17.6
Two	12.3	8.6	20.8	16.3	7.6	6.5	4.2	3.6	23.7	9.4	20.5	10.1
Three	16.6	13.3	15.5	16.9	3.6	7.5	68.1	9.5	15.9	10.3	21.0	16.4
Four to Nine	18.6	14.6	23.5	35.9	5.4	4.9	6.8	9.7	22.3	8.7	11.7	27.1
Ten or More	48.7	34.3	31.2	70.4	9.9	14.0	6.9	19.4	41.6	28.5	18.2	75.5

RSEs for Table C26. Natural Gas Expenditures by Census Region for Non-Mall Buildings, 2003

	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*	10.8	5.9	9.8	15.9	2.7	3.8	6.9	5.5	10.7	5.7	8.5	10.3
Number of Workers (main shift)												
Fewer than 5	14.4	11.8	19.4	30.3	9.0	7.2	6.7	3.6	10.4	10.1	10.8	28.7
5 to 9	17.0	15.1	20.3	32.8	8.9	6.1	5.8	3.3	20.6	17.1	15.9	25.7
10 to 19	17.9	14.5	18.7	19.7	9.2	4.1	5.5	5.0	45.1	12.2	15.8	15.0
20 to 49	20.4	16.6	24.7	23.4	5.6	9.7	8.2	5.4	30.2	14.8	23.0	10.6
50 to 99	25.5	12.4	22.9	23.2	11.2	7.8	5.4	7.7	19.9	8.0	16.3	15.0
100 to 249	22.5	24.6	26.6	16.5	9.5	5.6	47.3	7.5	25.6	14.8	20.9	20.5
250 or More	31.8	20.6	20.7	45.2	7.8	8.6	5.4	17.4	25.2	18.0	19.2	35.8
Weekly Operating Hours												
Fewer than 40	35.5	12.6	18.3	47.9	2.7	4.1	11.4	2.8	19.5	14.9	12.4	30.0
40 to 48	21.7	17.2	15.8	20.5	4.2	4.8	8.2	6.6	40.1	14.9	13.8	9.8
49 to 60	13.3	12.9	28.6	17.0	4.9	8.4	2.6	4.8	10.4	8.9	25.7	8.3
61 to 84	16.6	14.6	18.4	29.5	5.5	6.5	5.6	7.1	15.3	7.1	15.9	27.7
85 to 167	28.8	12.5	18.6	16.6	9.4	5.2	10.4	4.3	22.6	10.1	24.3	14.8
Open Continuously	25.0	15.8	13.8	31.3	6.8	9.3	15.7	11.2	19.7	12.3	11.6	22.2
Ownership and Occupancy												
Nongovernment Owned	13.4	7.1	10.9	19.7	2.8	4.2	9.1	5.2	12.4	6.9	11.2	12.7
Owner Occupied	18.7	7.9	11.8	19.4	5.2	6.3	23.9	4.8	17.6	7.1	10.6	7.6
Nonowner Occupied	12.0	11.3	15.5	25.4	3.9	4.1	3.6	5.9	11.6	11.6	14.6	17.7
Unoccupied	64.1	33.6	91.6	99.8	40.0	5.4	3.9	0.9	43.6	33.3	45.7	50.9
Government Owned	23.5	6.6	14.1	23.0	7.8	5.4	4.5	5.2	18.2	5.1	11.6	17.7
Federal	66.0	50.9	23.9	52.7	61.2	35.3	32.8	12.5	59.4	50.0	64.4	27.5
State	53.0	41.0	29.9	49.4	5.7	15.1	3.2	4.4	28.9	27.1	11.9	36.8
Local	27.9	10.2	17.5	23.3	6.9	3.8	5.8	6.2	20.5	5.4	16.1	17.6
Vacancy Status												
Completely Vacant	60.7	33.6	91.6	99.8	19.5	6.9	3.9	0.9	51.1	31.3	47.7	50.9
Mostly Vacant	93.6	86.3	101.3	65.5	0.4	0.1	0.0	12.3	70.2	4.5	0.0	55.4
Partially Vacant	27.9	21.0	24.3	26.5	4.7	6.7	7.3	7.9	25.2	14.1	17.7	20.8
Not At All Vacant	8.6	6.2	10.9	18.2	2.4	3.9	8.1	6.0	14.1	4.9	9.1	12.0
Number of Establishments												
One	10.8	6.9	11.2	16.7	2.6	4.5	8.9	5.9	17.7	5.5	9.7	12.2
2 to 5	20.3	20.8	19.4	27.7	8.7	5.0	5.1	5.5	13.2	16.9	13.5	15.2
6 to 10	42.3	25.2	83.5	21.8	19.1	12.2	7.3	9.2	26.8	17.8	51.5	14.0
11 to 20	35.2	50.1	56.9	43.5	4.7	22.5	10.8	25.2	25.4	44.7	44.1	30.2
More than 20	82.1	45.4	40.3	52.4	29.4	39.5	17.9	1.2	77.3	33.5	26.5	15.8
Currently Unoccupied	60.7	33.6	91.6	99.8	19.5	6.9	3.9	0.9	51.1	31.3	47.7	50.9
Predominant Exterior Wall Material												
Brick, Stone or Stucco	15.5	9.2	8.0	14.9	3.8	2.4	4.0	5.1	16.5	5.2	8.3	11.0
Concrete (Block or Poured)	18.8	21.7	33.4	24.6	5.7	10.8	28.3	6.0	18.6	10.5	29.9	14.5
Concrete Panels	28.4	31.6	29.9	55.8	9.5	13.5	7.6	16.7	25.2	26.6	21.8	41.5
Siding or Shingles	25.2	14.5	25.9	23.2	7.8	3.1	5.5	10.6	16.7	17.8	28.8	23.8
Metal Panels	45.1	19.3	30.6	46.9	5.5	5.1	9.7	7.9	26.0	10.8	28.1	23.4
Window Glass	67.1	50.3	34.5	56.5	20.2	26.7	24.8	3.6	69.9	43.2	28.9	19.9
Other	47.6	44.3	51.5	47.1	116.9	23.8	10.4	34.7	56.3	43.2	26.3	52.0
No One Major Type	65.0	52.7	100.2	63.0	2.8	5.5	0.0	3.5	19.5	31.5	.	53.6

RSEs for Table C26. Natural Gas Expenditures by Census Region for Non-Mall Buildings, 2003

	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*	10.8	5.9	9.8	15.9	2.7	3.8	6.9	5.5	10.7	5.7	8.5	10.3
Predominant Roof Material												
Built-Up	8.1	10.0	18.0	25.0	5.6	6.5	14.9	7.5	12.2	10.1	17.9	21.7
Shingles (Not Wood)	35.4	13.8	14.6	16.2	2.2	5.8	3.3	5.3	29.4	11.4	10.6	15.2
Metal Surfacing	36.5	13.5	20.8	32.9	8.6	8.4	5.6	5.5	12.9	11.4	14.8	16.7
Synthetic or Rubber	13.7	12.3	13.3	27.1	4.8	5.6	5.1	7.6	7.8	9.1	11.0	24.5
Slate or Tile	23.9	30.4	29.7	32.0	4.4	4.4	11.8	4.8	47.0	15.8	23.0	10.6
Wooden Materials	95.9	37.7	41.1	42.3	0.0	20.5	4.8	6.2	0.0	39.2	102.3	19.3
Concrete	64.3	59.0	56.5	80.5	74.5	7.9	45.3	2.7	2270.7	41.9	67.1	64.3
Other	100.1	76.6	103.4	47.6	0.0	21.5	0.0	23.3	0.5	69.8	0.0	70.8
No One Major Type	55.7	52.6	83.8	73.6	9.6	42.6	6.5	47.2	31.8	14.7	30.7	72.3
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation Since 1980	11.5	11.3	11.7	15.5	5.5	5.1	22.4	6.0	12.3	4.6	12.1	8.3
Addition or Annex	27.4	15.2	20.8	18.1	10.1	11.0	41.1	6.5	43.5	5.2	23.7	12.4
Reduction In Floorspace	45.4	51.2	54.9	75.1	30.1	26.0	82.4	6.6	26.8	23.0	88.2	20.0
Cosmetic Improvements	14.7	11.1	13.1	16.1	7.4	4.1	3.1	7.3	13.6	3.8	9.5	8.8
Wall or Roof Replacement	21.1	16.2	19.4	30.4	5.7	5.9	6.3	6.0	21.4	8.8	10.5	22.0
Interior Wall Re-Configuration	17.2	14.6	19.1	19.5	4.9	4.8	5.9	7.2	17.9	8.8	13.7	11.3
HVAC Equipment Upgrade	12.9	11.5	14.7	18.2	4.9	7.5	32.8	7.7	13.0	5.9	17.2	10.7
Lighting Upgrade	15.2	11.9	14.2	17.3	4.6	4.8	5.6	7.0	15.7	4.6	11.0	10.1
Window Replacement	19.9	15.9	22.5	33.0	10.2	4.2	4.6	11.0	21.8	10.1	17.8	15.3
Plumbing System Upgrade	22.6	14.2	19.7	26.2	6.7	4.0	7.9	5.4	26.2	7.2	11.9	16.3
Insulation Upgrade	24.6	11.9	26.3	26.0	6.1	7.4	6.2	11.3	17.6	7.4	21.8	28.5
Other Renovation	49.3	43.1	72.2	99.2	2.1	6.5	34.9	0.0	53.8	17.9	42.0	0.0
No Renovations Since 1980	23.5	13.3	17.3	20.8	5.5	3.9	4.3	3.7	22.3	9.1	8.1	14.4
Building Newer than 1980	18.5	14.8	13.8	26.5	4.4	4.9	3.6	7.6	15.8	10.7	11.9	18.5
Energy Sources (more than one may apply)												
Electricity	11.7	6.3	10.0	18.0	3.4	4.1	2.7	5.8	11.7	5.5	8.3	11.2
Natural Gas	10.8	5.9	9.8	15.9	2.7	3.8	6.9	5.5	10.7	5.7	8.5	10.3
Fuel Oil	20.6	23.4	18.9	44.1	6.2	4.9	25.4	17.2	11.3	14.8	18.7	36.4
District Heat	50.0	53.3	49.2	61.0	5.1	24.3	7.0	34.4	36.7	42.5	39.8	64.0
District Chilled Water	49.3	53.4	40.4	49.6	6.7	6.9	4.4	22.7	34.3	58.1	33.5	43.5
Propane	59.3	28.2	37.2	51.2	18.5	7.6	184.9	12.5	9.8	17.9	56.3	29.0
Other	46.9	43.3	32.5	77.2	21.4	12.7	8.6	24.2	19.0	23.9	28.0	12.1
Space-Heating Energy Sources												
Natural Gas	11.0	5.9	10.4	17.5	2.9	3.9	7.1	6.1	10.5	6.1	9.0	10.9
Natural Gas Main	11.0	6.2	11.2	17.6	2.9	3.8	7.7	6.3	10.5	6.8	10.0	11.8
Natural Gas Secondary	28.3	18.3	28.2	26.1	6.1	11.6	7.6	6.7	21.2	17.0	16.4	16.1
Other Excluding Natural Gas	22.6	37.3	22.3	16.0	17.3	8.2	6.0	7.8	81.3	27.7	22.0	19.7
Buildings without Heating	100.1	92.6	59.9	79.5	0.0	1.6	11.8	32.5	0.0	10.3	55.5	87.7
Primary Space-Heating Energy Source												
Electricity	25.0	19.7	17.8	16.7	3.6	9.1	4.9	4.8	12.8	15.1	12.8	9.2
Natural Gas	11.0	6.2	11.2	17.6	2.9	3.8	7.7	6.3	10.5	6.8	10.0	11.8
Fuel Oil	26.7	94.1	100.5	X	20.2	14.0	100.5	X	113.6	67.1	100.2	X
District Heat	50.1	51.9	65.0	61.0	6.2	67.9	8.6	34.4	44.8	40.3	49.9	64.0
Propane	0.0	0.0	X	0.0	0.0	0.0	X	0.0	0.0	0.0	X	0.0
Other	100.1	82.8	100.8	X	110.3	14.2	0.0	X	109.2	39.4	0.0	X

RSEs for Table C26. Natural Gas Expenditures by Census Region for Non-Mall Buildings, 2003

	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*	10.8	5.9	9.8	15.9	2.7	3.8	6.9	5.5	10.7	5.7	8.5	10.3
Cooling Energy Sources												
Natural Gas	53.4	37.5	42.1	34.7	10.9	17.7	12.4	14.5	39.5	20.3	48.6	76.3
Other Excluding Natural Gas	8.7	6.7	9.8	17.1	3.0	4.4	7.6	5.6	8.5	5.1	9.0	11.5
Buildings without Cooling	24.2	23.0	35.4	20.5	14.4	5.1	12.8	10.0	19.1	18.1	20.3	19.8
Water-Heating Energy Sources												
Natural Gas	12.4	7.9	11.0	16.2	3.8	4.2	9.4	6.5	11.7	5.8	9.3	10.6
Other Excluding Natural Gas	18.0	17.6	13.4	31.9	6.1	6.0	5.6	2.8	13.8	12.2	12.3	18.6
Bldgs without Water Heating	26.0	27.8	26.6	34.8	8.7	13.3	19.0	8.3	15.3	25.7	20.2	29.6
Cooking Energy Sources												
Natural Gas	22.2	9.4	13.4	24.6	5.1	3.6	12.7	10.2	31.9	6.7	11.3	19.3
Other Excluding Natural Gas	33.7	16.1	22.0	33.7	6.7	2.1	8.4	7.2	23.1	13.1	12.3	20.1
Buildings without Cooking	12.1	8.6	15.5	16.6	3.8	5.4	3.0	2.8	9.4	7.9	11.3	13.7
Energy End Uses (more than one may apply)												
Buildings with Space Heating	10.9	5.8	9.8	16.1	2.7	3.8	7.0	5.7	11.0	5.7	8.5	10.5
Buildings with Cooling	11.9	7.0	9.8	16.8	3.2	4.1	7.1	5.6	10.6	5.3	8.6	10.8
Buildings with Water Heating	11.1	5.8	9.6	16.4	2.7	3.8	7.3	5.6	11.0	5.4	8.7	10.3
Buildings with Cooking	19.2	8.6	12.6	24.4	5.2	3.2	11.7	9.3	25.3	7.1	11.9	17.9
Buildings with Manufacturing	31.0	31.1	42.0	50.2	5.8	45.2	17.6	18.6	13.2	17.4	39.7	26.7
Buildings with Electricity Generation	22.8	14.8	12.5	36.9	8.2	8.1	21.7	12.3	19.0	10.3	16.2	29.8
Percent of Floorspace Heated												
Not Heated	100.1	92.6	59.9	79.5	0.0	1.6	11.8	32.5	0.0	10.3	55.5	87.7
1 to 50	30.3	38.9	33.8	38.7	7.6	4.9	9.0	4.5	19.3	21.8	26.6	28.5
51 to 99	36.9	18.4	18.2	25.9	4.8	5.4	6.7	4.8	30.6	14.3	14.8	13.8
100	6.9	6.9	11.2	18.7	2.9	4.0	8.0	7.0	13.6	6.3	9.7	12.2
Percent of Floorspace Cooled												
Not Cooled	24.2	23.0	35.4	20.5	14.4	5.1	12.8	10.0	19.1	18.1	20.3	19.8
1 to 50	12.8	13.6	21.8	32.9	5.6	8.8	5.4	6.1	13.6	8.2	17.6	21.8
51 to 99	27.3	15.5	13.4	20.0	7.8	2.5	6.9	7.0	25.6	9.1	12.3	11.7
100	11.1	9.8	11.2	24.1	3.9	5.0	10.4	8.3	9.1	6.7	11.2	18.0
Heating Equipment (more than one may apply)												
Heat Pumps	30.5	27.6	18.1	56.6	15.7	19.6	35.1	14.1	17.6	17.8	17.9	49.6
Packaged Heat Pumps	30.6	34.5	17.7	71.4	6.8	25.5	89.4	19.3	21.6	23.4	32.4	64.3
Split-System Heat Pumps	31.9	46.5	28.8	41.4	27.3	15.3	9.3	8.7	42.8	46.5	35.3	28.5
Individual Room Heat Pumps	43.7	46.6	24.4	21.2	26.1	21.1	5.4	9.3	29.8	16.1	17.7	31.2
Furnaces	16.1	7.8	13.6	24.9	6.9	5.4	17.4	2.9	13.8	5.9	12.0	14.2
Individual Space Heaters	21.5	11.4	18.5	22.8	8.5	8.1	6.0	4.0	15.7	4.9	13.6	14.2
District Heat	51.0	55.6	49.2	61.0	8.6	41.1	7.0	34.4	41.2	51.0	39.8	64.0
Boilers	17.4	8.3	18.0	23.0	4.5	3.8	12.8	8.5	21.2	5.0	15.5	17.1
Packaged Heating Units	14.3	12.9	12.9	19.7	4.8	5.6	17.6	4.4	10.3	12.1	11.6	14.2
Other	40.2	28.4	25.2	56.8	8.1	10.9	10.3	4.5	35.0	14.1	30.8	13.8

RSEs for Table C26. Natural Gas Expenditures by Census Region for Non-Mall Buildings, 2003

	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*	10.8	5.9	9.8	15.9	2.7	3.8	6.9	5.5	10.7	5.7	8.5	10.3
Cooling Equipment (more than one may apply)												
Residential-Type Central Air Conditioners	16.9	12.1	22.7	24.8	7.0	9.6	4.6	2.6	31.0	9.9	15.9	20.9
Heat Pumps	30.0	26.3	18.5	55.5	15.0	18.5	36.2	13.5	17.5	16.9	18.6	49.9
Packaged Heat Pumps	30.0	33.7	18.1	71.0	14.0	24.7	94.9	18.9	20.4	22.7	35.1	63.8
Split-System Heat Pumps	31.9	42.6	29.6	41.8	27.3	12.4	9.4	8.8	42.8	31.7	34.6	28.9
Individual Room Heat Pumps	43.7	46.6	24.6	21.0	26.1	21.1	5.2	8.7	29.8	16.1	17.9	26.5
Individual Air Conditioners	19.8	10.6	15.2	20.3	5.4	9.6	45.4	4.6	22.1	9.5	15.7	9.7
District Chilled Water	49.3	53.4	40.4	49.6	6.7	6.9	4.4	22.7	34.3	58.1	33.5	43.5
Central Chillers	26.9	17.9	16.3	41.9	7.2	6.8	3.9	16.3	17.6	13.5	11.0	36.0
Packaged Air Conditioning Units	16.1	7.4	11.3	13.1	3.9	3.6	11.7	4.3	16.4	7.1	13.0	11.5
Swamp Coolers	100.1	101.3	22.3	22.5	0.0	0.0	48.0	3.1	0.0	.	39.7	20.3
Other	38.7	51.0	34.5	54.6	18.3	24.1	1111.3	3.4	36.9	21.6	202.0	10.3
Main Equipment Replaced Since 1990 (more than one may apply)												
Heating	14.2	11.5	18.1	33.0	4.1	6.8	4.4	10.5	14.5	11.2	18.7	26.5
Cooling	16.2	9.5	14.5	27.6	4.1	7.1	4.2	9.8	12.1	9.0	15.4	21.3
Water Heating Equipment												
Centralized System	11.2	8.0	10.8	17.9	3.4	3.9	3.5	4.1	12.6	7.0	9.1	11.2
Distributed System	25.0	26.1	18.8	20.1	14.3	5.5	6.0	5.9	31.7	18.9	11.7	21.1
Combination of Centralized and Distributed System	28.8	15.0	30.1	32.5	7.1	8.3	29.8	13.3	18.1	10.0	29.1	27.8
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	19.2	8.6	12.6	24.7	5.2	3.2	11.7	9.3	25.3	7.1	11.9	18.1
Activities with Large Amounts of Hot Water	15.2	10.7	13.0	22.4	5.8	5.4	12.7	7.3	37.8	8.6	12.0	16.8
Separate Computer Area	18.2	11.4	13.6	26.5	4.4	4.2	3.6	10.1	13.9	7.8	9.0	18.9
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	24.4	11.6	19.0	29.4	6.9	5.3	4.8	10.3	18.2	7.5	17.1	21.0
Economizer Cycle	18.8	9.8	11.6	22.2	5.5	4.9	3.2	8.8	12.4	8.5	9.5	20.2
HVAC Maintenance	12.9	6.0	10.3	16.0	3.2	3.6	8.1	6.1	12.8	5.3	10.1	11.6
Energy Management and Control System (EMCS)	11.2	16.5	14.0	36.7	4.0	4.0	4.3	14.1	8.7	11.2	12.3	30.0
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]												
Heating	12.2	7.6	11.1	17.7	3.2	3.7	3.1	7.1	13.5	6.0	8.5	14.0
Cooling	13.4	8.3	11.1	16.6	4.0	4.0	3.1	6.5	13.6	6.3	8.2	12.8
Lighting	5.7	6.3	11.5	14.6	3.1	3.5	2.9	4.1	7.8	5.6	10.0	11.1
Office Equipment	13.6	10.1	16.1	17.4	3.8	6.7	3.3	3.8	18.7	10.9	13.4	13.7

RSEs for Table C26. Natural Gas Expenditures by Census Region for Non-Mall Buildings, 2003

	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*	10.8	5.9	9.8	15.9	2.7	3.8	6.9	5.5	10.7	5.7	8.5	10.3
Annual Consumption (hundred cubic feet)												
1,000 or Less	17.4	15.3	17.3	18.7	8.5	6.3	4.3	4.6	70.3	13.9	12.3	17.9
1,001 to 5,000	11.0	14.8	15.2	15.8	4.1	3.5	3.6	3.5	10.1	8.1	8.4	13.7
5,001 to 10,000	13.3	14.7	14.5	18.2	8.2	6.9	3.9	3.0	20.0	13.1	12.1	10.2
10,001 to 25,000	17.2	12.8	14.8	32.2	3.7	4.1	6.1	4.1	13.4	7.9	9.0	23.2
25,001 to 50,000	18.0	15.1	18.9	28.4	4.4	4.3	10.1	7.2	43.7	8.0	15.8	28.7
50,001 to 100,000	27.5	21.1	42.3	33.9	10.4	13.0	6.9	8.0	21.2	14.1	42.2	19.5
Over 100,000	26.5	15.2	19.3	43.5	8.1	9.3	24.0	16.9	14.2	16.0	21.2	31.1
Provider of Natural Gas (more than one may apply)												
Local Utility	8.3	6.9	10.7	16.7	2.7	4.4	7.8	6.0	10.8	6.3	9.5	10.7
Some Other Provider	27.8	17.7	29.4	28.1	11.0	4.8	6.3	11.0	27.5	10.7	22.4	12.6

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

RSEs for Table C27. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	29.5	10.7	5.1	29.1	10.5	6.0	16.8	11.8	7.3
Building Floorspace (Square Feet)									
1,001 to 5,000	23.1	17.7	14.0	26.8	15.8	11.1	11.2	13.2	7.4
5,001 to 10,000	34.0	17.6	28.5	39.7	16.0	25.2	30.4	12.8	24.9
10,001 to 25,000	52.9	9.6	18.2	57.0	20.0	14.1	46.1	14.5	21.7
25,001 to 50,000	12.4	19.5	21.9	24.4	19.3	12.2	19.6	14.9	16.6
50,001 to 100,000	44.5	25.8	20.5	30.8	21.0	20.2	50.7	16.0	14.9
100,001 to 200,000	62.8	24.7	30.1	43.4	30.1	21.7	35.2	41.0	13.6
200,001 to 500,000	57.5	23.4	25.5	64.1	36.1	16.6	18.5	39.3	18.2
Over 500,000	99.6	48.0	28.7	82.4	27.8	23.2	26.5	41.3	25.5
Principal Building Activity									
Education	97.0	31.8	12.4	45.9	16.0	10.6	125.2	18.5	5.7
Food Sales	100.1	35.2	42.7	100.1	13.1	31.5	0.0	32.3	26.4
Food Service	104.2	16.5	21.4	104.2	20.4	22.7	0.0	23.2	17.0
Health Care	77.9	31.3	22.5	66.0	14.1	22.5	19.1	19.7	11.4
Inpatient	99.7	35.2	19.4	90.5	20.4	16.6	11.8	17.3	15.4
Outpatient	81.4	34.8	53.7	73.3	27.6	39.4	47.9	11.7	18.5
Lodging	75.5	34.5	30.2	69.3	57.0	21.0	43.3	97.5	21.0
Retail (Other Than Mall)	51.7	37.3	38.8	60.9	21.6	29.9	23.5	26.5	22.3
Office	28.6	32.1	27.2	27.5	18.2	17.8	14.5	28.5	13.8
Public Assembly	53.5	31.2	30.2	36.7	43.7	27.3	43.2	111.0	20.3
Public Order and Safety	71.4	41.9	43.1	70.8	37.3	50.9	17.6	14.7	32.4
Religious Worship	103.8	19.6	19.4	103.8	27.0	14.6	0.0	10.6	10.8
Service	103.8	24.6	39.6	103.8	35.2	32.6	0.0	48.0	22.2
Warehouse and Storage	102.7	21.1	21.0	102.6	27.1	18.2	0.8	21.4	8.5
Other	67.2	54.8	55.3	54.5	40.8	33.2	50.5	22.4	38.8
Vacant	100.1	65.0	31.3	100.1	54.4	44.4	0.0	37.4	30.6
Year Constructed									
Before 1920	46.6	21.3	28.5	59.5	25.1	23.6	30.1	24.3	11.8
1920 to 1945	37.3	31.8	23.9	52.7	28.5	14.7	40.6	39.1	20.0
1946 to 1959	5.7	22.3	16.2	49.2	23.5	16.3	40.4	37.3	14.2
1960 to 1969	69.5	19.1	16.6	50.1	23.4	21.0	38.3	19.7	18.5
1970 to 1979	67.8	21.9	19.3	39.0	26.5	17.2	48.5	23.0	14.9
1980 to 1989	23.7	33.5	28.5	19.5	21.8	15.2	32.3	26.6	15.6
1990 to 1999	83.8	24.4	22.5	53.1	17.7	24.9	71.6	14.8	14.3
2000 to 2003	85.7	56.6	31.1	76.0	28.0	21.3	41.7	27.1	17.9
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	0.0	74.1	10.0	0.0	71.8	6.6	0.0	15.0	9.2
5,500-7,000 HDD	29.5	20.6	6.1	29.1	8.0	8.0	16.8	14.7	10.1
4,000-5,499 HDD	0.0	33.9	0.0	0.0	23.7	0.0	0.0	20.0	0.0
Fewer than 4,000 HDD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2,000 CDD or More and --									
Fewer than 4,000 HDD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Number of Floors									
One	45.2	15.8	12.6	16.5	15.5	11.6	30.8	16.1	12.4
Two	39.2	12.9	7.5	36.9	23.4	13.6	51.6	32.8	11.8
Three	37.4	18.6	18.2	51.6	22.0	14.2	28.6	21.3	12.4
Four to Nine	40.3	18.6	18.3	34.9	30.6	13.3	19.2	26.1	9.6
Ten or More	13.7	46.0	34.1	41.3	28.2	27.6	48.4	38.3	29.6

RSEs for Table C27. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	29.5	10.7	5.1	29.1	10.5	6.0	16.8	11.8	7.3
Number of Workers (main shift)									
Fewer than 5	22.4	20.8	13.2	24.4	15.8	18.1	16.0	10.5	14.2
5 to 9	57.3	15.8	15.0	49.1	19.3	18.3	28.5	24.9	19.1
10 to 19	24.0	22.8	18.5	76.3	39.0	11.0	42.9	45.0	14.1
20 to 49	65.3	21.7	14.3	62.6	29.4	12.8	22.8	34.0	12.7
50 to 99	58.1	19.3	8.0	60.2	21.0	14.6	28.5	15.6	13.0
100 to 249	63.8	19.7	27.4	31.4	17.4	18.3	59.1	30.2	16.5
250 or More	56.1	30.2	21.6	48.4	18.9	20.6	14.8	22.2	17.5
Weekly Operating Hours									
Fewer than 40	72.5	38.8	14.3	75.5	31.2	26.6	47.7	19.3	18.0
40 to 48	31.6	24.2	17.3	45.8	29.1	13.1	37.6	43.8	12.7
49 to 60	45.6	14.0	18.8	55.4	15.8	13.6	30.4	15.1	15.5
61 to 84	29.7	18.0	10.8	35.1	16.1	14.1	35.3	15.8	5.0
85 to 167	62.8	28.8	15.6	66.2	15.6	14.3	2.5	20.7	14.9
Open Continuously	45.5	26.6	17.4	43.1	17.4	14.5	13.1	20.3	12.8
Ownership and Occupancy									
Nongovernment Owned	43.3	13.5	6.0	33.4	13.0	7.2	26.1	13.9	9.9
Owner Occupied	49.0	19.7	10.2	36.8	13.9	9.9	34.5	18.9	12.5
Nonowner Occupied	36.4	10.8	9.3	33.1	17.7	13.1	10.0	15.3	14.9
Unoccupied	0.0	57.4	32.2	0.0	65.2	45.5	0.0	18.1	34.0
Government Owned	40.3	24.8	8.5	29.2	12.2	8.7	25.6	16.9	8.0
Federal	77.7	68.8	53.6	81.2	53.8	49.8	7.8	36.4	7.0
State	82.6	52.0	41.7	67.1	47.9	40.0	25.6	30.8	29.3
Local	33.4	26.4	12.4	16.9	13.6	9.3	44.1	18.1	7.6
Vacancy Status									
Completely Vacant	0.0	55.9	32.2	0.0	57.2	45.5	0.0	45.0	34.0
Mostly Vacant	100.1	100.1	100.7	100.1	100.1	100.8	0.0	0.0	0.4
Partially Vacant	22.1	35.0	18.6	19.7	21.4	11.4	29.2	30.3	14.0
Not At All Vacant	45.9	7.6	7.1	37.0	14.2	8.0	22.6	15.9	7.3
Number of Establishments									
One	26.5	11.8	7.1	28.0	17.7	9.7	22.1	20.5	9.6
2 to 5	36.4	25.7	21.3	32.8	21.6	16.7	10.4	19.3	16.2
6 to 10	73.6	40.0	33.7	81.5	36.1	25.1	215.5	25.6	31.8
11 to 20	65.0	42.3	44.4	36.2	55.0	34.8	21.4	32.0	33.0
More than 20	94.1	77.9	50.7	71.2	36.9	47.7	70.5	70.4	49.6
Currently Unoccupied	0.0	55.9	32.2	0.0	57.2	45.5	0.0	45.0	34.0
Predominant Exterior Wall Material									
Brick, Stone or Stucco	29.7	15.9	11.7	35.2	14.8	8.1	20.3	18.4	5.9
Concrete (Block or Poured)	63.4	20.0	21.5	41.8	19.9	26.8	34.9	24.3	13.3
Concrete Panels	100.2	22.8	33.9	100.2	15.4	19.3	0.0	22.8	29.9
Siding or Shingles	32.9	44.2	25.1	47.4	43.9	35.0	26.3	25.6	25.2
Metal Panels	75.1	45.7	23.5	75.3	29.4	29.3	32.5	21.3	14.9
Window Glass	101.8	65.0	60.7	101.8	25.0	54.9	0.0	68.3	30.7
Other	83.6	48.0	41.9	80.1	47.7	45.4	21.5	9.3	26.5
No One Major Type	99.8	71.4	51.5	99.8	76.0	34.5	0.0	24.8	33.5

RSEs for Table C27. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	29.5	10.7	5.1	29.1	10.5	6.0	16.8	11.8	7.3
Predominant Roof Material									
Built-Up	13.7	6.5	10.9	30.5	16.1	8.6	32.5	12.6	10.7
Shingles (Not Wood)	17.2	39.6	19.4	37.3	18.0	14.0	38.5	32.3	12.3
Metal Surfacing	X	31.0	24.3	X	31.1	22.4	X	11.7	26.5
Synthetic or Rubber	42.5	12.4	10.9	32.9	14.4	12.7	19.6	10.7	9.7
Slate or Tile	100.0	27.8	35.5	70.9	29.8	27.9	154.6	56.1	19.5
Wooden Materials	X	95.9	49.1	X	95.9	29.4	X	0.0	53.2
Concrete	X	75.4	99.0	X	98.1	90.0	X	1268.9	10.0
Other	X	100.1	59.6	X	100.1	36.0	X	0.5	45.7
No One Major Type	64.8	76.0	56.2	86.1	84.7	51.5	34.5	67.7	24.4
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	43.6	13.3	13.5	46.9	10.4	12.5	31.1	14.2	7.1
Addition or Annex	74.7	28.7	15.4	77.4	31.8	16.6	58.6	44.7	7.6
Reduction In Floorspace	100.5	42.6	44.1	100.3	43.1	50.5	1.7	22.8	17.3
Cosmetic Improvements	57.0	18.2	14.6	47.9	14.1	13.5	28.9	18.6	6.7
Wall or Roof Replacement	58.7	19.7	16.8	55.6	14.1	15.1	29.1	24.4	12.0
Interior Wall Re-Configuration	41.6	18.7	16.8	45.1	14.1	15.1	41.7	19.9	9.6
HVAC Equipment Upgrade	47.7	12.0	14.3	48.9	19.0	14.9	42.7	10.4	9.1
Lighting Upgrade	43.8	16.1	15.5	45.0	12.4	14.5	39.2	15.2	7.5
Window Replacement	48.5	24.9	19.6	52.6	14.6	13.7	43.2	26.0	12.9
Plumbing System Upgrade	51.1	25.9	17.4	59.5	16.2	18.6	64.4	33.3	10.4
Insulation Upgrade	90.9	22.4	21.4	71.2	33.2	17.5	79.7	18.6	15.8
Other Renovation	84.8	57.6	42.5	71.1	61.0	40.0	78.2	46.4	14.0
No Renovations Since 1980	18.2	23.6	16.0	26.0	22.1	12.5	14.4	22.2	11.4
Building Newer than 1980	68.3	18.8	14.8	48.9	10.2	13.3	39.6	21.3	11.0
Energy Sources (more than one may apply)									
Electricity	27.2	12.3	6.0	19.7	11.1	9.9	21.9	12.8	8.0
Natural Gas	29.5	10.7	5.1	29.1	10.5	6.0	16.8	11.8	7.3
Fuel Oil	65.5	21.1	30.7	53.1	13.1	17.3	27.0	14.9	18.8
District Heat	79.5	71.1	66.9	47.8	28.5	27.4	72.1	48.7	59.8
District Chilled Water	100.1	49.4	79.8	100.1	34.1	73.2	0.0	33.7	86.3
Propane	0.0	72.0	35.4	0.0	51.0	42.2	0.0	25.6	23.8
Other	100.3	68.6	50.6	100.3	49.7	35.0	0.0	32.6	22.1
Space-Heating Energy Sources									
Natural Gas	29.1	10.9	5.4	25.5	11.4	5.9	17.1	11.7	7.7
Natural Gas Main	30.5	10.9	6.0	30.8	10.7	5.9	17.6	11.6	8.1
Natural Gas Secondary	57.1	29.4	20.3	44.2	26.3	17.3	59.7	21.8	19.6
Other Excluding Natural Gas	58.1	30.8	41.1	50.0	53.5	20.4	58.2	71.4	30.2
Buildings without Heating	0.0	100.1	95.9	0.0	100.1	87.4	0.0	0.0	9.7
Primary Space-Heating Energy Source									
Electricity	75.5	24.6	21.3	90.3	22.7	20.4	27.1	11.0	18.8
Natural Gas	30.5	10.9	6.0	30.8	10.7	5.9	17.6	11.6	8.1
Fuel Oil	43.4	47.0	94.8	36.8	73.0	83.6	29.1	101.2	71.3
District Heat	75.2	69.6	66.9	54.1	28.3	27.4	111.7	54.5	59.8
Propane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	85.3	98.9	0.0	79.1	100.3	0.0	11.6	2.2

RSEs for Table C27. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	29.5	10.7	5.1	29.1	10.5	6.0	16.8	11.8	7.3
Cooling Energy Sources									
Natural Gas	55.0	66.3	52.9	58.1	50.3	44.6	58.3	43.3	22.5
Other Excluding Natural Gas	27.0	8.7	5.5	27.0	11.4	6.8	16.5	8.7	6.5
Buildings without Cooling	55.6	27.1	27.4	49.2	32.2	42.3	21.9	47.6	16.5
Water-Heating Energy Sources									
Natural Gas	46.9	10.9	8.8	39.9	11.2	6.1	22.7	13.5	7.3
Other Excluding Natural Gas	30.6	20.1	20.0	30.5	13.6	17.2	33.4	13.6	16.9
Bldgs without Water Heating	53.8	32.9	30.2	58.3	29.2	21.8	35.8	28.1	24.7
Cooking Energy Sources									
Natural Gas	58.6	20.2	11.4	51.6	29.3	9.1	35.2	34.3	7.4
Other Excluding Natural Gas	19.7	50.0	16.9	24.4	23.6	17.5	45.8	30.5	14.4
Buildings without Cooking	35.3	11.6	7.5	22.4	17.7	6.9	29.8	8.2	9.2
Energy End Uses (more than one may apply)									
Buildings with Space Heating	29.5	10.8	5.2	29.1	10.4	6.1	16.8	12.1	7.3
Buildings with Cooling	29.1	11.7	6.2	27.9	11.5	6.6	16.2	10.6	6.6
Buildings with Water Heating	29.5	11.0	5.2	28.7	11.3	6.2	16.9	12.1	7.6
Buildings with Cooking	37.9	19.2	9.9	40.5	25.4	9.8	28.0	28.3	8.4
Buildings with Manufacturing	102.1	35.6	40.4	102.1	29.5	22.3	0.0	17.6	28.5
Buildings with Electricity Generation	45.4	21.9	19.2	47.6	14.6	12.8	10.2	18.1	10.8
Percent of Floorspace Heated									
Not Heated	0.0	100.1	95.9	0.0	100.1	87.4	0.0	0.0	9.7
1 to 50	90.2	38.0	43.8	67.8	42.7	33.2	100.1	14.1	25.6
51 to 99	52.9	40.5	20.4	54.5	23.0	24.1	17.7	34.9	16.9
100	25.1	7.4	6.6	25.6	15.6	7.2	18.8	15.2	7.6
Percent of Floorspace Cooled									
Not Cooled	55.6	27.1	27.4	49.2	32.2	42.3	21.9	47.6	16.5
1 to 50	17.3	14.1	13.7	35.8	13.8	12.6	30.5	9.9	7.3
51 to 99	61.3	28.7	21.1	45.9	21.9	17.4	37.9	28.6	10.6
100	27.2	11.4	9.2	28.1	9.5	11.3	11.8	9.1	8.7
Heating Equipment (more than one may apply)									
Heat Pumps									
Packaged Heat Pumps	77.0	32.4	30.5	60.6	29.2	33.8	78.6	17.7	16.4
Split-System Heat Pumps	100.2	33.3	33.9	100.1	33.4	37.3	0.9	22.9	17.4
Individual Room Heat Pumps	67.5	45.8	51.6	39.4	48.9	40.7	46.2	18.2	59.2
Furnaces	87.6	39.3	40.8	70.4	34.0	49.0	106.5	23.1	19.7
Individual Space Heaters	53.5	17.1	5.9	47.7	17.2	9.6	28.4	18.2	7.4
District Heat	59.8	20.9	9.6	31.9	23.5	13.0	55.5	12.8	8.2
Boilers	75.2	66.4	66.9	54.1	28.0	27.4	111.7	48.5	59.8
Packaged Heating Units	36.9	18.3	10.5	37.3	22.9	7.5	22.6	24.8	6.6
Other	50.6	13.5	12.9	30.9	18.4	12.2	35.2	6.4	14.2
	100.1	41.6	42.1	100.1	26.8	33.7	0.0	34.0	32.1

RSEs for Table C27. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	29.5	10.7	5.1	29.1	10.5	6.0	16.8	11.8	7.3
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners									
Heat Pumps	58.6	14.6	10.6	62.0	25.4	12.2	88.3	30.0	9.3
Packaged Heat Pumps	66.6	33.0	30.5	55.7	29.6	33.5	55.1	16.7	16.2
Split-System Heat Pumps	72.5	35.7	33.8	75.0	33.3	37.3	22.1	25.8	17.3
Individual Room Heat Pumps	67.5	45.8	52.9	39.4	48.9	34.4	46.2	18.2	45.7
Individual Air Conditioners	87.6	39.3	40.8	70.4	34.0	49.0	106.5	23.1	19.7
District Chilled Water	48.1	18.6	12.7	42.2	22.9	15.1	33.5	25.3	8.6
Central Chillers	100.1	49.4	79.8	100.1	34.1	73.2	0.0	33.7	86.3
Packaged Air Conditioning Units	33.0	29.5	20.1	27.0	25.3	12.9	28.2	17.7	13.1
Swamp Coolers	30.6	15.7	7.1	24.1	15.9	9.1	15.6	17.0	9.0
Other	X	100.1	101.3	X	100.1	101.3	X	0.0	0.0
	100.1	47.5	45.0	100.1	28.7	44.3	0.2	48.0	14.4
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating									
Cooling	44.2	13.1	12.7	35.9	18.5	11.0	42.1	13.9	13.9
	39.0	17.8	11.0	28.6	18.3	12.1	35.2	12.0	9.1
Water Heating Equipment									
Centralized System									
Distributed System	24.1	11.4	8.4	33.1	11.6	5.8	21.6	13.0	8.2
Combination of Centralized and Distributed System	70.3	24.9	30.3	30.2	34.8	26.3	58.8	36.9	22.1
	59.9	29.0	22.3	53.7	26.5	15.9	34.2	18.6	15.4
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation									
Activities with Large Amounts of Hot Water	37.9	19.2	9.9	40.5	25.4	9.8	28.0	28.3	8.4
Separate Computer Area	43.2	14.8	13.0	32.5	33.2	11.6	26.3	49.0	13.1
	39.8	18.8	11.4	40.0	9.8	11.8	19.0	14.7	8.9
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System									
Economizer Cycle	59.9	22.6	13.6	40.4	15.3	9.1	37.3	17.0	8.3
HVAC Maintenance	49.8	16.8	10.2	31.7	19.3	8.8	28.8	13.0	8.0
Energy Management and Control System (EMCS)	42.2	12.4	6.8	33.4	12.1	6.0	23.5	13.0	7.0
	44.5	8.0	19.5	45.5	6.6	13.3	23.2	6.5	11.2
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating									
Cooling	24.5	12.0	9.6	31.5	11.0	8.2	10.5	13.8	7.7
Lighting	18.1	12.5	9.8	28.4	12.5	8.5	12.4	12.8	7.9
Office Equipment	21.8	6.5	7.0	30.0	9.8	5.6	12.1	10.5	7.8
	53.2	15.5	11.7	49.0	12.1	12.1	31.5	20.2	13.0

RSEs for Table C27. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 1

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central	New England	Middle Atlantic	East North Central
All Buildings*	29.5	10.7	5.1	29.1	10.5	6.0	16.8	11.8	7.3
Annual Consumption (hundred cubic feet)									
1,000 or Less									
1,001 to 5,000	34.4	11.2	16.0	44.3	57.9	24.4	33.2	114.0	18.7
5,001 to 10,000	24.0	10.9	19.7	38.0	18.3	22.4	22.2	12.5	8.0
10,001 to 25,000	67.7	13.1	16.6	31.8	24.4	14.8	28.1	24.0	10.8
25,001 to 50,000	46.7	16.7	10.0	64.6	14.9	12.1	29.4	13.8	12.0
50,001 to 100,000	74.2	14.4	17.6	78.7	35.5	13.5	12.9	49.5	11.0
Over 100,000	100.2	19.3	21.3	100.2	19.1	14.9	0.4	23.4	16.2
	43.2	29.3	15.9	37.2	23.0	15.7	12.3	13.3	9.7
Provider of Natural Gas (more than one may apply)									
Local Utility									
Some Other Provider	30.2	8.1	6.7	30.7	11.1	6.3	12.2	13.1	8.4
	44.9	28.6	19.1	26.7	24.9	21.0	45.3	27.0	12.8

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

RSEs for Table C28. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	22.1	24.7	16.5	16.8	16.3	9.4	12.5	15.1	13.6
Building Floorspace (Square Feet)									
1,001 to 5,000	14.2	32.4	49.1	10.9	24.2	39.1	11.4	19.6	20.0
5,001 to 10,000	22.7	31.3	36.8	29.5	20.0	40.6	30.7	25.5	9.4
10,001 to 25,000	30.7	30.0	55.5	19.7	29.1	14.6	18.1	23.5	51.4
25,001 to 50,000	40.0	26.4	20.4	21.0	24.0	27.3	26.3	13.9	50.1
50,001 to 100,000	27.3	17.4	21.4	30.8	17.1	24.3	16.9	20.1	7.8
100,001 to 200,000	29.0	68.9	50.9	21.6	49.9	48.2	8.7	42.2	13.4
200,001 to 500,000	41.0	32.4	39.8	52.4	28.9	35.1	30.6	15.9	41.7
Over 500,000	72.6	47.0	52.3	24.2	52.4	46.4	58.3	44.9	9.4
Principal Building Activity									
Education	43.7	15.1	46.2	37.8	21.2	48.9	13.8	21.6	12.9
Food Sales	56.4	62.3	100.1	55.8	48.4	100.1	15.7	48.9	0.0
Food Service	32.3	36.7	36.4	34.5	29.5	12.5	19.9	27.0	32.9
Health Care	46.6	53.5	32.8	13.9	45.6	28.2	37.0	19.7	8.3
Inpatient	51.3	56.1	24.4	28.2	53.6	22.1	30.7	10.6	5.5
Outpatient	35.5	54.1	98.5	13.5	48.6	43.7	44.6	52.2	41.7
Lodging	16.3	33.9	28.4	20.0	38.7	28.0	13.6	26.0	19.6
Retail (Other Than Mall)	55.5	38.1	15.5	45.0	36.1	25.4	21.0	23.0	18.0
Office	29.4	23.1	54.3	18.7	20.8	43.7	12.4	22.7	12.5
Public Assembly	47.2	39.3	88.5	30.2	19.0	78.9	27.5	29.4	13.6
Public Order and Safety	9.2	87.3	79.0	9.4	61.0	28.0	1.9	114.4	71.6
Religious Worship	36.5	56.5	39.8	35.1	42.3	43.0	5.7	39.0	4.3
Service	27.0	45.9	68.3	37.2	47.8	57.7	33.0	43.2	11.9
Warehouse and Storage	53.3	40.2	78.0	34.6	45.1	59.8	46.0	37.7	49.1
Other	88.1	98.4	93.5	89.5	88.5	70.1	15.0	85.6	50.4
Vacant	89.9	101.3	X	70.2	80.4	X	76.5	24.2	X
Year Constructed									
Before 1920	24.4	76.7	100.3	24.3	75.8	100.3	9.2	27.7	0.3
1920 to 1945	59.0	40.5	39.3	41.5	33.9	35.0	36.0	34.7	14.7
1946 to 1959	43.9	72.4	49.2	36.4	44.6	56.7	13.6	55.8	37.5
1960 to 1969	29.2	28.0	22.5	22.0	23.7	37.5	19.5	20.0	24.9
1970 to 1979	24.1	25.7	17.5	22.3	26.7	15.7	17.8	21.1	29.2
1980 to 1989	26.8	25.4	60.3	29.7	21.5	18.8	18.5	15.0	37.3
1990 to 1999	17.0	29.0	22.7	13.6	19.8	37.1	14.0	22.3	13.9
2000 to 2003	32.1	34.2	61.1	25.4	25.6	27.8	18.5	23.0	57.1
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	23.5	0.0	0.0	24.2	0.0	0.0	5.1	0.0	0.0
5,500-7,000 HDD	32.9	0.0	0.0	57.7	0.0	0.0	63.3	0.0	0.0
4,000-5,499 HDD	49.4	31.7	70.5	24.7	39.2	72.8	34.6	20.6	70.7
Fewer than 4,000 HDD	0.0	40.9	61.1	0.0	28.1	63.0	0.0	22.9	5.9
2,000 CDD or More and --									
Fewer than 4,000 HDD	0.0	66.1	91.9	0.0	53.6	93.6	0.0	41.1	1.5
Number of Floors									
One	18.3	27.8	38.4	18.2	22.3	26.2	7.4	13.8	14.6
Two	27.2	27.2	40.9	17.1	20.8	21.3	20.3	21.6	41.4
Three	33.7	69.4	25.6	31.0	38.8	14.0	5.0	54.4	14.0
Four to Nine	33.2	35.7	34.5	28.1	43.7	35.6	19.4	23.3	13.3
Ten or More	69.8	49.4	13.3	37.7	47.0	29.2	60.5	28.4	20.4

RSEs for Table C28. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	22.1	24.7	16.5	16.8	16.3	9.4	12.5	15.1	13.6
Number of Workers (main shift)									
Fewer than 5	25.3	29.7	51.7	24.8	31.2	40.6	7.9	27.7	17.8
5 to 9	26.4	27.4	40.7	21.2	25.3	23.6	16.5	19.4	39.9
10 to 19	24.1	35.9	41.1	34.3	28.2	38.4	23.6	31.6	24.7
20 to 49	43.9	34.8	46.8	23.9	35.9	14.3	30.9	16.0	35.7
50 to 99	27.4	34.4	45.6	30.3	23.7	33.0	11.8	21.7	35.2
100 to 249	30.0	55.0	34.8	31.0	32.5	27.9	15.6	38.0	15.7
250 or More	39.9	35.3	23.0	25.3	39.9	42.5	54.3	29.6	14.5
Weekly Operating Hours									
Fewer than 40	34.1	37.0	50.0	25.0	32.7	22.3	20.2	37.6	31.1
40 to 48	31.8	25.4	30.4	17.6	25.0	8.9	28.9	23.6	21.6
49 to 60	35.8	19.5	79.3	21.0	18.0	25.1	22.8	6.9	51.4
61 to 84	33.1	25.5	36.8	31.7	35.1	21.0	10.4	22.8	30.0
85 to 167	30.2	22.5	53.1	34.7	23.4	42.9	16.4	37.0	62.6
Open Continuously	20.9	38.6	8.3	15.5	29.5	11.4	18.4	26.2	7.7
Ownership and Occupancy									
Nongovernment Owned	22.4	26.9	25.0	16.4	20.1	13.4	11.5	15.3	18.5
Owner Occupied	30.0	37.8	15.3	19.2	16.8	12.2	17.4	29.9	5.5
Nonowner Occupied	19.8	24.2	30.7	18.0	28.6	20.2	12.6	25.5	30.9
Unoccupied	80.7	X	X	94.9	X	X	81.5	X	X
Government Owned	24.9	22.6	16.7	24.0	16.2	18.0	15.9	17.8	13.7
Federal	100.2	48.5	45.2	100.2	52.1	40.1	1.3	14.4	82.3
State	54.6	55.1	37.1	54.1	47.4	26.0	97.7	10.6	16.4
Local	39.7	30.7	30.4	37.6	27.8	18.1	18.1	23.9	34.9
Vacancy Status									
Completely Vacant	99.5	100.1	X	76.0	100.1	X	101.5	0.0	X
Mostly Vacant	97.8	101.3	0.0	97.8	101.3	0.0	0.0	0.0	0.0
Partially Vacant	34.2	45.6	15.7	32.9	35.3	24.8	16.0	21.0	23.1
Not At All Vacant	22.0	26.9	18.4	15.3	16.9	13.9	14.2	15.9	16.6
Number of Establishments									
One	26.3	29.0	19.4	18.7	19.9	15.9	16.6	15.7	15.6
2 to 5	36.1	33.4	55.2	23.4	26.2	26.0	20.0	22.5	28.9
6 to 10	19.8	98.6	100.1	28.4	98.6	100.1	33.8	0.0	0.0
11 to 20	19.1	67.8	81.7	5.8	63.2	17.0	14.6	50.8	58.6
More than 20	93.4	63.0	100.0	62.8	49.8	100.0	91.0	49.5	2.3
Currently Unoccupied	99.5	100.1	X	76.0	100.1	X	101.5	0.0	X
Predominant Exterior Wall Material									
Brick, Stone or Stucco	24.8	15.1	7.6	22.8	16.1	7.2	9.6	7.1	9.9
Concrete (Block or Poured)	42.2	65.2	58.3	31.9	40.9	30.9	27.4	59.5	32.9
Concrete Panels	10.8	60.6	64.3	24.1	53.0	48.8	20.0	24.3	15.0
Siding or Shingles	9.6	40.3	67.8	15.6	34.2	60.6	17.8	46.9	56.3
Metal Panels	30.7	44.4	63.7	24.5	25.1	46.7	15.2	44.9	45.5
Window Glass	100.7	49.9	0.0	100.7	41.1	0.0	0.0	40.5	0.0
Other	100.2	80.5	92.0	100.2	73.2	62.7	0.0	11.0	82.6
No One Major Type	100.0	X	0.0	100.0	X	0.0	0.0	X	0.0

RSEs for Table C28. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	22.1	24.7	16.5	16.8	16.3	9.4	12.5	15.1	13.6
Predominant Roof Material									
Built-Up	36.3	42.9	40.0	20.3	29.3	19.4	26.1	22.2	30.1
Shingles (Not Wood)	28.5	27.8	14.1	23.9	21.6	30.9	26.7	22.3	15.9
Metal Surfacing	20.5	29.1	44.1	14.7	20.5	46.5	7.5	34.4	9.8
Synthetic or Rubber	27.5	19.3	35.4	27.9	19.8	21.3	20.3	13.1	32.4
Slate or Tile	71.0	59.6	30.3	74.7	32.0	39.4	17.2	41.4	23.5
Wooden Materials	76.7	73.1	93.1	78.5	89.5	93.1	12.3	460.8	0.0
Concrete	67.3	60.3	0.0	72.7	63.6	0.0	37.6	82.8	0.0
Other	0.0	103.4	0.0	0.0	103.4	0.0	0.0	0.0	0.0
No One Major Type	0.0	98.0	0.0	0.0	72.9	0.0	0.0	97.3	0.0
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	33.7	44.8	13.4	21.5	25.1	10.4	19.5	27.0	14.3
Addition or Annex	50.7	63.8	25.8	30.7	53.7	15.9	33.5	25.6	26.4
Reduction In Floorspace	89.2	91.4	100.2	84.6	73.6	100.1	30.3	72.6	2.1
Cosmetic Improvements	21.1	25.4	16.0	19.1	18.8	14.0	5.2	15.5	14.2
Wall or Roof Replacement	28.4	32.7	41.7	28.8	21.6	34.5	14.7	20.5	12.8
Interior Wall Re-Configuration	22.9	30.5	38.5	20.3	17.2	29.1	12.6	21.4	15.7
HVAC Equipment Upgrade	39.5	50.7	30.0	24.6	30.8	23.0	29.0	29.9	13.4
Lighting Upgrade	21.7	33.9	24.5	25.2	29.6	14.5	10.4	20.8	13.1
Window Replacement	24.5	56.6	33.2	15.4	39.4	46.6	11.8	45.6	38.6
Plumbing System Upgrade	30.6	30.0	37.2	33.8	29.7	21.9	11.7	20.5	14.3
Insulation Upgrade	21.7	66.1	39.2	18.0	52.8	25.6	7.6	52.1	21.9
Other Renovation	0.0	100.1	76.4	0.0	100.1	70.7	0.0	0.0	71.6
No Renovations Since 1980	30.2	39.9	18.0	24.8	40.4	8.8	15.6	13.4	18.7
Building Newer than 1980	18.0	22.8	28.1	14.5	14.9	22.0	13.8	16.8	18.4
Energy Sources (more than one may apply)									
Electricity	20.9	16.3	19.0	15.4	14.4	5.6	13.1	13.0	14.1
Natural Gas	22.1	24.7	16.5	16.8	16.3	9.4	12.5	15.1	13.6
Fuel Oil	20.7	40.6	14.1	20.6	28.2	6.7	22.4	27.6	13.0
District Heat	58.6	53.2	75.1	66.9	44.9	74.0	45.3	65.8	3.6
District Chilled Water	78.2	48.7	63.5	71.3	38.1	66.7	69.2	52.6	10.2
Propane	26.2	80.9	65.9	38.9	70.6	58.6	38.4	36.3	18.8
Other	64.1	55.9	62.1	63.8	33.6	28.4	22.5	23.0	51.2
Space-Heating Energy Sources									
Natural Gas	21.7	27.0	16.1	15.6	20.2	11.1	12.6	15.6	14.2
Natural Gas Main	23.3	28.8	19.0	16.7	21.9	9.0	13.8	16.4	12.8
Natural Gas Secondary	8.9	23.6	53.4	24.8	16.7	38.3	31.8	20.4	24.6
Other Excluding Natural Gas	57.2	34.0	54.8	60.9	26.6	14.2	29.2	25.3	65.6
Buildings without Heating	100.0	75.1	97.3	100.0	70.5	97.3	0.0	70.0	0.0
Primary Space-Heating Energy Source									
Electricity	11.3	30.1	40.0	22.0	22.3	30.6	27.1	21.6	24.4
Natural Gas	23.3	28.8	19.0	16.7	21.9	9.0	13.8	16.4	12.8
Fuel Oil	X	23.9	0.0	X	21.4	0.0	X	51.3	0.0
District Heat	74.9	59.3	93.6	73.2	44.6	93.6	105.4	72.6	0.0
Propane	0.0	X	0.0	0.0	X	0.0	0.0	X	0.0
Other	100.1	100.8	0.0	100.1	100.8	0.0	0.0	0.0	0.0

RSEs for Table C28. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	22.1	24.7	16.5	16.8	16.3	9.4	12.5	15.1	13.6
Cooling Energy Sources									
Natural Gas	53.5	53.9	100.0	54.6	48.3	100.0	60.5	65.5	0.0
Other Excluding Natural Gas	24.7	24.7	16.7	17.2	16.8	9.2	12.8	14.3	13.8
Buildings without Cooling	44.3	46.2	86.0	30.5	40.6	80.8	35.4	32.8	32.3
Water-Heating Energy Sources									
Natural Gas	27.2	27.9	19.6	19.5	18.4	9.7	14.4	18.7	15.8
Other Excluding Natural Gas	11.5	22.1	11.8	19.9	20.0	10.1	26.1	18.3	8.8
Bldgs without Water Heating	52.3	35.9	27.6	29.0	34.9	19.4	39.7	30.8	20.5
Cooking Energy Sources									
Natural Gas	23.9	29.5	9.4	25.3	16.9	18.0	17.8	22.2	11.3
Other Excluding Natural Gas	41.5	37.6	32.4	38.0	41.8	17.3	26.8	17.5	22.7
Buildings without Cooking	26.5	25.3	32.6	15.9	26.0	13.1	15.7	11.3	28.9
Energy End Uses (more than one may apply)									
Buildings with Space Heating	22.1	24.8	16.5	16.7	16.2	10.4	12.6	15.2	14.1
Buildings with Cooling	23.7	24.8	16.5	17.0	16.7	8.9	12.6	15.1	13.8
Buildings with Water Heating	22.0	24.8	16.6	16.7	15.8	9.6	11.9	16.2	13.8
Buildings with Cooking	25.0	27.5	9.0	25.3	17.4	16.9	16.8	23.2	10.5
Buildings with Manufacturing	66.8	54.7	47.2	32.8	26.3	50.8	57.9	43.3	7.4
Buildings with Electricity Generation	20.2	33.3	15.0	26.6	19.4	15.5	23.0	25.0	5.5
Percent of Floorspace Heated									
Not Heated	100.0	75.1	97.3	100.0	70.5	97.3	0.0	70.0	0.0
1 to 50	38.6	39.4	84.2	26.0	22.5	76.7	39.0	41.0	30.3
51 to 99	29.0	20.2	29.2	28.5	22.4	34.1	27.5	19.5	11.3
100	22.8	27.5	22.8	18.2	19.4	20.2	12.1	13.5	17.4
Percent of Floorspace Cooled									
Not Cooled	44.3	46.2	86.0	30.5	40.6	80.8	35.4	32.8	32.3
1 to 50	47.5	35.0	25.3	35.5	40.2	33.3	31.3	30.5	16.8
51 to 99	18.1	15.6	11.2	22.6	11.9	23.9	16.4	15.9	14.2
100	20.4	27.7	22.9	16.6	15.5	15.5	8.9	24.3	18.1
Heating Equipment (more than one may apply)									
Heat Pumps	35.8	42.2	31.2	39.9	24.2	29.3	8.0	35.8	19.5
Packaged Heat Pumps	50.2	61.9	41.0	51.0	37.8	36.2	11.0	58.3	21.6
Split-System Heat Pumps	76.1	31.0	45.1	70.8	33.7	55.0	50.4	35.1	12.2
Individual Room Heat Pumps	102.7	37.6	40.0	102.5	30.7	38.6	1.5	28.2	12.0
Furnaces	25.0	48.0	4.3	15.6	33.9	14.1	17.0	24.1	11.9
Individual Space Heaters	33.7	22.8	31.9	24.5	18.1	19.5	21.8	17.1	33.2
District Heat	66.2	53.2	75.1	62.2	44.9	74.0	83.4	65.8	3.6
Boilers	21.6	30.7	31.9	20.7	31.7	15.6	10.8	27.0	15.9
Packaged Heating Units	17.2	38.2	15.4	17.7	19.4	18.1	12.7	30.5	7.9
Other	54.2	35.8	84.2	44.9	51.0	78.9	17.0	51.3	10.2

RSEs for Table C28. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	22.1	24.7	16.5	16.8	16.3	9.4	12.5	15.1	13.6
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	30.2	44.3	20.4	15.0	33.5	16.3	21.6	39.6	15.4
Heat Pumps	29.5	42.5	30.3	30.4	26.1	29.3	5.8	34.6	13.7
Packaged Heat Pumps	47.1	62.8	41.1	47.1	41.8	40.7	10.0	57.6	27.3
Split-System Heat Pumps	61.6	31.1	57.1	62.1	34.0	59.7	30.5	33.7	10.1
Individual Room Heat Pumps	102.7	37.8	40.0	102.5	30.5	38.6	1.5	28.1	12.0
Individual Air Conditioners	22.8	49.8	26.4	28.8	32.6	14.3	8.7	42.2	22.1
District Chilled Water	78.2	48.7	63.5	71.3	38.1	66.7	69.2	52.6	10.2
Central Chillers	30.4	28.8	22.5	22.9	32.7	24.7	27.6	18.8	2.1
Packaged Air Conditioning Units	17.5	30.7	20.5	18.0	22.8	8.0	6.6	15.9	25.0
Swamp Coolers	0.0	80.0	X	0.0	74.4	X	0.0	37.9	X
Other	96.7	98.4	100.0	96.7	86.4	100.0	0.0	87.7	0.0
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	36.8	25.7	38.3	20.4	24.4	11.3	25.8	9.3	52.2
Cooling	33.1	23.3	30.1	22.3	25.6	12.0	20.7	11.8	40.6
Water Heating Equipment									
Centralized System	14.9	19.2	11.7	16.2	17.3	11.8	11.3	10.9	6.1
Distributed System	35.5	28.3	12.5	20.3	25.1	15.2	21.6	22.6	30.6
Combination of Centralized and Distributed System	32.5	45.6	52.6	22.7	13.9	11.7	27.9	38.9	41.9
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	25.0	27.5	9.0	25.3	17.4	16.9	16.8	23.2	10.5
Activities with Large Amounts of Hot Water	30.4	28.5	9.4	23.9	17.6	12.6	18.1	22.5	10.2
Separate Computer Area	17.3	21.6	8.7	17.6	19.0	7.3	9.1	11.5	8.3
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	28.9	18.4	37.0	29.0	19.5	18.9	14.4	12.4	20.3
Economizer Cycle	24.7	14.7	16.8	18.5	17.7	18.7	15.2	12.8	8.5
HVAC Maintenance	15.8	25.1	19.8	18.4	17.0	8.7	10.5	16.1	17.0
Energy Management and Control System (EMCS)	17.3	16.8	34.1	27.1	17.1	27.3	24.8	13.9	12.6
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	26.7	16.1	21.5	22.1	14.9	19.2	17.9	9.2	16.5
Cooling	27.4	16.8	20.9	19.4	16.1	19.2	17.7	8.9	15.7
Lighting	24.9	18.0	31.6	18.4	15.4	11.5	14.5	11.5	24.1
Office Equipment	34.2	26.3	15.4	17.6	27.2	23.6	25.5	23.1	10.2

RSEs for Table C28. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 2

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central	West North Central	South Atlantic	East South Central
All Buildings*	22.1	24.7	16.5	16.8	16.3	9.4	12.5	15.1	13.6
Annual Consumption (hundred cubic feet)									
1,000 or Less	17.7	27.4	44.0	4.9	32.4	33.6	14.7	13.1	38.0
1,001 to 5,000	21.5	25.1	33.2	27.5	25.1	30.2	13.0	12.8	11.7
5,001 to 10,000	19.3	22.3	22.6	22.9	27.5	28.9	9.5	19.9	13.1
10,001 to 25,000	28.8	22.4	37.2	23.7	17.7	17.6	7.3	11.9	25.0
25,001 to 50,000	17.7	33.1	18.1	17.1	19.0	17.4	10.5	30.0	9.2
50,001 to 100,000	57.0	53.1	63.2	39.1	50.2	51.2	46.2	24.3	73.5
Over 100,000	21.3	44.9	22.7	18.5	40.4	21.3	22.9	33.4	3.3
Provider of Natural Gas (more than one may apply)									
Local Utility	23.6	27.1	20.6	18.3	17.1	9.6	11.8	17.6	15.9
Some Other Provider	33.3	34.0	80.2	43.7	50.2	83.6	19.0	36.9	22.5
	22.0	27.0	Q	307.0	Q	Q	71.8	31.4	Q

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

RSEs for Table C29. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	14.9	22.1	16.2	17.1	14.7	9.1	12.1	9.3	10.3
Building Floorspace (Square Feet)									
1,001 to 5,000	23.7	30.5	53.2	26.6	27.1	26.5	29.9	29.3	41.3
5,001 to 10,000	23.8	59.1	58.8	25.3	46.0	21.9	33.7	11.9	42.9
10,001 to 25,000	35.5	29.7	17.8	17.3	20.1	14.2	31.9	10.6	17.4
25,001 to 50,000	28.2	36.9	21.1	14.5	23.9	21.7	21.6	13.1	16.3
50,001 to 100,000	25.2	50.0	37.5	21.1	35.6	32.1	14.2	24.2	24.2
100,001 to 200,000	21.4	24.8	27.1	32.1	21.0	23.9	28.8	25.5	36.7
200,001 to 500,000	62.2	42.6	16.0	18.0	48.8	32.0	53.6	52.9	41.1
Over 500,000	43.4	69.0	43.7	70.3	58.3	39.1	26.9	43.3	21.4
Principal Building Activity									
Education	32.0	37.3	33.1	29.1	30.7	12.0	14.2	8.8	34.9
Food Sales	64.5	62.0	87.0	56.1	63.8	60.6	32.7	54.5	38.5
Food Service	28.4	62.7	34.5	28.7	73.2	22.8	22.0	27.8	29.2
Health Care	30.0	19.9	43.1	27.9	22.2	36.7	8.4	11.3	14.1
Inpatient	34.4	19.9	45.0	31.2	15.6	44.1	9.1	8.7	16.6
Outpatient	98.2	50.4	49.1	82.7	47.1	29.1	20.6	22.6	26.1
Lodging	34.9	64.3	29.9	44.1	46.2	24.1	15.6	38.3	26.2
Retail (Other Than Mall)	39.0	27.5	20.9	15.6	42.5	28.9	32.5	16.2	22.8
Office	46.8	35.1	17.3	51.1	14.2	21.1	13.9	31.2	11.4
Public Assembly	29.0	59.4	32.4	37.9	35.4	21.5	27.4	41.0	37.3
Public Order and Safety	97.7	65.2	82.1	97.7	60.8	30.3	0.0	7.2	47.0
Religious Worship	51.9	24.6	20.7	32.8	27.5	22.9	18.9	10.5	18.6
Service	61.3	36.9	74.3	54.7	56.5	80.9	21.0	13.1	71.7
Warehouse and Storage	63.2	71.0	51.3	36.7	56.9	46.4	45.9	58.4	36.7
Other	64.3	67.5	91.8	41.9	51.7	58.5	53.7	33.7	34.0
Vacant	95.1	86.0	64.5	66.1	73.4	50.6	49.4	135.8	48.6
Year Constructed									
Before 1920	78.5	61.1	56.7	76.6	47.9	40.9	8.3	11.4	39.3
1920 to 1945	44.8	27.3	49.1	35.7	44.6	33.1	29.7	26.2	45.3
1946 to 1959	19.5	69.2	34.5	22.3	47.5	25.9	16.5	36.5	15.1
1960 to 1969	36.4	35.8	22.5	38.5	25.9	20.4	18.4	20.8	16.9
1970 to 1979	27.1	22.7	48.3	25.2	32.7	34.0	22.5	13.5	48.5
1980 to 1989	29.2	48.1	27.5	33.8	33.0	22.0	26.8	28.5	16.5
1990 to 1999	23.8	27.1	39.9	22.0	31.3	27.4	24.2	20.4	31.1
2000 to 2003	52.3	45.7	47.3	44.9	39.6	30.9	9.0	65.5	26.9
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	0.0	29.0	87.8	0.0	15.4	87.5	0.0	12.1	1.7
5,500-7,000 HDD	0.0	31.6	21.7	0.0	33.4	17.9	0.0	7.2	5.0
4,000-5,499 HDD	95.5	0.0	33.4	95.8	0.0	41.7	0.6	0.0	8.3
Fewer than 4,000 HDD	11.3	0.0	19.7	11.4	0.0	8.4	13.7	0.0	16.9
2,000 CDD or More and --									
Fewer than 4,000 HDD	25.3	38.1	100.1	26.0	48.4	100.1	17.2	30.9	3.5
Number of Floors									
One	18.1	34.2	24.5	17.2	20.0	14.3	10.6	15.5	28.2
Two	26.4	13.7	27.3	19.6	16.9	18.6	22.8	14.7	15.6
Three	34.3	16.1	23.3	25.9	24.1	23.2	22.1	13.5	17.2
Four to Nine	31.7	60.9	33.8	23.9	32.6	32.7	19.6	31.1	33.9
Ten or More	48.6	82.5	50.3	68.0	73.6	53.0	16.6	41.9	24.3

RSEs for Table C29. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	14.9	22.1	16.2	17.1	14.7	9.1	12.1	9.3	10.3
Number of Workers (main shift)									
Fewer than 5	20.2	44.6	46.9	22.4	15.7	22.9	22.0	46.7	42.2
5 to 9	44.4	37.6	48.2	27.8	31.3	24.0	30.9	13.1	40.1
10 to 19	22.9	29.5	27.6	20.7	27.4	22.6	20.6	21.8	20.8
20 to 49	42.0	49.5	27.0	18.4	35.7	25.7	33.9	11.4	14.9
50 to 99	27.1	42.7	23.3	25.2	30.1	25.2	21.2	29.1	13.5
100 to 249	26.5	26.8	22.0	19.4	26.5	15.7	22.3	19.8	28.5
250 or More	36.4	50.6	34.2	56.2	44.9	26.8	23.2	23.6	18.4
Weekly Operating Hours									
Fewer than 40	23.2	53.4	72.2	18.9	31.8	32.6	18.9	25.9	43.8
40 to 48	30.4	35.7	26.0	23.3	34.5	18.4	25.9	8.0	18.1
49 to 60	24.7	25.4	26.6	22.9	24.2	23.0	24.9	9.0	13.7
61 to 84	34.4	46.4	39.2	18.8	29.7	13.2	27.7	44.2	37.2
85 to 167	33.9	33.6	15.8	24.6	29.6	13.0	19.1	48.0	6.1
Open Continuously	27.9	34.8	29.5	31.4	27.2	21.1	11.6	14.9	23.1
Ownership and Occupancy									
Nongovernment Owned	15.5	26.8	20.8	19.0	18.5	10.3	13.5	10.5	13.3
Owner Occupied	22.2	34.2	23.3	22.9	27.8	15.7	15.2	5.5	9.9
Nonowner Occupied	24.1	32.0	23.4	18.7	26.8	12.2	17.4	16.3	17.9
Unoccupied	95.1	X	100.7	66.1	X	69.1	49.4	X	51.7
Government Owned	26.5	32.3	30.1	27.1	21.0	15.4	16.3	16.6	25.3
Federal	93.1	75.1	53.0	66.0	64.1	47.9	89.3	12.1	26.4
State	40.9	51.0	57.6	40.4	50.3	41.7	17.5	64.2	38.4
Local	25.5	34.0	24.8	28.0	30.9	30.5	15.8	14.7	26.4
Vacancy Status									
Completely Vacant	95.1	X	100.7	66.1	X	69.1	49.4	X	51.7
Mostly Vacant	0.0	86.0	81.9	0.0	73.4	74.4	0.0	135.8	76.8
Partially Vacant	31.8	35.6	20.7	42.9	26.1	24.9	24.4	13.0	15.1
Not At All Vacant	13.3	24.7	19.1	13.5	16.5	10.7	11.7	10.7	13.1
Number of Establishments									
One	14.4	20.6	17.2	16.2	12.7	7.9	14.1	9.1	15.0
2 to 5	22.1	47.1	33.2	24.8	32.7	24.8	16.3	21.9	19.4
6 to 10	93.2	29.7	22.0	46.3	22.6	29.8	51.1	14.4	12.8
11 to 20	240.7	79.4	59.2	46.4	63.4	40.8	199.5	51.4	42.2
More than 20	63.7	101.0	58.8	50.0	101.0	51.6	25.2	0.0	22.6
Currently Unoccupied	95.1	X	100.7	66.1	X	69.1	49.4	X	51.7
Predominant Exterior Wall Material									
Brick, Stone or Stucco	21.0	28.1	20.5	19.6	23.1	15.5	18.3	8.0	16.0
Concrete (Block or Poured)	28.2	38.8	31.3	12.9	19.6	18.9	22.2	28.9	18.4
Concrete Panels	37.7	60.6	29.3	34.8	50.9	21.9	29.7	18.6	23.8
Siding or Shingles	42.1	23.0	35.4	40.1	53.5	20.3	44.0	84.8	19.5
Metal Panels	44.6	56.9	24.9	44.3	44.2	24.5	23.0	13.0	23.2
Window Glass	76.1	70.9	80.5	43.3	70.1	63.1	52.8	4.4	19.6
Other	90.2	95.1	49.7	72.1	95.1	56.6	22.9	0.0	65.3
No One Major Type	100.2	97.6	70.1	100.2	97.6	64.6	0.0	0.0	95.1

RSEs for Table C29. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	14.9	22.1	16.2	17.1	14.7	9.1	12.1	9.3	10.3
Predominant Roof Material									
Built-Up	24.4	30.3	21.1	21.9	22.0	14.1	20.0	12.0	26.0
Shingles (Not Wood)	25.7	20.1	29.3	20.8	11.1	26.3	18.7	19.1	26.0
Metal Surfacing	32.0	44.0	27.7	30.0	27.3	29.4	23.1	22.4	13.7
Synthetic or Rubber	28.9	40.0	39.4	29.2	30.8	37.5	11.7	18.0	36.6
Slate or Tile	44.7	45.8	40.4	46.2	23.7	32.4	28.4	33.7	11.3
Wooden Materials	53.6	58.4	70.2	53.8	56.4	58.2	12.7	16.9	46.1
Concrete	74.3	100.2	85.5	84.6	100.2	40.8	24.9	0.3	40.1
Other	X	81.0	61.3	X	78.6	56.8	X	15.6	104.7
No One Major Type	96.8	0.0	82.1	96.8	0.0	5.4	0.2	0.0	81.2
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	21.1	15.3	27.5	18.8	10.5	18.4	16.3	8.6	16.2
Addition or Annex	40.4	18.5	34.4	32.9	14.0	18.2	15.8	4.6	38.3
Reduction In Floorspace	100.1	88.3	100.7	100.1	86.2	100.7	0.0	4.6	0.0
Cosmetic Improvements	21.0	9.7	28.7	20.8	11.0	17.9	20.9	11.9	17.5
Wall or Roof Replacement	33.3	41.5	29.8	27.5	23.9	31.8	15.3	19.7	20.7
Interior Wall Re-Configuration	28.5	15.3	32.8	16.2	13.5	25.1	28.7	9.6	16.6
HVAC Equipment Upgrade	21.9	13.8	30.8	24.4	12.7	24.9	24.8	8.4	20.0
Lighting Upgrade	24.4	8.8	32.2	23.3	11.2	20.7	29.5	9.0	20.8
Window Replacement	30.4	59.8	26.8	36.4	39.5	27.9	30.1	20.6	18.6
Plumbing System Upgrade	27.6	31.5	30.4	33.4	21.7	29.8	21.6	13.9	10.1
Insulation Upgrade	29.7	37.6	37.4	34.7	27.7	51.4	26.2	32.7	51.7
Other Renovation	0.0	X	99.2	0.0	X	99.2	0.0	X	0.0
No Renovations Since 1980	13.2	28.9	30.7	16.3	22.7	17.4	13.0	11.9	24.4
Building Newer than 1980	19.1	37.4	23.0	25.1	27.9	19.3	17.1	17.1	15.4
Energy Sources (more than one may apply)									
Electricity	13.7	22.8	21.3	19.0	15.0	11.8	12.6	9.0	12.1
Natural Gas	14.9	22.1	16.2	17.1	14.7	9.1	12.1	9.3	10.3
Fuel Oil	30.4	54.4	30.9	51.4	43.9	20.9	28.4	27.4	23.5
District Heat	57.6	99.4	51.9	83.6	84.4	32.4	76.4	510.8	26.8
District Chilled Water	55.0	59.8	56.7	74.4	50.3	60.5	67.1	67.2	28.7
Propane	23.7	77.5	37.1	44.4	56.4	28.0	28.9	52.4	29.4
Other	90.3	104.0	44.7	61.2	104.2	45.1	94.2	0.5	30.4
Space-Heating Energy Sources									
Natural Gas	18.2	22.5	18.5	13.5	16.2	12.4	11.9	7.3	10.7
Natural Gas Main	18.0	21.2	21.0	13.4	13.9	15.5	11.6	7.9	11.5
Natural Gas Secondary	55.8	45.7	31.2	38.4	43.8	27.1	23.4	36.8	21.6
Other Excluding Natural Gas	25.4	50.3	13.5	37.6	51.6	26.4	35.3	72.9	30.9
Buildings without Heating	97.8	97.6	86.0	81.4	97.6	33.0	86.3	0.0	90.1
Primary Space-Heating Energy Source									
Electricity	24.2	37.5	18.8	31.7	39.5	21.0	16.4	29.4	14.1
Natural Gas	18.0	21.2	21.0	13.4	13.9	15.5	11.6	7.9	11.5
Fuel Oil	0.0	X	0.0	0.0	X	0.0	0.0	X	0.0
District Heat	64.8	99.4	51.9	87.3	84.4	32.4	82.7	510.8	26.8
Propane	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	X	0.0	0.0	X	0.0	0.0	X

RSEs for Table C29. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	14.9	22.1	16.2	17.1	14.7	9.1	12.1	9.3	10.3
Cooling Energy Sources									
Natural Gas	78.7	35.7	41.5	87.3	34.9	61.8	12.1	11.0	93.7
Other Excluding Natural Gas	15.9	23.5	16.4	17.5	16.8	8.1	12.5	8.3	13.4
Buildings without Cooling	94.4	41.7	25.8	80.8	50.8	31.8	25.8	83.9	25.8
Water-Heating Energy Sources									
Natural Gas	18.0	19.3	18.5	13.6	14.9	10.8	13.3	8.0	10.8
Other Excluding Natural Gas	11.4	67.4	19.4	34.0	34.5	9.5	28.8	26.0	14.5
Bldgs without Water Heating	60.6	38.9	66.0	40.9	19.4	47.3	34.4	30.7	51.0
Cooking Energy Sources									
Natural Gas	22.6	35.6	19.7	22.3	26.9	20.3	17.2	15.3	15.4
Other Excluding Natural Gas	43.8	43.3	31.1	42.5	46.1	19.8	11.0	16.4	35.7
Buildings without Cooking	19.6	23.9	23.4	14.7	10.5	11.5	13.7	15.9	21.3
Energy End Uses (more than one may apply)									
Buildings with Space Heating	15.2	22.1	15.7	17.0	14.8	9.4	12.1	8.8	10.0
Buildings with Cooling	15.3	23.2	16.4	17.4	16.8	8.7	12.1	8.0	10.9
Buildings with Water Heating	16.2	22.8	17.3	17.6	16.1	9.9	13.2	8.8	10.1
Buildings with Cooking	22.1	34.9	19.4	25.0	28.5	18.1	16.2	13.4	13.9
Buildings with Manufacturing	68.6	75.4	45.7	56.5	64.1	43.1	36.7	38.5	32.7
Buildings with Electricity Generation	29.6	48.2	27.4	36.3	30.2	20.6	27.2	30.3	18.7
Percent of Floorspace Heated									
Not Heated	97.8	97.6	86.0	81.4	97.6	33.0	86.3	0.0	90.1
1 to 50	64.5	77.8	27.0	35.0	63.6	13.0	56.5	19.7	29.9
51 to 99	30.1	43.4	24.6	25.1	36.6	16.0	20.8	20.2	14.5
100	16.6	24.7	20.1	20.7	20.3	12.2	11.0	7.7	14.8
Percent of Floorspace Cooled									
Not Cooled	94.4	41.7	25.8	80.8	50.8	31.8	25.8	83.9	25.8
1 to 50	34.5	48.5	30.0	31.4	36.5	28.6	22.6	25.3	30.5
51 to 99	36.9	28.4	31.3	24.2	16.0	25.2	23.1	19.8	16.6
100	20.2	36.5	18.5	24.9	28.9	12.6	11.1	15.8	13.4
Heating Equipment (more than one may apply)									
Heat Pumps	38.1	79.9	22.7	16.5	59.9	12.5	29.3	55.2	17.9
Packaged Heat Pumps	47.2	80.9	22.1	23.4	65.6	35.7	32.3	50.1	12.9
Split-System Heat Pumps	100.3	59.9	52.3	100.3	52.0	39.6	0.0	31.8	39.2
Individual Room Heat Pumps	65.3	55.5	23.1	58.8	54.4	25.9	61.7	15.5	38.8
Furnaces	17.6	31.6	40.2	17.2	17.4	24.6	13.1	14.3	25.1
Individual Space Heaters	45.2	24.0	41.0	32.4	15.5	18.7	27.2	9.5	28.4
District Heat	57.6	99.4	51.9	83.6	84.4	32.4	76.4	510.8	26.8
Boilers	27.4	25.7	24.8	24.5	23.2	21.3	13.9	8.9	16.4
Packaged Heating Units	19.9	44.8	12.3	14.3	28.1	10.9	18.7	34.1	7.8
Other	31.2	67.5	27.4	47.0	67.5	41.3	32.6	4.1	48.8

RSEs for Table C29. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	14.9	22.1	16.2	17.1	14.7	9.1	12.1	9.3	10.3
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	38.7	36.2	35.4	30.2	30.1	27.9	14.2	8.4	42.2
Heat Pumps	35.1	79.0	22.3	17.0	51.5	13.7	32.3	63.7	18.2
Packaged Heat Pumps	30.7	80.4	22.1	25.7	64.4	35.7	21.8	50.4	12.9
Split-System Heat Pumps	100.3	59.9	53.0	100.3	52.0	40.8	0.0	31.8	39.9
Individual Room Heat Pumps	65.3	50.3	22.7	58.8	52.0	29.3	61.7	30.9	35.2
Individual Air Conditioners	26.9	26.5	38.0	24.6	27.7	15.4	26.9	12.4	28.3
District Chilled Water	55.0	59.8	56.7	74.4	50.3	60.5	67.1	67.2	28.7
Central Chillers	27.6	47.8	36.7	33.4	36.9	31.4	16.0	21.3	28.2
Packaged Air Conditioning Units	16.8	20.0	12.5	13.7	16.6	9.3	12.6	15.3	13.8
Swamp Coolers	50.8	24.8	38.2	45.4	23.1	32.7	66.1	8.7	52.1
Other	38.1	100.5	64.4	62.5	100.5	66.0	15.4	0.0	2.8
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	9.3	42.2	25.6	18.3	27.9	15.5	19.8	21.7	33.8
Cooling	21.9	34.9	20.9	13.1	21.5	5.8	21.5	17.5	20.8
Water Heating Equipment									
Centralized System	21.3	31.7	21.3	27.1	16.0	14.7	17.4	17.6	12.9
Distributed System	36.8	32.4	20.4	20.6	22.2	27.6	25.2	19.0	24.0
Combination of Centralized and Distributed System	22.4	31.9	20.8	18.2	21.5	22.5	9.5	18.4	15.3
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	22.1	34.9	20.6	25.0	28.5	18.5	16.2	13.4	14.4
Activities with Large Amounts of Hot Water	23.7	29.3	17.8	24.9	19.0	18.2	18.3	15.2	14.5
Separate Computer Area	25.1	28.8	21.2	30.9	23.1	13.2	14.5	9.6	12.4
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	25.5	38.7	24.1	34.7	28.1	15.5	14.8	18.6	15.0
Economizer Cycle	32.7	26.6	13.6	41.5	17.1	13.5	13.8	13.5	18.2
HVAC Maintenance	19.0	19.8	16.8	19.3	13.5	9.4	14.2	10.9	11.9
Energy Management and Control System (EMCS)	23.2	48.9	23.0	34.8	33.5	15.5	18.2	28.0	12.3
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	17.7	21.0	13.7	19.5	11.8	10.6	11.6	12.3	4.4
Cooling	16.6	19.1	17.1	19.6	12.0	9.5	11.2	10.3	11.1
Lighting	14.5	27.7	17.4	14.4	15.0	9.1	17.3	15.7	15.4
Office Equipment	18.9	28.6	24.5	13.6	24.4	16.0	19.5	9.3	21.5

RSEs for Table C29. Natural Gas Consumption and Conditional Energy Intensity by Census Division for Non-Mall Buildings, 2003: Part 3

	RSEs for Total Natural Gas Consumption			RSEs for Total Floorspace of Buildings Using Natural Gas			RSEs for Natural Gas Energy Intensity		
	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific	West South Central	Moun-tain	Pacific
All Buildings*	14.9	22.1	16.2	17.1	14.7	9.1	12.1	9.3	10.3
Annual Consumption (hundred cubic feet)									
1,000 or Less	22.5	31.9	24.4	27.9	30.7	35.6	18.2	7.1	19.1
1,001 to 5,000	13.1	23.5	20.9	16.1	18.5	18.9	15.4	17.6	18.0
5,001 to 10,000	24.0	30.7	15.3	23.9	23.5	13.3	19.8	16.3	8.3
10,001 to 25,000	25.8	59.3	26.4	22.1	52.7	33.2	19.8	6.6	32.7
25,001 to 50,000	32.5	18.9	42.7	26.2	18.2	25.8	18.1	27.6	41.8
50,001 to 100,000	58.2	54.8	35.9	50.4	58.6	28.1	30.5	47.5	32.0
Over 100,000	35.1	45.3	40.8	46.1	40.5	51.1	16.1	17.7	27.6
Provider of Natural Gas (more than one may apply)									
Local Utility	15.0	25.0	17.6	16.1	17.7	9.2	13.7	11.6	11.0
Some Other Provider	48.7	24.2	34.2	56.4	26.4	33.6	20.3	2.2	24.0

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

RSEs for Table C30. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Total Natural Gas Consumption					RSEs for Total Floorspace of Buildings Using Natural Gas					RSEs for Natural Gas Energy Intensity				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	13.3	6.8	21.5	19.1	23.3	12.1	7.5	16.9	13.3	22.0	5.9	7.3	12.7	9.7	12.8
Building Floorspace (Square Feet)															
1,001 to 5,000	15.5	14.9	18.4	25.9	34.5	14.5	12.4	18.0	21.2	32.7	13.4	8.0	15.4	24.4	27.1
5,001 to 10,000	34.1	10.5	22.3	29.9	31.1	26.5	17.9	16.6	19.2	42.2	19.5	15.8	18.0	21.4	48.5
10,001 to 25,000	21.1	14.0	37.7	23.8	43.9	17.2	16.4	25.6	21.1	37.2	14.3	17.8	33.1	18.1	16.4
25,001 to 50,000	14.2	19.4	38.2	21.7	40.7	9.4	13.0	22.3	19.2	29.7	6.6	14.6	27.3	10.5	27.3
50,001 to 100,000	32.6	16.3	24.6	16.9	39.5	24.8	17.5	25.0	14.4	31.5	12.0	15.2	9.1	15.5	13.8
100,001 to 200,000	22.0	24.0	30.8	60.0	24.4	19.2	15.9	34.0	43.3	28.0	10.7	12.9	41.8	35.0	32.5
200,001 to 500,000	31.0	15.5	36.0	26.6	27.1	24.9	16.7	43.1	24.3	19.5	20.1	16.3	45.9	31.7	24.5
Over 500,000	50.8	41.2	41.8	35.2	47.9	40.9	27.8	33.7	33.1	64.9	18.5	28.5	41.0	27.4	26.6
Principal Building Activity															
Education	22.6	14.5	22.6	26.3	38.2	19.5	11.0	24.9	17.0	32.0	7.5	7.5	12.1	26.2	28.8
Food Sales	45.8	38.7	77.6	63.6	56.1	43.7	29.1	75.3	54.2	53.5	19.4	25.2	19.6	28.9	21.6
Food Service	34.3	17.7	43.8	29.0	30.6	34.7	16.7	38.5	28.8	32.1	28.7	13.8	35.8	14.4	30.5
Health Care	19.0	24.1	33.3	37.2	32.2	22.8	17.9	20.7	33.0	34.6	8.2	12.7	20.1	8.1	6.8
Inpatient	18.8	25.4	37.6	41.1	29.0	18.6	19.8	25.6	39.8	29.5	14.3	12.4	17.7	4.8	7.3
Outpatient	65.8	37.1	32.8	60.0	84.5	40.7	27.2	27.9	30.1	77.9	23.6	18.3	31.2	40.8	7.4
Lodging	26.1	31.3	27.8	31.2	33.7	22.3	21.6	49.2	25.4	37.1	13.3	18.5	72.9	16.9	19.9
Retail (Other Than Mall)	42.6	24.3	35.5	30.4	31.6	29.3	22.6	33.4	25.3	22.3	22.4	19.3	17.3	25.0	30.2
Office	23.6	22.1	36.9	20.2	47.7	17.9	15.2	23.5	17.5	49.2	16.1	11.6	32.0	12.4	17.9
Public Assembly	30.9	27.2	50.4	31.3	19.2	23.7	17.0	45.0	25.8	41.3	17.9	20.4	130.6	20.9	30.2
Public Order and Safety	33.7	32.2	56.6	83.2	58.4	33.8	35.4	47.1	50.3	68.7	13.8	14.6	27.5	83.5	91.2
Religious Worship	21.0	16.6	39.5	39.7	53.2	21.1	17.7	35.0	27.6	40.9	9.8	11.2	14.9	23.8	37.7
Service	31.8	23.6	27.8	47.8	66.3	33.4	28.9	44.1	40.3	60.2	16.2	17.3	51.5	42.1	16.3
Warehouse and Storage	46.6	18.9	45.1	45.7	50.6	30.6	19.6	23.3	35.0	31.2	30.9	11.5	39.4	34.3	25.5
Other	45.2	51.0	57.8	57.7	68.5	34.8	34.5	56.6	58.6	59.2	31.4	40.8	36.3	49.2	31.7
Vacant	52.5	30.5	56.3	70.2	65.9	62.1	43.1	55.2	52.0	67.9	36.8	30.8	8.5	45.2	31.0
Year Constructed															
Before 1920	31.8	16.2	46.6	45.7	101.0	31.2	19.3	35.7	28.2	96.4	7.6	15.3	23.8	31.8	5.3
1920 to 1945	27.2	16.8	37.3	39.8	46.8	21.3	18.7	30.4	25.7	42.4	23.7	15.3	39.9	32.5	27.2
1946 to 1959	27.0	16.6	29.3	50.2	38.6	18.6	13.9	31.2	26.7	33.5	12.2	13.9	47.2	34.9	42.3
1960 to 1969	14.3	18.2	24.9	27.6	39.3	10.9	19.8	26.5	21.1	38.7	17.2	15.3	15.0	15.1	19.3
1970 to 1979	16.8	18.4	27.1	26.2	38.7	20.2	15.7	26.1	24.9	32.0	7.0	14.7	21.0	22.3	26.9
1980 to 1989	26.7	26.2	43.3	25.4	23.3	25.0	14.0	28.9	18.3	33.9	16.3	14.5	36.2	14.3	25.0
1990 to 1999	18.3	22.1	17.7	28.1	27.0	20.4	20.4	19.3	22.3	22.8	8.3	18.9	16.8	19.4	25.0
2000 to 2003	33.6	26.7	56.7	35.0	45.0	25.6	22.2	27.6	30.9	39.4	21.7	19.1	31.1	20.7	13.5
Census Region and Division															
Northeast	74.1	16.8	33.9	0.0	0.0	71.8	12.7	23.7	0.0	0.0	15.0	11.5	20.0	0.0	0.0
New England	0.0	29.5	0.0	0.0	0.0	0.0	29.1	0.0	0.0	0.0	0.0	16.8	0.0	0.0	0.0
Middle Atlantic	74.1	20.6	33.9	0.0	0.0	71.8	8.0	23.7	0.0	0.0	15.0	14.7	20.0	0.0	0.0
Midwest	10.1	6.2	49.4	0.0	0.0	10.4	10.0	24.7	0.0	0.0	6.6	10.4	34.6	0.0	0.0
East North Central	10.0	6.1	0.0	0.0	0.0	6.6	8.0	0.0	0.0	0.0	9.2	10.1	0.0	0.0	0.0
West North Central	23.5	32.9	49.4	0.0	0.0	24.2	57.7	24.7	0.0	0.0	5.1	63.3	34.6	0.0	0.0
South	0.0	0.0	35.1	25.0	25.0	0.0	0.0	34.5	21.0	23.5	0.0	0.0	21.3	11.0	13.5
South Atlantic	0.0	0.0	31.7	40.9	66.1	0.0	0.0	39.2	28.1	53.6	0.0	0.0	20.6	22.9	41.1
East South Central	0.0	0.0	70.5	61.1	91.9	0.0	0.0	72.8	63.0	93.6	0.0	0.0	70.7	5.9	1.5
West South Central	0.0	0.0	95.5	11.3	25.3	0.0	0.0	95.8	11.4	26.0	0.0	0.0	0.6	13.7	17.2
West	28.0	25.3	33.4	19.7	40.4	21.0	23.2	41.7	8.4	46.5	11.5	6.8	8.3	16.9	31.3
Mountain	29.0	31.6	0.0	0.0	38.1	15.4	33.4	0.0	0.0	48.4	12.1	7.2	0.0	0.0	30.9
Pacific	87.8	21.7	33.4	19.7	100.1	87.5	17.9	41.7	8.4	100.1	1.7	5.0	8.3	16.9	.

RSEs for Table C30. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Total Natural Gas Consumption					RSEs for Total Floorspace of Buildings Using Natural Gas					RSEs for Natural Gas Energy Intensity				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	13.3	6.8	21.5	19.1	23.3	12.1	7.5	16.9	13.3	22.0	5.9	7.3	12.7	9.7	12.8
Number of Floors															
One	19.2	14.1	21.0	21.4	29.0	15.4	11.1	18.9	16.8	24.0	7.9	11.3	11.5	14.7	14.9
Two	11.0	8.4	26.6	23.3	34.3	13.7	14.4	23.1	17.2	27.2	4.8	11.9	33.2	13.0	28.3
Three	21.1	16.9	33.0	53.6	32.0	15.8	14.8	29.6	27.7	37.6	17.3	12.7	11.9	41.5	24.1
Four to Nine	28.5	18.0	25.5	23.8	33.7	18.2	14.2	33.0	23.4	28.9	16.1	9.4	22.7	22.4	16.6
Ten or More	42.3	45.9	47.9	35.1	49.8	51.3	29.3	30.4	43.2	63.1	28.4	28.8	40.5	31.4	17.1
Number of Workers (main shift)															
Fewer than 5	19.0	12.2	22.5	32.5	35.5	14.0	15.8	23.2	24.9	29.6	17.3	12.0	9.5	21.6	24.9
5 to 9	21.6	15.6	15.3	32.9	36.7	20.5	15.9	24.8	20.5	38.8	16.2	13.1	20.3	24.7	27.5
10 to 19	26.3	11.2	30.0	14.1	34.3	18.4	16.7	41.0	18.2	29.2	17.5	14.4	45.3	16.5	27.4
20 to 49	21.4	11.1	31.6	27.3	44.5	20.8	11.0	28.3	21.9	30.7	7.1	13.8	35.4	16.3	22.6
50 to 99	23.2	13.5	33.3	30.3	29.2	22.3	12.6	26.4	21.6	24.9	15.0	10.9	15.3	17.5	26.2
100 to 249	20.8	23.4	29.8	47.9	24.6	15.6	16.1	27.3	23.9	22.9	13.1	17.3	16.1	35.3	19.5
250 or More	33.3	25.9	35.1	27.2	32.4	31.6	19.0	27.6	22.8	46.1	14.5	16.1	27.7	18.4	19.0
Weekly Operating Hours															
Fewer than 40	31.0	12.5	39.8	52.3	35.4	20.8	22.9	30.3	24.8	31.1	21.8	13.4	20.2	33.6	30.2
40 to 48	19.4	15.8	26.7	23.8	59.7	17.1	12.6	27.4	15.0	36.6	10.2	12.4	42.0	15.1	41.8
49 to 60	20.9	11.0	34.5	15.6	28.2	15.3	13.0	25.3	14.5	25.6	15.9	8.2	27.6	9.5	28.3
61 to 84	19.5	13.8	22.1	27.1	46.8	21.7	13.5	24.7	22.5	19.4	14.3	9.5	13.5	25.6	37.3
85 to 167	20.9	13.6	32.9	30.4	37.7	15.2	19.3	30.1	23.2	24.5	14.4	16.7	31.8	18.0	33.9
Open Continuously	19.6	17.5	30.0	30.2	25.9	16.6	14.6	20.2	21.7	28.9	9.3	8.9	19.5	16.2	12.3
Ownership and Occupancy															
Nongovernment Owned	13.1	9.6	22.7	19.7	23.8	13.0	8.8	17.5	14.1	23.2	5.7	9.5	14.5	10.6	15.1
Owner Occupied	18.2	11.6	26.8	27.5	29.0	15.8	11.4	16.3	15.5	27.8	11.6	12.0	17.7	19.6	18.4
Nonowner Occupied	13.0	14.7	26.7	19.0	27.0	13.3	14.0	21.9	16.4	21.8	7.9	13.0	20.2	14.7	17.2
Unoccupied	75.2	32.5	100.7	107.9	86.9	59.4	45.7	100.7	72.5	86.9	66.1	32.4	0.0	68.6	0.0
Government Owned	15.6	10.7	27.7	26.4	35.6	13.7	8.0	24.2	19.9	29.2	10.8	7.6	13.9	16.9	21.5
Federal	86.2	40.5	52.8	41.7	65.4	62.3	39.5	60.3	35.5	48.6	64.9	14.3	30.6	35.7	55.7
State	30.2	39.6	49.4	46.5	90.2	37.5	32.0	42.7	34.3	77.2	27.2	13.7	14.1	30.2	12.4
Local	20.1	12.9	33.3	27.3	24.2	16.0	11.2	26.4	25.6	27.9	10.4	8.0	15.9	20.2	22.7
Vacancy Status															
Completely Vacant	75.2	32.5	60.4	107.9	86.9	59.4	45.7	58.8	72.5	86.9	66.1	32.4	16.5	68.6	0.0
Mostly Vacant	69.4	85.1	100.1	73.2	100.9	78.5	71.6	100.1	74.5	100.9	11.9	111.3	.	2.5	.
Partially Vacant	20.0	16.1	39.0	22.9	31.0	16.8	10.1	26.9	18.1	40.7	12.2	11.6	32.5	22.2	18.6
Not At All Vacant	14.3	8.7	22.6	20.4	24.2	13.2	8.9	18.8	15.1	22.0	6.9	7.4	16.3	10.1	14.7
Number of Establishments															
One	12.6	8.2	23.4	21.5	24.2	12.1	9.2	21.1	15.8	23.7	8.3	8.5	19.5	10.1	17.2
2 to 5	22.5	19.2	25.5	24.1	32.7	20.5	12.7	22.5	19.9	26.9	6.4	17.9	10.8	18.9	21.1
6 to 10	30.7	29.3	43.3	81.2	76.5	28.0	28.1	40.2	33.7	41.0	18.4	28.3	32.3	47.9	74.5
11 to 20	73.8	41.6	38.8	67.3	48.4	55.3	24.5	47.4	32.3	35.9	40.2	33.6	22.2	47.9	59.1
More than 20	71.4	40.4	66.9	60.1	55.6	57.9	36.4	36.9	42.4	42.6	95.6	29.7	56.9	46.7	23.3
Currently Unoccupied	75.2	32.5	60.4	107.9	86.9	59.4	45.7	58.8	72.5	86.9	66.1	32.4	16.5	68.6	0.0

RSEs for Table C30. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Total Natural Gas Consumption					RSEs for Total Floorspace of Buildings Using Natural Gas					RSEs for Natural Gas Energy Intensity				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	13.3	6.8	21.5	19.1	23.3	12.1	7.5	16.9	13.3	22.0	5.9	7.3	12.7	9.7	12.8
Predominant Exterior Wall Material															
Brick, Stone or Stucco	18.4	10.7	25.0	17.8	22.9	15.7	9.2	19.9	15.6	24.0	7.2	7.1	18.9	9.5	16.9
Concrete (Block or Poured)	23.5	16.3	40.2	40.7	32.2	23.2	22.3	22.9	22.9	34.5	8.7	14.7	32.7	25.2	34.2
Concrete Panels	24.2	46.4	24.3	26.3	36.9	17.5	41.9	37.0	23.8	34.6	17.1	16.3	22.0	26.8	28.8
Siding or Shingles	24.5	12.0	34.4	28.0	80.1	28.0	21.8	30.4	34.0	68.9	15.1	17.9	42.8	39.1	40.0
Metal Panels	39.1	23.6	44.6	34.3	54.3	27.1	23.1	27.4	22.4	61.5	16.2	15.1	25.9	29.9	61.1
Window Glass	77.7	49.9	85.8	50.5	61.7	69.4	48.5	47.7	32.0	40.4	169.9	19.2	56.6	41.0	37.4
Other	68.6	39.8	61.4	45.2	86.6	67.8	37.6	55.2	51.3	63.2	33.5	20.7	11.0	56.4	25.1
No One Major Type	56.9	60.0	77.2	100.1	71.8	26.8	54.1	72.6	100.1	74.6	50.9	72.3	10.7	.	9.6
Predominant Roof Material															
Built-Up	14.8	12.8	24.9	26.2	30.5	12.8	9.7	19.8	17.3	25.6	7.4	11.0	17.5	16.7	22.8
Shingles (Not Wood)	19.6	16.8	48.0	22.7	39.6	17.5	12.3	26.7	23.3	29.8	12.3	11.6	38.3	18.0	24.0
Metal Surfacing	28.6	18.6	30.9	27.0	50.6	20.5	16.7	25.9	26.2	40.1	13.7	24.0	12.6	20.4	24.4
Synthetic or Rubber	18.9	11.6	26.6	23.7	30.2	15.9	11.7	23.3	26.1	27.4	7.4	10.3	14.4	23.5	14.7
Slate or Tile	37.8	30.0	34.7	33.8	45.8	36.8	23.5	36.4	24.2	43.0	19.6	35.0	17.6	18.5	26.2
Wooden Materials	58.4	41.4	86.5	42.0	48.6	60.9	33.4	83.2	54.7	63.1	36.0	44.5	22.1	30.1	132.7
Concrete	72.9	99.1	64.0	74.1	72.5	62.6	98.9	96.5	36.2	87.9	54.0	1.7	993.6	35.8	67.0
Other	69.7	48.6	94.6	65.8	0.0	40.1	49.6	71.0	72.0	0.0	47.5	23.8	91.5	153.7	0.0
No One Major Type	71.4	58.3	76.1	82.1	96.8	74.7	57.6	74.7	5.4	96.8	5.1	44.6	15.2	81.2	0.2
Renovations in Buildings Constructed Before 1980 (more than one may apply)															
Any Type of Renovation Since 1980	17.9	9.8	28.0	29.6	36.5	13.8	11.9	17.9	17.9	28.4	7.2	8.0	18.7	18.3	18.2
Addition or Annex	17.6	16.4	42.3	49.5	43.0	15.8	15.2	36.0	37.1	36.0	5.9	10.8	58.2	24.5	19.5
Reduction In Floorspace	43.7	46.5	45.1	71.7	X	49.2	59.2	37.5	63.7	X	18.9	40.4	27.1	31.3	X
Cosmetic Improvements	16.4	14.2	25.9	22.3	34.4	13.6	14.1	19.0	16.3	31.8	7.1	8.0	20.3	12.8	15.1
Wall or Roof Replacement	20.7	16.1	21.9	24.8	44.2	14.6	18.3	13.9	26.7	35.2	13.1	10.6	23.1	14.1	18.5
Interior Wall Re-Configuration	14.3	15.0	25.2	28.0	44.8	12.3	14.6	16.4	18.4	31.2	8.7	9.2	21.9	17.8	26.9
HVAC Equipment Upgrade	15.3	11.6	27.4	36.2	49.9	11.6	15.8	23.1	21.6	37.0	7.5	10.3	17.6	23.7	22.5
Lighting Upgrade	16.9	13.4	34.7	24.6	55.0	15.2	15.1	19.7	18.0	39.5	6.3	10.2	22.5	15.7	24.2
Window Replacement	31.0	14.7	27.0	22.5	46.9	19.7	16.6	17.1	26.4	44.9	16.6	12.4	32.3	20.5	40.7
Plumbing System Upgrade	20.7	15.7	30.8	25.2	55.0	16.7	19.2	17.5	25.2	42.9	8.9	11.6	37.0	16.2	27.6
Insulation Upgrade	22.5	17.1	27.9	33.7	62.7	16.3	18.2	35.4	38.7	47.5	15.6	12.4	17.6	37.9	48.9
Other Renovation	73.1	48.9	64.6	94.4	0.0	60.3	39.8	62.0	95.6	0.0	31.9	37.2	16.2	25.4	0.0
No Renovations Since 1980	17.5	14.0	29.6	20.9	30.1	15.5	11.8	26.0	15.7	27.4	7.4	13.0	22.6	14.4	14.1
Building Newer than 1980	20.8	16.4	26.6	20.4	22.2	18.4	12.2	18.5	17.5	24.7	8.6	10.4	16.7	12.7	16.0
Energy Sources (more than one may apply)															
Electricity	12.4	8.9	21.8	16.0	24.8	11.5	10.4	17.8	13.0	24.4	5.9	8.4	13.7	9.5	12.4
Natural Gas	13.3	6.8	21.5	19.1	23.3	12.1	7.5	16.9	13.3	22.0	5.9	7.3	12.7	9.7	12.8
Fuel Oil	21.4	26.9	28.8	30.9	27.9	21.5	18.0	26.9	20.2	42.7	11.1	14.6	14.1	19.6	25.8
District Heat	59.8	56.1	78.8	58.0	46.9	27.5	31.7	33.4	44.1	74.8	53.7	46.4	57.4	13.7	63.2
District Chilled Water	55.7	63.9	55.8	48.1	41.3	50.3	38.2	40.5	47.8	46.8	58.7	47.4	32.2	18.2	51.6
Propane	57.5	31.4	43.6	73.7	55.6	42.3	34.5	46.4	41.8	42.0	35.4	22.5	33.0	57.5	50.4
Other	45.2	42.3	46.3	44.6	90.3	42.8	34.3	35.1	35.5	61.2	19.9	16.8	34.3	26.9	94.2

RSEs for Table C30. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Total Natural Gas Consumption					RSEs for Total Floorspace of Buildings Using Natural Gas					RSEs for Natural Gas Energy Intensity				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	13.3	6.8	21.5	19.1	23.3	12.1	7.5	16.9	13.3	22.0	5.9	7.3	12.7	9.7	12.8
Space-Heating Energy Sources															
Natural Gas	13.1	6.9	22.5	19.9	28.6	12.5	7.3	19.4	14.1	20.7	6.0	7.5	11.9	9.7	15.6
Natural Gas Main	12.9	7.2	22.8	20.3	30.9	12.1	7.5	19.2	15.1	22.2	6.5	7.8	12.1	10.2	15.6
Natural Gas Secondary	26.1	17.6	34.8	29.6	42.7	22.8	18.4	33.0	21.1	33.3	21.8	17.1	21.6	14.3	27.8
Other Excluding Natural Gas	52.2	36.8	28.1	22.8	32.7	22.7	25.0	50.2	19.8	31.0	47.5	22.8	61.0	19.1	30.9
Buildings without Heating	X	94.1	100.1	82.9	73.5	X	82.3	100.1	32.2	50.2	X	11.5	.	88.4	69.8
Primary Space-Heating Energy Source															
Electricity	24.8	21.8	29.7	19.6	28.2	19.6	21.7	30.0	15.9	27.5	20.4	14.1	9.5	10.0	19.8
Natural Gas	12.9	7.2	22.8	20.3	30.9	12.1	7.5	19.2	15.1	22.2	6.5	7.8	12.1	10.2	15.6
Fuel Oil	91.2	41.2	55.3	40.7	0.0	73.2	34.3	76.4	40.7	0.0	85.9	31.2	98.2	0.0	0.0
District Heat	49.1	56.0	56.1	66.9	59.3	27.8	33.4	33.9	48.2	81.5	38.9	52.7	46.7	16.6	78.2
Propane	0.0	0.0	0.0	X	0.0	0.0	0.0	0.0	X	0.0	0.0	0.0	0.0	X	0.0
Other	84.0	85.4	X	100.8	0.0	78.4	75.8	X	100.8	0.0	32.6	13.8	X	0.0	0.0
Cooling Energy Sources															
Natural Gas	37.3	34.5	60.1	47.8	59.3	56.2	32.9	42.9	57.5	56.0	53.1	22.4	40.1	95.6	20.4
Other Excluding Natural Gas	13.7	6.9	22.0	19.1	23.6	12.3	7.6	17.1	13.9	22.0	5.5	6.5	12.0	9.5	12.9
Buildings without Cooling	32.0	23.8	53.1	26.5	X	29.5	35.0	50.7	28.3	X	15.4	14.6	53.4	26.5	X
Water-Heating Energy Sources															
Natural Gas	13.7	9.7	22.7	19.9	23.4	13.2	7.9	19.7	12.3	20.4	5.7	7.3	14.6	11.2	15.2
Other Excluding Natural Gas	18.5	18.6	24.6	24.0	32.4	13.0	15.3	15.4	22.8	34.1	15.0	16.2	13.5	15.5	31.4
Bldgs without Water Heating	36.8	22.7	44.2	40.2	65.4	17.6	24.1	40.0	28.8	47.4	32.9	18.9	12.9	25.9	59.5
Cooking Energy Sources															
Natural Gas	21.4	10.2	27.9	24.2	22.3	16.3	9.7	29.6	18.6	21.8	7.8	7.9	31.3	14.4	15.0
Other Excluding Natural Gas	18.5	24.3	29.9	27.8	52.7	22.6	14.7	35.0	29.2	41.0	9.8	18.4	16.4	29.6	14.6
Buildings without Cooking	14.2	9.1	22.2	19.3	36.9	13.3	8.3	19.6	15.3	24.0	7.2	10.1	12.4	12.5	20.5
Energy End Uses (more than one may apply)															
Buildings with Space Heating	13.3	6.9	21.6	19.3	23.7	12.1	7.5	16.9	13.4	22.1	5.9	7.3	13.0	10.0	13.3
Buildings with Cooling	13.5	7.5	21.5	19.4	23.3	12.2	7.5	17.0	13.7	22.0	5.4	6.6	12.1	9.8	12.8
Buildings with Water Heating	13.3	6.9	21.7	19.8	23.0	12.1	7.3	17.4	13.6	22.1	5.8	7.2	13.1	10.2	13.3
Buildings with Cooking	19.5	10.6	26.0	23.8	22.0	16.1	9.7	27.0	18.5	23.8	6.0	8.3	27.0	14.3	13.4
Buildings with Manufacturing	49.5	30.1	45.5	38.0	61.4	36.3	19.2	29.0	33.3	65.4	24.0	26.4	30.9	31.8	142.6
Buildings with Electricity Generation	26.4	18.4	26.3	27.3	26.7	21.5	12.5	19.0	18.0	27.0	12.9	9.7	19.7	18.9	24.6
Percent of Floorspace Heated															
Not Heated	X	94.1	100.1	82.9	73.5	X	82.3	100.1	32.2	50.2	X	11.5	.	88.4	69.8
1 to 50	46.7	30.8	36.5	32.6	38.7	34.0	29.6	37.9	15.3	30.4	17.6	24.0	9.8	34.4	22.9
51 to 99	23.5	18.4	43.3	19.4	32.6	21.2	22.5	24.3	16.3	29.6	15.3	9.6	37.0	11.7	25.5
100	14.4	7.4	22.7	21.5	24.6	13.6	8.0	20.8	16.3	26.0	5.0	7.4	16.7	9.3	12.6
Percent of Floorspace Cooled															
Not Cooled	32.0	23.8	53.1	26.5	X	29.5	35.0	50.7	28.3	X	15.4	14.6	53.4	26.5	X
1 to 50	23.0	11.2	27.9	25.6	51.3	20.4	12.6	16.9	27.3	32.7	7.7	9.7	20.2	21.0	40.7
51 to 99	22.5	16.8	34.1	23.6	32.9	18.9	12.6	23.6	20.2	22.0	11.3	11.0	28.7	13.3	21.5
100	19.8	10.9	24.5	22.3	22.8	16.2	9.8	21.1	13.9	27.2	8.5	8.0	15.3	14.8	11.7

RSEs for Table C30. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Total Natural Gas Consumption					RSEs for Total Floorspace of Buildings Using Natural Gas					RSEs for Natural Gas Energy Intensity				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	13.3	6.8	21.5	19.1	23.3	12.1	7.5	16.9	13.3	22.0	5.9	7.3	12.7	9.7	12.8
Heating Equipment (more than one may apply)															
Heat Pumps	31.8	42.7	27.3	42.9	42.5	33.0	28.8	30.1	15.9	37.8	17.8	29.4	21.4	33.9	32.5
Packaged Heat Pumps	32.8	53.9	28.9	64.8	42.5	32.9	36.6	38.6	29.1	35.4	20.8	39.1	29.3	55.3	33.4
Split-System Heat Pumps	51.9	36.4	33.8	34.3	56.8	50.1	37.0	50.3	25.0	49.6	41.8	45.6	44.0	30.2	37.0
Individual Room Heat Pumps	42.1	49.4	42.2	26.5	53.2	42.4	28.9	37.6	25.6	43.8	18.5	44.0	30.1	25.4	46.4
Furnaces	14.4	9.7	25.4	32.1	28.2	13.2	11.4	16.0	24.0	27.6	8.0	8.1	18.1	15.9	13.9
Individual Space Heaters	15.1	16.6	29.0	32.8	42.2	15.4	13.5	23.4	21.6	28.7	6.3	13.0	22.8	21.3	26.1
District Heat	63.2	56.0	74.2	58.0	46.9	25.7	33.4	33.9	44.1	74.8	63.2	52.7	57.4	13.7	63.2
Boilers	15.4	10.9	27.8	24.0	29.1	14.4	8.5	27.9	19.8	25.3	6.0	7.5	25.3	15.7	18.4
Packaged Heating Units	24.3	12.7	23.2	28.4	25.0	20.5	10.5	21.1	14.4	21.5	10.9	13.3	12.8	21.1	16.8
Other	36.4	42.9	37.0	34.5	62.1	33.9	31.9	37.1	60.7	62.2	11.1	32.1	27.9	87.5	55.6
Cooling Equipment (more than one may apply)															
Residential-Type Central Air Conditioners	14.6	13.5	28.6	32.1	35.8	16.6	10.5	28.7	19.7	31.3	7.1	13.3	36.2	26.4	14.8
Heat Pumps	31.4	40.4	27.2	43.9	42.6	32.4	27.0	30.4	17.3	36.8	14.7	27.8	20.8	34.0	29.7
Packaged Heat Pumps	31.6	50.7	30.1	68.5	42.7	32.4	34.4	37.9	34.7	36.1	17.6	36.4	31.4	56.9	33.8
Split-System Heat Pumps	51.9	34.8	35.0	34.5	57.4	50.1	32.7	51.2	25.4	51.8	41.8	36.6	44.0	30.4	30.9
Individual Room Heat Pumps	42.1	49.4	42.2	25.7	52.4	42.4	28.9	37.6	25.9	40.5	18.5	44.0	30.1	25.8	45.2
Individual Air Conditioners	13.4	14.3	34.2	43.7	36.8	17.6	13.6	28.6	20.2	32.2	7.8	9.1	30.7	32.3	24.9
District Chilled Water	55.7	63.9	55.8	48.1	41.3	50.3	38.2	40.5	47.8	46.8	58.7	47.4	32.2	18.2	51.6
Central Chillers	20.2	19.5	31.7	27.1	26.1	15.5	13.4	30.9	25.3	28.9	14.6	10.6	23.7	20.8	14.0
Packaged Air Conditioning Units	13.8	7.9	23.9	22.2	26.6	13.6	9.6	18.6	15.6	21.1	5.7	8.9	18.2	11.5	14.8
Swamp Coolers	27.0	37.3	71.1	31.8	41.3	28.9	24.2	80.0	38.3	57.6	14.9	30.1	46.1	52.4	31.9
Other	65.5	47.2	59.5	92.8	38.1	57.1	38.6	28.3	75.5	62.5	10.7	28.9	60.5	71.1	15.4
Main Equipment Replaced Since 1990 (more than one may apply)															
Heating	18.4	14.1	28.3	20.0	40.0	12.5	11.8	22.9	15.1	31.4	11.5	12.8	21.5	19.6	16.8
Cooling	17.6	12.5	26.1	19.1	31.7	12.5	12.0	19.7	10.6	26.1	9.2	10.1	17.0	16.2	12.8
Water Heating Equipment															
Centralized System	13.7	8.8	20.6	20.6	25.3	12.2	7.5	17.3	17.7	29.6	6.3	9.2	13.5	9.5	16.7
Distributed System	31.1	25.1	26.6	22.6	35.0	17.2	20.1	34.2	17.2	29.1	25.5	17.7	37.5	20.1	25.5
Combination of Centralized and Distributed System	15.3	22.2	35.3	37.0	25.1	15.4	14.6	28.4	17.2	20.4	9.4	13.8	25.9	31.7	14.9
Energy-Related Space Functions (more than one may apply)															
Commercial Food Preparation	19.5	10.6	26.0	23.8	22.0	16.1	9.6	27.0	18.5	23.8	6.0	8.3	27.0	14.3	13.4
Activities with Large Amounts of Hot Water	16.0	13.7	25.4	23.2	21.6	13.5	11.6	29.7	18.1	23.4	7.9	11.8	37.0	12.9	14.8
Separate Computer Area	18.2	12.7	28.1	19.7	27.1	16.6	10.8	19.4	13.6	30.4	6.8	8.6	16.1	10.1	12.4
HVAC Conservation Features (more than one may apply)															
Variable Air-Volume System	20.2	16.0	30.3	18.5	26.7	17.5	10.5	24.5	13.9	30.4	8.1	9.5	21.1	10.5	13.2
Economizer Cycle	13.9	13.5	26.8	16.3	35.5	11.7	10.7	24.0	13.9	35.8	5.4	9.3	15.2	16.0	14.9
HVAC Maintenance	14.3	8.5	22.5	19.9	23.6	12.5	7.7	18.1	13.5	22.4	6.9	6.9	13.9	11.1	13.3
Energy Management and Control System (EMCS)	28.2	16.8	29.9	23.9	31.4	19.7	11.4	26.0	17.0	31.1	13.8	11.9	19.7	10.8	20.3

RSEs for Table C30. Natural Gas Consumption and Conditional Energy Intensity by Climate Zone[a] for Non-Mall Buildings, 2003

	RSEs for Total Natural Gas Consumption					RSEs for Total Floorspace of Buildings Using Natural Gas					RSEs for Natural Gas Energy Intensity				
	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
All Buildings*	13.3	6.8	21.5	19.1	23.3	12.1	7.5	16.9	13.3	22.0	5.9	7.3	12.7	9.7	12.8
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[b]															
Heating	16.4	8.3	22.6	17.4	26.1	13.5	8.6	16.9	13.4	23.9	7.9	7.5	15.9	6.1	14.1
Cooling	15.1	8.3	22.4	17.7	24.2	13.5	7.5	17.3	13.7	22.7	7.4	7.2	15.0	7.6	12.4
Lighting	13.9	6.8	20.0	15.8	28.4	11.8	7.7	16.5	12.5	20.0	8.4	7.3	13.4	9.2	24.2
Office Equipment	15.0	12.2	26.6	22.0	31.1	14.7	12.2	18.3	18.1	21.7	9.5	11.4	27.5	14.8	28.8
Annual Consumption (hundred cubic feet)															
1,000 or Less	22.1	12.9	14.9	19.7	31.3	18.7	21.0	47.4	26.7	29.1	14.0	14.0	74.1	15.5	19.8
1,001 to 5,000	15.7	15.7	21.0	23.6	24.4	19.3	18.6	23.0	20.6	24.3	9.1	7.7	10.1	10.7	20.6
5,001 to 10,000	19.5	10.8	18.2	17.3	32.3	16.8	12.7	22.4	20.8	25.3	6.5	11.0	15.3	15.0	24.1
10,001 to 25,000	22.9	13.3	25.9	22.2	30.4	21.0	12.1	20.6	24.5	24.3	6.8	11.5	10.7	22.6	16.2
25,001 to 50,000	18.7	15.7	17.6	28.0	52.3	17.9	13.7	33.3	22.4	34.6	12.4	11.2	48.3	23.3	29.9
50,001 to 100,000	26.8	22.8	40.7	41.0	47.9	28.2	17.8	31.1	28.3	46.4	19.6	13.1	31.9	27.1	28.0
Over 100,000	21.3	18.0	36.1	35.2	31.4	20.4	15.9	31.2	35.4	44.5	7.0	9.1	24.9	17.8	15.3
Provider of Natural Gas (more than one may apply)															
Local Utility	13.9	7.7	22.2	19.5	24.4	11.7	8.4	17.5	13.6	21.8	7.2	7.6	14.2	10.0	15.2
Some Other Provider	23.3	18.4	31.6	29.9	58.6	24.3	17.3	32.7	34.7	64.8	8.0	13.2	33.4	21.2	17.4

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

RSEs for Table C31. Natural Gas Consumption and Conditional Energy Intensity by Building Size for Non-Mall Buildings, 2003

	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*	8.8	6.4	10.4	6.9	5.0	9.1	6.4	5.0	7.8
Principal Building Activity									
Education	52.6	11.6	14.0	19.0	9.7	11.4	38.9	6.5	12.1
Food Sales	32.8	30.5	22.6	23.8	23.8	18.2	29.1	23.0	29.8
Food Service	14.4	21.9	0.0	10.8	20.5	0.0	8.6	14.5	0.0
Health Care	35.7	24.2	16.0	24.8	18.4	14.4	20.4	10.8	6.4
Inpatient	0.0	36.5	16.3	0.0	34.8	14.9	0.0	10.2	6.1
Outpatient	35.7	29.1	54.4	24.8	19.3	44.9	20.4	16.7	50.9
Lodging	36.1	13.3	25.5	37.5	11.6	23.3	36.7	10.6	25.5
Retail (Other Than Mall)	28.7	18.5	32.6	13.5	17.5	26.9	20.8	14.6	24.1
Office	11.4	18.2	28.6	9.8	12.1	17.2	8.7	12.7	25.2
Public Assembly	23.6	22.3	39.0	19.0	15.0	37.4	16.0	15.9	51.5
Public Order and Safety	44.3	32.3	35.6	34.7	26.4	33.4	26.9	27.6	15.8
Religious Worship	14.5	14.8	45.1	14.4	14.8	42.6	12.9	9.4	25.7
Service	27.7	25.3	46.3	15.1	22.2	58.2	21.2	12.8	53.9
Warehouse and Storage	24.8	26.9	36.3	21.5	14.4	21.6	20.6	22.3	28.0
Other	39.0	45.2	44.7	39.9	27.1	43.2	29.0	35.1	61.8
Vacant	54.7	36.5	54.2	50.3	36.5	44.0	59.1	29.9	29.3
Year Constructed									
Before 1920	17.6	21.7	45.3	21.5	18.0	33.8	13.9	11.3	19.5
1920 to 1945	20.3	21.0	36.1	14.2	15.7	24.7	17.8	15.8	34.1
1946 to 1959	17.4	12.1	34.9	16.9	11.5	30.7	8.7	9.3	40.4
1960 to 1969	16.3	13.4	14.4	14.0	13.7	14.6	14.0	12.0	10.7
1970 to 1979	19.7	11.7	17.8	13.7	10.4	16.9	16.9	6.5	13.3
1980 to 1989	16.8	19.9	28.2	16.6	10.1	17.5	14.4	16.8	23.2
1990 to 1999	20.1	11.6	19.4	15.1	10.1	14.3	15.3	10.5	17.3
2000 to 2003	29.1	17.6	31.9	33.6	12.8	16.4	32.7	12.0	23.9
Census Region and Division									
Northeast	11.6	9.9	20.4	9.6	12.7	20.3	9.2	8.3	23.6
New England	10.8	30.4	39.6	14.6	35.4	32.0	12.9	27.4	12.6
Middle Atlantic	13.1	10.5	23.6	11.3	13.4	22.4	10.3	7.1	27.5
Midwest	12.6	10.5	15.5	12.0	8.5	11.5	9.9	8.7	10.7
East North Central	15.9	7.8	18.2	16.5	9.0	12.8	11.7	10.9	12.7
West North Central	9.2	30.3	19.2	15.3	18.6	22.6	15.9	17.1	14.6
South	15.6	12.9	20.4	13.9	9.3	20.4	14.4	10.9	11.3
South Atlantic	30.3	17.7	37.5	19.6	18.8	30.2	22.4	12.4	20.9
East South Central	34.2	31.7	16.7	29.7	14.6	24.5	17.1	29.7	8.0
West South Central	18.1	16.1	27.5	22.2	14.1	33.4	26.6	10.7	15.8
West	28.1	15.6	27.7	15.3	11.6	13.5	17.8	8.8	18.4
Mountain	37.9	26.4	42.4	21.5	17.9	32.6	16.7	8.8	17.8
Pacific	41.8	12.9	26.2	21.6	15.0	11.8	29.5	6.5	20.2
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	20.5	14.3	19.3	15.5	13.0	15.0	12.4	5.8	9.9
5,500-7,000 HDD	11.1	8.9	18.0	13.0	11.1	13.1	9.1	10.3	10.9
4,000-5,499 HDD	18.2	24.6	29.8	15.6	19.8	25.9	13.0	13.9	27.2
Fewer than 4,000 HDD	22.6	16.1	29.9	17.3	15.1	18.7	17.1	7.5	15.8
2,000 CDD or More and --									
Fewer than 4,000 HDD	27.4	32.7	25.2	34.5	27.1	28.0	37.4	14.4	12.9

RSEs for Table C31. Natural Gas Consumption and Conditional Energy Intensity by Building Size for Non-Mall Buildings, 2003

	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*	8.8	6.4	10.4	6.9	5.0	9.1	6.4	5.0	7.8
Number of Floors									
One	11.2	9.2	23.4	8.6	6.9	19.2	8.7	7.9	22.4
Two	10.3	11.1	18.4	10.8	8.0	17.0	11.4	8.6	16.6
Three	23.2	9.8	29.1	14.0	9.0	17.0	19.0	7.8	18.5
Four to Nine	46.6	14.4	12.6	47.4	13.3	15.3	25.7	8.4	14.0
Ten or More	0.0	83.8	23.7	0.0	69.8	20.4	0.0	50.1	20.5
Number of Workers (main shift)									
Fewer than 5	11.1	13.4	51.9	9.4	12.6	42.4	8.1	11.6	20.8
5 to 9	15.1	15.4	64.7	11.4	11.3	49.4	13.5	10.5	42.4
10 to 19	19.2	10.9	49.5	11.8	9.7	56.9	13.2	9.5	78.6
20 to 49	23.1	12.0	28.6	15.9	7.6	33.0	15.7	8.8	41.0
50 to 99	44.7	11.6	15.6	44.4	8.9	13.2	34.4	7.4	11.6
100 to 249	X	13.6	19.7	X	11.6	11.8	X	10.8	13.5
250 or More	0.0	30.7	14.4	0.0	28.8	13.4	0.0	20.1	11.4
Weekly Operating Hours									
Fewer than 40	26.1	15.0	44.7	16.2	17.9	33.9	14.6	14.4	31.1
40 to 48	11.1	15.5	33.9	9.0	9.8	29.8	7.9	12.4	40.6
49 to 60	10.8	14.0	26.2	10.7	8.9	15.4	9.2	11.5	19.0
61 to 84	18.3	11.8	21.9	13.0	9.3	15.4	14.1	8.3	17.2
85 to 167	18.6	13.7	15.4	16.3	12.2	13.4	18.1	11.9	12.0
Open Continuously	22.0	10.2	13.2	20.7	9.9	11.0	14.1	7.7	8.5
Ownership and Occupancy									
Nongovernment Owned	8.3	7.9	12.8	6.4	5.6	11.4	6.7	6.4	9.9
Owner Occupied	11.7	10.9	16.9	8.4	8.2	12.1	7.5	8.3	13.1
Nonowner Occupied	11.7	9.7	17.2	8.9	6.7	14.4	10.1	8.6	13.8
Unoccupied	67.3	48.0	61.8	59.8	47.2	50.9	82.2	44.0	20.4
Government Owned	30.3	8.9	11.7	16.1	8.1	9.6	19.9	5.6	9.5
Federal	72.4	42.4	28.5	66.8	33.7	37.1	41.2	20.5	30.4
State	78.1	20.5	34.7	49.6	18.5	22.4	37.2	12.7	26.1
Local	21.3	10.4	12.8	16.2	10.3	11.4	13.6	6.5	10.7
Vacancy Status									
Completely Vacant	67.3	43.8	55.0	59.8	45.8	45.9	82.2	40.7	29.3
Mostly Vacant	74.3	59.5	100.9	71.2	47.5	100.9	7.9	33.1	0.0
Partially Vacant	13.8	14.4	17.2	15.4	8.6	13.7	13.8	11.1	14.9
Not At All Vacant	9.1	7.1	12.7	7.3	5.4	11.5	6.5	5.1	10.4
Number of Establishments									
One	8.9	6.9	13.0	7.1	5.4	12.5	7.1	5.1	11.5
2 to 5	25.5	14.7	16.7	15.2	10.5	12.8	19.0	13.3	10.1
6 to 10	60.4	24.4	36.5	51.8	18.4	27.8	48.6	19.1	23.4
11 to 20	0.0	26.6	36.5	0.0	19.9	27.3	0.0	20.9	29.5
More than 20	100.1	55.0	39.6	100.1	46.3	22.3	0.0	34.3	34.6
Currently Unoccupied	67.3	43.8	55.0	59.8	45.8	45.9	82.2	40.7	29.3

RSEs for Table C31. Natural Gas Consumption and Conditional Energy Intensity by Building Size for Non-Mall Buildings, 2003

	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*	8.8	6.4	10.4	6.9	5.0	9.1	6.4	5.0	7.8
Predominant Exterior Wall Material									
Brick, Stone or Stucco	11.8	6.4	13.4	8.0	5.9	12.9	8.8	3.9	13.1
Concrete (Block or Poured)	12.8	18.6	25.9	11.4	13.2	16.3	9.7	14.9	19.1
Concrete Panels	45.3	22.8	29.3	25.8	11.0	18.8	38.7	18.9	21.5
Siding or Shingles	14.6	19.6	36.2	15.0	22.2	31.1	15.7	16.5	24.6
Metal Panels	27.3	21.7	31.9	21.7	14.6	18.1	15.0	15.8	24.7
Window Glass	66.6	56.1	46.7	58.8	54.6	26.5	22.7	13.2	28.9
Other	55.5	48.5	36.0	39.4	37.8	30.9	46.1	32.5	18.2
No One Major Type	71.0	54.8	67.5	60.6	51.2	53.9	62.5	10.1	63.4
Predominant Roof Material									
Built-Up	15.6	10.5	16.4	11.9	7.1	12.1	12.6	8.3	10.3
Shingles (Not Wood)	15.1	11.3	50.0	10.4	10.0	28.9	10.6	8.9	39.9
Metal Surfacing	16.8	17.0	25.9	13.1	11.9	20.9	12.2	14.6	17.4
Synthetic or Rubber	15.9	11.1	11.8	13.9	9.3	10.7	12.3	7.3	10.0
Slate or Tile	22.1	21.4	54.9	16.3	18.9	42.5	19.5	18.0	34.8
Wooden Materials	39.8	38.0	67.1	33.6	24.1	66.6	32.4	43.9	141.5
Concrete	41.9	48.4	58.6	22.9	46.6	80.1	38.8	30.7	159.2
Other	100.1	45.0	58.6	100.1	42.0	57.1	0.0	27.0	91.5
No One Major Type	58.4	43.6	66.9	47.8	52.6	53.6	30.3	25.5	37.7
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	12.7	11.5	14.7	11.1	8.6	11.0	10.6	7.2	10.0
Addition or Annex	26.7	20.8	19.3	21.1	14.0	19.3	16.8	10.4	18.4
Reduction In Floorspace	75.8	39.9	33.6	69.4	41.0	33.2	9.7	17.8	20.4
Cosmetic Improvements	17.4	9.7	14.8	13.2	8.9	12.2	12.5	6.3	11.6
Wall or Roof Replacement	22.8	13.8	14.9	18.6	13.0	12.8	16.9	8.7	13.4
Interior Wall Re-Configuration	25.6	13.1	13.1	17.0	10.8	11.5	17.2	8.2	10.6
HVAC Equipment Upgrade	20.4	14.6	15.8	15.0	10.3	12.7	15.1	9.9	8.9
Lighting Upgrade	21.3	10.7	13.9	14.1	9.3	12.1	18.4	8.1	10.0
Window Replacement	24.2	15.5	19.6	17.9	13.3	15.4	20.6	12.3	19.9
Plumbing System Upgrade	27.4	13.6	16.2	16.4	13.2	14.6	28.3	8.6	13.8
Insulation Upgrade	32.5	14.8	17.9	26.2	13.8	19.7	19.9	11.5	15.5
Other Renovation	74.2	41.7	55.9	80.2	37.0	54.4	10.4	33.3	25.6
No Renovations Since 1980	12.4	10.5	26.6	9.0	9.1	20.1	9.3	7.9	23.6
Building Newer than 1980	14.6	9.6	16.5	12.1	7.1	10.7	11.2	8.1	12.5
Energy Sources (more than one may apply)									
Electricity	8.4	6.8	10.4	7.3	5.7	9.9	6.7	4.8	8.5
Natural Gas	8.8	6.4	10.4	6.9	5.0	9.1	6.4	5.0	7.8
Fuel Oil	60.2	17.0	15.4	51.5	14.8	12.6	24.2	9.8	11.5
District Heat	96.0	47.4	35.5	71.3	33.2	18.7	124.2	44.1	29.8
District Chilled Water	96.0	26.1	33.0	71.3	26.7	23.6	124.2	11.0	28.3
Propane	49.5	24.9	36.8	30.6	25.7	23.2	27.7	15.0	23.2
Other	32.3	36.5	38.4	36.6	32.3	34.3	34.5	17.7	11.5

RSEs for Table C31. Natural Gas Consumption and Conditional Energy Intensity by Building Size for Non-Mall Buildings, 2003

	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*	8.8	6.4	10.4	6.9	5.0	9.1	6.4	5.0	7.8
Space-Heating Energy Sources									
Natural Gas	9.4	6.9	10.7	7.0	5.3	8.5	6.7	5.3	6.9
Natural Gas Main	9.9	7.2	11.2	7.1	5.7	9.3	7.1	5.5	7.4
Natural Gas Secondary	30.6	13.6	22.3	22.2	11.3	15.4	22.2	9.6	16.7
Other Excluding Natural Gas	24.6	19.1	26.2	18.2	15.0	32.2	21.4	13.0	26.7
Buildings without Heating	77.6	56.7	81.3	43.0	52.0	54.4	85.6	42.1	76.9
Primary Space-Heating Energy Source									
Electricity	21.1	12.4	22.6	14.8	10.1	16.9	16.5	7.6	14.4
Natural Gas	9.9	7.2	11.2	7.1	5.7	9.3	7.1	5.5	7.4
Fuel Oil	58.3	32.9	47.6	53.6	21.7	80.3	29.6	32.5	172.9
District Heat	96.0	39.9	37.5	71.3	36.7	19.6	124.2	44.8	32.5
Propane	0.0	X	0.0	0.0	X	0.0	0.0	X	0.0
Other	98.9	82.0	95.5	100.3	70.2	95.5	2.2	43.8	0.0
Cooling Energy Sources									
Natural Gas	67.8	38.0	32.8	64.3	30.9	28.8	32.1	26.9	31.9
Other Excluding Natural Gas	9.0	6.7	10.6	7.1	5.0	9.6	6.9	5.0	7.8
Buildings without Cooling	20.5	26.5	41.5	19.5	27.5	36.0	17.3	14.2	28.5
Water-Heating Energy Sources									
Natural Gas	10.1	7.4	11.3	7.2	5.6	9.1	7.8	4.5	8.0
Other Excluding Natural Gas	13.1	17.5	14.6	13.1	10.4	13.0	7.4	15.0	13.5
Bldgs without Water Heating	16.9	22.8	60.6	14.7	16.3	63.5	13.9	15.7	54.6
Cooking Energy Sources									
Natural Gas	15.0	7.6	12.1	11.5	8.2	12.9	10.6	5.4	12.6
Other Excluding Natural Gas	22.4	15.9	24.8	23.2	14.2	18.2	20.4	6.9	20.0
Buildings without Cooking	9.8	9.3	17.9	7.1	6.1	12.0	6.9	7.2	14.4
Energy End Uses (more than one may apply)									
Buildings with Space Heating	8.9	6.4	10.4	6.9	5.0	9.2	6.3	5.0	7.8
Buildings with Cooling	9.3	6.6	10.4	7.2	5.0	9.2	6.9	5.1	7.7
Buildings with Water Heating	9.1	6.6	10.4	7.2	5.2	9.2	6.3	5.0	7.8
Buildings with Cooking	13.2	7.6	11.6	10.5	8.0	12.3	10.7	4.6	11.5
Buildings with Manufacturing	31.0	33.7	37.2	27.0	19.6	26.2	24.4	24.6	21.9
Buildings with Electricity Generation	57.6	12.5	12.9	44.1	10.2	9.1	21.9	6.8	9.4
Percent of Floorspace Heated									
Not Heated	77.6	56.7	81.3	43.0	52.0	54.4	85.6	42.1	76.9
1 to 50	31.5	19.7	43.3	22.6	15.2	22.4	25.5	13.7	39.8
51 to 99	23.5	17.9	25.8	11.6	12.8	14.5	18.3	11.7	19.7
100	8.9	7.0	11.1	7.4	5.7	11.9	6.5	5.2	9.4

RSEs for Table C31. Natural Gas Consumption and Conditional Energy Intensity by Building Size for Non-Mall Buildings, 2003

	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*	8.8	6.4	10.4	6.9	5.0	9.1	6.4	5.0	7.8
Percent of Floorspace Cooled									
Not Cooled	20.5	26.5	41.5	19.5	27.5	36.0	17.3	14.2	28.5
1 to 50	12.3	12.3	21.3	12.8	9.4	17.3	9.7	8.9	16.7
51 to 99	19.9	10.3	18.0	10.0	9.2	13.0	15.5	7.3	16.1
100	11.6	9.3	14.3	8.7	7.3	12.1	9.2	7.3	10.7
Heating Equipment (more than one may apply)									
Heat Pumps	32.5	13.5	29.1	27.2	10.7	17.6	28.0	7.7	22.0
Packaged Heat Pumps	39.7	18.2	39.6	32.7	12.8	24.8	30.6	10.8	30.7
Split-System Heat Pumps	51.7	26.0	33.9	38.6	22.0	39.8	55.6	17.7	37.2
Individual Room Heat Pumps	100.5	19.8	29.2	100.5	18.1	20.3	0.0	9.1	27.2
Furnaces	10.5	11.2	21.2	7.5	8.4	17.1	6.7	7.9	12.2
Individual Space Heaters	26.7	12.9	14.3	18.6	8.7	12.8	14.8	9.2	11.5
District Heat	96.0	47.4	35.9	71.3	33.2	19.5	124.2	44.1	31.3
Boilers	11.8	8.8	11.7	14.8	7.4	12.7	10.9	5.9	12.0
Packaged Heating Units	15.9	10.1	15.1	14.3	7.1	9.5	14.0	7.2	12.0
Other	33.6	25.6	28.9	32.0	21.5	29.7	21.6	14.8	30.4
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	12.1	14.0	17.5	9.0	9.1	24.7	9.7	12.1	26.3
Heat Pumps	30.9	13.6	29.1	23.7	10.7	16.9	24.8	6.9	22.3
Packaged Heat Pumps	38.1	19.2	39.6	29.8	14.3	24.8	28.6	10.7	30.7
Split-System Heat Pumps	49.0	25.4	35.2	34.8	21.5	40.7	50.8	17.2	38.2
Individual Room Heat Pumps	100.5	19.9	28.7	100.5	17.9	19.2	0.0	7.8	27.0
Individual Air Conditioners	18.9	10.5	18.9	12.2	8.7	16.0	13.9	7.6	16.8
District Chilled Water	96.0	26.1	33.0	71.3	26.7	23.6	124.2	11.0	28.3
Central Chillers	73.7	12.5	13.3	87.3	10.3	12.4	324.4	9.4	10.8
Packaged Air Conditioning Units	12.0	7.0	11.7	9.8	6.1	11.3	9.0	5.7	10.3
Swamp Coolers	47.0	18.7	31.6	26.4	19.5	33.1	49.0	11.0	27.2
Other	68.4	37.9	54.1	67.1	33.1	42.6	5.8	30.8	23.9
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	14.7	11.9	20.4	9.3	7.8	13.9	12.4	10.2	15.6
Cooling	13.0	11.3	15.3	9.4	8.1	11.7	9.3	9.1	12.0
Water Heating Equipment									
Centralized System	9.8	5.6	12.4	7.4	5.1	12.9	7.5	5.0	10.9
Distributed System	18.9	16.5	34.5	15.5	12.0	22.7	14.2	14.1	37.1
Combination of Centralized and Distributed System	37.0	18.6	16.9	29.9	10.1	11.2	13.2	16.3	11.2
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	13.2	7.6	11.6	10.5	8.0	12.3	10.7	4.7	11.5
Activities with Large Amounts of Hot Water	17.4	10.3	11.4	13.6	7.9	12.8	11.8	6.8	12.3
Separate Computer Area	20.4	7.0	11.0	18.4	7.1	9.2	14.1	4.5	8.2

RSEs for Table C31. Natural Gas Consumption and Conditional Energy Intensity by Building Size for Non-Mall Buildings, 2003

	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*	8.8	6.4	10.4	6.9	5.0	9.1	6.4	5.0	7.8
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	26.4	11.9	12.8	16.9	8.4	9.9	19.8	8.8	8.8
Economizer Cycle	24.0	9.2	10.8	14.4	7.4	8.7	17.2	6.8	8.3
HVAC Maintenance	9.8	6.1	10.7	7.0	5.0	9.5	7.6	5.3	8.2
Energy Management and Control System (EMCS)	56.0	11.7	11.1	37.0	8.8	9.3	26.8	7.4	9.5
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	9.8	7.4	10.9	7.3	5.7	10.1	7.3	5.4	10.3
Cooling	10.0	7.6	11.1	7.6	5.8	9.9	8.1	5.6	10.0
Lighting	9.0	7.3	13.0	7.1	5.2	10.2	7.0	6.0	11.6
Office Equipment	14.3	9.5	23.1	10.2	8.3	19.7	8.7	7.5	25.2
Annual Consumption (hundred cubic feet)									
1,000 or Less	8.8	19.6	55.6	9.7	16.4	43.1	7.2	11.2	28.4
1,001 to 5,000	7.9	12.8	22.3	8.4	11.0	21.8	4.3	6.0	16.1
5,001 to 10,000	13.6	8.5	35.1	14.6	8.8	25.0	5.9	4.5	20.1
10,001 to 25,000	21.5	10.0	18.2	22.3	8.6	16.4	9.5	4.4	7.6
25,001 to 50,000	37.7	9.6	17.9	40.4	7.3	22.9	15.1	6.6	12.0
50,001 to 100,000	0.0	24.0	13.9	0.0	20.3	13.4	0.0	12.9	9.2
Over 100,000	0.0	31.8	12.9	0.0	28.3	11.7	0.0	14.2	7.0
Provider of Natural Gas (more than one may apply)									
Local Utility	8.8	6.5	12.3	7.0	5.2	10.2	6.6	5.1	9.2
Some Other Provider	27.3	15.9	15.2	25.4	15.8	15.3	14.7	12.9	12.8

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

RSEs for Table C32. Natural Gas Consumption and Conditional Energy Intensity by Year Constructed for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	10.6	6.9	9.9	9.4	5.5	7.8	9.1	5.4	7.4
Building Floorspace (Square Feet)									
1,001 to 5,000	9.6	12.7	19.4	10.3	9.7	14.9	7.8	9.8	16.9
5,001 to 10,000	19.0	19.8	25.4	15.1	12.3	20.1	14.6	13.5	20.4
10,001 to 25,000	11.8	16.6	16.6	12.6	9.8	13.9	9.4	14.9	13.8
25,001 to 50,000	24.2	11.7	16.2	15.8	10.9	11.4	14.8	8.9	12.7
50,001 to 100,000	18.5	13.1	14.8	16.4	11.2	11.2	18.3	11.4	12.6
100,001 to 200,000	37.2	19.9	22.7	32.9	12.7	18.6	42.8	13.8	22.6
200,001 to 500,000	43.5	11.2	22.3	33.4	11.1	17.5	42.2	11.3	13.8
Over 500,000	37.8	27.0	42.5	29.3	25.0	26.3	31.7	23.8	40.1
Principal Building Activity									
Education	15.1	15.7	19.6	11.4	10.7	16.1	10.0	11.8	13.9
Food Sales	53.0	29.6	40.2	35.2	29.1	36.1	25.9	14.0	22.3
Food Service	19.0	18.0	21.3	20.0	18.2	24.6	15.0	17.0	14.3
Health Care	35.1	13.4	29.6	33.5	11.7	17.0	13.2	7.5	21.4
Inpatient	38.7	14.0	37.8	43.4	12.4	28.0	15.7	7.6	23.2
Outpatient	40.7	34.1	38.0	39.3	23.5	18.8	24.5	19.3	29.7
Lodging	30.8	22.5	18.1	53.4	14.3	17.1	76.3	14.8	13.0
Retail (Other Than Mall)	28.6	21.2	23.4	20.2	18.4	18.6	22.0	15.9	18.2
Office	24.5	17.1	16.4	14.2	13.7	13.2	20.8	13.4	13.2
Public Assembly	26.2	22.3	29.6	33.5	17.4	22.5	53.2	12.8	22.0
Public Order and Safety	39.4	42.9	32.8	41.1	32.2	33.2	20.1	33.3	25.7
Religious Worship	20.4	17.2	26.2	20.6	13.7	19.7	11.5	10.3	17.6
Service	32.0	24.8	25.5	28.7	26.4	22.0	26.0	19.3	22.1
Warehouse and Storage	45.1	28.4	27.2	22.4	20.5	18.9	37.2	19.5	17.1
Other	42.4	56.8	45.7	34.1	30.3	46.2	32.6	46.3	59.6
Vacant	49.6	26.2	55.6	38.7	42.2	46.9	30.4	28.3	34.2
Census Region and Division									
Northeast	17.0	10.7	29.6	19.7	13.3	13.8	21.9	13.1	21.5
New England	34.5	34.5	83.3	49.8	18.0	63.7	30.6	28.6	55.8
Middle Atlantic	19.2	11.2	25.8	21.0	15.3	7.9	25.8	14.5	24.2
Midwest	16.7	10.2	14.4	12.6	6.3	12.6	10.0	8.5	8.4
East North Central	15.8	11.8	19.5	12.2	6.4	18.1	12.1	9.8	10.6
West North Central	43.5	16.8	16.2	32.8	17.5	12.5	21.4	9.8	13.1
South	28.8	14.4	15.4	18.4	12.5	13.2	20.1	12.6	12.1
South Atlantic	53.9	22.7	23.7	33.7	20.6	16.4	40.4	11.5	20.3
East South Central	41.7	29.5	24.7	43.0	12.2	31.0	2.0	26.9	18.1
West South Central	19.0	20.3	27.2	21.3	21.1	28.4	14.7	17.4	18.1
West	23.9	15.4	25.5	18.3	11.6	20.9	16.8	9.6	18.1
Mountain	39.5	21.1	31.2	26.4	20.0	31.8	22.8	9.8	31.0
Pacific	29.6	18.7	40.2	23.4	12.8	27.5	21.1	15.4	26.6
Climate Zone: 30-Year Average									
Under 2,000 CDD and --									
More than 7,000 HDD	20.8	14.9	20.9	15.2	14.5	19.9	11.3	6.2	10.4
5,500-7,000 HDD	12.6	11.2	19.7	13.9	6.8	15.2	12.2	9.3	16.0
4,000-5,499 HDD	30.2	25.9	27.2	26.7	22.4	18.0	30.5	17.9	19.3
Fewer than 4,000 HDD	36.0	19.3	25.1	19.6	13.9	21.7	26.8	11.1	16.8
2,000 CDD or More and --									
Fewer than 4,000 HDD	28.4	27.7	29.2	28.5	26.7	27.3	22.3	14.7	18.7

RSEs for Table C32. Natural Gas Consumption and Conditional Energy Intensity by Year Constructed for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	10.6	6.9	9.9	9.4	5.5	7.8	9.1	5.4	7.4
Number of Floors									
One	13.6	11.8	13.7	13.1	8.0	11.3	10.5	8.5	9.2
Two	14.5	11.2	14.1	14.8	9.0	11.7	17.9	10.1	11.0
Three	21.5	14.4	23.3	14.5	11.0	19.4	14.7	10.7	14.6
Four to Nine	21.4	13.2	29.8	25.0	12.5	15.8	23.4	10.1	22.4
Ten or More	41.2	32.4	50.0	25.9	24.2	35.4	34.3	28.6	45.0
Number of Workers (main shift)									
Fewer than 5	12.6	13.2	21.9	13.6	12.7	14.9	7.8	11.1	20.0
5 to 9	14.9	19.9	20.6	15.4	12.3	19.3	8.9	16.1	15.2
10 to 19	17.1	12.5	18.7	25.5	9.8	16.9	25.0	9.7	16.2
20 to 49	18.4	16.9	17.2	19.4	11.1	16.2	22.8	12.5	8.6
50 to 99	15.9	11.2	18.2	12.1	12.4	15.9	12.6	8.1	11.9
100 to 249	37.1	19.3	24.5	25.4	15.3	15.0	26.2	13.4	19.5
250 or More	33.9	17.2	28.8	21.4	15.9	16.5	26.0	13.8	21.3
Weekly Operating Hours									
Fewer than 40	16.0	25.4	24.5	15.0	20.6	21.0	10.7	21.7	17.8
40 to 48	12.1	19.9	16.0	16.3	12.8	13.0	17.0	15.5	14.1
49 to 60	20.4	13.6	15.1	11.4	9.6	14.2	15.2	12.2	10.0
61 to 84	16.0	15.1	22.1	14.8	10.8	18.7	11.9	10.8	18.6
85 to 167	23.1	15.4	17.1	19.9	13.1	13.4	19.9	12.1	16.6
Open Continuously	24.3	11.4	18.8	19.2	9.9	11.6	17.5	7.9	13.8
Ownership and Occupancy									
Nongovernment Owned	11.6	8.0	10.9	11.4	5.7	8.5	11.3	6.5	9.0
Owner Occupied	16.0	9.4	15.6	12.6	8.3	8.4	12.3	6.7	12.5
Nonowner Occupied	10.9	11.4	13.3	14.6	8.1	12.9	15.8	9.1	11.3
Unoccupied	58.9	28.5	81.7	57.1	48.9	53.0	46.9	31.8	45.1
Government Owned	15.2	12.6	14.3	9.7	10.2	12.2	10.2	7.9	9.6
Federal	47.3	33.2	49.6	39.5	43.0	39.6	16.0	42.4	23.8
State	33.7	26.2	26.6	28.6	18.8	26.4	17.1	16.6	25.0
Local	18.5	12.6	16.6	13.2	11.3	14.7	11.0	8.3	10.6
Vacancy Status									
Completely Vacant	60.6	28.5	81.7	47.3	48.5	53.0	49.5	31.7	45.1
Mostly Vacant	74.1	59.5	71.5	64.7	55.9	79.7	31.9	30.7	17.9
Partially Vacant	21.5	15.5	22.3	14.2	14.6	15.5	16.3	13.2	14.0
Not At All Vacant	11.1	8.4	10.1	11.6	6.2	8.3	11.7	5.5	7.5
Number of Establishments									
One	11.4	7.8	10.9	12.9	6.4	9.1	13.4	6.0	7.7
2 to 5	15.1	17.6	16.8	14.2	10.0	14.0	10.7	13.2	10.0
6 to 10	31.9	24.7	48.3	32.4	18.4	34.3	18.6	22.8	30.7
11 to 20	41.0	37.3	57.6	53.5	22.9	37.1	34.2	29.1	40.3
More than 20	68.6	31.9	67.3	42.6	27.5	41.6	58.2	22.1	56.3
Currently Unoccupied	60.6	28.5	81.7	47.3	48.5	53.0	49.5	31.7	45.1

RSEs for Table C32. Natural Gas Consumption and Conditional Energy Intensity by Year Constructed for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	10.6	6.9	9.9	9.4	5.5	7.8	9.1	5.4	7.4
Predominant Exterior Wall Material									
Brick, Stone or Stucco	10.3	10.1	12.3	10.1	7.0	11.4	10.9	6.0	10.7
Concrete (Block or Poured)	29.4	18.5	20.7	18.4	14.4	15.7	17.9	14.0	16.7
Concrete Panels	44.9	28.3	21.6	37.1	19.9	19.1	27.4	22.0	12.1
Siding or Shingles	19.9	18.3	19.8	29.1	19.6	18.5	22.2	17.0	18.6
Metal Panels	38.2	24.6	23.4	37.0	17.6	11.8	15.3	13.1	21.0
Window Glass	100.4	46.9	50.0	100.4	36.0	26.5	0.0	19.2	42.6
Other	67.6	42.2	38.9	54.8	33.9	37.3	38.1	22.5	18.2
No One Major Type	99.0	48.2	57.4	83.4	40.3	56.6	434.9	42.9	39.0
Predominant Roof Material									
Built-Up	15.2	12.1	15.4	10.6	8.3	15.2	9.1	9.8	11.4
Shingles (Not Wood)	22.2	11.9	13.9	13.1	10.4	11.5	16.6	10.1	9.5
Metal Surfacing	18.8	21.0	16.6	24.6	16.2	12.6	15.9	12.4	12.3
Synthetic or Rubber	13.4	11.0	19.9	12.3	10.3	13.2	11.0	7.6	15.3
Slate or Tile	23.3	30.8	31.1	20.9	23.5	24.8	18.0	22.9	20.4
Wooden Materials	36.2	35.1	57.8	36.1	28.4	77.0	18.2	39.5	210.7
Concrete	53.4	52.2	59.4	87.1	60.1	56.8	307.9	47.3	47.6
Other	100.1	49.9	64.2	74.1	48.3	42.1	113.5	53.1	44.6
No One Major Type	52.4	49.8	72.1	59.2	43.8	51.5	31.2	24.8	35.6
Renovations in Buildings Constructed Before 1980 (more than one may apply)									
Any Type of Renovation Since 1980	14.0	8.0	0.0	9.9	8.0	0.0	10.2	5.3	0.0
Addition or Annex	24.2	11.9	0.0	21.7	10.1	0.0	23.8	7.0	0.0
Reduction In Floorspace	33.1	32.7	0.0	35.9	32.9	0.0	16.6	23.5	0.0
Cosmetic Improvements	12.2	9.7	0.0	10.1	9.3	0.0	10.9	6.1	0.0
Wall or Roof Replacement	15.2	14.7	0.0	13.7	12.5	0.0	14.9	8.6	0.0
Interior Wall Re-Configuration	14.0	11.1	0.0	12.3	10.0	0.0	14.1	6.2	0.0
HVAC Equipment Upgrade	16.8	8.9	0.0	11.9	9.1	0.0	11.0	5.8	0.0
Lighting Upgrade	11.7	10.4	0.0	11.8	9.9	0.0	11.7	6.9	0.0
Window Replacement	16.2	15.0	0.0	13.3	13.5	0.0	15.4	10.3	0.0
Plumbing System Upgrade	13.4	15.0	0.0	13.5	13.1	0.0	16.9	7.4	0.0
Insulation Upgrade	15.0	17.8	0.0	17.0	16.7	0.0	15.0	10.5	0.0
Other Renovation	45.6	52.8	0.0	37.3	43.6	0.0	35.7	16.8	0.0
No Renovations Since 1980	12.5	12.2	0.0	12.0	8.6	0.0	11.1	10.1	0.0
Building Newer than 1980	0.0	14.3	9.9	0.0	9.3	7.8	0.0	11.2	7.4
Energy Sources (more than one may apply)									
Electricity	10.2	7.4	10.7	10.2	5.9	8.4	10.1	5.4	8.5
Natural Gas	10.6	6.9	9.9	9.4	5.5	7.8	9.1	5.4	7.4
Fuel Oil	29.1	18.4	17.1	21.0	13.4	14.5	17.0	14.4	12.2
District Heat	59.9	32.5	55.1	25.4	22.5	27.4	50.6	29.6	49.1
District Chilled Water	48.3	31.6	36.9	41.8	25.9	33.6	33.7	29.8	35.6
Propane	60.6	30.7	37.7	42.2	23.3	35.1	37.2	15.8	24.3
Other	51.4	31.9	35.9	39.0	31.6	31.1	19.9	18.2	21.5

RSEs for Table C32. Natural Gas Consumption and Conditional Energy Intensity by Year Constructed for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	10.6	6.9	9.9	9.4	5.5	7.8	9.1	5.4	7.4
Space-Heating Energy Sources									
Natural Gas	11.0	7.3	10.2	8.4	5.8	8.1	7.3	5.6	7.9
Natural Gas Main	11.3	7.6	10.9	8.8	5.9	8.6	7.6	5.7	8.5
Natural Gas Secondary	27.4	14.9	16.2	24.9	14.4	16.6	10.2	14.5	16.3
Other Excluding Natural Gas	29.1	16.7	21.3	49.5	16.9	16.9	57.7	18.9	20.4
Buildings without Heating	83.0	55.4	82.8	37.4	50.4	49.1	86.2	45.5	89.4
Primary Space-Heating Energy Source									
Electricity	25.5	11.1	14.2	24.2	11.4	14.7	13.3	9.8	14.8
Natural Gas	11.3	7.6	10.9	8.8	5.9	8.6	7.6	5.7	8.5
Fuel Oil	40.3	22.1	100.7	68.0	44.6	72.0	91.7	41.0	104.2
District Heat	38.0	39.3	43.8	26.3	24.8	27.8	37.7	38.1	25.1
Propane	0.0	0.0	X	0.0	0.0	X	0.0	0.0	X
Other	85.4	88.8	100.1	81.2	74.7	85.4	5.4	65.9	100.9
Cooling Energy Sources									
Natural Gas	56.9	28.4	36.6	51.0	26.2	35.9	75.5	16.5	24.7
Other Excluding Natural Gas	11.2	7.4	9.6	10.2	6.1	7.8	9.0	5.1	7.2
Buildings without Cooling	17.3	19.6	46.5	16.9	38.4	39.0	13.7	22.1	34.8
Water-Heating Energy Sources									
Natural Gas	12.5	8.4	10.7	10.3	5.8	8.6	9.7	6.2	7.6
Other Excluding Natural Gas	14.0	13.9	13.9	14.7	9.9	12.4	11.1	11.9	13.3
Bldgs without Water Heating	21.2	24.4	41.5	14.6	21.1	36.1	15.1	15.6	37.4
Cooking Energy Sources									
Natural Gas	16.2	9.9	14.5	20.4	8.3	11.3	21.2	8.0	10.4
Other Excluding Natural Gas	24.1	20.4	22.6	15.6	15.7	20.2	18.3	14.6	10.8
Buildings without Cooking	11.5	9.8	13.0	10.0	7.3	10.5	7.5	7.2	10.3
Energy End Uses (more than one may apply)									
Buildings with Space Heating	10.6	6.9	9.8	9.4	5.5	7.6	9.3	5.4	7.5
Buildings with Cooling	11.5	7.3	10.0	10.1	6.0	7.8	9.2	5.1	7.3
Buildings with Water Heating	11.0	7.1	9.9	10.2	5.5	7.7	9.5	5.5	7.2
Buildings with Cooking	15.3	9.9	13.2	18.2	8.5	10.6	18.0	7.8	9.8
Buildings with Manufacturing	42.7	34.9	45.6	23.4	24.1	31.4	32.8	22.6	24.4
Buildings with Electricity Generation	28.8	13.2	13.2	18.9	9.7	11.1	17.8	9.1	12.4
Percent of Floorspace Heated									
Not Heated	83.0	55.4	82.8	37.4	50.4	49.1	86.2	45.5	89.4
1 to 50	29.2	25.8	31.3	23.5	18.5	16.9	15.8	18.8	27.3
51 to 99	24.7	21.5	21.0	14.4	15.3	15.5	19.3	13.4	19.9
100	11.2	7.6	9.3	13.4	5.9	7.8	12.1	6.1	6.7
Percent of Floorspace Cooled									
Not Cooled	17.3	19.6	46.5	16.9	38.4	39.0	13.7	22.1	34.8
1 to 50	14.8	18.2	17.1	12.1	14.2	16.6	11.3	10.0	14.2
51 to 99	21.1	12.4	19.8	17.1	9.1	10.9	24.2	9.1	14.3
100	16.8	9.9	9.5	12.2	8.0	8.9	10.4	7.7	8.7

RSEs for Table C32. Natural Gas Consumption and Conditional Energy Intensity by Year Constructed for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	10.6	6.9	9.9	9.4	5.5	7.8	9.1	5.4	7.4
Heating Equipment (more than one may apply)									
Heat Pumps	42.4	25.3	26.2	25.2	17.4	17.6	31.9	21.0	23.8
Packaged Heat Pumps	65.3	33.3	22.4	40.7	22.2	21.6	45.4	29.2	18.8
Split-System Heat Pumps	42.4	28.3	34.3	27.6	30.8	28.7	37.4	24.8	24.8
Individual Room Heat Pumps	34.9	21.2	43.4	30.2	23.0	24.3	29.1	14.6	40.9
Furnaces	17.5	11.2	13.8	12.2	8.1	11.8	11.2	8.1	12.2
Individual Space Heaters	19.5	12.4	19.5	14.9	9.4	10.8	14.6	8.5	15.8
District Heat	64.6	34.6	55.1	25.6	23.8	27.4	54.4	33.1	49.1
Boilers	12.7	10.7	15.6	15.0	9.1	11.7	14.6	7.4	10.6
Packaged Heating Units	21.1	10.3	13.5	15.0	8.5	9.5	13.4	9.0	11.6
Other	33.3	27.8	27.2	31.3	23.7	37.2	18.1	15.9	40.4
Cooling Equipment (more than one may apply)									
Residential-Type Central Air Conditioners	17.8	10.9	21.4	18.8	11.4	11.6	18.6	10.6	17.8
Heat Pumps	39.1	25.5	26.0	24.2	17.2	17.1	28.2	21.3	22.8
Packaged Heat Pumps	57.8	33.8	22.3	38.1	22.5	21.1	36.0	29.6	17.2
Split-System Heat Pumps	39.5	29.1	33.8	27.0	31.2	27.7	33.3	25.0	23.9
Individual Room Heat Pumps	34.9	20.8	43.5	30.2	22.1	24.6	29.1	16.0	41.5
Individual Air Conditioners	16.8	11.5	23.7	14.6	10.1	18.0	14.7	7.7	21.7
District Chilled Water	48.3	31.6	36.9	41.8	25.9	33.6	33.7	29.8	35.6
Central Chillers	24.5	13.9	21.3	16.7	13.2	15.7	19.7	10.6	12.3
Packaged Air Conditioning Units	14.6	8.4	9.8	14.2	7.4	9.0	14.8	6.7	8.6
Swamp Coolers	51.4	15.8	70.0	50.2	20.8	40.7	12.6	18.4	70.2
Other	65.5	38.9	46.1	57.1	31.9	42.8	22.3	19.7	42.8
Main Equipment Replaced Since 1990 (more than one may apply)									
Heating	15.1	11.7	0.0	10.6	7.9	0.0	11.2	10.0	0.0
Cooling	12.8	9.9	0.0	10.1	7.8	0.0	9.9	7.7	0.0
Water Heating Equipment									
Centralized System	10.0	7.8	10.3	10.3	6.6	9.6	10.9	6.0	7.0
Distributed System	22.8	21.0	23.1	23.9	14.1	11.7	25.9	18.6	20.2
Combination of Centralized and Distributed System	28.5	18.7	22.1	19.1	10.9	14.1	18.8	14.7	16.2
Energy-Related Space Functions (more than one may apply)									
Commercial Food Preparation	15.4	9.9	13.2	18.2	8.5	10.6	18.0	7.8	9.8
Activities with Large Amounts of Hot Water	17.0	10.6	13.6	22.8	8.1	10.8	28.2	8.0	9.6
Separate Computer Area	14.7	10.3	14.9	10.3	9.2	9.4	11.3	7.4	11.2
HVAC Conservation Features (more than one may apply)									
Variable Air-Volume System	19.4	13.6	14.7	13.5	10.4	9.2	13.9	10.5	10.8
Economizer Cycle	16.3	9.6	13.5	13.0	8.8	8.8	11.7	6.9	10.7
HVAC Maintenance	11.5	7.5	9.9	10.9	6.2	7.9	10.7	5.6	7.9
Energy Management and Control System (EMCS)	19.2	13.3	12.4	12.8	11.6	10.0	13.8	11.1	10.6

RSEs for Table C32. Natural Gas Consumption and Conditional Energy Intensity by Year Constructed for Non-Mall Buildings, 2003

	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 2003	1959 or Before	1960 to 1989	1990 to 2003	1959 or Before	1960 to 1989	1990 to 2003
All Buildings*	10.6	6.9	9.9	9.4	5.5	7.8	9.1	5.4	7.4
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]									
Heating	11.6	7.9	9.9	10.3	6.6	8.7	11.6	6.3	6.4
Cooling	11.9	7.8	10.3	11.0	6.9	9.0	11.7	5.9	6.2
Lighting	10.1	8.2	10.4	9.2	6.4	8.6	9.1	6.5	7.4
Office Equipment	16.2	11.7	12.4	13.4	9.2	12.4	15.5	10.3	10.0
Annual Consumption (hundred cubic feet)									
1,000 or Less	16.5	11.9	18.4	28.5	20.5	16.5	34.2	15.2	18.5
1,001 to 5,000	12.9	8.7	14.5	13.7	10.2	12.6	8.0	8.4	9.4
5,001 to 10,000	13.9	11.7	17.6	16.9	10.3	16.8	9.8	8.8	14.9
10,001 to 25,000	12.8	13.4	14.8	14.3	10.0	14.1	10.3	8.8	12.0
25,001 to 50,000	16.0	15.4	19.9	31.1	12.6	15.0	42.9	11.1	17.1
50,001 to 100,000	37.0	19.9	23.1	27.5	14.8	25.7	25.7	17.8	14.4
Over 100,000	24.7	14.6	24.8	22.4	16.6	18.2	12.5	10.3	9.9
Provider of Natural Gas (more than one may apply)									
Local Utility	10.9	7.4	9.9	10.0	5.2	7.7	9.8	6.1	7.7
Some Other Provider	22.5	16.6	22.4	19.0	17.8	20.0	16.8	12.5	17.5

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

RSEs for Table C33. Total Fuel Oil Consumption and Expenditures for Non-Mall Buildings, 2003

	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*	12.7	8.5	12.1	17.0	17.0	16.2
Building Floorspace (Square Feet)						
1,001 to 5,000	15.7	17.3	4.2	32.7	32.7	25.5
5,001 to 10,000	22.4	23.4	4.3	41.3	41.3	37.1
10,001 to 25,000	26.1	27.3	3.6	29.1	29.1	28.7
25,001 to 50,000	20.3	20.6	3.4	17.0	17.0	20.4
50,001 to 100,000	12.7	12.4	2.1	18.7	18.7	18.6
100,001 to 200,000	16.2	15.2	3.3	24.6	24.6	24.8
200,001 to 500,000	12.9	14.0	3.4	29.7	29.7	31.8
Over 500,000	18.7	18.9	5.3	43.7	43.7	41.2
Principal Building Activity						
Education	21.8	17.4	15.3	24.2	24.2	23.1
Food Sales	45.3	52.3	31.1	57.5	57.5	58.3
Food Service	51.7	49.2	19.0	67.8	67.8	68.8
Health Care	31.1	14.7	31.7	23.3	23.3	21.9
Inpatient	28.5	15.6	20.8	24.0	24.0	22.5
Outpatient	50.8	30.4	59.9	58.4	58.4	60.7
Lodging	23.3	19.6	23.9	37.5	37.5	37.6
Retail (Other Than Mall)	33.1	31.9	35.7	55.1	55.1	47.6
Office	23.8	17.3	23.9	37.7	37.7	37.2
Public Assembly	19.1	25.6	21.9	30.6	30.6	30.3
Public Order and Safety	34.7	38.0	43.8	40.1	40.1	42.1
Religious Worship	32.4	29.1	19.6	41.2	41.2	40.7
Service	21.7	20.5	15.8	63.0	63.0	56.9
Warehouse and Storage	30.8	27.5	35.0	48.3	48.3	46.9
Other	59.8	29.9	116.7	64.7	64.7	57.9
Vacant	77.4	80.8	11.8	72.7	72.7	70.4
Year Constructed						
Before 1920	24.1	24.3	22.8	31.0	31.0	26.2
1920 to 1945	28.2	26.0	39.1	32.7	32.7	38.9
1946 to 1959	24.3	19.8	24.7	35.1	35.1	30.7
1960 to 1969	30.5	15.2	23.8	52.9	52.9	51.8
1970 to 1979	20.6	15.5	22.3	26.4	26.4	25.0
1980 to 1989	23.4	15.1	26.0	26.6	26.6	27.0
1990 to 1999	21.5	14.4	20.0	37.9	37.9	37.5
2000 to 2003	32.3	20.2	34.8	54.2	54.2	55.3
Census Region and Division						
Northeast	20.3	16.5	15.5	21.1	21.1	20.4
New England	18.3	30.9	14.8	27.5	27.5	24.9
Middle Atlantic	38.5	19.2	29.3	34.1	34.1	36.2
Midwest	25.2	12.9	24.5	47.0	47.0	41.3
East North Central	24.2	13.8	26.3	67.0	67.0	56.4
West North Central	46.4	28.1	44.3	54.8	54.8	59.4
South	25.9	18.2	30.2	40.4	40.4	39.7
South Atlantic	38.3	21.3	41.6	43.5	43.5	42.9
East South Central	34.4	12.5	27.1	20.8	20.8	23.4
West South Central	40.0	38.3	46.7	38.2	38.2	34.0
West	26.6	15.8	32.6	44.5	44.5	48.3
Mountain	36.6	29.9	65.3	69.8	69.8	74.3
Pacific	32.2	18.4	39.1	47.8	47.8	52.0

RSEs for Table C33. Total Fuel Oil Consumption and Expenditures for Non-Mall Buildings, 2003

	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*	12.7	8.5	12.1	17.0	17.0	16.2
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	20.3	21.4	13.9	34.6	34.6	32.8
5,500-7,000 HDD	27.2	14.5	17.6	22.3	22.3	20.3
4,000-5,499 HDD	37.4	25.2	33.4	40.4	40.4	45.4
Fewer than 4,000 HDD	30.0	13.9	27.9	34.8	34.8	37.0
2,000 CDD or More and --						
Fewer than 4,000 HDD	31.6	29.9	36.8	28.1	28.1	24.9
Number of Floors						
One	16.3	15.0	10.9	31.4	31.4	30.0
Two	14.8	14.2	14.8	26.9	26.9	23.0
Three	23.9	21.9	26.3	19.7	19.7	20.3
Four to Nine	18.3	13.7	11.8	27.2	27.2	21.5
Ten or More	17.4	19.0	9.2	41.0	41.0	42.9
Number of Workers (main shift)						
Fewer than 5	16.5	22.3	11.5	29.0	29.0	25.3
5 to 9	27.2	26.1	19.1	37.4	37.4	36.2
10 to 19	30.2	25.2	19.1	30.3	30.3	29.8
20 to 49	18.8	15.7	19.1	22.6	22.6	31.5
50 to 99	14.1	20.2	14.0	32.0	32.0	31.8
100 to 249	19.0	19.4	8.7	31.0	31.0	30.9
250 or More	10.5	13.6	7.9	24.3	24.3	25.6
Weekly Operating Hours						
Fewer than 40	19.6	28.0	21.5	27.0	27.0	27.1
40 to 48	24.1	17.2	19.2	40.0	40.0	39.9
49 to 60	19.9	16.7	21.1	26.9	26.9	24.9
61 to 84	20.7	17.3	24.0	29.8	29.8	26.7
85 to 167	28.0	21.8	27.1	40.8	40.8	34.8
Open Continuously	16.9	10.3	17.3	21.3	21.3	21.3
Ownership and Occupancy						
Nongovernment Owned	13.4	9.4	13.6	18.4	18.4	17.0
Owner Occupied	15.7	12.3	14.4	21.0	21.0	20.3
Nonowner Occupied	18.1	12.5	20.8	29.8	29.8	26.2
Unoccupied	93.8	93.8	0.0	93.8	93.8	93.8
Government Owned	20.2	12.4	19.4	21.5	21.5	22.0
Federal	44.6	47.3	57.2	58.4	58.4	60.5
State	34.2	25.2	30.1	37.4	37.4	40.7
Local	25.0	13.3	24.5	20.7	20.7	14.4
Vacancy Status						
Completely Vacant	97.3	94.5	5.1	99.0	99.0	98.9
Mostly Vacant	100.1	100.1	0.0	100.1	100.1	100.1
Partially Vacant	25.2	15.7	29.5	25.5	25.5	34.9
Not At All Vacant	13.4	8.4	12.5	17.3	17.3	16.1

RSEs for Table C33. Total Fuel Oil Consumption and Expenditures for Non-Mall Buildings, 2003

	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*	12.7	8.5	12.1	17.0	17.0	16.2
Number of Establishments						
One	14.9	9.2	14.1	21.0	21.0	19.5
2 to 5	18.1	13.5	15.3	21.0	21.0	19.3
6 to 10	30.0	25.2	21.8	52.9	52.9	58.6
11 to 20	21.0	30.2	19.0	81.8	81.8	79.4
More than 20	22.2	23.1	13.7	61.3	61.3	50.8
Currently Unoccupied	97.3	94.5	5.1	99.0	99.0	98.9
Predominant Exterior Wall Material						
Brick, Stone or Stucco	18.1	11.3	17.0	15.4	15.4	16.2
Concrete (Block or Poured)	20.0	13.8	19.2	27.9	27.9	29.4
Concrete Panels	25.3	22.1	29.3	69.7	69.7	63.5
Siding or Shingles	15.1	19.3	11.0	42.4	42.4	36.1
Metal Panels	22.0	22.9	26.7	28.1	28.1	30.1
Window Glass	33.9	23.1	25.6	43.0	43.0	44.9
Other	42.1	33.2	33.2	83.7	83.7	85.0
No One Major Type	48.1	47.3	36.7	75.9	75.9	71.9
Predominant Roof Material						
Built-Up	17.4	12.0	19.7	19.9	19.9	21.7
Shingles (Not Wood)	13.9	13.8	12.6	26.1	26.1	23.7
Metal Surfacing	21.9	22.1	16.1	43.7	43.7	38.6
Synthetic or Rubber	20.3	11.6	19.8	19.8	19.8	19.9
Slate or Tile	34.4	38.8	42.6	37.6	37.6	38.7
Wooden Materials	48.7	34.5	33.1	64.3	64.3	59.6
Concrete	35.5	42.4	33.9	44.8	44.8	61.3
Other	54.3	50.8	18.5	100.7	100.7	100.8
No One Major Type	61.3	49.0	38.5	70.2	70.2	69.9
Renovations in Buildings Constructed Before 1980 (more than one may apply)						
Any Type of Renovation Since 1980	14.3	11.7	12.8	23.9	23.9	24.4
Addition or Annex	26.8	20.5	17.9	60.6	60.6	60.7
Reduction In Floorspace	41.9	35.8	48.2	55.0	55.0	66.2
Cosmetic Improvements	14.5	11.8	14.4	20.1	20.1	18.0
Wall or Roof Replacement	19.6	14.7	21.1	14.7	14.7	14.8
Interior Wall Re-Configuration	15.5	13.6	17.9	14.0	14.0	15.4
HVAC Equipment Upgrade	23.6	12.4	23.2	17.6	17.6	19.1
Lighting Upgrade	17.7	13.3	17.3	17.0	17.0	15.6
Window Replacement	26.4	16.2	27.7	31.8	31.8	28.8
Plumbing System Upgrade	30.1	16.7	35.9	25.5	25.5	20.5
Insulation Upgrade	30.4	20.4	25.6	39.2	39.2	35.0
Other Renovation	60.7	44.6	59.2	67.2	67.2	71.3
No Renovations Since 1980	18.5	13.8	16.0	19.6	19.6	20.4
Building Newer than 1980	18.0	11.4	18.4	28.8	28.8	28.6

RSEs for Table C33. Total Fuel Oil Consumption and Expenditures for Non-Mall Buildings, 2003

	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*	12.7	8.5	12.1	17.0	17.0	16.2
Energy Sources (more than one may apply)						
Electricity	13.3	9.2	12.7	18.9	18.9	17.5
Natural Gas	15.5	10.3	16.9	15.1	15.1	16.6
Fuel Oil	12.7	8.5	12.1	17.0	17.0	16.2
District Heat	23.6	23.1	20.3	44.7	44.7	39.6
District Chilled Water	21.9	25.4	21.7	37.4	37.4	34.4
Propane	22.4	20.1	14.8	34.6	34.6	34.4
Other	25.9	21.1	27.7	53.4	53.4	48.3
Space-Heating Energy Sources						
Fuel Oil	14.7	13.6	10.0	17.6	17.6	16.5
Fuel Oil Main	17.6	20.3	11.5	19.2	19.2	18.0
Fuel Oil Secondary	19.3	12.8	16.7	21.1	21.1	22.0
Other Excluding Fuel Oil	12.4	10.3	14.3	25.9	25.9	30.4
Buildings without Heating	53.2	36.6	52.5	60.4	60.4	62.6
Primary Space-Heating Energy Source						
Electricity	25.2	16.1	28.9	38.9	38.9	35.8
Natural Gas	16.6	10.9	16.7	21.6	21.6	25.1
Fuel Oil	17.6	20.3	11.5	19.2	19.2	18.0
District Heat	22.2	23.8	20.8	38.6	38.6	34.8
Propane	51.6	45.3	33.8	62.2	62.2	64.7
Other	34.2	36.7	30.9	45.4	45.4	42.2
Cooling Energy Sources						
Fuel Oil	100.8	100.8	0.0	100.8	100.8	100.8
Other Excluding Fuel Oil	13.3	8.9	13.5	22.0	22.0	21.3
Buildings without Cooling	15.1	22.6	17.4	16.5	16.5	23.5
Water-Heating Energy Sources						
Fuel Oil	17.8	16.1	12.1	22.1	22.1	23.4
Other Excluding Fuel Oil	10.6	9.1	12.3	21.9	21.9	19.9
Buildings without Water Heating	24.1	31.9	28.8	30.7	30.7	31.5
Cooking Energy Sources						
Fuel Oil	53.9	49.8	23.3	74.4	74.4	74.5
Other Excluding Fuel Oil	20.5	11.2	18.7	22.3	22.3	19.4
Buildings without Cooking	13.4	10.1	13.2	19.7	19.7	17.7
Energy End Uses (more than one may apply)						
Buildings with Space Heating	12.6	8.5	12.2	17.1	17.1	16.1
Buildings with Cooling	13.3	8.8	13.5	21.8	21.8	21.1
Buildings with Water Heating	10.8	8.8	11.2	17.2	17.2	16.1
Buildings with Cooking	20.5	11.1	18.5	22.0	22.0	19.7
Buildings with Manufacturing	30.2	31.9	41.8	44.7	44.7	40.3
Buildings with Electricity Generation	12.4	9.3	13.8	18.7	18.7	19.1

RSEs for Table C33. Total Fuel Oil Consumption and Expenditures for Non-Mall Buildings, 2003

	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*	12.7	8.5	12.1	17.0	17.0	16.2
Percent of Floorspace Heated						
Not Heated	53.2	36.6	52.5	60.4	60.4	62.6
1 to 50	29.6	27.4	38.4	38.1	38.1	38.2
51 to 99	31.6	17.4	32.1	22.3	22.3	25.2
100	13.7	9.1	13.4	18.8	18.8	17.4
Heating Equipment (more than one may apply)						
Heat Pumps	15.7	17.0	18.2	40.3	40.3	39.9
Packaged Heat Pumps	27.7	24.7	21.4	49.0	49.0	51.9
Split-System Heat Pumps	59.3	35.3	37.3	59.3	59.3	58.3
Individual Room Heat Pumps	26.7	23.6	26.3	58.0	58.0	58.1
Furnaces	15.3	15.9	16.2	32.2	32.2	29.4
Individual Space Heaters	19.7	15.1	21.4	24.3	24.3	25.4
District Heat	24.2	23.7	20.8	40.0	40.0	35.9
Boilers	14.4	9.4	12.6	15.0	15.0	14.5
Packaged Heating Units	16.2	12.1	19.1	35.6	35.6	36.1
Other	27.7	20.1	30.3	40.9	40.9	40.6
Water Heating Equipment						
Centralized System	12.1	10.8	12.6	17.1	17.1	16.1
Distributed System	27.4	23.5	25.4	36.7	36.7	33.8
Combination of Centralized and Distributed System	16.1	13.3	15.7	30.6	30.6	29.3
Energy-Related Space Functions (more than one may apply)						
Commercial Food Preparation	20.5	11.1	18.5	22.0	22.0	19.7
Activities with Large Amounts of Hot Water	17.6	11.5	15.4	21.9	21.9	19.0
Separate Computer Area	11.7	10.5	12.6	17.1	17.1	15.3
HVAC Conservation Features (more than one may apply)						
Variable Air-Volume System	21.5	10.8	19.8	23.8	23.8	19.7
Economizer Cycle	13.7	10.8	13.9	20.5	20.5	20.6
HVAC Maintenance	15.0	8.9	14.1	17.9	17.9	17.2
Energy Management and Control System (EMCS)	11.9	12.5	10.5	20.9	20.9	20.1
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]						
Heating	13.7	9.8	13.8	19.7	19.7	17.6
Cooling	15.6	9.9	16.0	23.5	23.5	22.2
Lighting	13.6	10.8	13.7	21.5	21.5	19.7
Office Equipment	16.9	13.4	15.9	23.9	23.9	22.7

RSEs for Table C33. Total Fuel Oil Consumption and Expenditures for Non-Mall Buildings, 2003

	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*	12.7	8.5	12.1	17.0	17.0	16.2
Annual Consumption (gallons)						
1,000 or Less	12.9	9.0	14.9	17.0	17.0	16.2
1,001 to 5,000	22.9	17.9	18.6	27.3	27.3	26.6
5,001 to 10,000	23.6	18.7	25.6	21.2	21.2	30.8
10,001 to 25,000	33.5	18.4	26.2	35.2	35.2	31.5
Over 25,000	47.8	29.2	15.6	31.2	31.2	32.7

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

RSEs for Table C34. Fuel Oil Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Fuel Oil Consumption			RSEs for Fuel Oil Expenditures		
	per Building (gallons)	per Square Foot (gallons)	per Worker (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)
All Buildings*	12.3	14.2	16.5	11.0	13.9	4.6
Building Floorspace (Square Feet)						
1,001 to 5,000	29.7	28.9	33.3	22.2	21.8	8.0
5,001 to 10,000	37.9	40.8	28.8	32.6	35.3	5.0
10,001 to 25,000	19.1	18.3	18.6	15.8	15.2	21.9
25,001 to 50,000	17.3	17.4	21.0	18.2	18.7	6.5
50,001 to 100,000	17.2	16.6	19.3	17.6	17.0	6.2
100,001 to 200,000	21.0	20.0	27.3	24.9	23.9	10.9
200,001 to 500,000	26.0	26.3	25.6	30.4	32.0	20.3
Over 500,000	41.3	38.7	45.9	39.3	36.8	5.1
Principal Building Activity						
Education	19.1	16.2	15.5	21.5	17.9	12.2
Food Sales	9.3	49.2	115.0	10.8	41.9	6.1
Food Service	37.3	40.2	14.1	36.4	40.6	5.9
Health Care	32.1	24.3	24.7	32.0	23.0	3.5
Inpatient	41.2	25.5	25.5	40.0	24.0	3.6
Outpatient	58.7	57.0	64.3	61.2	59.2	11.1
Lodging	40.7	37.3	44.8	41.2	39.0	11.1
Retail (Other Than Mall)	42.3	58.5	54.0	32.9	51.3	10.2
Office	25.8	40.3	39.0	21.1	39.0	16.4
Public Assembly	22.2	28.7	41.5	20.1	27.7	6.3
Public Order and Safety	25.4	62.3	92.4	27.2	63.5	4.6
Religious Worship	20.1	24.5	40.7	19.9	25.6	4.8
Service	52.1	53.9	57.5	46.2	47.8	6.7
Warehouse and Storage	47.2	33.6	57.0	45.0	35.2	9.3
Other	114.3	49.6	63.0	113.8	41.9	7.4
Vacant	16.3	25.6	63.9	29.1	37.1	14.9
Year Constructed						
Before 1920	22.9	29.0	30.6	17.1	24.0	7.0
1920 to 1945	39.5	27.2	32.2	33.4	34.9	19.8
1946 to 1959	31.0	34.2	42.4	24.2	29.2	22.3
1960 to 1969	36.2	43.2	40.4	35.9	42.3	3.6
1970 to 1979	26.1	25.9	32.8	24.9	24.8	7.0
1980 to 1989	27.5	27.0	27.0	26.8	27.7	4.1
1990 to 1999	31.9	35.2	36.7	33.9	35.1	8.8
2000 to 2003	36.5	54.3	56.8	36.8	55.3	3.8
Census Region and Division						
Northeast	13.4	11.5	18.4	11.9	12.4	5.6
New England	11.7	15.7	13.5	11.9	15.7	6.1
Middle Atlantic	22.0	22.0	33.1	18.2	26.6	10.2
Midwest	40.4	42.2	46.4	34.1	36.5	6.7
East North Central	58.1	59.3	66.1	48.4	49.5	6.9
West North Central	27.0	46.8	42.3	35.9	51.5	12.0
South	25.9	36.9	38.0	24.6	36.6	2.3
South Atlantic	26.3	37.2	40.6	24.6	37.1	2.4
East South Central	25.2	11.7	16.6	29.9	12.3	8.3
West South Central	42.4	31.3	29.8	40.4	29.3	5.6
West	48.4	54.3	49.2	52.4	58.4	3.6
Mountain	58.1	115.3	83.5	61.5	120.7	2.7
Pacific	56.1	47.3	50.8	61.8	51.3	5.8

RSEs for Table C34. Fuel Oil Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Fuel Oil Consumption			RSEs for Fuel Oil Expenditures		
	per Building (gallons)	per Square Foot (gallons)	per Worker (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)
All Buildings*	12.3	14.2	16.5	11.0	13.9	4.6
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	21.4	19.2	19.3	18.9	18.0	3.5
5,500-7,000 HDD	14.1	16.4	22.1	15.6	16.1	7.8
4,000-5,499 HDD	28.5	30.8	35.4	25.5	39.2	15.7
Fewer than 4,000 HDD	35.8	33.2	37.1	37.7	35.3	3.8
2,000 CDD or More and --						
Fewer than 4,000 HDD	32.1	16.7	16.0	30.3	17.9	5.3
Number of Floors						
One	23.2	27.9	29.6	22.0	26.9	9.0
Two	22.0	27.2	26.4	16.9	23.2	6.9
Three	16.3	22.7	32.6	16.7	23.5	2.6
Four to Nine	18.5	18.9	23.6	14.0	16.1	12.3
Ten or More	43.0	44.4	43.8	44.0	44.8	28.6
Number of Workers (main shift)						
Fewer than 5	25.2	29.3	30.3	20.6	25.2	5.4
5 to 9	25.7	25.1	24.6	26.5	23.9	5.9
10 to 19	25.6	22.3	28.0	25.6	21.8	6.5
20 to 49	27.0	20.7	27.0	40.9	31.0	28.0
50 to 99	24.3	20.3	24.2	25.2	23.0	10.2
100 to 249	30.4	30.5	33.2	30.2	30.5	3.4
250 or More	23.4	25.9	25.8	26.1	28.4	18.9
Weekly Operating Hours						
Fewer than 40	16.5	21.0	29.6	16.8	23.9	6.1
40 to 48	27.6	34.0	39.5	29.8	34.5	8.5
49 to 60	23.8	22.0	27.8	20.2	21.8	6.1
61 to 84	24.1	32.2	36.0	21.3	29.5	6.9
85 to 167	37.7	29.1	41.6	31.6	29.3	12.0
Open Continuously	20.1	20.4	23.7	20.5	19.7	8.4
Ownership and Occupancy						
Nongovernment Owned	14.4	16.9	19.1	12.1	15.5	5.6
Owner Occupied	13.6	16.6	20.9	12.6	15.9	6.1
Nonowner Occupied	27.5	32.0	35.1	23.4	28.9	7.7
Unoccupied	0.0	0.0	0.0	0.0	0.0	0.0
Government Owned	16.2	20.4	19.1	17.6	22.1	8.5
Federal	41.2	52.0	56.0	39.7	54.0	5.0
State	31.8	44.8	40.8	33.6	47.8	3.3
Local	25.0	19.6	23.8	23.7	17.1	14.0
Vacancy Status						
Completely Vacant	2.9	8.1	0.0	2.8	7.9	0.2
Mostly Vacant	0.0	0.0	0.0	0.0	0.0	0.0
Partially Vacant	29.8	25.5	28.1	37.6	34.1	24.2
Not At All Vacant	13.1	15.2	15.3	11.7	14.6	3.9
Number of Establishments						
One	14.3	19.2	18.8	12.6	18.1	5.0
2 to 5	21.9	19.5	25.2	18.4	18.7	9.7
6 to 10	52.8	50.3	48.2	55.1	56.2	35.5
11 to 20	71.1	49.3	81.5	68.7	47.4	2.4
More than 20	61.9	63.7	63.8	50.7	53.0	33.7
Currently Unoccupied	2.9	8.1	0.0	2.8	7.9	0.2

RSEs for Table C34. Fuel Oil Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Fuel Oil Consumption			RSEs for Fuel Oil Expenditures		
	per Building (gallons)	per Square Foot (gallons)	per Worker (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)
All Buildings*	12.3	14.2	16.5	11.0	13.9	4.6
Predominant Exterior Wall Material						
Brick, Stone or Stucco	12.4	12.4	15.2	11.0	14.3	8.0
Concrete (Block or Poured)	22.6	27.5	33.0	25.2	29.3	5.4
Concrete Panels	72.0	70.6	72.9	65.5	64.8	5.8
Siding or Shingles	31.3	32.2	26.8	25.0	26.2	6.2
Metal Panels	21.6	31.4	36.1	24.8	33.3	5.5
Window Glass	39.7	33.9	39.4	39.3	36.4	10.9
Other	78.1	84.7	89.7	98.8	85.6	447.0
No One Major Type	56.6	60.8	27.1	56.3	55.1	6.2
Predominant Roof Material						
Built-Up	21.7	19.8	24.3	20.3	21.9	10.1
Shingles (Not Wood)	20.3	24.3	21.4	18.2	21.8	8.8
Metal Surfacing	36.5	41.5	50.0	29.6	35.6	7.5
Synthetic or Rubber	19.5	15.7	18.3	20.1	17.3	7.4
Slate or Tile	30.6	35.4	47.5	29.8	35.0	7.2
Wooden Materials	48.6	54.3	58.6	41.1	47.3	17.5
Concrete	18.2	39.0	42.9	52.2	51.3	45.3
Other	54.7	54.6	110.3	54.8	54.7	0.1
No One Major Type	13.3	51.6	46.5	12.5	52.5	6.7
Renovations in Buildings Constructed Before 1980 (more than one may apply)						
Any Type of Renovation Since 1980	17.5	18.7	24.4	19.1	19.7	7.8
Addition or Annex	35.2	40.2	55.2	35.4	40.0	2.3
Reduction In Floorspace	45.6	57.3	56.7	55.2	73.9	63.4
Cosmetic Improvements	16.4	19.6	22.1	17.3	19.1	10.7
Wall or Roof Replacement	19.4	16.9	21.4	21.9	19.2	17.4
Interior Wall Re-Configuration	19.2	15.9	20.4	20.2	17.0	2.6
HVAC Equipment Upgrade	14.4	17.0	21.5	13.6	18.2	3.1
Lighting Upgrade	13.8	15.8	20.0	18.6	17.0	14.8
Window Replacement	22.1	26.5	32.6	26.3	27.4	21.2
Plumbing System Upgrade	23.6	24.6	29.0	27.5	22.6	18.9
Insulation Upgrade	22.5	34.3	35.1	19.7	30.9	4.2
Other Renovation	73.4	50.6	58.4	83.2	53.6	8.3
No Renovations Since 1980	14.0	17.5	27.2	15.0	18.1	2.3
Building Newer than 1980	20.6	27.7	29.6	20.9	27.5	4.9
Energy Sources (more than one may apply)						
Electricity	14.1	17.0	17.8	12.2	16.0	4.1
Natural Gas	16.6	14.9	16.9	15.5	16.7	6.6
Fuel Oil	12.3	14.2	16.5	11.0	13.9	4.6
District Heat	35.5	46.0	48.3	30.7	41.2	10.1
District Chilled Water	33.4	40.7	47.1	30.4	38.3	7.8
Propane	20.0	21.2	27.6	20.3	21.0	6.6
Other	54.8	43.8	37.3	49.9	39.4	5.3
Space-Heating Energy Sources						
Fuel Oil	13.5	9.2	10.3	12.3	9.0	4.7
Fuel Oil Main	13.3	8.0	10.2	12.2	8.3	5.0
Fuel Oil Secondary	19.1	17.2	17.4	20.4	19.0	7.9
Other Excluding Fuel Oil	21.9	26.2	25.6	25.4	31.1	8.5
Buildings without Heating	69.9	55.9	54.2	76.4	59.3	4.7

RSEs for Table C34. Fuel Oil Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Fuel Oil Consumption			RSEs for Fuel Oil Expenditures		
	per Building (gallons)	per Square Foot (gallons)	per Worker (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)
All Buildings*	12.3	14.2	16.5	11.0	13.9	4.6
Primary Space-Heating Energy Source						
Electricity	30.3	38.0	39.6	26.6	35.1	6.2
Natural Gas	17.5	19.9	19.9	19.0	24.1	10.7
Fuel Oil	13.3	8.0	10.2	12.2	8.3	5.0
District Heat	29.9	42.0	43.7	26.7	38.4	9.1
Propane	57.5	68.8	63.3	60.1	70.7	3.3
Other	40.4	34.5	29.3	35.2	30.0	13.6
Cooling Energy Sources						
Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0
Other Excluding Fuel Oil	16.6	20.3	21.2	15.4	20.0	4.6
Buildings without Cooling	14.0	21.9	21.4	21.6	28.4	11.1
Water-Heating Energy Sources						
Fuel Oil	15.6	14.6	12.8	17.4	16.8	6.8
Other Excluding Fuel Oil	16.8	20.2	22.2	14.3	18.7	5.1
Buildings without Water Heating	26.5	47.9	174.9	27.8	45.5	5.9
Cooking Energy Sources						
Fuel Oil	28.0	41.2	98.0	28.3	41.1	0.8
Other Excluding Fuel Oil	15.7	20.6	22.2	13.0	18.7	8.8
Buildings without Cooking	19.8	16.0	20.1	17.5	14.5	4.6
Energy End Uses (more than one may apply)						
Buildings with Space Heating	12.9	14.3	16.9	11.6	13.8	4.6
Buildings with Cooling	16.4	20.2	21.1	15.3	19.8	4.6
Buildings with Water Heating	13.2	14.6	16.5	11.9	14.0	4.8
Buildings with Cooking	15.3	20.2	21.6	13.3	18.8	8.4
Buildings with Manufacturing	46.1	31.2	53.7	39.2	33.7	10.4
Buildings with Electricity Generation	17.1	19.4	20.8	17.6	19.9	4.3
Percent of Floorspace Heated						
Not Heated	69.9	55.9	54.2	76.4	59.3	4.7
1 to 50	38.6	29.1	41.4	36.5	32.0	6.6
51 to 99	31.7	24.9	27.2	27.8	27.6	20.4
100	15.1	17.5	18.9	14.2	16.5	4.5
Heating Equipment (more than one may apply)						
Heat Pumps	37.6	38.5	38.5	37.0	38.3	4.2
Packaged Heat Pumps	51.5	50.5	47.9	54.1	53.2	5.8
Split-System Heat Pumps	53.3	55.3	62.2	45.6	51.7	7.4
Individual Room Heat Pumps	52.4	54.2	56.5	51.9	54.6	4.5
Furnaces	27.8	23.5	35.8	24.7	21.4	3.8
Individual Space Heaters	20.1	23.3	26.0	21.0	24.2	3.2
District Heat	27.7	41.2	44.8	25.1	37.7	8.0
Boilers	10.7	13.3	14.8	9.7	13.9	6.9
Packaged Heating Units	36.7	35.1	35.3	36.9	35.5	4.2
Other	44.3	42.4	42.1	41.8	42.0	10.7

RSEs for Table C34. Fuel Oil Consumption and Expenditure Intensities for Non-Mall Buildings, 2003

	RSEs for Fuel Oil Consumption			RSEs for Fuel Oil Expenditures		
	per Building (gallons)	per Square Foot (gallons)	per Worker (gallons)	per Building (thousand dollars)	per Square Foot (dollars)	per Gallon (dollars)
All Buildings*	12.3	14.2	16.5	11.0	13.9	4.6
Water Heating Equipment						
Centralized System	13.7	14.9	15.6	11.8	14.6	6.0
Distributed System	28.0	24.1	40.7	24.2	24.1	6.3
Combination of Centralized and Distributed System	32.2	32.6	33.8	30.6	31.0	4.9
Energy-Related Space Functions (more than one may apply)						
Commercial Food Preparation	15.3	20.2	21.6	13.3	18.8	8.4
Activities with Large Amounts of Hot Water	14.6	20.0	22.3	11.2	18.6	10.1
Separate Computer Area	13.3	17.4	18.4	12.4	17.1	9.5
HVAC Conservation Features (more than one may apply)						
Variable Air-Volume System	22.4	22.7	24.3	16.3	21.1	14.4
Economizer Cycle	15.9	19.7	20.3	14.7	19.9	5.7
HVAC Maintenance	11.4	15.1	17.6	10.6	15.2	5.3
Energy Management and Control System (EMCS)	19.7	22.3	23.6	18.9	21.5	4.9
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]						
Heating	17.0	19.3	20.8	14.9	17.5	4.5
Cooling	19.3	22.8	24.0	17.6	21.9	4.7
Lighting	17.6	17.5	20.8	15.3	16.3	5.8
Office Equipment	19.3	22.9	23.6	16.1	22.1	7.5
Annual Consumption (gallons)						
1,000 or Less	9.3	18.1	19.6	9.8	17.7	5.2
1,001 to 5,000	9.9	22.8	28.1	9.3	22.6	3.3
5,001 to 10,000	7.5	25.1	29.3	15.5	35.8	23.9
10,001 to 25,000	3.8	32.6	38.9	10.3	28.9	9.5
Over 25,000	13.4	6.6	18.1	13.2	10.1	7.2

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

RSEs for Table C35. Fuel Oil Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	21.1	47.0	40.4	44.5	16.5	12.9	18.2	15.8	11.5	42.2	36.9	54.3
Building Floorspace (Square Feet)												
1,001 to 10,000	32.8	72.4	54.2	65.9	22.9	47.9	30.7	67.7	24.2	83.4	27.2	45.7
10,001 to 100,000	21.0	44.9	64.3	68.9	22.4	24.5	18.7	18.0	10.6	44.2	52.4	52.5
Over 100,000	25.4	27.5	33.0	64.0	22.2	14.5	22.9	19.8	18.9	29.7	31.9	62.5
Principal Building Activity												
Education	28.6	75.0	67.7	86.6	24.5	36.5	39.6	70.0	12.0	73.6	33.3	188.9
Health Care	55.5	59.2	25.8	40.0	27.6	23.1	26.5	19.0	53.2	57.4	32.6	44.6
Office	42.8	45.8	27.0	47.1	22.5	19.2	38.6	39.4	45.6	45.2	36.2	21.7
All Others	24.1	57.5	49.9	45.2	20.2	17.9	20.2	27.3	11.4	52.5	48.2	65.4
Year Constructed												
1945 or Before	22.6	83.3	80.7	77.1	23.8	33.2	52.6	20.3	20.4	75.1	78.7	79.9
1946 to 1959	42.7	80.3	35.3	69.7	35.3	38.1	25.0	45.5	48.9	75.8	53.6	63.8
1960 to 1969	71.4	58.1	74.4	76.5	39.1	28.3	24.7	32.1	37.3	60.7	56.3	66.1
1970 to 1979	33.1	60.7	24.5	39.0	28.1	29.4	27.3	42.9	22.8	61.5	37.3	55.2
1980 to 1989	34.4	72.8	51.3	39.4	33.2	31.5	29.4	24.0	38.5	74.8	51.1	48.0
1990 to 2003	53.0	34.9	58.1	49.6	27.3	19.9	23.6	30.2	46.2	38.4	51.3	56.9
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	42.9	56.8	0.0	63.3	40.0	27.7	0.0	38.0	12.4	40.6	0.0	76.4
5,500-7,000 HDD	24.9	16.4	0.0	67.5	24.3	14.4	0.0	46.5	11.0	27.1	0.0	144.7
4,000-5,499 HDD	51.4	79.4	65.1	95.0	36.6	21.1	42.9	35.6	32.1	69.7	52.6	66.7
Fewer than 4,000 HDD	0.0	0.0	31.2	78.8	0.0	0.0	14.2	23.3	0.0	0.0	23.7	77.7
2,000 CDD or More and --												
Fewer than 4,000 HDD	0.0	0.0	29.3	65.1	0.0	0.0	32.3	63.2	0.0	0.0	17.5	53.1
Number of Floors												
One	40.5	41.7	74.2	86.6	29.7	20.6	30.2	29.8	34.9	35.8	54.0	70.0
Two	26.1	76.8	67.1	40.2	24.1	30.2	22.4	42.6	13.5	84.7	84.9	44.3
Three	20.3	69.1	46.3	78.0	32.9	29.3	46.3	58.7	24.4	47.2	79.9	63.2
Four to Nine	38.6	56.5	44.2	61.9	34.2	18.2	19.6	27.1	15.7	57.6	36.7	58.7
Ten or More	50.1	19.3	40.4	38.0	32.1	31.7	36.7	34.1	65.8	36.6	31.4	21.0
Number of Workers (main shift)												
Less than 10	31.8	65.1	49.7	73.9	26.0	40.5	35.1	58.3	25.6	79.5	33.5	91.3
10 to 99	16.6	43.8	63.3	58.4	24.2	22.9	20.6	17.3	14.8	48.1	79.4	58.4
100 or More	29.0	39.5	30.0	64.8	22.9	15.6	25.4	19.6	29.8	38.4	28.7	63.9
Weekly Operating Hours												
48 or fewer	37.0	58.2	55.1	75.7	20.8	24.0	38.6	40.1	23.8	64.7	45.0	48.6
49 to 84	20.7	67.6	51.0	24.8	22.7	23.3	26.0	34.1	16.8	68.8	53.4	44.6
85 to 168	26.3	26.7	38.1	45.9	26.4	13.4	18.2	19.1	18.1	31.4	31.1	55.9
Ownership and Occupancy												
Nongovernment Owned	22.1	55.5	28.1	48.0	18.6	15.7	18.9	19.4	12.9	61.5	28.2	47.4
Owner Occupied	25.2	30.3	34.5	28.8	23.2	15.5	25.1	23.2	14.1	32.9	32.2	31.6
Nonowner Occupied	30.1	74.9	42.0	72.0	20.4	23.2	21.3	32.9	34.5	78.8	42.5	76.3
Unoccupied	93.8	0.0	0.0	0.0	93.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Government Owned	25.0	48.0	64.4	78.2	18.0	25.8	28.6	35.5	22.1	49.8	54.6	62.2
Federal	64.0	100.2	54.9	93.1	54.7	89.0	81.1	62.1	16.8	99.9	50.8	26.1
State	44.1	88.3	67.9	99.2	35.6	53.2	47.2	56.8	71.1	94.9	35.3	127.0
Local	22.3	65.0	56.8	94.3	18.0	24.2	41.7	43.1	21.4	58.3	61.1	95.6

RSEs for Table C35. Fuel Oil Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	21.1	47.0	40.4	44.5	16.5	12.9	18.2	15.8	11.5	42.2	36.9	54.3
Vacancy Status												
Completely Vacant	99.0	0.0	0.0	0.0	94.5	0.0	0.0	0.0	8.1	0.0	0.0	0.0
Mostly Vacant	100.1	0.0	0.0	0.0	100.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Partially Vacant	27.4	78.5	44.5	65.6	27.9	18.6	33.0	38.0	26.7	79.2	44.3	78.4
Not At All Vacant	21.9	47.7	41.0	47.3	16.2	15.2	15.8	17.5	16.5	39.6	33.9	61.0
Number of Establishments												
One	26.0	51.4	48.6	60.5	18.4	12.9	19.2	20.0	17.4	49.7	46.9	80.8
2 to 5	26.2	74.5	33.3	79.8	27.0	29.6	13.4	37.9	30.8	69.1	25.4	63.3
6 to 10	63.6	82.7	55.8	100.4	48.3	44.3	40.5	52.3	69.6	88.0	18.2	116.1
11 to 20	98.3	52.4	96.5	65.1	55.4	41.9	47.7	53.3	39.7	44.5	73.1	30.9
More than 20	81.7	70.9	82.5	52.7	47.3	33.5	39.3	45.2	86.6	69.6	83.0	25.1
Currently Unoccupied	99.0	0.0	0.0	0.0	94.5	0.0	0.0	0.0	8.1	0.0	0.0	0.0
Predominant Exterior Wall Material												
Brick, Stone or Stucco	18.3	35.6	40.8	59.6	22.6	15.2	21.1	25.1	15.6	36.5	36.1	51.9
Concrete (Block or Poured)	45.9	42.3	59.0	53.2	31.7	26.0	19.9	33.6	41.0	46.4	57.8	53.0
Concrete Panels	93.6	49.0	45.3	60.2	45.9	29.6	35.4	48.4	92.8	58.0	45.9	73.0
Siding or Shingles	49.4	89.2	73.6	100.3	23.0	40.9	58.7	100.2	33.4	61.6	85.3	.
Metal Panels	37.4	76.7	58.8	69.9	52.1	46.7	44.1	28.4	47.5	77.6	128.9	60.4
Window Glass	42.9	63.4	92.9	71.6	29.8	49.7	59.9	59.9	38.9	73.0	37.6	60.2
Other	85.9	56.8	90.0	74.3	51.2	50.3	90.0	83.0	84.0	23.8	0.0	60.9
No One Major Type	0.0	97.2	X	95.2	0.0	44.6	X	71.3	0.0	46.3	X	64.4
Predominant Roof Material												
Built-Up	25.3	34.3	45.5	66.4	21.4	19.6	24.9	21.4	25.9	36.5	42.0	97.3
Shingles (Not Wood)	27.9	43.0	63.4	71.1	18.8	26.5	45.3	46.6	22.8	49.1	58.7	71.4
Metal Surfacing	46.0	83.3	56.3	76.3	46.4	41.1	28.1	41.2	39.4	81.7	73.9	54.1
Synthetic or Rubber	25.6	47.8	55.4	54.5	26.8	14.5	18.8	28.3	12.3	44.7	51.2	59.4
Slate or Tile	53.0	78.5	32.1	100.4	57.9	53.6	68.1	69.2	16.4	85.2	45.7	101.8
Wooden Materials	68.2	101.1	30.2	0.0	67.4	101.1	29.6	0.0	11.3	.	16.1	0.0
Concrete	X	98.6	80.0	57.9	100.2	98.6	76.6	43.4	X	0.0	5.6	39.2
Other	100.9	101.0	100.2	100.3	100.9	73.3	100.2	100.3	0.0	78.8	.	.
No One Major Type	70.8	77.2	98.6	X	60.9	84.0	98.6	X	29.6	14.1	0.0	X
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation Since 1980	29.4	64.0	38.8	48.1	22.4	16.3	21.8	28.7	14.0	65.7	37.7	48.1
Addition or Annex	71.3	52.6	40.6	75.6	59.0	24.4	26.6	34.6	13.3	47.7	40.3	96.8
Reduction In Floorspace	57.3	64.5	73.7	87.4	51.6	68.9	75.2	71.0	40.6	21.2	71.6	73.0
Cosmetic Improvements	18.5	78.3	42.1	63.6	22.4	18.9	24.3	30.3	13.5	85.0	36.6	55.6
Wall or Roof Replacement	17.5	42.9	28.0	53.4	23.5	22.0	32.7	40.6	18.5	44.9	39.0	66.3
Interior Wall Re-Configuration	15.0	62.4	50.0	68.3	20.7	19.6	31.9	30.5	18.8	62.4	45.3	67.9
HVAC Equipment Upgrade	21.5	51.3	41.4	54.8	22.2	23.4	23.0	28.4	19.6	54.6	37.3	53.1
Lighting Upgrade	19.2	58.8	46.7	54.8	19.3	23.3	34.7	28.6	9.4	60.1	49.4	53.0
Window Replacement	35.8	21.9	83.3	93.0	27.8	12.8	36.3	38.4	28.8	22.3	56.1	89.3
Plumbing System Upgrade	29.1	60.8	29.7	44.5	27.4	28.7	37.7	38.1	24.9	65.4	40.6	56.5
Insulation Upgrade	42.7	52.5	58.2	78.1	26.0	31.8	53.1	47.0	23.1	48.5	57.0	77.2
Other Renovation	86.5	101.8	100.3	75.0	88.4	101.8	100.3	64.7	583.5	0.0	.	31.7
No Renovations Since 1980	22.6	61.7	57.6	86.3	18.8	28.1	34.4	43.5	18.2	57.9	60.8	94.3
Building Newer than 1980	40.0	33.7	45.5	35.8	24.8	21.0	21.7	20.5	34.6	35.5	42.7	41.8

RSEs for Table C35. Fuel Oil Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	21.1	47.0	40.4	44.5	16.5	12.9	18.2	15.8	11.5	42.2	36.9	54.3
Energy Sources (more than one may apply)												
Electricity	23.8	49.2	40.9	35.2	17.9	12.8	19.9	18.3	18.4	42.1	35.3	43.7
Natural Gas	20.1	23.3	27.3	53.4	16.2	13.7	24.6	19.7	12.5	28.8	25.3	51.1
Fuel Oil	21.1	47.0	40.4	44.5	16.5	12.9	18.2	15.8	11.5	42.2	36.9	54.3
District Heat	73.3	92.6	31.0	93.3	36.5	44.7	45.6	68.1	58.4	97.5	53.7	203.4
District Chilled Water	71.0	93.2	43.1	95.7	42.5	48.3	51.4	70.9	64.7	98.8	58.2	104.7
Propane	39.2	68.8	86.6	78.2	35.8	34.2	41.7	29.5	9.7	80.5	106.6	70.2
Other	71.5	60.0	33.2	80.6	52.2	36.1	36.3	55.9	24.1	43.3	43.3	70.4
Space-Heating Energy Sources												
Fuel Oil	21.2	49.3	41.9	57.1	20.8	23.4	24.2	16.2	6.1	52.2	29.2	39.9
Fuel Oil Main	22.1	60.8	45.5	73.4	24.0	28.3	40.9	55.6	5.3	68.6	6.9	30.9
Fuel Oil Secondary	36.7	39.8	38.3	34.6	21.0	26.5	24.6	20.0	25.5	29.3	32.5	28.9
Other Excluding Fuel Oil	63.1	49.4	41.6	31.2	22.2	15.4	20.9	18.2	59.5	47.2	43.3	34.6
Buildings without Heating	77.5	0.0	46.3	96.9	79.0	0.0	26.0	73.3	265.3	0.0	56.1	65.5
Primary Space-Heating Energy Source												
Electricity	52.2	78.0	27.1	53.6	29.1	26.7	27.1	25.0	58.2	73.9	31.2	45.7
Natural Gas	38.2	24.2	40.8	54.1	23.7	17.1	22.3	22.6	35.7	29.4	30.9	47.2
Fuel Oil	22.1	60.8	45.5	73.4	24.0	28.3	40.9	55.6	5.3	68.6	6.9	30.9
District Heat	67.2	88.0	33.9	94.7	38.0	45.5	47.1	51.9	59.4	92.7	56.5	122.6
Propane	96.5	97.7	85.5	80.4	76.3	98.0	65.8	81.0	246.7	3.3	27.3	0.9
Other	100.1	68.5	41.3	97.0	100.1	64.5	61.5	76.3	0.0	8.0	86.1	97.3
Cooling Energy Sources												
Fuel Oil	100.8	0.0	0.0	0.0	100.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Excluding Fuel Oil	28.8	48.7	40.7	41.0	17.9	12.5	18.5	16.8	22.5	43.8	37.5	41.0
Buildings without Cooling	16.4	67.3	61.5	85.4	26.7	52.8	60.0	51.9	24.0	38.9	78.4	46.2
Water-Heating Energy Sources												
Fuel Oil	24.6	61.0	68.0	64.2	18.6	42.2	52.1	65.9	14.9	56.2	16.9	15.0
Other Excluding Fuel Oil	28.1	58.8	29.4	26.8	18.5	12.9	19.4	17.1	20.4	53.5	29.1	27.4
Buildings without Water Heating	39.2	53.3	73.9	91.0	50.6	51.0	55.4	62.8	100.1	26.6	71.2	39.7
Cooking Energy Sources												
Fuel Oil	77.9	99.9	99.2	100.3	79.1	99.9	70.5	100.3	2.5	0.0	139.1	.
Other Excluding Fuel Oil	28.2	40.1	45.1	63.5	19.5	15.0	24.4	23.2	21.3	40.8	39.9	61.9
Buildings without Cooking	23.2	61.8	40.3	63.2	20.3	20.7	14.9	17.7	14.2	56.4	40.9	62.0
Energy End Uses (more than one may apply)												
Buildings with Space Heating	21.1	47.0	40.5	50.9	16.2	12.9	18.6	16.1	11.3	42.2	37.0	62.7
Buildings with Cooling	28.4	48.7	40.7	41.0	17.8	12.5	18.5	16.8	22.2	43.8	37.5	41.0
Buildings with Water Heating	20.8	51.0	40.9	34.1	17.0	12.4	18.8	16.5	11.7	46.4	38.2	40.8
Buildings with Cooking	27.5	40.0	44.2	63.5	19.3	15.1	24.1	22.7	20.5	40.7	39.5	61.8
Buildings with Manufacturing	45.2	100.7	58.4	94.3	42.3	65.0	52.5	79.9	29.9	77.8	84.0	26.3
Buildings with Electricity Generation	24.8	55.7	27.7	31.8	16.8	15.0	18.6	18.0	25.8	55.2	30.7	28.8

RSEs for Table C35. Fuel Oil Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	21.1	47.0	40.4	44.5	16.5	12.9	18.2	15.8	11.5	42.2	36.9	54.3
Percent of Floorspace Heated												
Not Heated	77.5	0.0	46.3	96.9	79.0	0.0	26.0	73.3	265.3	0.0	56.1	65.5
1 to 50	42.6	60.5	81.3	55.6	45.6	56.5	67.6	42.4	26.1	14.9	84.2	66.1
51 to 99	27.4	94.2	18.0	90.1	21.0	30.4	43.3	21.4	27.8	97.5	26.2	92.2
100	23.1	52.7	49.9	58.6	16.3	14.4	19.8	21.3	19.8	45.4	43.3	82.7
Heating Equipment (more than one may apply)												
Heat Pumps	59.9	26.8	30.2	86.5	36.2	25.1	26.0	36.1	36.7	32.6	45.9	94.1
Packaged Heat Pumps	100.0	27.1	49.6	45.8	60.3	27.3	46.0	41.7	102.5	34.0	52.5	21.3
Split-System Heat Pumps	X	91.0	81.5	75.2	X	52.8	48.3	49.1	X	71.0	58.8	51.4
Individual Room Heat Pumps	72.6	90.8	37.8	97.7	39.1	60.4	39.4	47.9	64.4	82.6	20.3	103.5
Furnaces	36.9	46.1	56.7	31.9	30.4	16.3	32.2	47.0	13.6	46.6	81.7	38.4
Individual Space Heaters	31.2	54.1	37.0	41.0	30.0	21.5	31.4	32.1	30.4	52.6	33.9	25.1
District Heat	73.8	88.0	31.6	93.3	37.9	45.5	47.0	68.1	58.6	92.7	54.9	203.4
Boilers	16.8	60.9	42.4	56.9	17.8	16.3	20.6	18.3	9.7	65.6	28.3	71.4
Packaged Heating Units	48.1	31.3	54.9	59.3	28.1	18.6	23.2	15.9	44.4	33.2	55.8	60.2
Other	62.3	60.2	49.7	89.9	29.9	35.0	34.0	63.9	49.3	52.7	62.1	169.1
Water Heating Equipment												
Centralized System	19.4	62.5	55.1	52.4	19.4	14.2	23.0	22.6	15.2	51.7	52.0	50.6
Distributed System	45.0	59.0	55.7	70.3	43.3	47.1	35.3	42.7	23.1	68.0	36.2	77.5
Combination of Centralized and Distributed System	44.3	52.7	25.2	21.9	27.6	20.4	20.4	29.6	48.5	54.9	29.1	35.0
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	27.5	40.0	44.2	63.5	19.3	15.1	24.1	22.7	20.5	40.7	39.5	61.8
Activities with Large Amounts of Hot Water	28.7	33.7	48.8	50.0	23.9	17.0	23.1	23.9	19.7	36.9	43.9	64.9
Separate Computer Area	22.2	39.4	38.3	46.1	19.2	15.0	24.2	19.0	20.8	39.1	37.6	56.2
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	34.2	41.4	32.1	38.3	22.7	14.2	24.2	20.2	29.3	42.6	34.0	43.6
Economizer Cycle	25.9	38.6	35.1	32.1	20.5	15.9	24.8	19.2	22.4	39.1	30.1	36.0
HVAC Maintenance	21.6	38.2	41.1	46.3	16.9	12.7	19.6	15.9	12.0	38.2	38.1	56.5
Energy Management and Control System (EMCS)	28.0	25.0	37.5	76.4	21.5	15.5	27.8	28.1	30.6	22.1	34.0	78.8
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]												
Heating	24.3	28.2	43.2	57.6	14.6	11.1	24.2	23.0	19.0	29.6	41.5	74.9
Cooling	28.4	30.3	43.5	62.0	16.2	13.8	23.3	18.4	23.4	30.9	41.8	61.3
Lighting	26.2	57.8	51.6	64.3	19.6	16.6	22.8	28.4	11.3	54.0	50.5	68.6
Office Equipment	25.6	84.4	86.4	83.5	19.6	29.2	28.8	45.1	22.8	91.1	61.7	98.9

RSEs for Table C35. Fuel Oil Consumption and Conditional Energy Intensity by Census Region for Non-Mall Buildings, 2003

	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*	21.1	47.0	40.4	44.5	16.5	12.9	18.2	15.8	11.5	42.2	36.9	54.3
Annual Consumption (gallons)												
1,000 or Less	24.2	46.4	35.5	20.8	18.2	14.6	17.7	17.3	24.8	44.9	40.3	29.1
1,001 to 5,000	31.5	52.8	78.0	66.4	27.7	29.1	43.7	48.8	19.9	43.6	66.2	104.4
5,001 to 10,000	24.0	13.6	56.3	93.5	19.7	39.2	38.6	77.7	28.4	21.9	47.0	29.8
10,001 to 25,000	27.9	81.3	36.2	69.2	27.6	37.1	39.8	33.9	21.5	70.6	19.9	50.9
Over 25,000	37.9	60.3	41.5	56.0	40.7	30.6	35.6	48.6	5.3	48.3	20.6	20.9

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

RSEs for Table C36. Fuel Oil Expenditures by Census Region for Non-Mall Buildings, 2003

	RSEs for Total Fuel Oil Expenditures				RSEs for Fuel Oil Expenditures							
					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*	20.4	41.3	39.7	48.3	5.6	6.7	2.3	3.6	12.4	36.5	36.6	58.4
Building Floorspace (Square Feet)												
1,001 to 10,000	28.8	64.8	50.7	64.6	5.1	5.8	6.2	5.9	19.3	75.1	23.6	47.7
10,001 to 100,000	19.2	49.1	63.3	72.6	9.6	14.2	17.7	3.6	8.3	45.4	53.6	55.6
Over 100,000	24.7	24.3	31.1	68.3	15.8	7.8	9.0	4.9	24.3	26.4	31.4	67.0
Principal Building Activity												
Education	27.4	72.7	70.5	88.1	14.5	10.9	15.7	2.0	17.6	70.5	31.0	194.2
Health Care	54.0	52.9	25.5	40.3	4.1	16.1	6.3	9.7	51.0	50.5	32.3	43.9
Office	43.9	49.0	27.5	60.5	18.7	13.8	2.7	27.2	42.6	47.2	37.8	42.0
All Others	22.4	52.0	47.2	47.9	3.7	6.5	11.3	3.9	11.2	46.7	44.7	68.0
Year Constructed												
1945 or Before	24.1	78.5	79.7	73.4	9.8	3.5	7.9	15.3	23.5	71.0	77.5	77.0
1946 to 1959	37.5	77.9	31.5	73.5	30.3	14.9	9.3	8.3	43.1	72.0	58.4	65.2
1960 to 1969	71.7	57.1	75.9	81.0	1.6	4.6	7.0	2.8	37.7	59.9	58.2	70.0
1970 to 1979	32.5	53.8	26.1	41.1	8.6	18.9	4.2	17.9	24.2	54.2	38.3	44.1
1980 to 1989	35.3	59.3	50.1	37.7	3.9	55.1	16.0	5.0	38.3	58.1	52.0	46.0
1990 to 2003	53.4	34.1	56.9	50.9	7.5	28.3	3.2	5.1	46.6	42.2	50.3	58.6
Climate Zone: 30-Year Average												
Under 2,000 CDD and --												
More than 7,000 HDD	40.3	51.7	0.0	66.0	3.1	6.7	0.0	7.2	12.5	36.0	0.0	79.3
5,500-7,000 HDD	22.5	15.5	0.0	73.1	8.7	8.6	0.0	5.8	9.7	24.5	0.0	155.1
4,000-5,499 HDD	60.0	61.5	64.8	97.2	20.8	67.0	1.9	2.0	47.1	66.7	52.3	68.9
Fewer than 4,000 HDD	0.0	0.0	32.5	78.8	0.0	0.0	5.0	1.7	0.0	0.0	24.9	77.6
2,000 CDD or More and --												
Fewer than 4,000 HDD	0.0	0.0	25.9	65.9	0.0	0.0	5.5	14.3	0.0	0.0	19.1	44.4
Number of Floors												
One	39.5	40.0	70.6	86.5	11.9	3.7	3.5	0.6	35.2	34.0	51.1	69.7
Two	24.3	72.4	59.5	42.9	6.0	6.4	13.9	4.9	13.4	80.2	75.0	46.9
Three	21.0	78.1	52.5	73.3	2.7	9.5	5.9	26.3	25.3	55.1	86.1	53.8
Four to Nine	28.6	52.7	45.1	66.5	16.6	8.3	3.8	8.6	15.0	53.4	38.1	62.3
Ten or More	58.6	19.9	38.9	46.1	41.9	4.2	9.8	18.7	69.2	35.3	31.7	24.5
Number of Workers (main shift)												
Less than 10	28.1	56.0	48.5	75.1	4.8	7.1	10.2	1.9	21.7	68.4	35.5	94.1
10 to 99	20.1	51.7	64.7	63.2	12.1	18.7	10.8	5.1	21.0	54.0	82.4	62.8
100 or More	29.7	34.8	30.1	68.6	13.1	9.6	6.1	4.6	33.1	33.5	29.9	67.9
Weekly Operating Hours												
48 or fewer	36.0	55.3	48.4	77.8	7.8	20.4	12.2	2.1	23.9	63.3	41.0	50.4
49 to 84	22.5	61.6	51.2	15.4	5.6	6.3	2.4	14.4	20.0	62.3	53.4	38.7
85 to 168	24.4	26.3	40.8	49.1	9.9	12.5	6.7	3.0	18.6	29.1	34.4	59.6
Ownership and Occupancy												
Nongovernment Owned	21.3	49.4	28.5	51.4	6.7	6.8	5.6	3.7	14.3	54.3	27.9	51.0
Owner Occupied	24.4	26.7	37.3	26.2	7.1	13.9	8.7	5.9	14.6	26.6	34.9	29.3
Nonowner Occupied	32.2	69.8	43.6	73.6	6.2	6.2	2.8	2.3	37.0	72.9	44.5	77.6
Unoccupied	93.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Government Owned	25.8	49.4	66.9	81.4	9.8	3.0	13.4	4.9	25.7	50.9	55.2	66.7
Federal	61.7	100.2	55.7	93.2	12.8	48.5	6.9	0.1	16.2	99.7	46.3	26.1
State	48.4	88.3	70.7	98.5	3.3	2.8	14.5	74.7	75.8	94.1	29.8	125.9
Local	15.3	65.7	58.4	90.9	15.2	3.7	9.9	56.0	21.8	59.2	62.5	90.5

RSEs for Table C36. Fuel Oil Expenditures by Census Region for Non-Mall Buildings, 2003

	RSEs for Total Fuel Oil Expenditures				RSEs for Fuel Oil Expenditures							
					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*	20.4	41.3	39.7	48.3	5.6	6.7	2.3	3.6	12.4	36.5	36.6	58.4
Vacancy Status												
Completely Vacant	98.9	0.0	0.0	0.0	0.2	0.0	0.0	0.0	7.9	0.0	0.0	0.0
Mostly Vacant	100.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Partially Vacant	38.7	78.0	41.6	68.3	27.1	5.1	17.3	7.6	35.4	79.1	40.0	78.7
Not At All Vacant	20.5	41.6	40.7	51.2	4.5	6.6	2.1	3.7	16.5	33.8	34.0	65.6
Number of Establishments												
One	24.4	45.0	47.9	65.2	6.0	7.4	3.6	3.1	16.3	42.7	46.5	86.0
2 to 5	23.5	67.7	34.0	81.4	12.2	27.2	6.2	1.9	30.6	60.3	26.9	64.8
6 to 10	76.4	85.4	77.0	100.2	44.6	5.1	44.7	73.5	78.3	94.7	52.1	115.7
11 to 20	97.5	49.0	95.1	96.3	0.5	19.3	2.5	90.9	39.1	40.8	71.4	96.5
More than 20	74.4	75.2	81.7	68.0	47.7	15.0	1.6	37.0	79.0	73.1	82.2	54.4
Currently Unoccupied	98.9	0.0	0.0	0.0	0.2	0.0	0.0	0.0	7.9	0.0	0.0	0.0
Predominant Exterior Wall Material												
Brick, Stone or Stucco	19.6	36.1	39.0	61.8	9.9	4.5	2.2	7.3	18.8	36.8	34.8	54.1
Concrete (Block or Poured)	46.3	44.8	65.1	57.1	6.4	16.0	14.3	3.2	42.8	50.3	64.3	56.4
Concrete Panels	90.9	52.5	48.4	58.8	5.5	15.9	5.5	9.1	92.9	61.0	50.4	68.0
Siding or Shingles	41.0	85.3	73.1	100.3	6.7	3.5	5.4	0.0	26.2	58.1	82.9	.
Metal Panels	40.6	71.6	59.2	68.4	5.6	35.1	6.4	2.6	49.7	69.6	123.5	60.3
Window Glass	60.9	65.5	92.9	87.5	28.9	8.7	2.1	14.7	48.4	81.3	38.0	77.2
Other	97.3	60.3	90.0	70.1	519.7	14.1	0.0	25.7	111.5	27.6	0.0	99.4
No One Major Type	0.0	96.2	X	95.0	0.0	1.1	X	0.2	0.0	45.3	X	64.1
Predominant Roof Material												
Built-Up	28.9	38.0	46.1	66.8	14.9	5.7	1.7	2.0	29.4	39.9	42.7	97.7
Shingles (Not Wood)	25.3	37.6	59.4	71.6	9.4	9.7	17.9	10.5	20.4	43.9	57.3	73.7
Metal Surfacing	45.1	84.0	54.3	73.3	2.7	6.0	8.0	1.9	39.7	81.6	66.0	52.3
Synthetic or Rubber	25.6	44.6	59.4	58.2	9.6	8.6	6.0	3.0	15.8	42.2	55.9	62.6
Slate or Tile	53.5	73.1	31.0	100.2	7.9	36.5	2.3	69.9	10.8	77.9	44.5	101.2
Wooden Materials	64.3	101.1	30.1	0.0	17.8	0.0	0.3	0.0	10.4	.	15.8	0.0
Concrete	X	X	89.6	76.9	X	X	12.9	49.1	X	X	13.0	67.6
Other	100.9	X	100.2	100.3	0.0	X	0.0	0.0	0.0	X	.	.
No One Major Type	70.8	80.3	98.6	X	6.8	7.9	0.0	X	32.1	7.1	0.0	X
Renovations in Buildings Constructed Before 1980 (more than one may apply)												
Any Type of Renovation Since 1980	31.9	57.6	39.1	51.7	10.3	5.5	3.9	6.4	19.1	59.1	38.4	52.7
Addition or Annex	72.3	51.2	40.1	68.4	2.6	3.3	12.5	32.0	12.5	46.1	40.6	89.2
Reduction In Floorspace	70.7	61.0	79.4	87.8	69.0	151.7	16.8	0.6	110.2	194.7	77.5	74.0
Cosmetic Improvements	15.2	73.5	43.3	68.7	15.7	3.7	4.4	9.6	18.3	80.0	38.1	61.2
Wall or Roof Replacement	16.1	40.3	28.8	57.1	23.6	9.5	7.0	3.4	24.5	42.7	40.0	69.3
Interior Wall Re-Configuration	17.2	60.4	51.7	66.8	3.0	6.3	6.1	4.7	19.3	60.5	47.3	66.0
HVAC Equipment Upgrade	23.4	48.5	42.2	51.9	3.8	9.4	4.3	9.9	20.7	51.9	38.4	49.4
Lighting Upgrade	17.9	56.6	47.3	51.6	17.4	8.0	7.0	10.3	17.3	58.0	50.4	48.9
Window Replacement	33.5	22.4	82.6	87.1	24.0	5.9	1.3	79.4	34.2	23.3	55.4	79.7
Plumbing System Upgrade	24.6	57.1	30.7	51.6	21.8	9.7	8.3	7.7	26.8	62.5	41.0	60.6
Insulation Upgrade	38.3	51.5	58.7	77.3	4.3	18.2	9.4	2.7	20.3	43.6	57.4	76.0
Other Renovation	83.1	101.8	100.3	78.9	5.5	0.0	0.0	9.5	549.5	0.0	.	43.2
No Renovations Since 1980	23.7	56.4	57.2	86.3	2.4	14.4	5.9	0.6	18.3	51.8	61.1	94.0
Building Newer than 1980	39.4	33.1	44.1	36.2	5.7	24.3	10.7	3.2	33.5	38.0	42.7	42.1

RSEs for Table C36. Fuel Oil Expenditures by Census Region for Non-Mall Buildings, 2003

	RSEs for Total Fuel Oil Expenditures				RSEs for Fuel Oil Expenditures							
					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*	20.4	41.3	39.7	48.3	5.6	6.7	2.3	3.6	12.4	36.5	36.6	58.4
Energy Sources (more than one may apply)												
Electricity	22.4	43.3	40.7	39.0	4.9	7.1	2.5	4.7	17.8	36.1	35.5	47.9
Natural Gas	22.0	23.9	23.9	52.6	8.8	18.9	6.5	6.9	17.6	25.2	22.9	50.6
Fuel Oil	20.4	41.3	39.7	48.3	5.6	6.7	2.3	3.6	12.4	36.5	36.6	58.4
District Heat	69.4	89.0	20.6	96.5	3.7	48.0	16.4	47.9	55.7	93.3	45.8	213.5
District Chilled Water	68.8	90.2	34.9	94.7	4.6	44.2	8.3	23.2	68.4	95.3	52.3	103.5
Propane	40.0	69.8	86.8	80.2	7.5	6.6	0.7	1.7	9.3	81.7	106.6	72.0
Other	68.4	60.1	36.8	74.5	3.8	14.8	10.1	42.4	23.8	42.3	48.2	53.7
Space-Heating Energy Sources												
Fuel Oil	20.1	43.5	40.6	63.2	5.5	6.7	3.2	5.1	8.0	45.1	27.9	45.3
Fuel Oil Main	21.0	53.2	45.7	76.6	5.6	6.2	4.3	4.6	7.2	59.4	6.4	36.2
Fuel Oil Secondary	39.4	43.5	32.9	31.9	15.2	14.7	11.1	7.7	34.0	30.7	26.7	25.6
Other Excluding Fuel Oil	71.7	44.4	42.3	28.0	9.0	12.5	3.2	6.0	69.3	41.9	44.5	31.0
Buildings without Heating	82.5	0.0	53.8	96.8	8.7	0.0	14.2	0.0	294.1	0.0	62.8	65.5
Primary Space-Heating Energy Source												
Electricity	73.9	75.2	25.4	49.3	63.7	15.7	6.1	6.1	78.0	69.8	31.2	41.0
Natural Gas	45.5	21.7	37.2	51.0	19.0	18.0	8.1	8.9	45.0	22.7	27.4	44.3
Fuel Oil	21.0	53.2	45.7	76.6	5.6	6.2	4.3	4.6	7.2	59.4	6.4	36.2
District Heat	64.8	82.5	22.3	97.8	3.3	46.6	18.8	57.6	58.4	86.4	47.9	128.6
Propane	96.3	97.6	88.1	77.8	6.1	0.1	3.0	4.4	245.9	3.4	28.7	5.3
Other	100.1	69.2	44.1	97.2	0.0	18.3	9.9	6.8	0.0	21.5	67.8	98.1
Cooling Energy Sources												
Fuel Oil	100.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Excluding Fuel Oil	28.3	42.7	40.1	45.2	5.7	7.1	2.3	5.0	23.3	38.0	37.1	45.4
Buildings without Cooling	24.5	60.1	56.9	86.8	13.1	31.2	16.0	1.4	31.3	31.0	54.9	47.8
Water-Heating Energy Sources												
Fuel Oil	26.5	59.2	67.9	64.7	7.7	8.3	1.6	0.9	18.0	52.0	16.7	14.8
Other Excluding Fuel Oil	26.5	53.4	30.0	25.8	6.0	6.8	9.2	6.6	21.1	48.2	31.6	27.2
Buildings without Water Heating	40.0	47.1	75.8	91.3	8.5	10.7	9.3	0.4	90.7	23.7	73.9	40.0
Cooking Energy Sources												
Fuel Oil	78.2	99.9	100.0	100.3	0.7	0.0	100.0	0.0	1.8	0.0	141.4	.
Other Excluding Fuel Oil	24.9	39.1	46.7	67.1	11.2	2.3	4.9	4.4	21.3	39.7	41.9	65.8
Buildings without Cooking	21.2	55.7	39.3	67.1	4.7	6.5	2.9	4.2	13.7	50.0	39.8	65.7
Energy End Uses (more than one may apply)												
Buildings with Space Heating	20.1	41.3	39.8	56.4	5.6	6.7	2.3	4.6	11.9	36.5	36.6	68.7
Buildings with Cooling	27.9	42.7	40.1	45.2	5.6	7.1	2.3	5.0	23.0	38.0	37.1	45.4
Buildings with Water Heating	19.8	45.1	40.9	37.6	5.8	6.7	6.3	4.4	12.5	40.7	39.0	44.5
Buildings with Cooking	25.0	39.0	45.7	67.0	10.6	2.3	4.8	4.4	21.0	39.6	41.5	65.7
Buildings with Manufacturing	40.8	99.9	60.4	90.8	10.4	0.7	5.7	4.6	34.9	77.0	84.7	20.7
Buildings with Electricity Generation	25.8	50.5	30.2	28.0	6.1	12.2	4.8	7.7	27.3	50.0	33.7	25.3
Percent of Floorspace Heated												
Not Heated	82.5	0.0	53.8	96.8	8.7	0.0	14.2	0.0	294.1	0.0	62.8	65.5
1 to 50	42.5	62.4	81.4	48.8	7.2	25.5	6.7	8.2	31.2	16.5	85.5	64.1
51 to 99	33.4	93.0	11.7	85.9	26.9	21.8	11.0	41.2	32.3	96.3	26.9	87.9
100	21.6	47.7	48.1	63.2	5.3	6.1	2.1	3.0	19.1	40.9	41.8	87.6

RSEs for Table C36. Fuel Oil Expenditures by Census Region for Non-Mall Buildings, 2003

	RSEs for Total Fuel Oil Expenditures				RSEs for Fuel Oil Expenditures							
					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*	20.4	41.3	39.7	48.3	5.6	6.7	2.3	3.6	12.4	36.5	36.6	58.4
Heating Equipment (more than one may apply)												
Heat Pumps	58.7	32.2	33.8	82.2	5.8	6.8	5.0	31.7	35.5	36.7	50.9	88.5
Packaged Heat Pumps	100.1	32.7	50.4	52.7	51.0	7.1	5.8	14.1	102.8	37.8	56.5	32.5
Split-System Heat Pumps	X	90.2	82.8	79.9	X	1.1	2.0	9.9	X	70.3	59.6	62.7
Individual Room Heat Pumps	72.2	89.2	38.1	97.8	5.3	1.4	13.9	4.6	66.2	81.0	20.9	103.7
Furnaces	33.4	48.3	51.0	38.5	4.3	12.6	9.0	5.0	13.0	48.7	75.1	42.0
Individual Space Heaters	33.0	51.4	42.2	33.5	3.6	7.5	15.4	12.7	31.8	49.9	38.9	18.5
District Heat	70.0	82.5	21.0	96.5	3.6	46.6	16.9	47.9	56.3	86.4	46.9	213.5
Boilers	16.7	55.0	42.0	62.6	8.9	5.4	2.2	4.3	13.9	59.5	28.0	77.4
Packaged Heating Units	47.7	33.5	50.0	57.7	6.4	3.2	4.4	5.5	43.5	35.1	52.0	59.1
Other	58.7	80.6	53.0	96.2	7.3	41.1	4.2	62.7	46.2	68.4	63.5	172.7
Water Heating Equipment												
Centralized System	18.8	54.9	55.1	53.2	7.2	6.9	9.2	1.4	15.9	45.0	52.5	51.3
Distributed System	40.9	64.2	54.7	67.0	7.3	36.4	14.3	25.1	25.2	73.0	37.3	74.2
Combination of Centralized and Distributed System	42.1	59.3	24.6	16.5	5.9	24.7	2.1	10.3	45.2	61.3	28.3	30.2
Energy-Related Space Functions (more than one may apply)												
Commercial Food Preparation	25.0	39.0	45.7	67.0	10.6	2.3	4.8	4.4	21.0	39.6	41.5	65.7
Activities with Large Amounts of Hot Water	25.7	33.8	50.1	53.3	13.0	2.8	2.9	2.9	20.9	36.4	45.2	68.7
Separate Computer Area	19.8	38.8	39.2	50.3	12.1	2.6	7.6	4.9	21.8	38.5	39.7	61.0
HVAC Conservation Features (more than one may apply)												
Variable Air-Volume System	30.1	41.2	33.3	38.4	21.0	2.5	6.3	3.8	33.5	42.5	36.5	43.6
Economizer Cycle	26.2	38.1	34.4	29.7	7.3	3.1	8.8	6.5	21.4	38.8	30.9	33.5
HVAC Maintenance	21.1	41.2	41.3	50.2	6.3	8.6	2.4	3.3	13.3	40.9	38.6	60.7
Energy Management and Control System (EMCS)	26.4	28.3	37.6	78.3	6.3	7.4	9.2	2.5	28.3	25.9	35.3	80.4
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]												
Heating	21.7	29.1	42.1	64.0	5.3	7.9	2.1	5.3	16.3	29.9	40.8	81.9
Cooling	27.2	34.6	42.4	64.8	5.5	13.6	2.2	4.3	23.4	34.2	41.0	64.3
Lighting	24.3	49.7	48.2	68.2	6.9	6.9	4.2	4.4	11.6	45.8	47.3	72.3
Office Equipment	24.8	77.4	84.1	82.2	8.5	4.5	2.5	8.2	23.1	84.5	59.8	99.0
Annual Consumption (gallons)												
1,000 or Less	23.1	44.3	36.6	20.8	7.4	15.9	6.1	2.5	25.1	42.7	41.4	28.5
1,001 to 5,000	29.9	60.0	75.8	66.7	3.5	21.9	2.2	3.6	19.8	51.7	64.0	104.2
5,001 to 10,000	36.6	7.6	59.1	93.6	29.2	11.1	14.0	0.3	45.4	28.7	52.1	29.8
10,001 to 25,000	34.2	77.8	34.7	73.0	12.8	2.7	3.7	10.5	31.0	67.0	20.5	52.2
Over 25,000	41.3	60.9	39.7	59.2	8.6	6.1	10.9	2.6	9.8	50.9	19.5	23.8

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

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

	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*	12.4	13.4	12.0	19.2	32.3
Building Floorspace (Square Feet)					
1,001 to 5,000	72.2	76.4	51.1	X	100.3
5,001 to 10,000	41.5	41.3	4.6	65.3	97.0
10,001 to 25,000	30.1	31.6	5.9	61.2	98.9
25,001 to 50,000	22.9	21.5	3.4	42.9	37.7
50,001 to 100,000	19.1	18.8	3.6	50.4	67.7
100,001 to 200,000	23.3	23.4	4.0	34.3	46.4
200,001 to 500,000	25.3	25.6	2.0	27.2	36.4
Over 500,000	21.3	21.0	8.7	32.9	40.5
Principal Building Activity					
Education	18.2	19.5	19.0	42.6	86.2
Food Service	32.3	40.6	26.7	73.4	98.9
Health Care	37.4	17.3	51.2	43.1	43.8
Inpatient	22.7	19.2	18.3	44.3	43.8
Outpatient	66.0	43.5	82.5	76.1	X
Lodging	44.2	30.2	56.7	38.3	79.7
Retail (Other Than Mall)	100.2	100.2	0.0	X	X
Office	35.9	21.8	28.6	30.1	36.0
Public Assembly	48.0	27.1	27.2	48.3	49.4
Public Order and Safety	56.5	61.1	50.7	100.6	100.6
Religious Worship	100.1	100.1	0.0	X	X
Service	79.2	92.1	69.8	94.0	100.1
Warehouse and Storage	50.4	71.9	38.3	78.3	76.3
Other	43.3	52.5	30.2	59.1	86.2
Vacant	70.7	78.3	79.9	100.1	100.1
Year Constructed					
Before 1920	43.1	42.4	38.2	48.7	51.8
1920 to 1945	37.5	37.8	32.2	38.9	35.7
1946 to 1959	34.2	30.8	41.0	44.7	57.7
1960 to 1969	31.3	17.3	22.1	38.1	59.8
1970 to 1979	26.7	18.4	26.4	34.1	41.7
1980 to 1989	29.2	29.2	22.0	51.0	48.7
1990 to 1999	31.6	33.7	34.1	38.4	60.7
2000 to 2003	22.1	31.0	24.7	31.3	77.3
Census Region and Division					
Northeast	25.1	19.9	23.3	45.1	48.5
New England	57.0	34.8	79.1	46.7	66.5
Middle Atlantic	26.2	23.4	22.1	53.9	63.6
Midwest	32.9	34.2	25.6	34.9	43.8
East North Central	36.7	38.7	16.6	38.0	49.8
West North Central	59.0	63.8	42.4	86.9	93.7
South	21.4	20.7	20.8	33.2	54.0
South Atlantic	25.2	26.7	25.7	42.2	64.7
East South Central	51.9	38.1	21.1	68.9	97.6
West South Central	35.2	51.1	85.4	76.1	99.1
West	22.4	23.2	21.7	46.6	55.6
Mountain	20.6	40.8	40.7	77.7	100.1
Pacific	39.8	28.5	25.6	53.3	60.9

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

	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*	12.4	13.4	12.0	19.2	32.3
Climate Zone: 30-Year Average					
Under 2,000 CDD and --					
More than 7,000 HDD	43.1	22.1	42.9	23.2	55.4
5,500-7,000 HDD	22.5	32.7	25.5	35.6	44.7
4,000-5,499 HDD	24.9	28.0	21.1	37.5	51.6
Fewer than 4,000 HDD	27.0	28.4	14.7	41.8	55.2
2,000 CDD or More and --					
Fewer than 4,000 HDD	34.8	41.1	48.5	80.3	100.3
Number of Floors					
One	26.0	62.0	48.7	70.9	97.5
Two	32.5	33.1	23.6	47.4	41.6
Three	30.0	22.8	19.8	47.6	98.3
Four to Nine	21.3	15.5	15.6	25.3	43.9
Ten or More	24.1	22.3	14.9	29.8	35.3
Number of Workers (main shift)					
Fewer than 5	26.3	47.8	40.6	63.8	61.1
5 to 9	53.3	73.9	52.8	102.2	83.3
10 to 19	44.9	27.1	33.5	48.1	87.8
20 to 49	30.6	24.2	13.9	41.5	91.6
50 to 99	20.7	20.3	19.0	39.1	71.2
100 to 249	16.2	19.1	12.3	40.5	57.8
250 or More	27.8	18.1	18.0	26.1	29.8
Weekly Operating Hours					
Fewer than 40	55.9	58.3	66.8	100.1	100.1
40 to 48	37.2	30.3	38.4	55.5	59.1
49 to 60	31.7	37.2	30.9	32.5	41.5
61 to 84	29.5	23.1	33.9	35.4	43.1
85 to 167	25.1	26.4	14.2	23.4	45.1
Open Continuously	26.0	18.1	28.7	30.7	46.8
Ownership and Occupancy					
Nongovernment Owned	20.1	17.4	20.2	28.7	39.1
Owner Occupied	21.5	18.4	22.7	34.9	47.1
Nonowner Occupied	42.1	30.4	40.0	40.8	48.2
Unoccupied	100.1	100.1	0.0	X	X
Government Owned	16.9	19.1	16.0	24.4	44.9
Federal	48.3	55.3	24.6	51.5	65.9
State	20.1	18.6	13.4	27.5	53.8
Local	37.9	35.5	43.9	88.1	68.9
Vacancy Status					
Completely Vacant	70.7	78.3	79.9	100.1	100.1
Mostly Vacant	0.0	0.0	0.0	0.0	0.0
Partially Vacant	25.0	18.5	26.4	36.6	41.8
Not At All Vacant	14.0	15.1	13.1	21.1	45.0
Number of Establishments					
One	14.8	19.3	16.6	22.9	39.8
2 to 5	34.5	24.4	23.9	37.7	67.5
6 to 10	64.9	57.2	115.6	71.7	62.4
11 to 20	54.0	47.6	39.4	50.9	57.3
More than 20	30.8	39.4	18.7	53.2	63.4
Currently Unoccupied	70.7	78.3	79.9	100.1	100.1

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

	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*	12.4	13.4	12.0	19.2	32.3
Predominant Exterior Wall Material					
Brick, Stone or Stucco	14.9	19.7	15.8	23.9	45.0
Concrete (Block or Poured)	34.3	26.6	27.3	41.6	56.7
Concrete Panels	39.8	35.8	18.8	41.4	55.1
Siding or Shingles	100.3	100.3	0.0	100.3	X
Metal Panels	58.4	53.8	79.6	66.2	72.5
Window Glass	53.0	43.4	47.4	60.6	85.9
Other	51.3	47.5	18.4	93.6	78.2
No One Major Type	65.8	60.4	80.7	X	X
Predominant Roof Material					
Built-Up	22.8	16.5	17.5	24.2	44.4
Shingles (Not Wood)	29.0	27.1	20.8	68.2	37.4
Metal Surfacing	54.9	51.9	13.0	100.1	X
Synthetic or Rubber	28.3	20.0	21.0	34.3	53.1
Slate or Tile	33.8	34.5	41.1	55.4	97.6
Wooden Materials	83.5	86.0	17.4	X	X
Concrete	50.8	69.0	54.3	95.4	99.6
Other	97.0	93.2	122.4	97.9	93.8
No One Major Type	84.9	63.2	26.9	76.7	70.2
Renovations in Buildings Constructed Before 1980 (more than one may apply)					
Any Type of Renovation Since 1980	22.2	17.5	22.5	25.3	36.3
Addition or Annex	32.2	28.6	28.0	43.8	58.2
Reduction In Floorspace	59.2	47.1	41.3	98.6	98.6
Cosmetic Improvements	22.7	18.6	20.5	27.4	40.0
Wall or Roof Replacement	37.6	25.2	45.8	39.4	53.9
Interior Wall Re-Configuration	22.8	22.2	24.5	30.2	45.2
HVAC Equipment Upgrade	27.7	20.4	26.7	27.5	39.1
Lighting Upgrade	24.3	18.5	26.5	28.3	41.0
Window Replacement	47.3	28.4	77.1	42.5	45.5
Plumbing System Upgrade	40.5	23.9	56.2	30.3	44.8
Insulation Upgrade	33.5	32.5	30.1	56.9	70.9
Other Renovation	59.1	58.8	36.5	75.5	59.2
No Renovations Since 1980	15.6	24.5	19.0	32.8	63.3
Building Newer than 1980	20.8	19.3	19.6	36.9	35.7
Energy Sources (more than one may apply)					
Electricity	14.2	15.1	13.5	19.6	27.0
Natural Gas	30.8	16.4	36.5	33.0	44.9
Fuel Oil	23.6	23.1	20.3	33.4	40.0
District Heat	12.4	13.4	12.0	19.2	32.3
District Chilled Water	15.9	14.4	16.5	26.4	60.7
Propane	51.6	61.3	63.9	83.2	86.4
Other	89.5	59.5	29.1	66.3	98.6

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

	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*	12.4	13.4	12.0	19.2	32.3
Space-Heating Energy Sources					
District Heat	12.4	13.9	12.4	19.2	32.3
District Heat Main	12.8	14.4	12.5	19.9	33.7
District Heat Secondary	38.5	39.1	45.3	63.6	57.6
Other Excluding District Heat	78.2	41.5	230.3	X	X
Buildings without Heating	69.0	79.4	29.2	98.1	X
Primary Space-Heating Energy Source					
Electricity	64.2	42.9	102.6	68.3	53.6
Natural Gas	51.8	45.8	69.5	76.9	77.2
Fuel Oil	0.0	0.0	0.0	0.0	0.0
District Heat	12.8	14.4	12.5	19.9	33.7
Propane	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0
Cooling Energy Sources					
District Heat	38.1	38.4	39.4	45.6	47.7
Other Excluding District Heat	13.1	11.4	12.0	20.3	37.1
Buildings without Cooling	28.3	51.5	35.8	66.1	100.3
Water-Heating Energy Sources					
District Heat	22.6	14.2	18.1	20.7	30.6
Other Excluding District Heat	17.6	18.1	19.4	44.5	57.4
Buildings without Water Heating	49.7	54.3	33.6	64.5	95.5
Cooking Energy Sources					
District Heat	26.4	27.1	23.7	44.4	48.4
Other Excluding District Heat	40.4	21.8	61.0	43.8	40.7
Buildings without Cooking	13.1	15.1	11.7	23.2	41.5
Energy End Uses (more than one may apply)					
Buildings with Space Heating	12.5	13.6	12.1	19.2	32.3
Buildings with Cooling	12.9	11.0	12.1	19.5	32.4
Buildings with Water Heating	12.1	10.8	11.3	19.9	32.5
Buildings with Cooking	33.5	18.8	45.8	31.5	37.5
Buildings with Manufacturing	68.6	56.7	46.4	69.7	67.7
Buildings with Electricity Generation	17.8	18.5	17.0	28.3	45.8
Percent of Floorspace Heated					
Not Heated	69.0	79.4	29.2	98.1	X
1 to 50	91.0	61.2	442.0	100.0	100.0
51 to 99	44.3	26.7	37.3	45.4	48.4
100	14.3	14.3	13.1	21.4	36.0

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

	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*	12.4	13.4	12.0	19.2	32.3
Heating Equipment (more than one may apply)					
Heat Pumps	35.4	37.3	28.7	75.9	76.0
Packaged Heat Pumps	46.3	44.8	44.9	97.6	96.5
Split-System Heat Pumps	59.2	74.9	46.1	86.2	87.1
Individual Room Heat Pumps	49.8	40.5	32.2	69.1	61.2
Furnaces	57.1	31.9	46.5	46.2	69.2
Individual Space Heaters	35.5	27.1	30.9	38.4	64.0
District Heat	12.5	14.0	12.5	19.2	32.3
Boilers	51.4	45.2	35.5	95.3	77.2
Packaged Heating Units	29.6	22.8	20.8	50.8	63.4
Other	47.6	44.9	43.2	60.1	64.1
Water Heating Equipment					
Centralized System	14.1	13.4	14.2	20.7	34.2
Distributed System	36.7	34.9	36.7	66.8	94.2
Combination of Centralized and Distributed System	24.8	21.2	21.9	34.2	36.8
Energy-Related Space Functions (more than one may apply)					
Commercial Food Preparation	33.5	18.8	45.8	31.5	37.5
Activities with Large Amounts of Hot Water	28.5	16.3	23.3	27.9	42.4
Separate Computer Area	15.6	14.6	13.6	21.8	37.0
HVAC Conservation Features (more than one may apply)					
Variable Air-Volume System	19.6	13.7	17.0	23.9	38.0
Economizer Cycle	13.5	14.0	13.5	23.7	38.9
HVAC Maintenance	12.6	14.1	12.3	19.3	32.3
Energy Management and Control System (EMCS)	14.5	13.7	13.7	23.9	40.8
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]					
Heating	17.1	13.6	17.5	23.7	40.1
Cooling	15.7	13.1	16.0	23.6	39.1
Lighting	15.4	17.8	16.1	22.3	30.9
Office Equipment	22.2	33.5	31.4	36.7	70.1

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

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

	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*	19.7	19.2	30.2	33.7	32.0	25.8
Building Floorspace (Square Feet)						
1,001 to 5,000	X	X	X	141.4	235.4	X
5,001 to 10,000	57.0	60.4	71.1	65.2	69.0	46.7
10,001 to 25,000	45.3	43.7	40.6	99.7	99.0	108.6
25,001 to 50,000	43.5	42.6	40.4	39.4	38.0	30.6
50,001 to 100,000	49.0	48.3	51.3	64.4	63.8	38.0
100,001 to 200,000	37.8	38.1	55.0	45.5	46.8	46.0
200,001 to 500,000	28.8	28.7	27.0	37.7	37.7	30.7
Over 500,000	35.0	31.3	33.7	34.6	28.2	33.6
Principal Building Activity						
Education	45.0	40.6	60.4	87.2	85.4	38.4
Food Service	62.7	48.7	54.3	66.5	100.8	112.4
Health Care	72.8	38.3	40.9	70.1	41.8	49.0
Inpatient	47.0	38.4	41.6	46.0	41.5	49.3
Outpatient	162.5	69.4	58.0	X	X	X
Lodging	73.4	36.1	45.9	97.3	80.9	86.3
Retail (Other Than Mall)	X	X	X	X	X	X
Office	27.2	21.2	23.3	38.7	22.3	20.9
Public Assembly	57.5	48.8	51.6	59.4	52.2	71.4
Public Order and Safety	110.9	150.9	178.4	110.9	150.9	0.0
Religious Worship	X	X	X	X	X	X
Service	78.9	25.6	61.6	105.4	100.4	100.2
Warehouse and Storage	82.2	86.4	132.3	79.4	84.3	15.0
Other	78.2	119.6	94.2	78.8	123.2	121.8
Vacant	171.7	295.9	0.0	171.7	295.9	0.0
Year Constructed						
Before 1920	57.4	68.0	44.9	60.0	74.3	19.0
1920 to 1945	48.6	42.9	43.6	44.2	34.6	37.3
1946 to 1959	52.9	37.8	37.8	71.1	43.2	31.0
1960 to 1969	40.1	34.9	36.6	62.4	56.9	36.6
1970 to 1979	45.5	29.9	28.8	47.7	39.7	35.1
1980 to 1989	59.1	56.5	58.7	56.5	53.0	53.7
1990 to 1999	42.1	32.5	53.9	72.4	66.0	60.1
2000 to 2003	35.6	26.5	25.2	76.4	53.1	43.2
Census Region and Division						
Northeast	49.4	43.8	43.0	52.1	47.6	26.6
New England	122.6	48.6	50.1	127.0	62.3	119.7
Middle Atlantic	54.0	52.1	51.1	63.9	62.2	11.6
Midwest	46.3	38.6	39.2	50.3	46.4	31.6
East North Central	44.9	41.6	42.3	51.9	52.1	36.4
West North Central	125.9	156.5	140.9	132.0	162.0	54.4
South	27.8	27.4	46.9	58.7	45.3	42.2
South Atlantic	38.6	34.0	55.1	74.6	53.5	53.0
East South Central	33.5	51.0	34.0	39.3	69.3	35.9
West South Central	77.4	80.5	81.7	104.4	105.4	97.9
West	44.2	41.5	47.6	57.4	51.1	63.8
Mountain	79.4	86.2	102.3	102.3	100.8	327.6
Pacific	53.5	42.9	54.6	65.1	56.5	69.5

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

	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*	19.7	19.2	30.2	33.7	32.0	25.8
Climate Zone: 30-Year Average						
Under 2,000 CDD and --						
More than 7,000 HDD	75.5	35.1	44.8	84.9	53.6	63.9
5,500-7,000 HDD	36.3	37.6	36.8	47.1	48.5	50.4
4,000-5,499 HDD	31.6	29.9	30.8	49.4	46.0	26.9
Fewer than 4,000 HDD	29.9	38.7	38.7	60.1	59.3	77.9
2,000 CDD or More and --						
Fewer than 4,000 HDD	89.9	85.0	92.5	109.6	105.5	101.7
Number of Floors						
One	73.9	79.0	89.4	101.1	104.9	93.9
Two	39.0	42.5	35.6	46.9	47.0	38.7
Three	42.8	42.8	46.1	92.2	84.1	93.4
Four to Nine	29.5	25.6	43.2	44.1	43.1	34.5
Ten or More	17.5	22.7	23.3	30.5	25.5	24.9
Number of Workers (main shift)						
Fewer than 5	69.0	72.1	77.6	64.6	70.1	120.1
5 to 9	65.1	98.8	65.7	53.6	83.3	23.6
10 to 19	41.8	47.0	45.8	49.6	71.7	41.2
20 to 49	37.5	36.3	38.2	93.5	91.0	49.1
50 to 99	39.4	35.3	41.6	72.7	71.9	74.4
100 to 249	41.2	43.8	42.6	53.5	56.1	72.4
250 or More	30.7	24.3	38.7	31.9	21.1	25.6
Weekly Operating Hours						
Fewer than 40	119.0	146.8	109.4	119.0	146.8	0.0
40 to 48	64.9	67.3	67.0	64.2	69.2	35.3
49 to 60	24.9	35.4	30.2	46.2	42.6	33.9
61 to 84	48.2	27.6	38.9	56.5	35.5	37.1
85 to 167	30.5	29.5	51.8	49.9	49.3	42.9
Open Continuously	42.4	31.2	32.1	51.6	46.5	34.9
Ownership and Occupancy						
Nongovernment Owned	32.5	27.2	27.3	41.7	37.7	27.1
Owner Occupied	40.5	36.4	35.8	50.0	47.3	33.8
Nonowner Occupied	50.0	28.0	29.4	65.2	34.1	30.3
Unoccupied	X	X	0.0	X	X	X
Government Owned	24.6	24.9	39.9	47.9	42.1	42.4
Federal	62.7	56.8	54.8	71.4	55.4	48.8
State	22.6	23.4	45.5	57.1	54.2	56.2
Local	96.8	94.3	110.5	79.6	72.8	236.3
Vacancy Status						
Completely Vacant	171.7	295.9	0.0	171.7	295.9	0.0
Mostly Vacant	0.0	0.0	0.0	0.0	0.0	0.0
Partially Vacant	42.7	35.6	38.0	43.0	37.5	46.6
Not At All Vacant	20.5	20.6	36.7	46.3	45.6	30.6
Number of Establishments						
One	25.9	24.3	24.5	41.4	39.2	39.1
2 to 5	36.3	38.2	39.0	69.5	68.6	36.5
6 to 10	159.6	72.5	85.6	156.3	67.2	53.1
11 to 20	57.9	56.5	91.5	59.3	40.2	28.8
More than 20	38.1	37.8	36.1	48.1	37.5	30.1
Currently Unoccupied	171.7	295.9	0.0	171.7	295.9	0.0

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

	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*	19.7	19.2	30.2	33.7	32.0	25.8
Predominant Exterior Wall Material						
Brick, Stone or Stucco	23.1	24.9	24.1	46.5	46.2	31.7
Concrete (Block or Poured)	43.9	28.7	35.7	59.0	46.6	41.2
Concrete Panels	51.0	51.8	59.9	64.6	60.5	49.2
Siding or Shingles	0.0	0.0	0.0	X	X	X
Metal Panels	98.7	29.9	36.1	90.9	46.1	72.3
Window Glass	66.2	46.0	51.0	91.8	59.2	42.1
Other	96.1	80.5	117.6	82.5	74.9	84.9
No One Major Type	X	X	X	X	X	X
Predominant Roof Material						
Built-Up	22.4	22.1	23.8	46.6	43.0	27.6
Shingles (Not Wood)	74.5	59.6	59.2	44.2	40.0	47.2
Metal Surfacing	100.6	100.0	106.8	X	X	X
Synthetic or Rubber	40.6	35.0	52.2	52.2	50.6	56.5
Slate or Tile	67.1	28.0	27.8	113.5	58.5	52.2
Wooden Materials	X	X	X	X	X	X
Concrete	113.9	104.1	124.7	119.5	112.8	1926.6
Other	2958.5	1278.9	461.3	2957.8	1278.3	178.2
No One Major Type	84.2	71.7	63.1	75.1	53.3	77.0
Renovations in Buildings Constructed Before 1980 (more than one may apply)						
Any Type of Renovation Since 1980	32.9	19.8	23.9	41.3	29.6	34.0
Addition or Annex	51.4	42.1	44.0	61.8	41.1	42.8
Reduction In Floorspace	136.7	101.1	119.3	136.7	101.1	0.0
Cosmetic Improvements	32.4	23.0	27.9	41.4	33.7	41.4
Wall or Roof Replacement	62.9	29.3	31.2	69.7	43.0	56.3
Interior Wall Re-Configuration	35.3	23.7	30.9	40.5	36.7	44.8
HVAC Equipment Upgrade	35.7	19.5	23.7	43.4	30.6	37.4
Lighting Upgrade	37.5	23.2	28.8	46.3	34.1	40.6
Window Replacement	91.8	26.7	35.3	90.3	35.4	54.2
Plumbing System Upgrade	68.7	22.2	25.8	71.9	35.6	47.0
Insulation Upgrade	62.5	41.5	44.4	53.3	54.8	77.2
Other Renovation	60.5	92.8	229.9	57.1	42.0	178.8
No Renovations Since 1980	29.8	34.4	32.0	63.9	65.2	36.8
Building Newer than 1980	41.2	38.4	51.7	41.3	36.3	39.6
Energy Sources (more than one may apply)						
Electricity	20.5	19.0	33.8	28.0	24.4	26.3
Natural Gas	53.3	31.3	33.9	56.0	41.6	49.7
Fuel Oil	36.7	31.7	31.1	43.6	28.8	31.8
District Heat	19.7	19.2	30.2	33.7	32.0	25.8
District Chilled Water	29.0	26.9	42.9	60.4	60.9	39.8
Propane	105.9	86.6	71.1	110.2	93.8	95.3
Other	38.2	14.9	26.5	109.4	87.9	97.0

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

	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*	19.7	19.2	30.2	33.7	32.0	25.8
Space-Heating Energy Sources						
District Heat	19.8	19.4	30.7	33.6	32.0	25.8
District Heat Main	20.4	20.3	31.4	35.1	33.5	27.0
District Heat Secondary	67.1	48.9	65.6	69.0	45.2	41.9
Other Excluding District Heat	X	X	X	X	X	X
Buildings without Heating	44.7	78.4	88.2	X	X	X
Primary Space-Heating Energy Source						
Electricity	162.5	86.8	127.6	159.6	81.1	18.1
Natural Gas	77.9	59.5	77.3	113.9	65.2	51.5
Fuel Oil	0.0	0.0	0.0	0.0	0.0	0.0
District Heat	20.4	20.3	31.4	35.1	33.5	27.0
Propane	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0
Cooling Energy Sources						
District Heat	31.2	31.8	44.7	34.6	21.4	34.9
Other Excluding District Heat	20.3	19.6	32.6	38.2	36.1	29.8
Buildings without Cooling	67.7	73.6	39.7	103.6	106.3	116.1
Water-Heating Energy Sources						
District Heat	23.6	17.4	19.0	35.6	23.9	24.3
Other Excluding District Heat	45.4	44.1	57.0	59.2	57.1	39.6
Bldgs without Water Heating	72.0	74.5	1025.9	102.0	103.9	93.6
Cooking Energy Sources						
District Heat	46.0	37.5	41.5	46.6	31.7	43.2
Other Excluding District Heat	77.2	42.6	44.3	74.4	34.1	38.1
Buildings without Cooking	21.5	22.8	38.5	42.2	41.8	31.3
Energy End Uses (more than one may apply)						
Buildings with Space Heating	19.8	19.3	30.3	33.7	32.0	25.8
Buildings with Cooling	19.9	17.8	30.4	33.7	30.8	25.7
Buildings with Water Heating	20.1	18.1	30.9	33.8	31.0	26.0
Buildings with Cooking	55.8	29.5	32.5	58.2	28.0	33.2
Buildings with Manufacturing	37.7	46.2	69.3	64.9	40.1	48.2
Buildings with Electricity Generation	29.7	26.8	29.2	45.3	43.5	26.3
Percent of Floorspace Heated						
Not Heated	44.7	78.4	88.2	X	X	X
1 to 50	944.4	108.0	52.4	944.4	108.0	0.0
51 to 99	53.2	41.4	43.7	55.9	29.5	49.3
100	21.3	21.3	33.0	37.7	36.6	28.5

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

	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*	19.7	19.2	30.2	33.7	32.0	25.8
Heating Equipment (more than one may apply)						
Heat Pumps	69.6	71.7	77.5	67.9	72.2	8.9
Packaged Heat Pumps	90.5	50.5	63.9	89.9	49.8	2.3
Split-System Heat Pumps	28.0	76.5	89.3	29.0	77.7	1.2
Individual Room Heat Pumps	78.0	68.4	70.3	47.0	45.8	53.3
Furnaces	48.0	27.0	61.8	47.3	60.7	61.7
Individual Space Heaters	34.8	19.9	32.0	64.0	52.8	70.3
District Heat	19.7	19.4	30.9	33.6	32.0	25.8
Boilers	102.8	95.6	99.6	84.8	69.3	386.5
Packaged Heating Units	49.3	48.9	51.6	54.3	58.4	32.3
Other	65.2	69.5	60.4	65.7	65.0	36.8
Water Heating Equipment						
Centralized System	21.0	16.2	19.3	36.0	27.7	24.8
Distributed System	62.2	66.0	72.5	99.2	94.3	33.1
Combination of Centralized and Distributed System	41.9	35.4	50.4	39.4	35.7	43.4
Energy-Related Space Functions (more than one may apply)						
Commercial Food Preparation	55.8	29.5	32.5	58.2	28.0	33.2
Activities with Large Amounts of Hot Water	33.3	27.2	31.2	46.2	40.6	45.0
Separate Computer Area	22.9	20.5	22.3	37.0	34.8	28.2
HVAC Conservation Features (more than one may apply)						
Variable Air-Volume System	29.3	23.9	37.9	40.3	37.3	29.4
Economizer Cycle	24.2	21.8	37.5	38.7	36.9	29.5
HVAC Maintenance	19.7	19.4	30.5	33.5	32.1	25.8
Energy Management and Control System (EMCS)	27.0	23.3	24.0	40.8	39.3	30.9
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)[a]						
Heating	28.8	23.0	25.2	42.1	38.8	28.5
Cooling	28.3	22.9	36.7	40.6	37.7	29.5
Lighting	21.6	22.4	36.1	33.5	30.4	24.7
Office Equipment	42.7	44.8	43.8	74.0	72.9	50.4

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